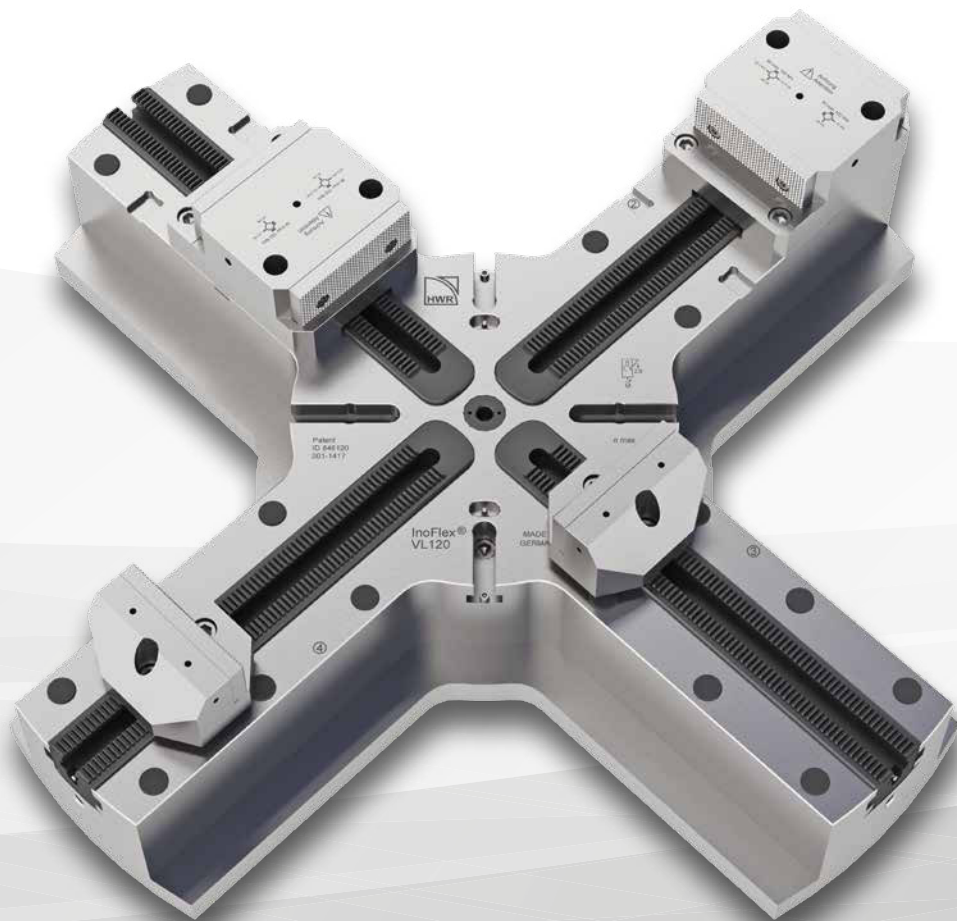


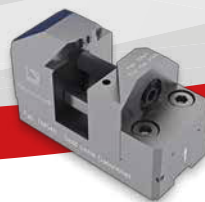
GESAMTKATALOG GENERAL CATALOG



 InoFlex®



 InoZet®



 InoTop®



 InoGrip®



Spanntechnik ino®vativ!

Sehr geehrte Damen und Herren,
liebe Kunden,

wir freuen uns, Ihnen unseren neuen HWR-Gesamtkatalog zu präsentieren. Auch in dieser Ausgabe dreht sich alles um die Ino®Familie, die ihresgleichen sucht.

1989 gegründet, ist die HWR Spanntechnik GmbH immer wieder mutig neue, spannende Wege gegangen und hat sich zum Spezialisten in der ausgleichenden Spanntechnik entwickelt.

Um eine ständige Weiterentwicklung der Produktfamilie zu gewähren und die nächste Generation zu positionieren, sind die langjährigen Mitarbeiter Henrico Viets (Kaufmännischer Bereich) und Matthias Meier (Vertrieb) zu weiteren Geschäftsführern bestellt worden.

Das gemeinsame Ziel des nun dreiköpfigen Führungsteams ist es: der Ino®vator und Marktführer in der ausgleichenden Spanntechnik zu sein. Sie als Kunde profitieren durch eine Spanntechnik die Ihre Produktion optimiert und Fertigungskosten senkt.

Wir freuen uns auf eine gute und intensive Zusammenarbeit mit Ihnen!

Volker Henke

Geschäftsleitung der HWR Spanntechnik GmbH/Management of HWR Spanntechnik GmbH

Matthias Meier

Henrico Viets

Clamping technology ino®vative!

Dear Ladies and Gentlemen,
Dear customers,

we are pleased to present our new HWR general catalogue to you. In this issue too, everything is revolving around the Ino®family which is without equal.

Founded in 1989 HWR Spanntechnik GmbH repeatedly broke the mould and became a renowned specialist in the field of compensating clamping technology.

In order to guarantee a continuous development of the product family and to put the next generation in position, the long-time employees Henrico Viets (commercial field) and Matthias Meier (sales) joined the management.

The shared objective of the three-person management team is: to be the market leader in the field of compensating clamping technology. You as a customer benefit through a clamping technology which optimises your manufacturing process and reduces your cost of production.

We are looking forward to a fruitful and intense cooperation with you!

Inhaltsübersicht contents

Die Ino®-Produktfamilie im Überblick

Einfache, gute und clevere Spannlösungen zu entwickeln, ist eine Herausforderung, die Kreativität, Erfahrung und Selbstbewusstsein erfordert.

InoFlex®, InoZet®, InoTop® und InoGrip® sind Produkte, die den stetig steigenden Anforderungen in der Dreh- und Fräsbearbeitung gerecht werden. Moderne Werkzeugmaschinen benötigen Spannsysteme, die universell eingesetzt werden können und in der Lage sind, höchste Genauigkeiten zu realisieren.

Mit den Ino®-Spannsystemen werden sowohl kubische als auch runde Bauteile optimal gespannt. Dies ermöglicht Ihnen eine kostengünstige Herstellung Ihrer Bauteile. Vor allem beim Spannen von verformungsempfindlichen Bauteilen können mit den Ino®-Spannsystemen hervorragende Ergebnisse erzielt werden.

The Ino®-product family: an overview

Developing simple, good, clever clamping solutions is a challenge that demands creativity, experience and self-confidence.

InoFlex®, InoZet®, InoTop® and InoGrip® are products that fulfil the constantly increasing demands in turning and milling. Modern machine tools need clamping systems that can be put to universal use and yet deliver highest precision.

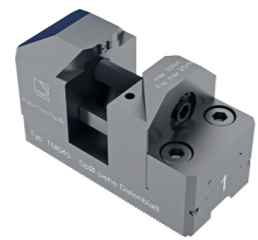
The Ino®-clamping systems provide optimum clamping of both cubic and round parts, permitting low-cost production of your components. They achieve outstanding results, particularly when clamping deformation-sensitive parts.



Seiten/pages
8–49



Seiten/pages
50–73



Seiten/pages
74–89



Seiten/pages
90–125



Seiten/pages
126–127

InoFlex® – die Innovation von HWR setzt neue Maßstäbe in der Spanntechnik!

InoFlex® – ausgleichende 4-Backen Spannung zum Spannen von runden, kubischen und geometrisch unförmigen Bauteilen für den Einsatz auf Dreh- und Fräsmaschinen. Ein kostengünstiger Alleskönner mit hohen Wiederhol- und Rundlaufgenauigkeiten. Lieferbar sind Baugrößen von 160 mm bis 1000 mm Durchmesser.

InoFlex® – the innovation by HWR sets new standards in clamping technology!

InoFlex® – compensating 4-jaw chuck for clamping round, cubic and geometrically irregular parts, for use on turning and milling machines. A low-cost all-rounder with high precision and roundness accuracy. Available in sizes from 160 mm to 1000 mm diameter.

InoZet® – herausragende Drehergebnisse und erhebliche Kostenersparnis!

Mit InoZet® machen Sie aus Ihrem herkömmlichen 3-Backen-Futter im Handumdrehen ein extrem flexibles, ausgleichendes 6-Backen-Futter. Mit InoZet® benötigen Sie weder unzählige Pendelbacken noch spezielle Sonderkonstruktionen – das führt zu einer enormen Kostenersparnis.

InoZet® – outstanding turning results and considerable cost savings!

InoZet® turns your conventional 3-jaw chuck into an extremely flexible, compensating 6-jaw chuck in next-to-no time. InoZet® manages without countless pendulum jaws and special constructions, helping you to enormous cost savings.

InoTop®-Hybridspannbacke – die innovative Spannbacke setzt neue Maßstäbe beim Spannen von dünnwandigen Bauteilen!

Durch die Bauweise der InoTop®-Hybridspannbacke® wird das Bauteil ohne Druck von außen zentriert und von innen gespannt. InoTop® eignet sich für das Spannen von dünnwandigen Rohren in der ersten Aufspannung. InoTop® ist einfach und effektiv in der Anwendung und passt auf fast jedes Spannfutter ab 250 mm.

InoTop® – the innovative hybrid clamping jaw sets new standards in clamping thin-walled parts!

With the innovative design of the InoTop® hybrid clamping jaw, the part is centred from the outside without pressure and clamped from the inside. InoTop® is suitable for clamping thin-walled pipes when clamping for the first operation. InoTop® is easy and effective to use and fits on almost every standard chuck from 250 mm.

InoGrip® – die bewährte Prägespanntechnik für die Drehbearbeitung!

InoGrip® macht sich das physikalische Prinzip des Formschlusses zunutze. Durch eine definierte Prägung wird das Werkstück mit geringem Spanndruck und zugleich hohen Haltekräften prozesssicher gespannt.

InoGrip® – the proven stamping system for turning!

InoGrip® uses the physical principle of the form fit. Defined stamping reliably clamps the workpiece with low clamping pressure and yet high holding forces.

HWR Standardspannbacken für alle gängigen Spannfutter

Im Bereich der Spannbacken haben wir einen besonderen Service für Sie vorbereitet. Mit Hilfe unseres Spannbacken-Finders können sie schnell und bequem die passenden Spannbacken für Ihr Spannfutter finden.

HWR standard jaws for all common chucks

As far as clamping jaws are concerned we provide you with a special service. With the help of our clamping jaw finder you are in the position to find the appropriate clamping jaw for your chuck quickly and easily.

**MADE IN
GERMANY**



HWR – das zeichnet uns aus *HWR – what makes us stand out*

Pioniergeist und Erfahrung – Vom Konstruktionsbüro zum innovativen Mittelstandsunternehmen

Durch knapp 30 Jahre Erfahrung und den Mut, neue Wege zu gehen, entstanden die Ino®-Spannsysteme. In langjähriger, kontinuierlicher Weiterentwicklung und unter Berücksichtigung der sich verändernden Aufgabenstellungen unserer Kunden, entstand die einzigartige Ino®-Produktfamilie zum Spannen von verformungsempfindlichen Bauteilen sowie zum gleichzeitigen Spannen von runden, kubischen und geometrisch unförmigen Werkstücken.

Know-how und Technik – Innovativer Marktführer beim Spannen von verformungsempfindlichen Werkstücken

Ständig steigende Anforderungen an die Präzision in der Dreh- und Fräsbearbeitung sowie praktische Aufgabenstellungen durch unsere Kunden haben uns dazu bewegt, neue Wege beim Spannen zu gehen. Unkonventionelle Herangehensweisen und innovatives Denken führten zu effektiven und bezahlbaren Lösungen in der Spanntechnik, die Ihnen das Herstellen Ihrer Produkte vereinfachen werden.

Pioneering spirit and experience – From an engineering office to an innovative SME company

The Ino®-clamping systems are the result of almost 30 years of experience and the courage to break new ground. Years of continuous development and the consideration of the changing requirements of our customers have led to the unique Ino® product family for the clamping of deformation-sensitive parts as well as the clamping of round, cubic and geometrically irregular parts on one and the same device.

Know-how and technology – Innovative market leader for clamping deformation-sensitive workpieces

Constantly growing demands for precision in turning and milling together with practical tasks set by our customers have led us to break new ground in clamping technology. An unconventional approach and innovative mind-set resulted in effective, affordable clamping solutions to make it easier for you to manufacture your products.

HWR und LANG Technik **Seit 2003 verbindet HWR Spanntechnik und LANG Technik eine enge Partnerschaft**

Zwei Firmen – eine gemeinsame Aufgabe. Im Rahmen einer Vertriebspartnerschaft vertritt HWR seit 2003 die innovativen Spann- und Automationslösungen der LANG Technik in Nord- und Mitteldeutschland. Darüber hinaus hat sich die Prägespanntechnik nicht nur in Deutschland, sondern auch weltweit einen Namen gemacht.

HWR and LANG Technik **Since 2003 HWR Spanntechnik and LANG Technik are tied in a close partnership**

Two companies – one shared task. In the framework of a sales partnership since 2003 HWR has been the distributor for LANG Technik's innovative clamping and automation solutions in North and Central Germany. Furthermore, the stamping technique has made a name for itself.

Am Puls der Zeit – Eine Erfolgsgeschichte

At the cutting edge – HWR's success story

1989

Gründung des Konstruktionsbüros Henke

Im elterlichen Haus von Volker Henke wurden zu Anfang mechanische Vorrichtungen und kleine konstruktive Lösungen erarbeitet. Schnell wuchs die junge Firma nicht nur an ihren Aufgaben, sondern auch in der Mitarbeiterzahl und bezog größere Räumlichkeiten, um zu expandieren.

Henke Construction Office founded

In the early days mechanical equipment and small construction solutions were developed in Volker Henke's parents' house. The young company not only grew by its tasks but also by its employees and so it moved to larger premises to expand.

2003

Partnerschaft mit der Firma LANG Technik

Entwicklung des Prägespannsystems **InoGrip®** zusammen mit LANG Technik. Beginn des Vertriebs in Nord- und Mitteldeutschland für die Produkte der Firma LANG Technik. Gewinn des turntec-Award in Frankfurt auf der EuroMold.

Partnership with LANG Technik

*Development of the **InoGrip®** stamping jaw system in cooperation with LANG Technik. Commencement of sales in Northern and Central Germany for LANG Technik products. Turntec Award presented to the company in Frankfurt at EuroMold.*

2014

Erweiterung der Geschäftsführung

Henrico Viets und Matthias Meier treten in die Geschäftsführung ein.

Expansion of the management

Henrico Viets and Matthias Meier join the management.

1990

Einstieg in den Spannbacken-Vertrieb

Ende 1990 übernahm HWR die Spannbackenvertretung für ganz Deutschland von der Firma Thame Workholding. Mit der Zeit wuchs der Kundenstamm in ganz Deutschland mit Schwerpunkt in Nord- und Mitteldeutschland.

Start of the sale and distribution of clamping jaws

At the end of 1990 HWR became the nationwide German representative for Thame Workholding clamping jaws. The company's customer base grew over time throughout Germany, but specifically in Northern and Central Germany.

2009

Entwicklung und Einführung des Spannsystemes **InoZet®**

Mit **InoZet®** wird aus einem 3-Backenfutter ein ausgleichendes 6-Backenfutter. Das Spannsystem wird im Januar 2010 auf der NORTEC in Hamburg vorgestellt und gewinnt den NORTEC Award.

Development and launch of the **InoZet®** clamping system

***InoZet®** transforms a 3-jaw chuck into a compensating 6-jaw chuck. The clamping system is showcased at NORTEC in Hamburg and wins the NORTEC Award.*

2015

Umzug ins neue Firmengebäude

Das neue und größere Bürogebäude sowie vergrößerte Produktions- und Lagerfläche bieten Möglichkeiten für Produktneu- und Weiterentwicklungen

Move into the new office building

The new and bigger office building as well as larger production- and storage space offer possibilities for new product developments and enhancements.

1995

Erweiterung der Produktpalette

Sukzessiver Ausbau des Produktprogramms um Hand und Kraftspannfutter sowie Sonderkonstruktionen. Erste eigene Außendienstmitarbeiter in NRW und Hamburg.

Product range expanded

Successive expansion of the product range with manual and power chucks and customised designs. First own field sales representatives in NRW and Hamburg.

2011

Entwicklung der **InoTop®**-Hybridspannbacke

Entwicklung und Einführung des Spannsystemes **InoTop®** – eine von HWR entwickelte Hybridspannbacke, die das Bauteil von außen zentriert und von innen spannt.

Development of the **InoTop®** hybrid clamping jaw

*Development and launch of the **InoTop®** clamping system – a hybrid clamping jaw developed by HWR, which centres workpieces from the outside and clamps them from the inside.*

2016

Entwicklung der gewichtsoptimierten **InoFlex®** Baureihe VL

Die Produktpalette wurde durch die gewichtsoptimierte **InoFlex®** Varinate VL für Fräs-/Drehzentren erweitert.

Development of the weight optimised **InoFlex type VL**

*The product range was expanded by the weight optimised **InoFlex®** type VL for milling-turning centres.*

1998

Ausbau der Produktionsstätte und des Vertriebs

Kontinuierlicher Ausbau von Vertrieb, Konstruktion und Fertigung. Neubau und Erweiterung des Firmengebäudes in Oyten.

Expansion of the production facility and sales

Continuous expansion of sales, design and manufacturing. New building and expansion of the company's building in Oyten.

2013

Entwicklung des **InoFlex®**-Spannsystemes

Entwicklung und Einführung des Spannsystemes **InoFlex®** – ein von HWR entwickeltes, ausgleichendes 4-Backen Spannfutter.

Development of the **InoFlex®** clamping system

*Development and launch of the **InoFlex®** clamping system – a compensating 4-jaw chuck developed by HWR.*

Zukunft/future

Stetige Weiterentwicklung unserer Ino®-Produktfamilie

Unsere Philosophie des „Anders“-Denkens werden wir beibehalten und auch in Zukunft an der Verbesserung und Neuentwicklung unserer Produkte arbeiten, um Ihnen das wirtschaftliche Herstellen Ihrer Produkte zu ermöglichen und zu vereinfachen.

Continuous development of our Ino® product range

We will retain our philosophy of „thinking outside the box“ and continue working in future on improving and redeveloping our products to facilitate and simplify the efficient production of your products.

PATENT!



Ausgleichendes 4-Backen-Spannfutter Compensating 4-jaw chuck

Unschlagbar flexibel

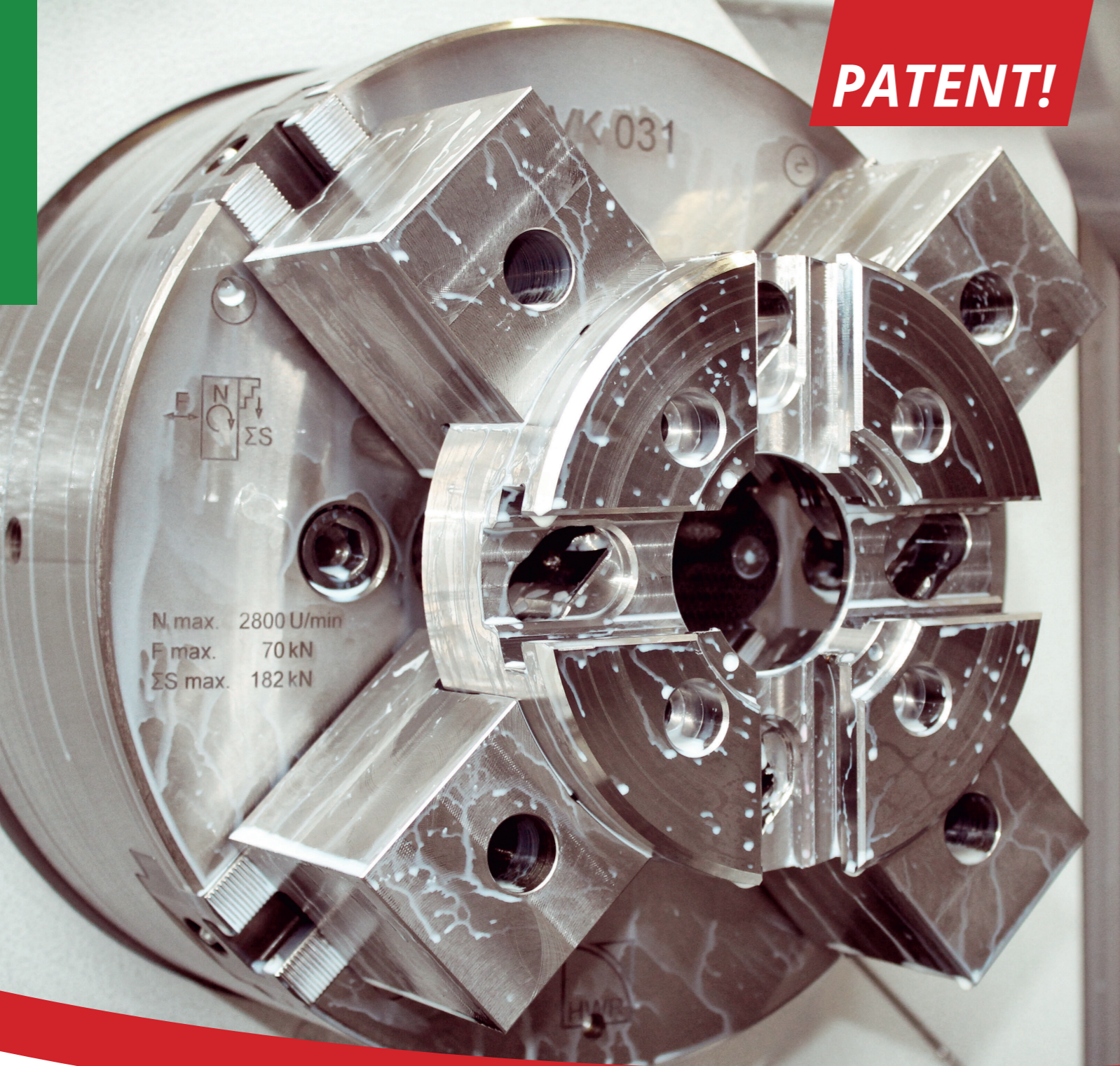
HWR hat auf die Entwicklung moderner Werkzeugmaschinen reagiert und das flexible Spannfutter InoFlex® entwickelt. Mit InoFlex® lassen sich runde, rechteckige und auch geometrisch unförmige Teile ausgleichend zentrisch spannen.

- Für zentrisch ausgleichendes Spannen
- Zum Spannen runder, kubischer und geometrisch unförmiger Teile
- Für verformungsempfindliche Werkstücke geeignet
- Einsetzbar auf allen modernen Werkzeugmaschinen
- Lieferbar als Hand- und Kraftspannung Ø 160-1200 mm

Unbeatable flexibility

HWR has responded to the development of modern machine tools and developed the flexible InoFlex® chuck. InoFlex® permits compensating concentric clamping of round, rectangular and also geometrically irregular parts.

- For concentric compensating clamping
- For clamping round, cubic and geometrically irregular parts
- Suitable for deformation sensitive workpieces
- Can be used on any modern machine tool
- Available as manual and power chuck Ø 160-1200 mm



Im Bereich Ø 160-1200 mm vereint InoFlex® die Vorteile und Funktionen vom 2-, 3-, 4-Backenfutter und Schraubstock und vermeidet dabei, durch den patentierten Ausgleich, die Nachteile wie z.B. Überbestimmtheit.

With ranges from 160-1200 mm Ø InoFlex® combines the advantages of the 2-, 3- and 4-jaw chuck and vice and through its patented compensation feature it avoids disadvantages such as oversteering of the workpiece.



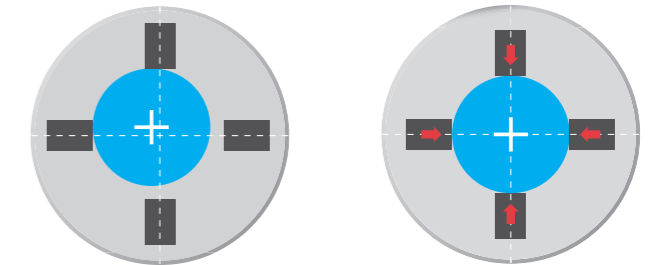
Flexibler Allrounder Flexible all-rounder

Das Funktionsprinzip

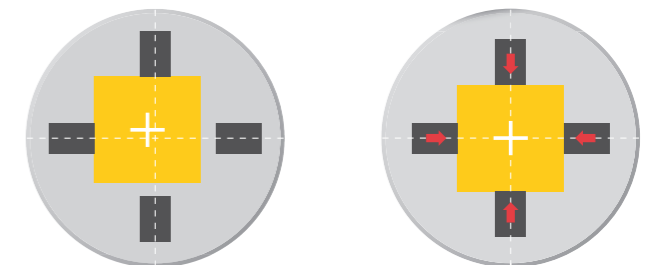
In einem herkömmlichen Spannfutter bewegen sich alle Bauteile, die für den Antrieb zuständig sind, in gleicher Richtung um das Zentrum (z.B. Keilstange, Keilhaken, Planspirale), auf das Zentrum zu oder vom Zentrum weg. Im Antrieb des InoFlex®-4-Backen-Futters (zentrisch ausgleichend) bewegt sich der Antrieb auf zwei parallel angeordneten Achsen aufeinander zu bzw. voneinander weg. Der Ausgleich wird ermöglicht, indem die jeweils diametral angeordneten Schlitzen über Hebel bzw. über ein verschiebbares Kulissengetriebe miteinander verbunden sind.

How it works

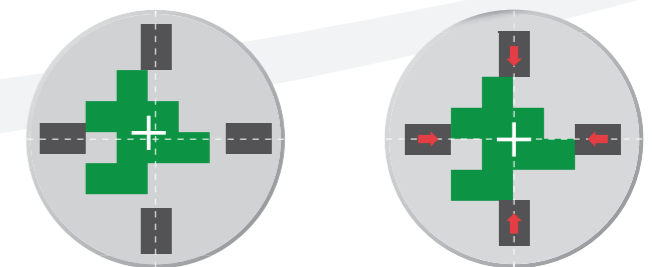
In a conventional chuck, all drive parts move in the same direction around the centre (e.g. wedge bar, wedge hook, scroll) either towards or away from the centre. The drive of the InoFlex® 4-jaw chuck (concentric compensation) moves towards or apart on two parallel axes. Compensation is provided by connecting the diametrically opposed slides with levers or a sliding gate-type gear.



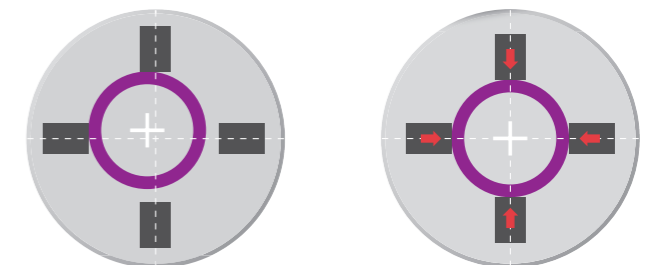
Zentrisch ausgleichende Spannung von runden Teilen
Concentric compensating clamping of round parts



Zentrisch ausgleichende Spannung von kubischen Teilen
Concentric compensating clamping of cubic parts



Zentrisch ausgleichende Spannung von geometrisch unförmigen Teilen
Concentric compensating clamping of geometrically irregular shaped parts



Verformungsarmes zentrisches, ausgleichendes Spannen von dünnwandigen Bauteilen
Concentric compensating clamping of thin-walled parts



VT

Kraftspannfutter mit Durchgang
through hole power chuck



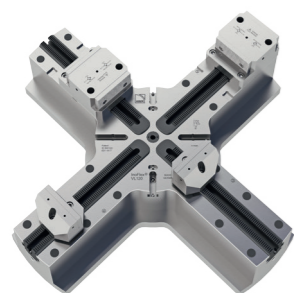
VK

Kraftspannfutter ohne Durchgang
closed center power chuck



VD

Handspannfutter ohne Durchgang
closed center manual chuck



NEU

VL

gewichtserleichtertes Handspannfutter
weight reduced manual chuck



NEU

VF

ausgleichender 4-Backen Zentrierspanner
compensating 4-jaw vice

InoFlex® VT

4-Backen-Kraftspannfutter mit Durchgang 4-jaw through hole power chuck

Anwendung:

- Spannung von runden Bauteilen
- Spannung von quadratischen und rechteckigen Bauteilen
- Spannung von geometrisch unregelmäßigen Bauteilen
- Für verformungsempfindliche Bauteile
- Hohl- und Teilhohlspannung möglich

Technische Merkmale:

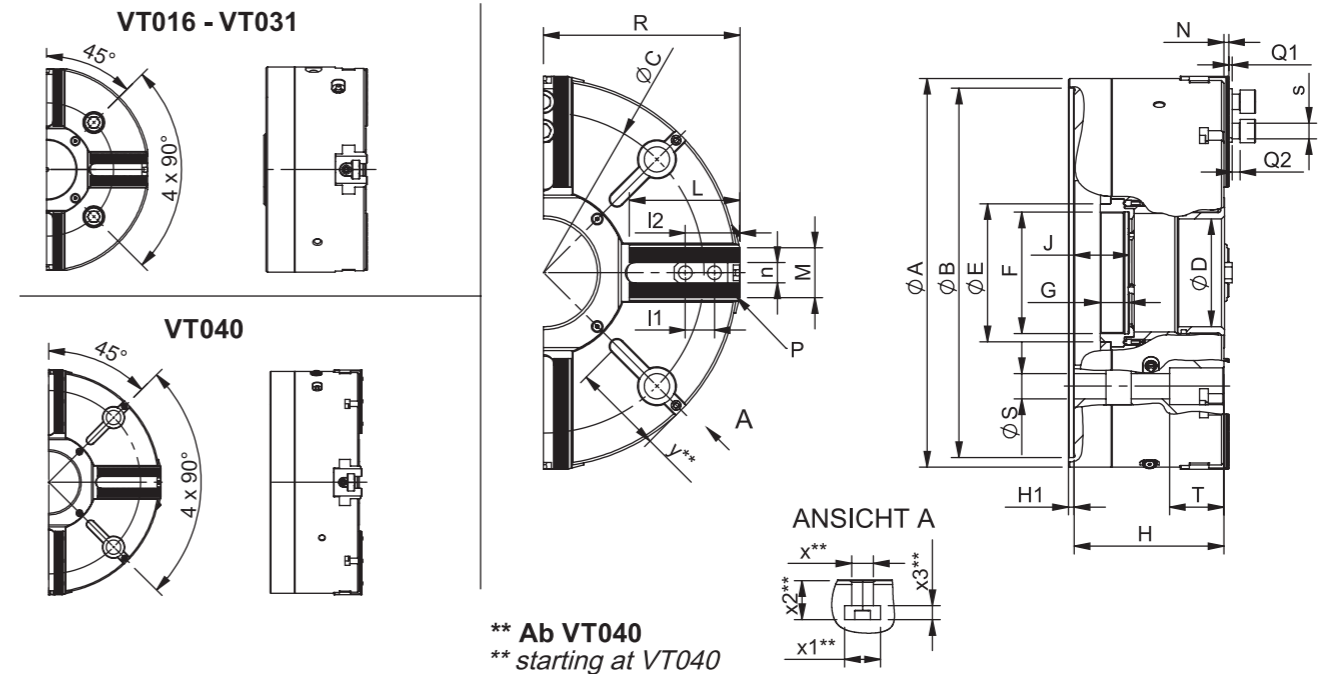
- zentrisches ausgleichendes Spannen

Application:

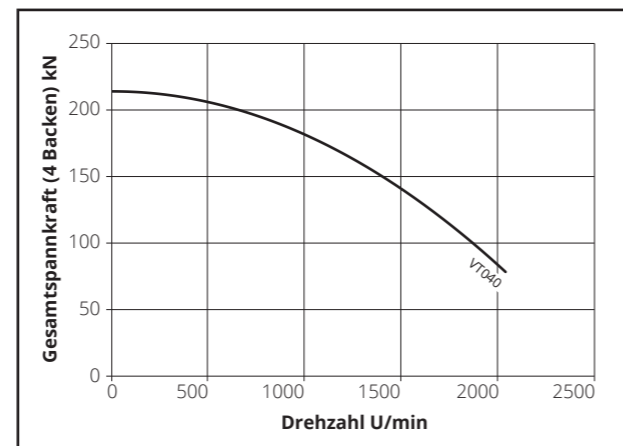
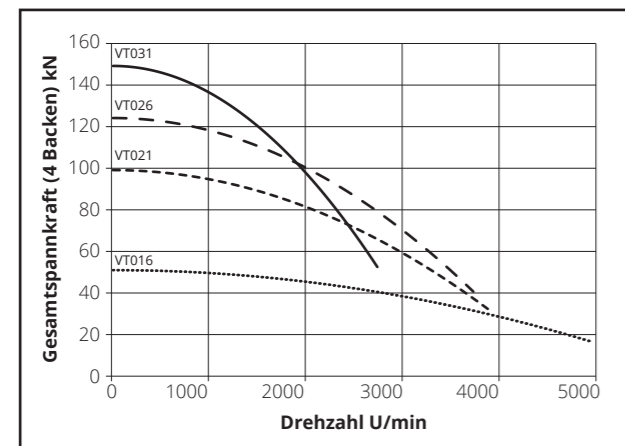
- clamping of round parts
- clamping of square/rectangular parts
- clamping of irregular parts
- for deformation sensitive parts
- For open center or partial open center clamping

Technical features:

- compensating concentric clamping



Spannkraft-/Drehzahl-Diagramm clamping force – speed diagram



Technische Daten technical data		VT016	VT021	VT026	VT031	VT040	VT050	VT063
Ident-Nr.		845016	845021	845026	845031	845040	845050	845063
Durchmesser diameter	mm	168	212	264	315	400		
Durchgang through-hole	mm	46	52	72	91	111		
Hub pro Backe radial jaw stroke	mm	3,3	4,3	5	5,5	6,2		
Ausgleichshub pro Backe compensation stroke per jaw	mm	2,3	3,3	4	4,5	4,5		
Kolbenhub axial piston stroke	mm	15	19	22	24	27		
max. Betätigungskraft max. draw pull	kN	20	40	50	60	85		
max. Spannkraft max. gripping force	kN	52	100	125	150	210		
max. Drehzahl max. speed	1/min r.p.m	5000	3900	3750	2800	2100		
Masse (ohne Backen) weight (without top jaws)	kg	13	25,5	43	66	124		
Massenträgheitsmoment moment of inertia	kg·m ²	0,05	0,18	0,42	0,93	2,66		
Standard Nutenstein standard t-nut	-	GP05	GP07	GP11	GP11	GP13		
Standard weiche Aufsatzbacke standard soft jaw	-	VS11	VS12	VS17	VS17	VS21		
Standard harte umkehrbare Aufsatzbacke standard hard reversible top jaw	-	VU210	VU212	VU216	VU216	VU221		

Anschlussmaße mounting dimensions		VT016	VT021	VT026	VT031	VT040	VT050	VT063
A	mm	168	212	264	315	400		
B H6	mm	140	170	220	300	380		
C	mm	104,8	133,4	171,4	235	330,2		
D	mm	46	52	72	91	111		
E	mm	--	66	92	112	142		
F	mm	M56x1,5*	M60x2	M85x2	M100x2	M 125x2		
G	mm	18	20	20	24	30		
H	mm	84,6	109,2	125	134	154		
H1	mm	5	5	5	5	6		
min. / max.	J	18 / 33	17 / 36	10 / 32	16 / 40	29,6 / 56,6		
L	mm	45	58,5	73,5	88,5	114		
M	mm	32	34	40	40	51,4		
N	mm	1,5	2	2	2	5		
Verzahnung serration	P	1,5 x 60°	1,5 x 60°	1,5 x 60°	1,5 x 60°	1,5 x 60°		
Q1	mm	2,5	3	3	3	3,5		
Q2	mm	10,5	11,5	11,5	11,5	11,5		
Futter geöffnet chuck open	R	84,9	106,2	134,1	160	202,2		
S	mm	10,5	12,5	16,5	22	26		
T	mm	18,6	17,2	26	23	56		
I1	mm	18	20	30	30	30		
min. / max.	I2	22 / 39,5	25 / 47	35,5 / 58	35,5 / 73	40 / 100		
n H8	mm	10	12	16	16	21		
s	mm	M8x22	M10x25	M12x30	M12x30	M16x35		
x H12	mm	--	--	--	--	14		
x1	mm	--	--	--	--	23		
x2	mm	--	--	--	--	25		
x3	mm	--	--	--	--	9		
y	mm	--	--	--	--	93		

InoFlex® VK

4-Backen-Kraftspannfutter ohne Durchgang 4-jaw closed center power chuck

Anwendung:

- Spannung von runden Bauteilen
- Spannung von quadratischen und rechteckigen Bauteilen
- Spannung von geometrisch unregelmäßigen Bauteilen
- Für verformungsempfindliche Bauteile

Application:

- clamping of round parts
- clamping of square/rectangular parts
- clamping of irregular parts
- for deformation sensitive parts

Technical features:

- compensating concentric clamping

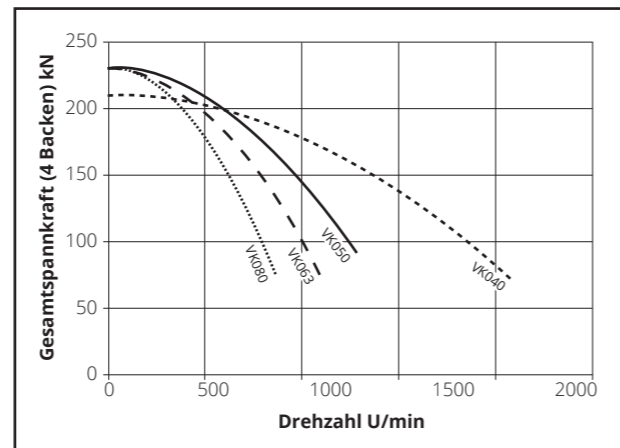
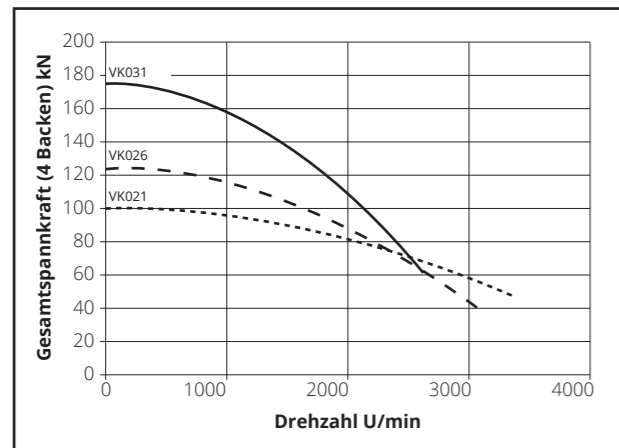


Technische Merkmale:

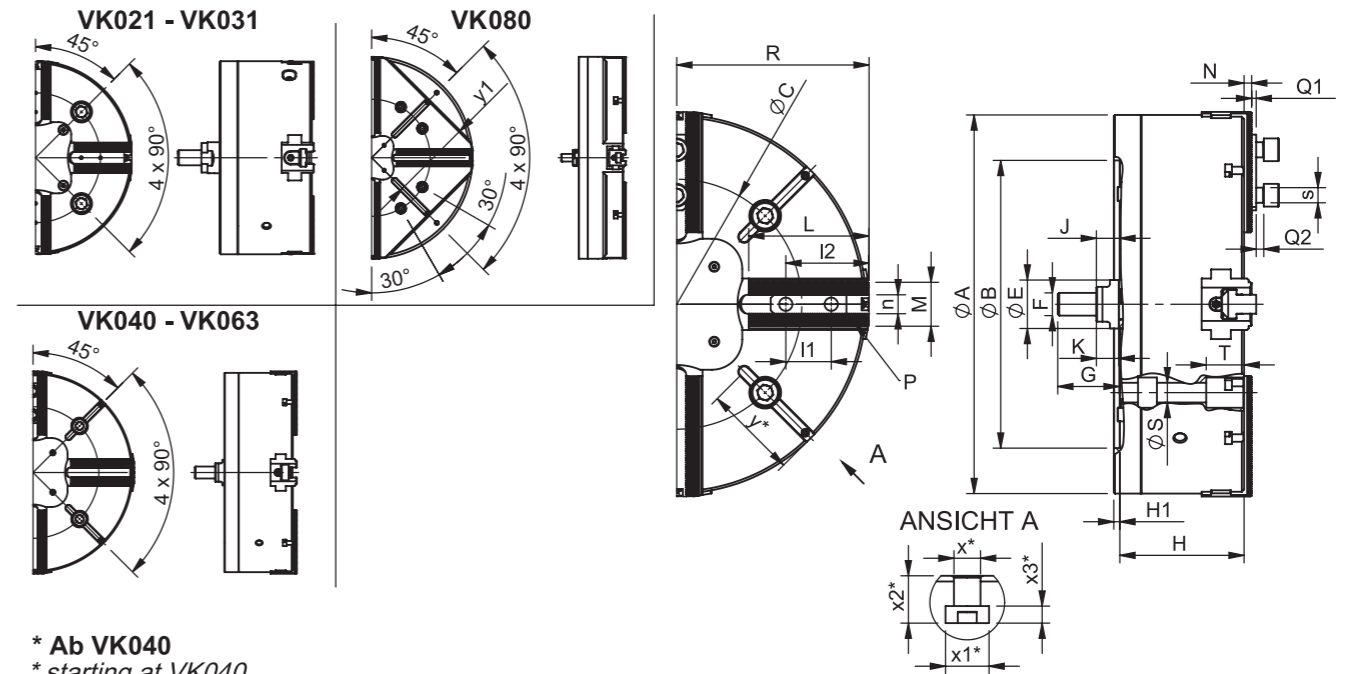
- zentrisches ausgleichendes Spannen

Spannkraft-/Drehzahl-Diagramm

clamping force – speed diagram



Technische Daten technical data		VK021	VK026	VK031	VK040	VK050	VK063	VK080
Ident-Nr.		843021	843026	843031	843040	843050	843063	843080
Durchmesser diameter	mm	212	255	315	400	500	630	800
Hub pro Backe radial jaw stroke	mm	4,3	4,6	4,8	5,4	8	9,2	9,2
Ausgleichshub pro Backe compensation stroke per jaw	mm	3,3	3,6	3,6	3,6	6,3	7,5	7,5
Kolbenhub axial piston stroke	mm	19	23	24	27	35	40	40
max. Betätigungskraft max. draw pull	kN	40	50	70	85	90	90	90
max. Spannkraft max. gripping force	kN	105	130	182	220	230	230	230
max. Drehzahl max. speed	1/min r.p.m	4000	3200	2800	2100	1300	1100	900
Masse (ohne Backen) weight (without top jaws)	kg	25	41,7	68,5	120	221	350	542
Massenträgheitsmoment moment of inertia	kg·m ²	0,15	0,36	0,88	2,5	7,2	17,7	42,25
Standard Nutenstein standard t-nut	-	GP07	GP11	GP11	GP13	GP21	GP21	GP21
Standard weiche Aufsatzbacke standard soft jaw	-	VS12	VS16	VS16	VS21	VS25	VS25	VS25
Standard harte Greiferbacke standard hard gripper jaw	-	VG12	VG16	VG16	VG21	VG25	VG25	VG25



* Ab VK040
* starting at VK040

Anschlussmaße mounting dimensions		VK021	VK026	VK031	VK040	VK050	VK063	VK080
A	mm	212	255	315	400	500	630	800
B H6	mm	170	220	220	300	380	380	520
C	mm	133,4	171,4	171,4	235	330,2	330,2	463,6
F	mm	M16x120	M20x140	M24x160	M24x160	M30x200	M30x200	M30x200
G	mm	55	59	63	64,5	81	76	77
H	mm	100	122	127	134	164	169	169
H1	mm	5	5	5	5	8	8	8
min. / max.	J	26 / 45	29 / 52	29 / 53	29 / 56	31 / 66	31 / 71	31 / 71
K	mm	25	28	28	28	30	30	30
L	mm	62,6	76,1	103,1	133,5	153	216	300
M	mm	34	40	46	50	58	58	58
N	mm	2	2,5	3	3	10	10	10
Verzahnung serration	P	1,5x60°	1,5x60°	1,5x60°	1,5x60°	3x60°	3x60°	3x60°
Q1	mm	3	3	3	3,5	6	6	6
Q2	mm	11,5	11,5	11,5	11,5	16,5	16,5	16,5
Futter geöffnet chuck open	R	107,7	127	159,5	203,8	248,9	315,3	398,5
S	mm	13,5	17,5	17,5	22	26	26	26
T	mm	17	18	18	53	50	65	24,2
I1	mm	20	30	30	30	60	60	60
min. / max.	I2	28 / 55,5	40 / 66	40 / 94,5	45 / 125,5	69 / 138	80 / 196	80 / 285
n H8	mm	12	16	16	21	25	25	25
s	mm	M10x25	M12x30	M12x30	M16x35	M20x55	M20x55	M20x55
x H12	mm	--	--	--	14	14	22	22
x1	mm	--	--	--	23	23	40	40
x2	mm	--	--	--	25	25	38	38
x3	mm	--	--	--	9	9	16	16
y	mm	--	--	--	82,5	124	186	191

InoFlex® VD

4-Backen-Handspannfutter ohne Durchgang 4-jaw closed center manual chuck



Anwendung:

- Spannung von runden Bauteilen
- Spannung von quadratischen und rechteckigen Bauteilen
- Spannung von geometrisch unregelmäßigen Bauteilen
- Für verformungsempfindliche Bauteile

Application:

- clamping of round parts
- clamping of square/rectangular parts
- clamping of irregular parts
- for deformation sensitive parts

Technical features:

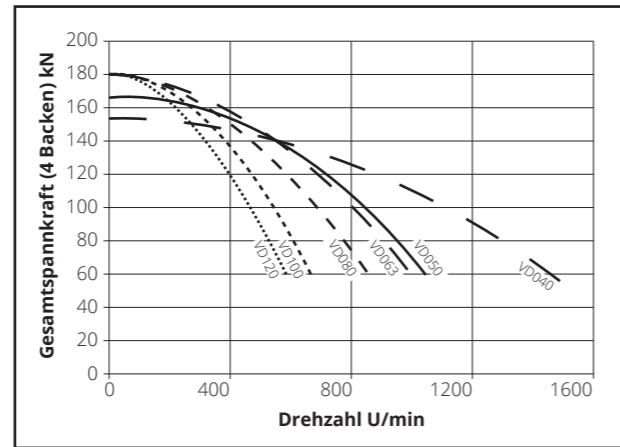
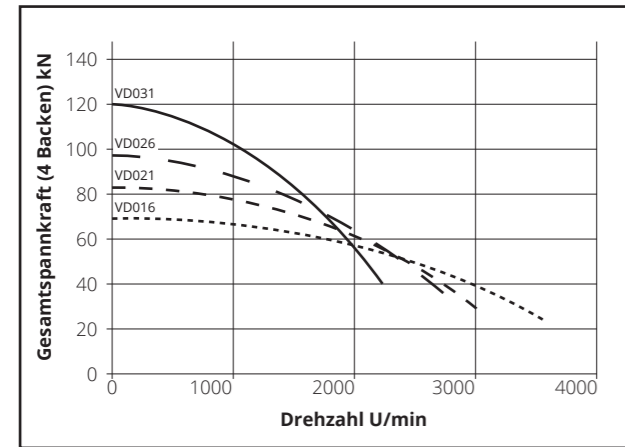
- compensating concentric clamping
- jaw travel control

Technische Merkmale:

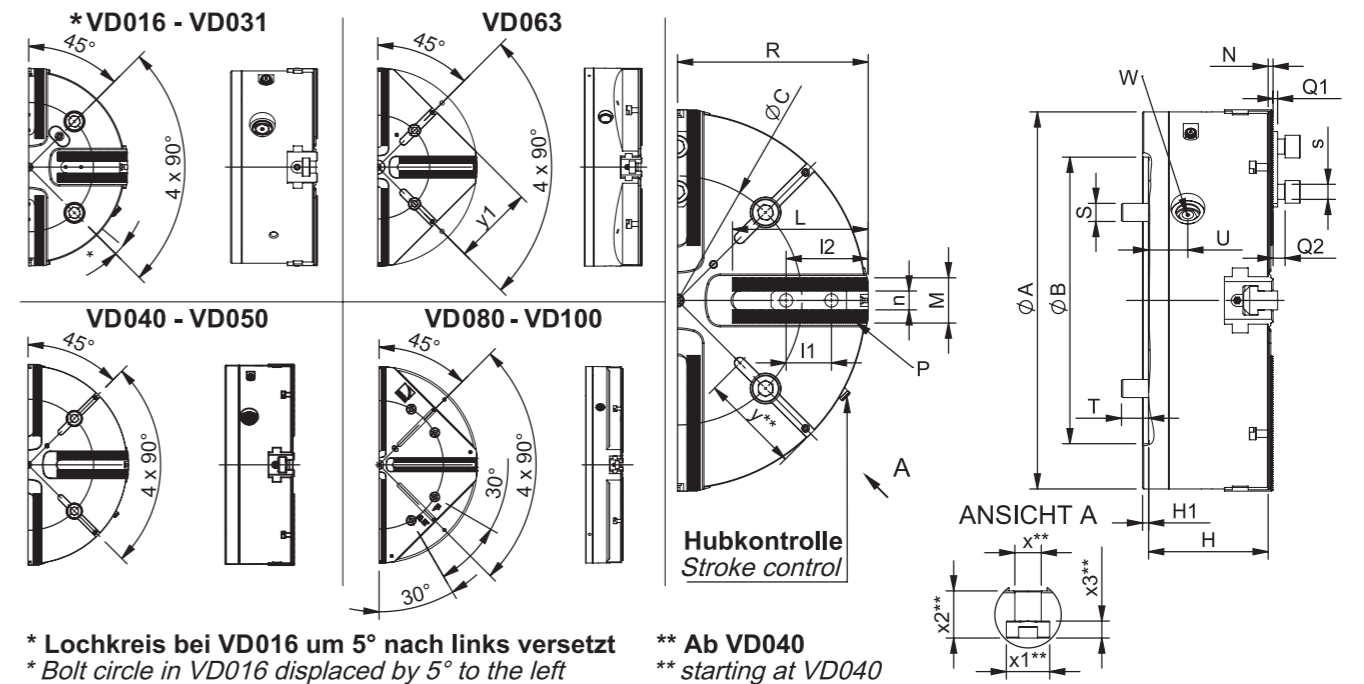
- zentrisches ausgleichendes Spannen
- Spannhubkontrolle

Spannkraft-/Drehzahl-Diagramm

clamping force – speed diagram



Technische Daten technical data		VD016	VD021	VD026	VD031	VD040	VD050	VD063	VD080	VD100	VD120
Ident-Nr.		841016	841021	841026	841031	841040	841050	841063	841080	841100	841120
Durchmesser diameter	mm	165	210	255	315	400	500	630	800	990	1150
Hub pro Backe radial jaw stroke	mm	4,3	5,2	5,2	6,1	6,9	8,7	11,3	11,3	11,3	11,3
Ausgleichshub pro Backe compensation stroke per jaw	mm	2,5	3,5	3,5	4	4,5	6,1	8	8	8	8
max. Anzugsmoment max. tightening torque	Nm	70	120	160	200	270	300	320	320	320	320
max. Spannkraft max. gripping force	kN	70	85	100	125	155	168	180	180	180	180
max. Drehzahl max. speed	1/min r.p.m.	3500	3000	2700	2200	1500	1100	950	800	650	600
Masse (ohne Backen) weight (without top jaws)	kg	12	22	39	75	127	226	340	545	720	1100
Massenträgheitsmoment moment of inertia	kg·m ²	0,04	0,12	0,32	0,97	2,63	7,39	16,9	24,5	84,5	176,4
Standard Nutenstein standard t-nut	-	GP05	GP07	GP11	GP11	GP13	GP21	GP21	GP21	GP21	GP21
Standard weiche Aufsatzbacke standard soft jaw	-	VS10	VS12	VS16	VS16	VS21	VS25	VS25	VS25	VS25	VS25
Standard harte Greiferbacke standard hard gripper jaw	-	VG10	VG12	VG16	VG16	VG21	VG25	VG25	VG25	VG25	VG25



* Lochkreis bei VD016 um 5° nach links versetzt
* Bolt circle in VD016 displaced by 5° to the left

** Ab VD040
** starting at VD040

Anschlussmaße mounting dimensions	VD016	VD021	VD026	VD031	VD040	VD050	VD063	VD080	VD100	VD120	
A mm	165	210	255	315	400	500	630	800	990	1150	
B H6 mm	140	170	220	220	300	380	380	520	720	720	
C mm	104,8	133,4	171,4	171,4	235	330,2	330,2	463,6	647,6	647,6	
H mm	76	85	105	130	136,5	158,5	163,5	163,5	169,5	169,7	
H1 mm	5	5	5	5	5	8	8	8	8	8	
L mm	60	78	93	111	141	180	246	315	420	498	
M mm	31	35,5	40	40	50	60	60	60	60	60	
N mm	5	5	5	5	6,5	6,5	10,5	10,5	10,5	10,3	
Verzahnung serration	P mm	1,5x60°	1,5x60°	1,5x60°	1,5x60°	3x60°	3x60°	3x60°	3x60°	3x60°	
Q1 mm	2,5	3	3	3	3,5	6	6	6	6	6	
Q2 mm	10,5	11,5	11,5	11,5	11,5	16,4	16,4	16,4	16,4	17,4	
Futter geöffnet chuck open	R mm	84,8	107,9	130,7	161,1	201,9	252,8	319,3	399,3	494,3	574,3
S mm	M10x80 4x	M12x90 4x	M16x110 4x	M16x130 4x	M20x110 4x	M24x140 4x	M24x130 4x	M24x180 7x	M30x120 7x	M30x180 7x	
T mm	16	17,6	21,6	22,6	30	36	34,4	41,5	41,5	41,5	
U mm	28	32	37	50	53	52	59	59	59	65	
Schlüsselweite wrench width	W SW	12	12	17	17	21	21	21	21	21	
I1 mm	18	20	30	30	30	60	60	60	60	60	
min. / max. I2 mm	25 / 52	28 / 68	41 / 60	41 / 97	43 / 122	70 / 150	80 / 228	80 / 295	80 / 395	80 / 476	
n H8 mm	10	12	16	16	21	25	25	25	25	25	
s mm	M8x25	M10x25	M12x30	M12x30	M16x35	M20x55	M20x55	M20x55	M20x55	M20x55	
x H12 mm	--	--	--	--	14	14	22	22	22	22	
x1 mm	--	--	--	--	23	23	40	40	40	40	
x2 mm	--	--	--	--	25	25	38	38	38	38	
x3 mm	--	--	--	--	9	9	16	16	16	16	
y mm	--	--	--	--	118	133	200	285	245	290	

InoFlex® VL

4-Backen Handspannfutter gewichtserleichtert 4-jaw weight reduced manual chuck

Anwendung:

- Spannung von runden Bauteilen
- Spannung von quadratischen und rechteckigen Bauteilen
- Spannung von geometrisch unregelmäßigen Bauteilen
- Für den Einsatz auf Fräs-/Drehzentren

Application:

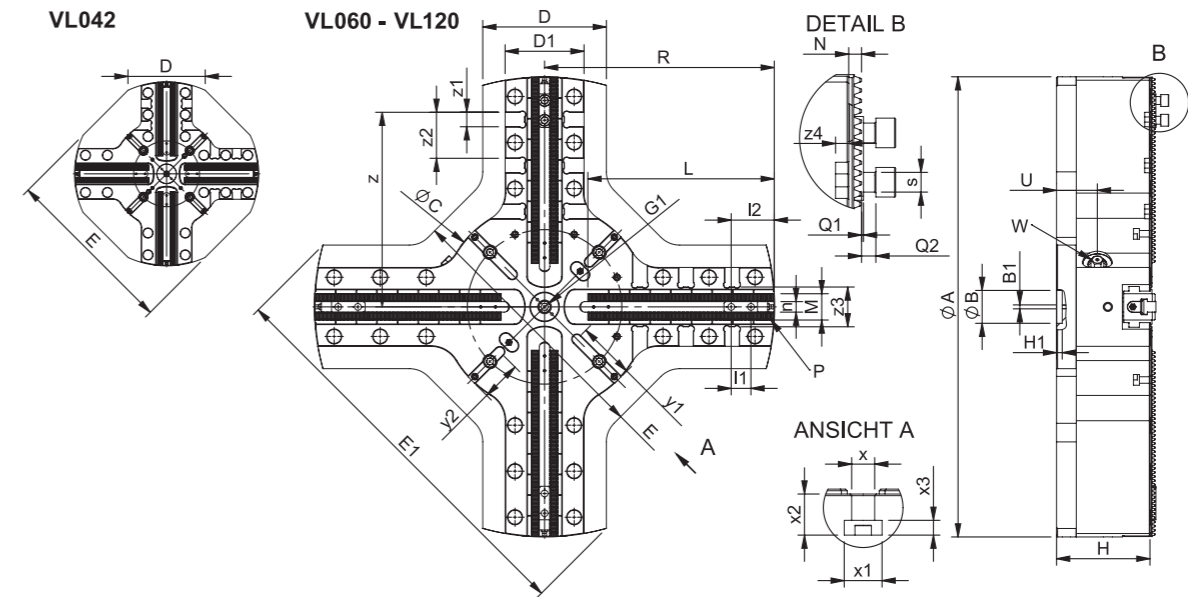
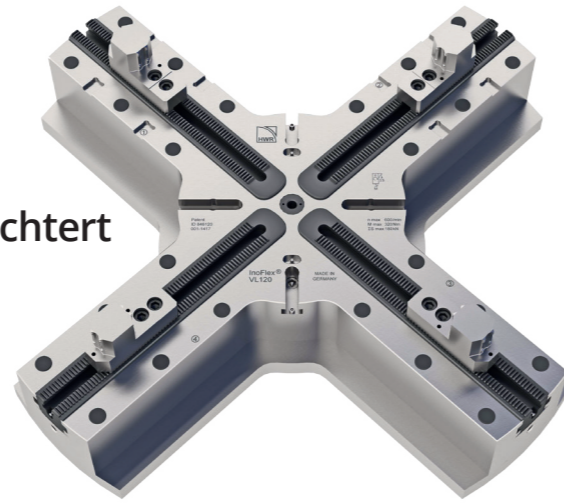
- clamping of round parts
- clamping of square/rectangular parts
- clamping of irregular parts
- For milling/tuning centers

Technische Merkmale:

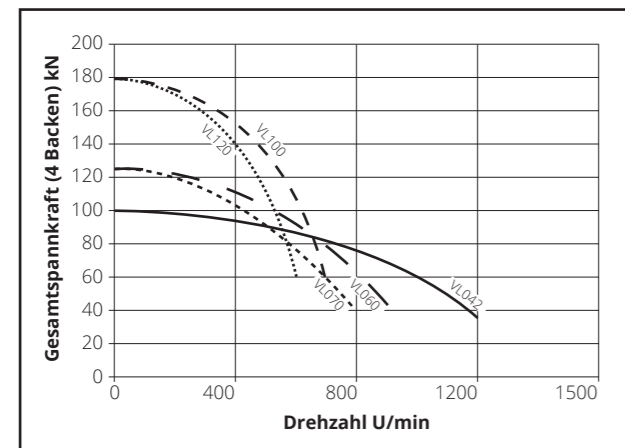
- zentrisches ausgleichendes Spannen
- gewichtserleichtert

Technical features:

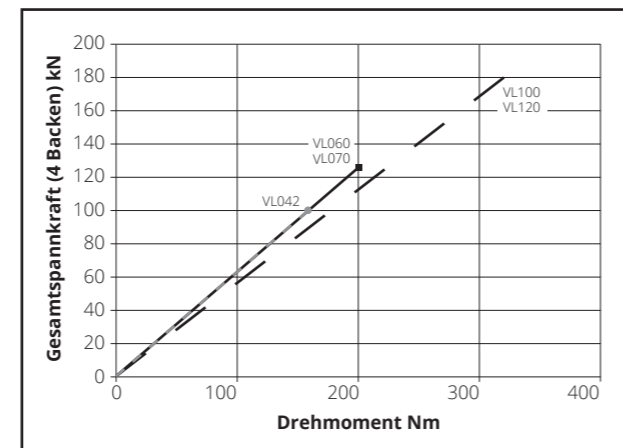
- compensating concentric clamping
- weight reduced



Spannkraft-/Drehzahl-Diagramm clamping force - speed diagram



Spannkraft-/Drehmoment-Diagramm clamping force - torque diagram

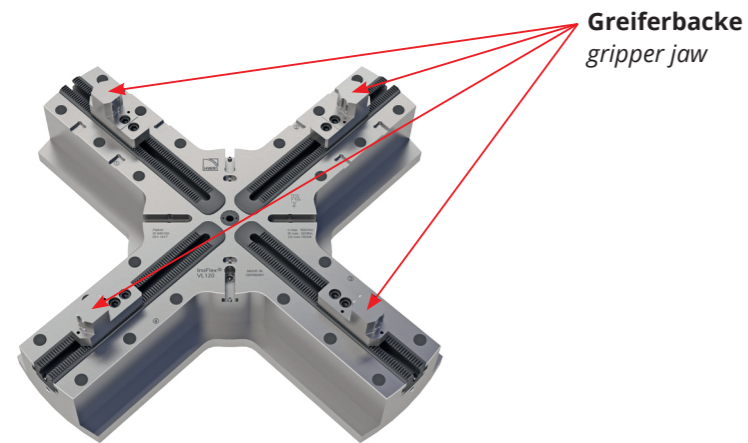


Technische Daten technical data		VL042	VL060	VL070	VL100	VL120
Ident-Nr.		846042	846060	846070	846100	846120
Durchmesser diameter	mm	420	600	700	990	1150
Hub pro Backe radial jaw stroke	mm	5,2	11,1	11,1	11,3	11,3
Ausgleichshub pro Backe compensation stroke per jaw	mm	3,5	9,1	9,1	9,3	9,3
max. Anzugsmoment max. tightening torque	Nm	160	200	200	320	320
max. Spannkraft max. gripping force	kN	100	125	125	180	180
max. Drehzahl max. speed	1/min r.p.m.	1200	900	800	700	600
Masse (ohne Backen) weight (without top jaws)	kg	85	160	185	472	560
Massenträgheitsmoment moment of inertia	kg·m ²	1,6	5,5	8,1	43,4	67,8
Standard Nutenstein standard t-nut	-	GP11	GP11	GP11	GP13	GP13
Standard weiche Aufsatzbacke standard soft jaw	-	VS16	VP16	VP16	VP21	VP21
Standard harte Greiferbacke standard hard gripper jaw	-	VG16	VR16	VR16	VR21	VR21

Anschlussmaße mounting dimensions		VL042	VL060	VL070	VL100	VL120
A	mm	420	600	700	990	1150
B G7	mm	50	50	50	50	50
B1	mm	M6, 7,4 tief	M6, 6,2 tief	M6, 6,2 tief	M6, 12 tief	M6, 12 tief
C	mm	250	315	315	410	410
D	mm	176	188	188	283	283
D1	mm	116	120	120	183	183
E	mm	394,1	400	400	500	500
E1	mm	-	540	610	871	989
G1	mm	M12, 20 tief	M20, 22 tief	M20, 22 tief	M20, 22 tief	M20, 22 tief
H	mm	121	142	142	176,5	176,5
H1	mm	8,6	8,6	8,6	8,6	8,6
L	mm	168	233	284	415	490,8
M	mm	40	40	40	55	55
N	mm	5	7,8	7,8	9,8	9,8
P	mm	1,5 x 60°	Modul 2	Modul 2	Modul 2	Modul 2
Q1	mm	3	1,2	1,2	2,5	2,5
Q2	mm	11,4	10	10	10	10
Futter geöffnet chuck open	R SW	209,1	299,4	349,4	494,3	574,3
U	mm	53	62	62	78	78
Schlüsselweite wrench width	W mm	17	17	17	21	21
I1	mm	30	30	30	30	30
I2	mm	41 / 148	41 / 225	41 / 279	43 / 406	43 / 482
n H8	mm	16	16	16	21	21
s	mm	M12 x 30	M12 x 30	M12 x 30	M16 x 35	M16 x 35
x H12	mm	14	14	14	22	22
x1	mm	23	23	23	37	37
x2	mm	25	25	25	38	38
x3	mm	9	9	9	16	16
y1	mm	40	88	88	105	105
y2	mm	40	68	68	63	63
z	mm	170	246	265	390,75	465,75
z1 G7	mm	20	20	20	24	24
z2	mm	50	50	50, 2x	142,5	142,5
z3	mm	60	60,5	60,5	118,5	118,5
z4	mm	6	6	6	8	8
Anbindung Connection		Maschinenspezifisches Befestigungsbohrbild nach Kundenvorgabe Machine specific bore pattern as per customer request				

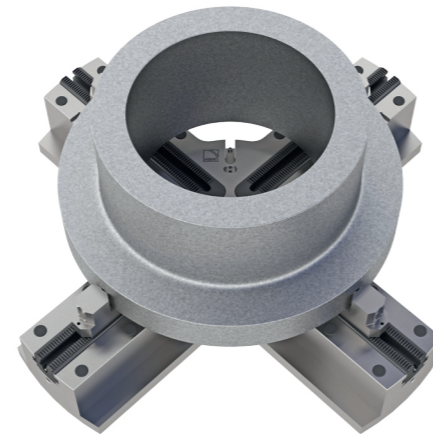
InoFlex® VL

Futterspannung: 4 Standard Greiferbacken
 Chuck clamping: 4 standard gripper jaws



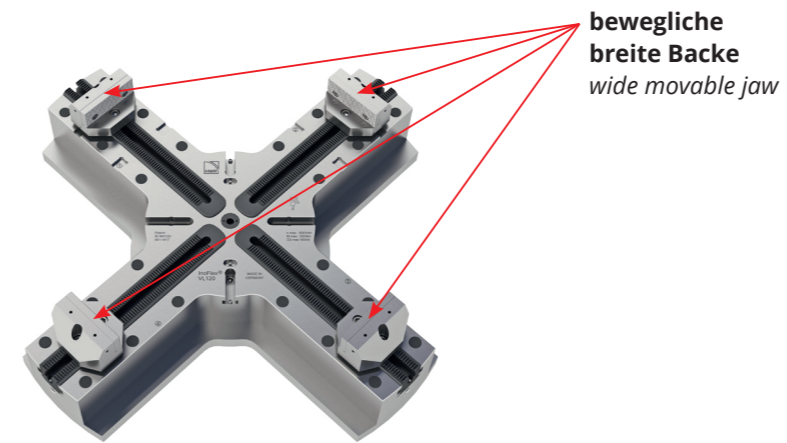
ohne Bauteil
 without workpiece

Spannen eines runden Bauteils mit vier Standard Greiferbacken
 Clamping of a round workpiece with four standard gripper jaws



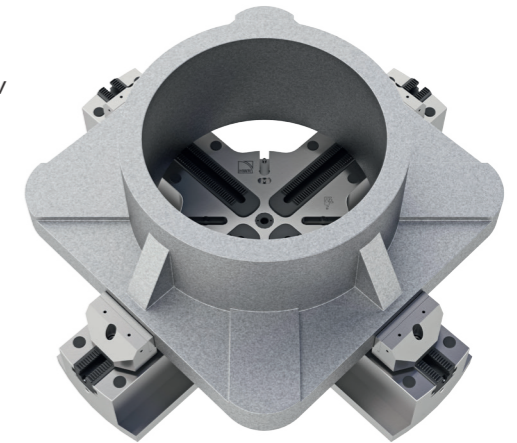
mit Bauteil
 with workpiece

Futterspannung: 4 bewegliche breite Backen
 Chuck clamping: 4 wide movable jaws



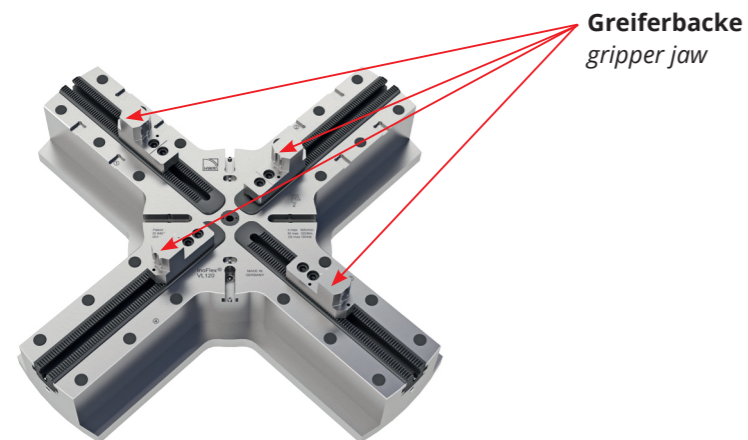
ohne Bauteil
 without workpiece

Spannen eines rechteckigen Bauteils mit vier beweglichen breiten Backen
 Clamping of a rectangular workpiece with four wide movable jaws



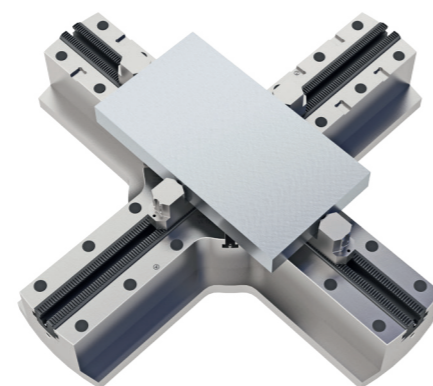
mit Bauteil
 with workpiece

Zentrisch ausgleichende-8-Punktspannung mit InoZet Pendelbrücken
 Concentric compensating 8-point clamping with InoZet pendulum bridges

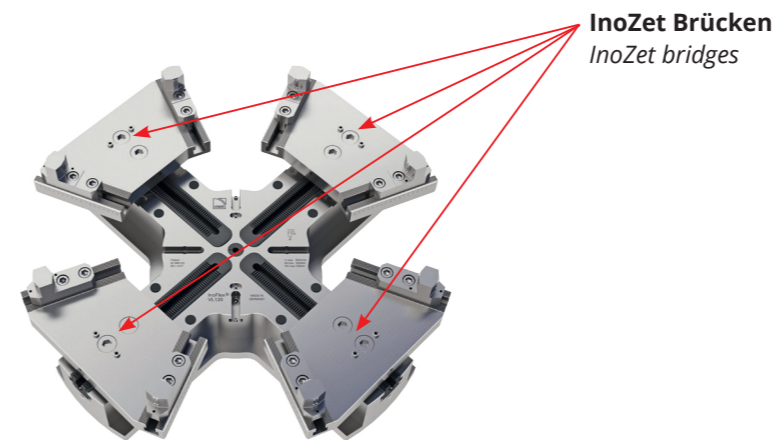


ohne Bauteil
 without workpiece

Spannen eines rechteckigen Bauteils mit vier Standard Greiferbacken
 Clamping of a rectangular workpiece with four standard gripper jaws

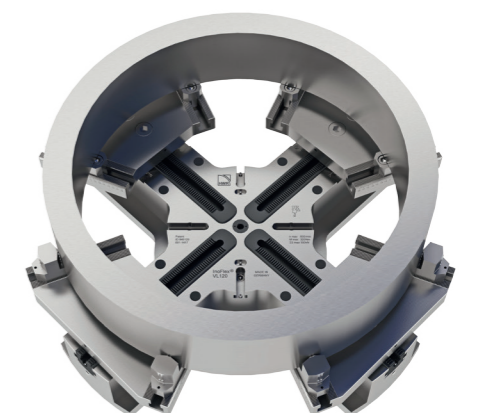


mit Bauteil
 with workpiece



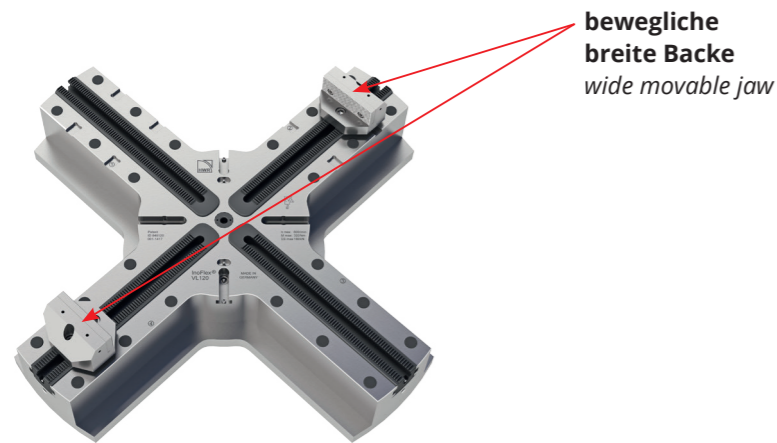
ohne Bauteil
 without workpiece

Zentrisch ausgleichende 8-Punkt Spannung für besonders verformungsempfindliche Bauteile
 Concentric compensating 8-point clamping for highly deformation sensitive workpieces



mit Bauteil
 with workpiece

Zentrierspannung: 2 bewegliche breite Backen
 Concentric clamping: 2 wide movable jaws



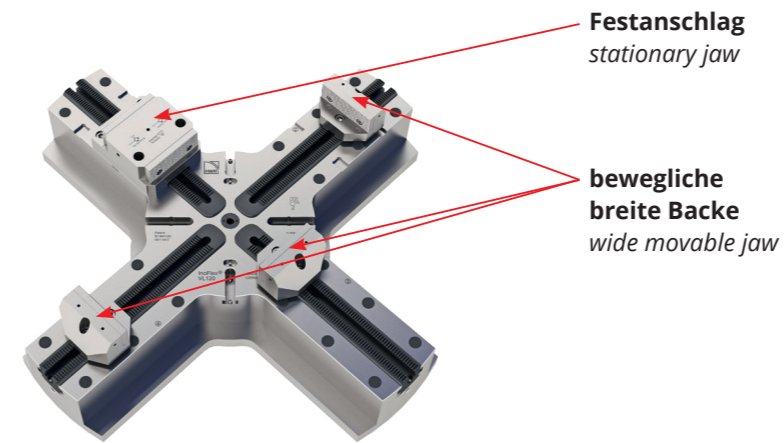
ohne Bauteil
 without workpiece



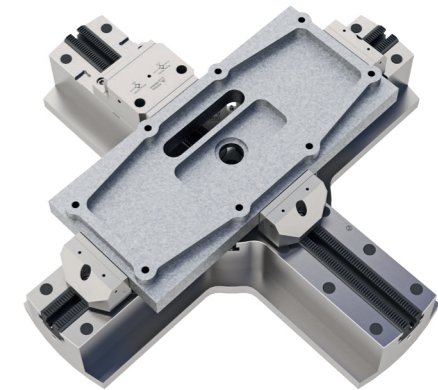
mit Bauteil
 with workpiece

Spannen eines rechteckigen Bauteils mit zwei beweglichen breiten Backen
 Clamping of a rectangular workpiece with two wide movable jaws

Schraubstockspannung: 1 Festanschlagbacke, 3 bewegliche breite Backen
 Vice clamping: 1 stationary jaw, 3 wide movable jaws



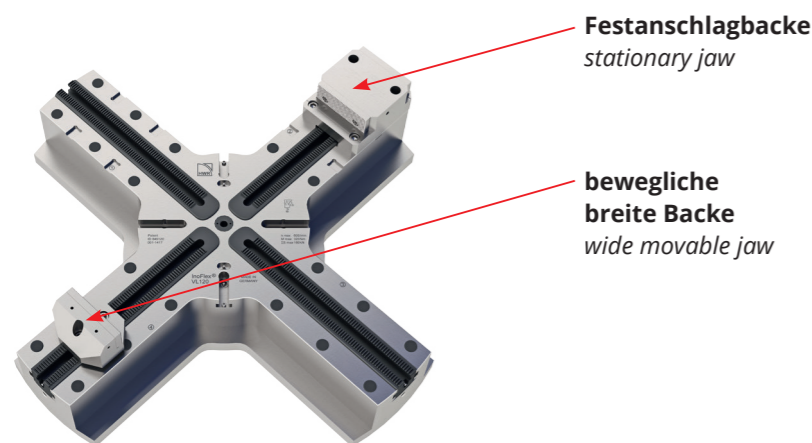
ohne Bauteil
 without workpiece



mit Bauteil
 with workpiece

Spannen eines rechteckigen Bauteils mittels eines Festanschlags und drei beweglichen breiten Backen
 Clamping of a rectangular workpiece with one stationary jaw and three wide movable jaws

Schraubstockspannung: 1 Festanschlagbacke, 1 bewegliche breite Backe
 Vice clamping: 1 stationary jaw, 1 wide movable jaw



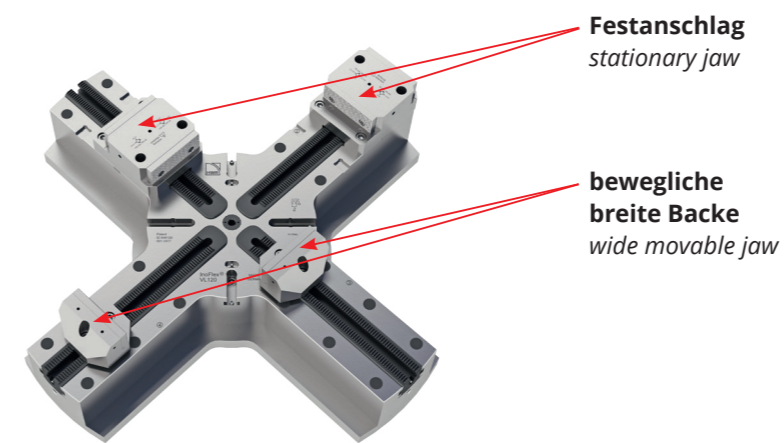
ohne Bauteil
 without workpiece



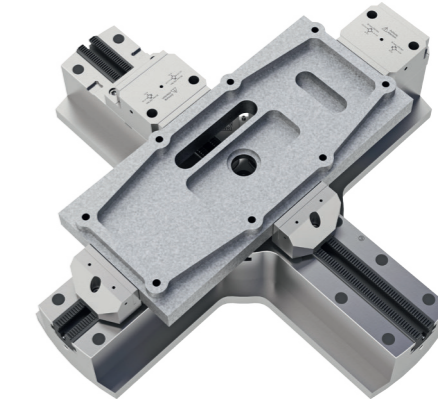
mit Bauteil
 with workpiece

Spannen eines rechteckigen Bauteils mittels eines Festanschlags und einer beweglichen breiten Backe
 Clamping of a rectangular workpiece with one stationary jaw and one wide movable jaw

Schraubstockspannung: 2 Festanschlagbacken, 2 bewegliche breite Backen
 Vice clamping: 2 stationary jaws, 2 wide movable jaws



ohne Bauteil
 without workpiece



mit Bauteil
 with workpiece

Spannen eines rechteckigen Bauteils mit zwei Festanschlägen und zwei beweglichen breiten Backen
 Clamping of a rectangular workpiece with two stationary jaws and two wide movable jaws

InoFlex® VF

Ausgleichender 4-Backen Zentrierspanner Compensating concentric 4-jaw vice

Anwendung:

- Spannung von runden Bauteilen
- Spannung von quadratischen und rechteckigen Bauteilen
- Spannung von geometrisch unregelmäßigen Bauteilen
- Für verformungsempfindliche Bauteile
- Anwendung nur auf Fräsmaschinen

Application:

- clamping of round parts
- clamping of square/rectangular parts
- clamping of irregular parts
- for deformation sensitive parts
- application only on milling machines

Technical features:

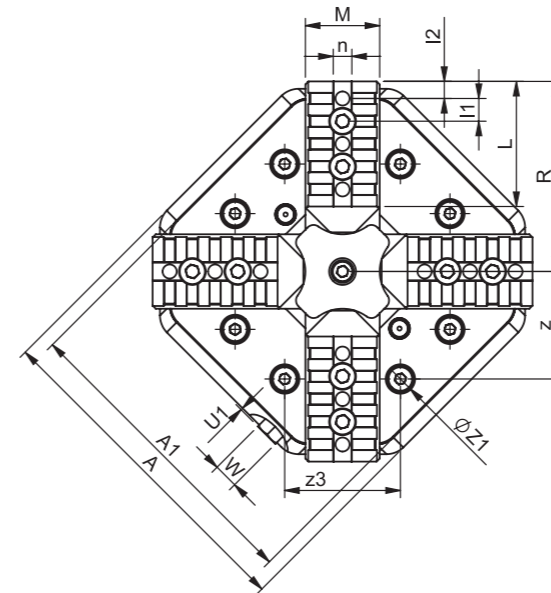
- compensating concentric clamping

Technische Merkmale:

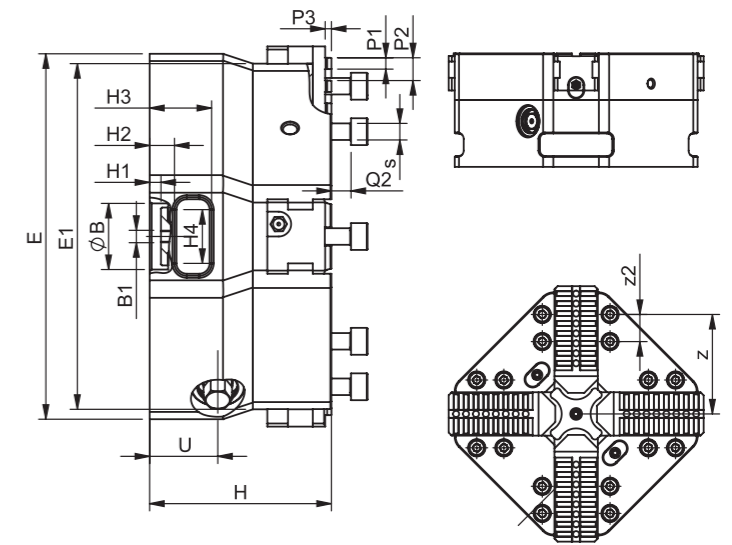
- zentrisches ausgleichendes Spannen



VF016

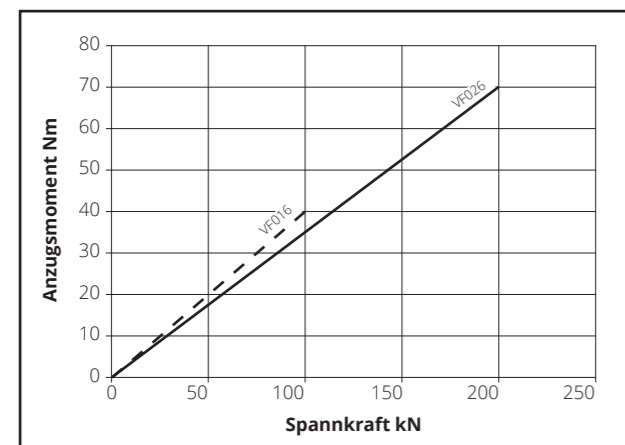


VF026



Spannkraft-/Drehzahl-Diagramm

clamping force – torque diagram

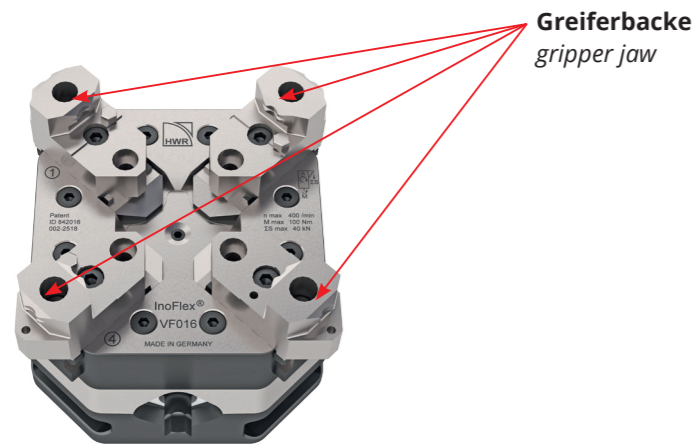


Technische Daten technical data		VF016	VF026
Ident-Nr.		842016	842026
Durchmesser diameter	mm	162	235
Hub pro Backe radial jaw stroke	mm	12,6	14
Ausgleichshub pro Backe compensation stroke per jaw	mm	11,6	13
max. Anzugsmoment max. tightening torque	Nm	100	200
max. Spannkraft max. gripping force	kN	40	70
max. Drehzahl max. speed	1/min r.p.m	400	400
Masse (ohne Backen) weight (without top jaws)	kg	13	44,5
Massenträgheitsmoment moment of inertia	kg·m ²	0,05	0,38
Standard weiche Aufsatzbacke standard soft jaw	-	VP10	VP12
Standard harte Greiferbacke standard hard gripper jaw	-	VR10	VR12

Anschlussmaße mounting dimensions		VF016	VF026
A	mm	162	235
A1	mm	148,5	235
B H7	mm	32	50
B1	mm	M6; 5 tief	M6; 5 tief
E	mm	176,8	268,7
E1	mm	167,3	268,7
H	mm	88	125,5
H1	mm	5,5	13
H2	mm	12	12
H3	mm	30	37
H4	mm	26	68
L	mm	60,5	93
M	mm	36	48
P1	mm	5,5	5,5
P2	mm	11	11
P3	SW	3	3
Q2	mm	12	12
Futter geöffnet chuck open.	R	92	141,3
	U	33	50,5
	U1	6	0
Schlüsselweite wrench width	W	12	17
	I1	11; 4x	11; 7x
	I2	8,25	8,25
	n	9	9
	s	M8 x 25	M8 x 30
	z	52	110
	z1	13; 5,5 tief	18; 7,5 tief
	z2	-	30
	z3	56	75
Anbindung Connection		Spannpratzen/Adapterplatte Clamping claws/adaptor plate	

InoFlex® VF

Futterspannung: 4 Standard Greiferbacken
Chuck clamping: 4 standard gripper jaws



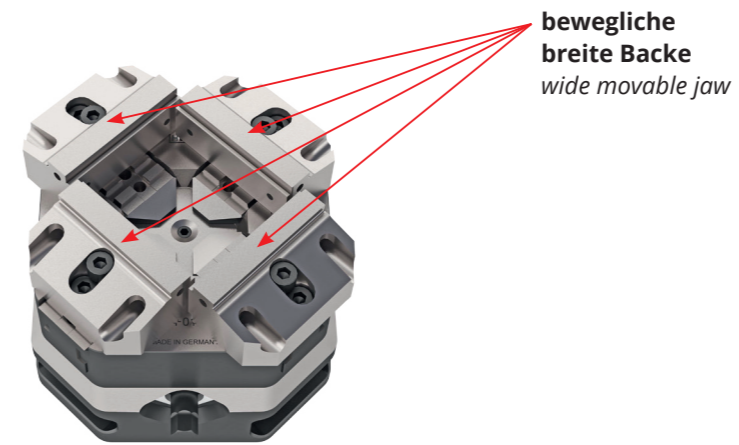
ohne Bauteil
without workpiece

Spannen eines runden Bauteils mit vier Standard Greiferbacken
Clamping of a round workpiece with four standard gripper jaws



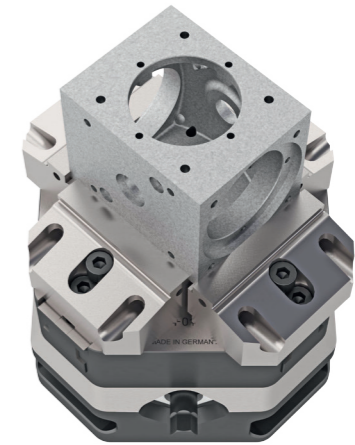
mit Bauteil
with workpiece

Futterspannung: 4 bewegliche breite Backen
Chuck clamping: 4 wide movable jaws



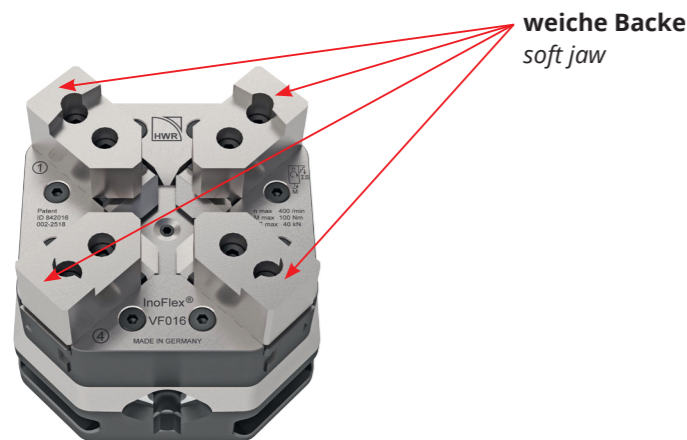
ohne Bauteil
without workpiece

Spannen eines rechteckigen Bauteils mit vier beweglichen breiten Backen
Clamping of a rectangular workpiece with four wide movable jaws



mit Bauteil
with workpiece

Futterspannung: 4 Standard weiche Backen
Chuck clamping: 4 standard soft jaws



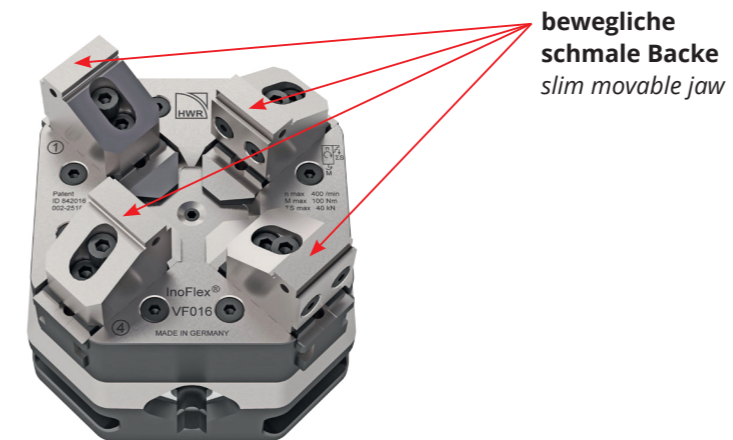
ohne Bauteil
without workpiece

Spannen eines runden Bauteils mit vier ausgedrehten weichen Standard Backen
Clamping of a round workpiece with four bored standard soft jaws



mit Bauteil
with workpiece

Futterspannung: 4 bewegliche schmale Backen
Chuck clamping: 4 slim movable jaws



ohne Bauteil
without workpiece

Spannen eines rechteckigen Bauteils mit vier beweglichen schmalen Backen
Clamping of a rectangular workpiece with four slim movable jaws



mit Bauteil
with workpiece

InoFlex® VF

Zentrierspannung: 2 bewegliche breite Backen
 Concentric clamping: 2 wide movable jaws

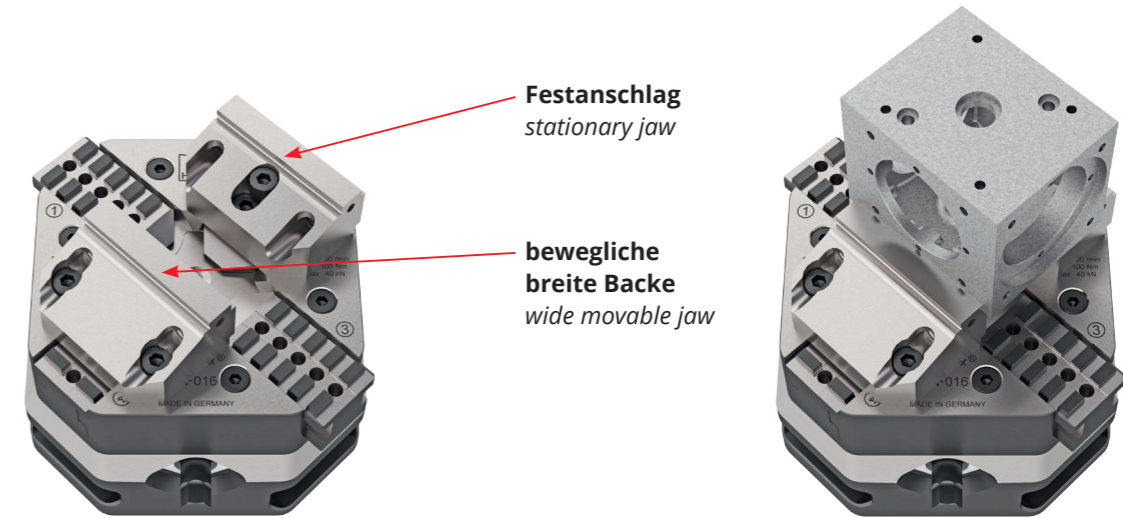


ohne Bauteil
 without workpiece

mit Bauteil
 with workpiece

Spannen eines rechteckigen Bauteils mit zwei beweglichen breiten Backen
 Clamping of a rectangular workpiece with two movable jaws

Schraubstockspannung: 1 Festanschlagbacke, 1 bewegliche breite Backen
 Vice clamping: 1 stationary jaw, 1 wide movable jaws

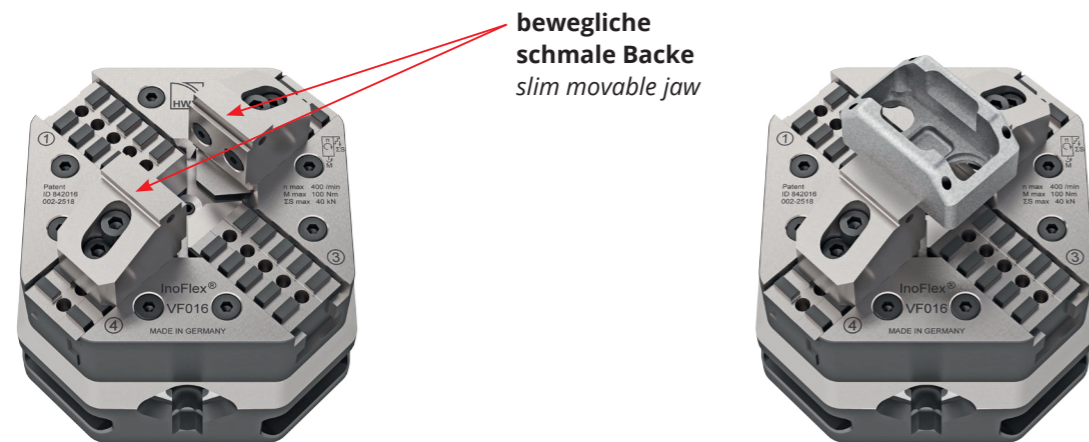


ohne Bauteil
 without workpiece

mit Bauteil
 with workpiece

Spannen eines rechteckigen Bauteils mittels eines Festanschlags und einer beweglichen breiten Backen
 Clamping of a rectangular workpiece with one stationary jaw and one wide movable jaws

Zentrierspannung: 2 bewegliche schmale Backen
 Concentric clamping: 2 slim movable jaws

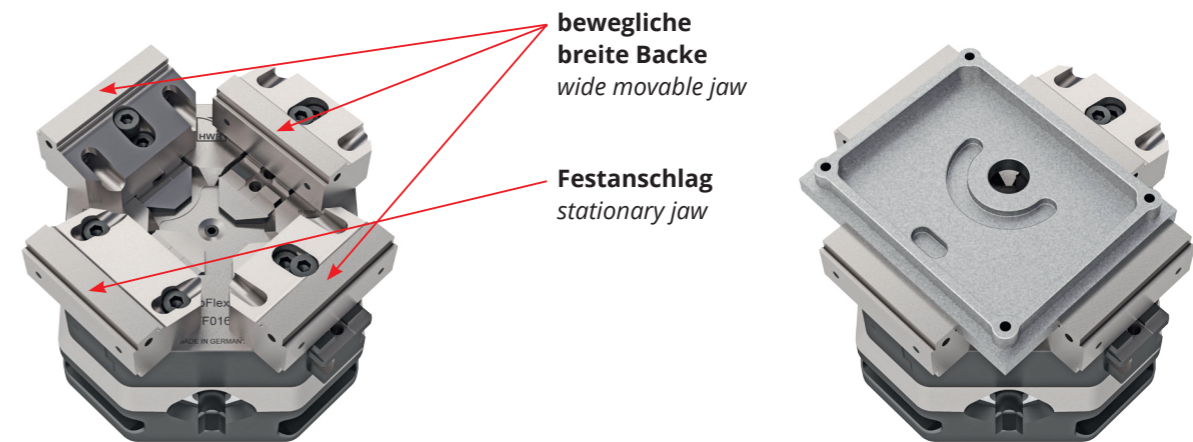


ohne Bauteil
 without workpiece

mit Bauteil
 with workpiece

Spannen eines rechteckigen Bauteils mit zwei beweglichen schmalen Backen
 Clamping of a rectangular workpiece with two slim movable jaws

Schraubstockspannung: 1 Festanschlagbacke, 3 bewegliche breite Backen
 Vice clamping: 1 stationary jaw, 3 wide movable jaws



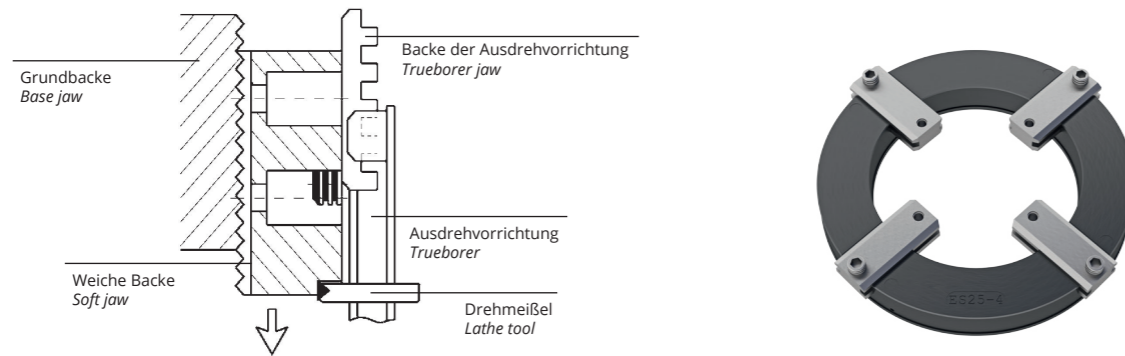
ohne Bauteil
 without workpiece

mit Bauteil
 with workpiece

Spannen eines rechteckigen Bauteils mittels eines Festanschlags und drei beweglichen breiten Backen
 Clamping of a rectangular workpiece with one stationary jaw and three wide movable jaws

InoFlex® Zubehör InoFlex® accessories

Ausdrehvorrichtung Trueborer

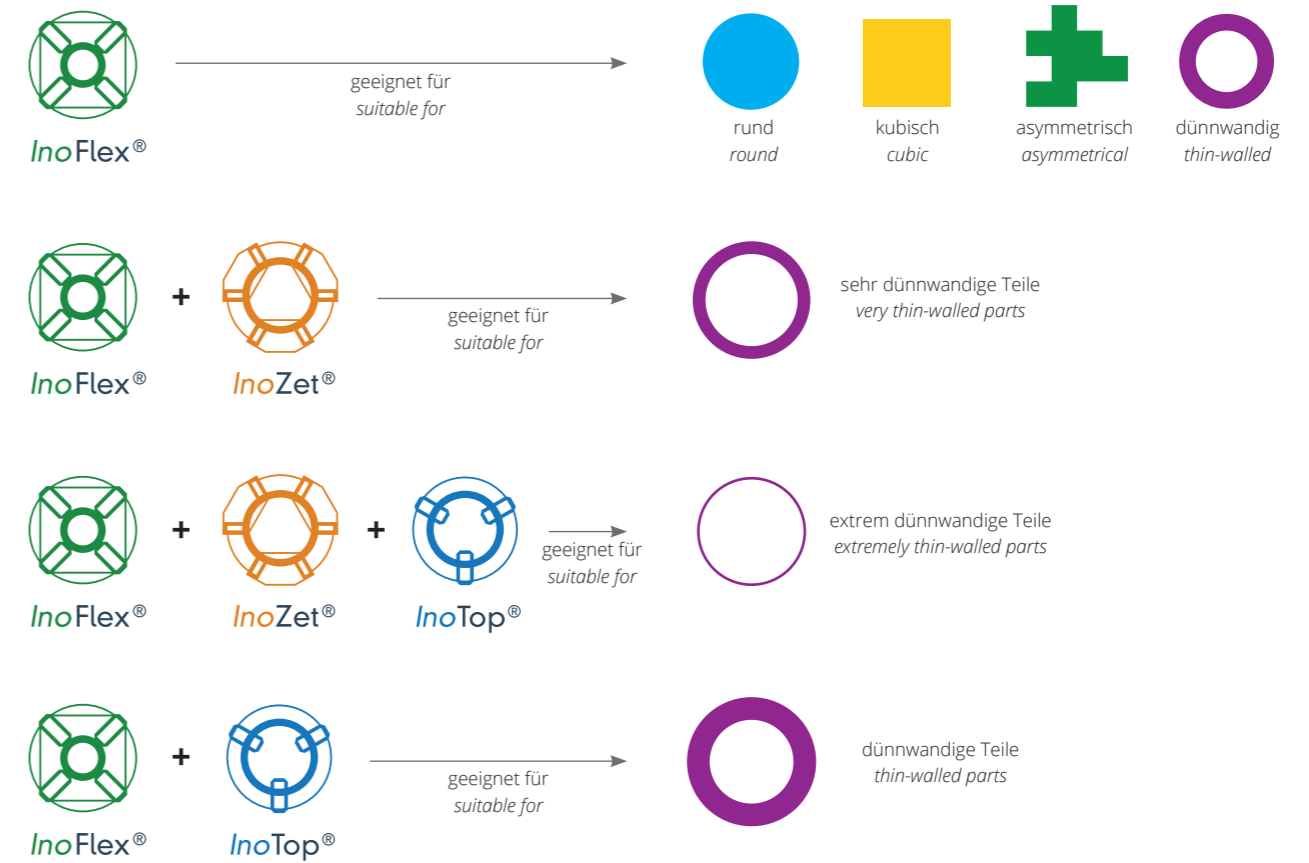


Typ type	Ident-Nr. ident no.	für Spannfutter chuck size	Ring Innen Ring inside	Ring Außen Ring outside	Spannbereich Clamping range	Schraubenkopf Bolt head	Gewicht weight	max. Spanndruck max. clamping pressure
		ø [mm]	ø [mm]	ø [mm]	min./max.	ø [mm]		
ES 16	298001	125 - 210	100	180	30 - 250	13+16	4	8000
ES 25	298002	250 - 315	195	295	100 - 340	16	10	10000
ES 42	298003	400 - 600	310	420	180 - 550	18,5	20	13000



InoFlex® Zubehör InoFlex® accessories	Beschreibung description	Ident-Nr. ident no.
Spezial-Fett für InoFlex® Special grease for InoFlex®	OKS265, 400 ml Kartusche OKS265, 400 ml cartouche	800006
Handhebel-Fettpresse Lever-type grease gun	für 400 ml Kartusche, DIN 1283, mit Mundstück für Kugelschmiernippel for 400 ml cartouches, DIN 1283, with mouthpiece for ball grease-nipples	800008
Stoß-Fettpresse Push-type grease gun	150 ml, mit Mundstück für Trichterschmiernippel 150 ml, with mouthpiece for tapper grease nipples	800009

HWR-Ino®-Baukasten-System für Ihren Erfolg HWR model kit for your success



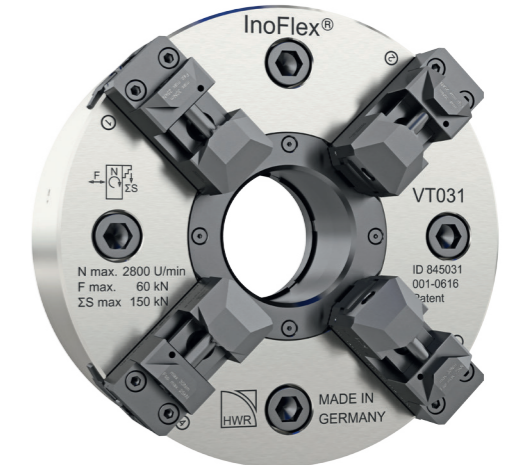
HWR Ino-Baukastensystem
 ausgleichende 8-Punkt Spannung
 HWR model kit
 compensating 8-point clamping



InoZet® auf InoFlex®
 InoZet® on InoFlex®

InoFlex® Futtertyp InoFlex® Chuck Type	Futtergröße Chuck size	InoZet® Typ- bezeichnung InoZet® type	Ident-Nr. ident no.	Technische Daten technical data
VD026	255	WT025-4-WV02	750163	siehe Katalogseiten 60 und 61 see catalogue pages 60 and 61
VK026	255	WT025-4-WV02	750163	
VT026	264	WT025-4-WV02	750163	
VD031	315	WT031-4-WV05	750164	
VK031	315	WT031-4-WV05	750164	
VT031	315	WT031-4-WV05	750164	
VD040	400	WT040-4-WV17	750169	
VK040	400	WT040-4-WV17	750169	
VT040	400	WT040-4-WV17	750169	
VL042	420	WT040-4-WV07	750177	
VD050	500	WT050-4-WV19	750170	
VK050	500	WT050-4-WV19	750170	
VT050	500	WT050-4-WV19	750170	
VL060	600	WT063-4-WV24	750179	
VD063	630	WT063-4-WV23	750152	
VK063	630	WT063-4-WV23	750152	
VT063	630	WT063-4-WV23	750152	
VL070	700	WT040-4-WV88	750176	
VL070	700	WT070-4-WV89	750173	
VD080	800	WT063-4-WV23	750152	
VD080	800	WT080-4-WV42	750165	
VK080	800	WT063-4-WV23	750152	
VK080	800	WT080-4-WV42	750165	
VD100	990	WT100-4-WV48	750182	
VL100	990	WT063-4-WV25	750180	
VL100	990	WT100-4-WV83	750178	
VD120	1150	WT120-4-WV48	750183	
VL120	1150	WT063-4-WV25	750180	
VL120	1150	WT120-4-WV83	750181	

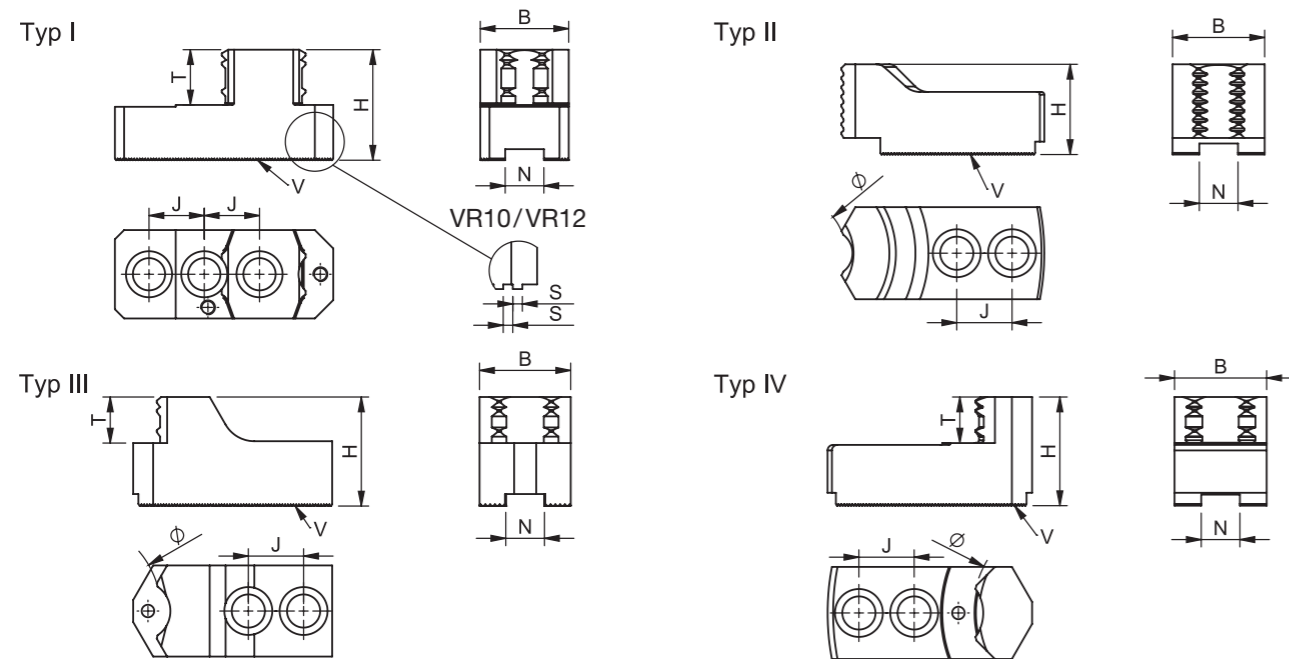
HWR Ino-Baukastensystem
 „ohne“ Spanndruck spannen
 HWR model kit
 clamping „without“ clamping pressure



InoTop® auf InoFlex®
 InoTop® on InoFlex®

InoFlex® Futtertyp InoFlex® Chuck Type	Futtergröße Chuck size	InoTop® Typ- bezeichnung InoTop® type	Ident-Nr. ident no.	Technische Daten technical data
VD026	255	TM040-4	813141	siehe Katalogseiten 81 und 82 see catalogue pages 81 and 82
VK026	255	TM040-4	813141	
VT026	264	TM040-4	813141	
VD031	315	TM040-4	813141	
VK031	315	TM040-4	813141	
VT031	315	TM040-4	813141	
VD040	400	TM062-4	813162	
VK040	400	TM062-4	813162	
VT040	400	TM062-4	813162	
VL042	420	TM040-4	813141	
VD050	500	TM080-4	813180	
VK050	500	TM080-4	813180	
VT050	500	TM080-4	813180	
VL060	600	TR060-4	816160	
VD063	630	TM080-4	813180	
VK063	630	TM080-4	813180	
VT063	630	TM080-4	813180	
VL070	700	TR060-4	816160	
VD080	800	TM080-4	813180	
VK080	800	TM080-4	813180	

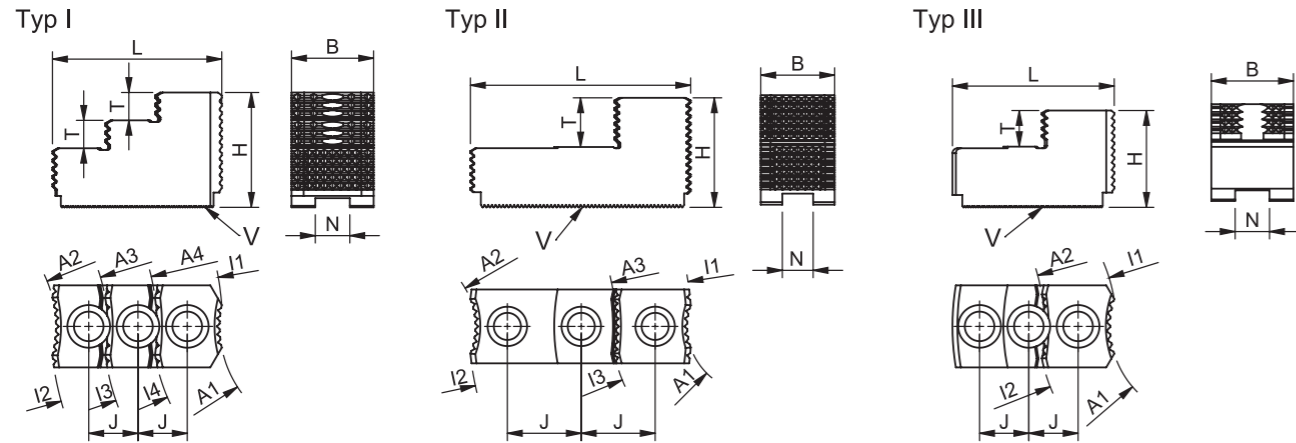
Greiferbacken
Adjustagrip-jaws



InoFlex®	Futtergröße Chuck size	Backen- typ Jaw type	Ident- Nr. ident no.	Breite width	Höhe height	Backenanschluss Jaw-connection	Bohrungsab- stände hole spacing	Spannbereich Grip range		Ein- spann- tiefe clamping depth	Schwing- kreis swing	Ge- wicht/ Satz weight/ set	Typ type	
								Außen- spannung external clamping	Innen- spannung internal clamping					
								min./max. [mm]	T [mm]					
	[mm]			B [mm]	H [mm]	S [mm] / V	N [mm]	J [mm]						
VD016 VT016	160	VG10	852110	32	35	V = 1,5mm x 60°	10	18	Ø 30 - 165 ■ 25 - 165	Ø 85 - 165 ■ 84 - 165	15	240	1,2	I
VF016	160	VR10	850010	36	38	S = 5,5		22	Ø 30 - 180 ■ 28 - 180	Ø 87 - 215 ■ 86 - 215	15	260	1,7	I
VD021 VK021	210	VG12	852112	35	48	V = 1,5mm x 60°	12	20	Ø 42 - 210 ■ 37 - 210	Ø 115 - 210 ■ 108 - 210	25	305	1,9	I
VT021	210	VG12	852112	35	48	V = 1,5mm x 60°	12	20	Ø 42 - 205 ■ 40 - 203	Ø 110 - 210 ■ 109 - 210	20	230	2,3	I
		KK16-4	227115	35	40	V = 1,5mm x 60°	12	20	Ø 37 - 80 ■ 36 - 79		20	230	2,0	II
VD026 VK026	260	VG16	852116	35	48	V = 1,5mm x 60°	16	30	Ø 52 - 255 ■ 48 - 255	Ø 137 - 255 ■ 135 - 255	25	370	1,9	I
VF026	260	VR12	850012	48	55	S = 5,5		22	Ø 52 - 255 ■ 48 - 255	Ø 137 - 255 ■ 135 - 255	25	380	4,4	I
VT026	260	LC02-4	234054	40	59	V = 1,5mm x 60°	16	30	Ø 26 - 68 ■ 21 - 66		24	290	4,1	III
		LC04-4	234045	40	59	V = 1,5mm x 60°	16	30	Ø 67 - 109 ■ 61 - 105		25	285	3,9	III
		LC08-4	234043	40	59	V = 1,5mm x 60°	16	30	Ø 109 - 151 ■ 104 - 148		25	285	3,6	III
		LC13-4	234046	40	59	V = 1,5mm x 60°	16	30	Ø 150 - 192 ■ 147 - 190		25	295	3,5	III

InoFlex®	Futtergröße Chuck size	Backen- typ Jaw type	Ident- Nr. ident no.	Breite width	Höhe height	Backenanschluss Jaw-connection	Bohrungsab- stände hole spacing	Spannbereich Grip range		Ein- spann- tiefe clamping depth	Schwing- kreis swing	Ge- wicht/ Satz weight/ set	Typ type	
								Außen- spannung external clamping	Innen- spannung internal clamping					
								min./max. [mm]	T [mm]					
	[mm]			B [mm]	H [mm]	S [mm] / V	N [mm]	J [mm]						
VT026	260	LC17-4	234047	40	59	V = 1,5mm x 60°	16	30	Ø 192 - 236 ■ 190 - 234		25	290	3,5	III
		LC20-4	234048	40	59	V = 1,5mm x 60°	16	30	Ø 227 - 264 ■ 225 - 260		25	320	3,4	III
		MC06-4	235032	40	59	V = 1,5mm x 60°	16	30		Ø 85 - 128 ■ 82 - 126	25	285	3,6	IV
		MC10-4	235033	40	59	V = 1,5mm x 60°	16	30		Ø 126 - 168 ■ 123 - 166	25	285	3,4	IV
		MC14-4	235034	40	59	V = 1,5mm x 60°	16	30		Ø 166 - 209 ■ 164 - 207	25	285	3,1	IV
		MC18-4	235035	40	59	V = 1,5mm x 60°	16	30		Ø 206 - 249 ■ 204 - 247	25	285	3,0	IV
		KK25-4	227116	35	39	V = 1,5mm x 60°	16	30		Ø 47 - 88 ■ 42 - 86	25	285	3,1	II
VD031 VK031	315	VG16	852116	35	48	V = 1,5mm x 60°	16	30	Ø 52 - 315 ■ 48 - 315	Ø 137 - 315 ■ 135 - 315	25	430	3,6	I
VT031	315	VG16	852116	35	48	V = 1,5mm x 60°	16	30	Ø 65 - 315 ■ 64 - 315	Ø 149 - 315 ■ 148 - 315	25	430	3,6	I
		KK25-4	227116	35	39	V = 1,5mm x 60°	16	30	Ø 66 - 139 ■ 63 - 138			335	3,1	II
VD040 VK040	400	VG21	852121	48	60	V = 1,5mm x 60°	21	30	Ø 68 - 400 ■ 65 - 400	Ø 158 - 400 ■ 156 - 400	30	525	4,8	I
VT040	400	VG21	852121	48	60	V = 1,5mm x 60°	21	30	Ø 88 - 400 ■ 87 - 400	Ø 179 - 400 ■ 178 - 400	30	525	4,8	I
		KK33-4	227117	50	50	V = 1,5mm x 60°	21	30	Ø 77 - 195 ■ 73 - 193			420	5,0	II
VL042	420	VG16	852116	35	48	V = 1,5mm x 60°	21	30	Ø 68 - 420 ■ 65 - 420	Ø 158 - 420 ■ 156 - 420	30	545	3,6	I
VD050 VK050 VT050	500	VG25	852125	58	90	V = 3mm x 60°	25	60	Ø 74 - 500 ■ 70 - 500	Ø 224 - 500 ■ 221 - 500	50	690	14,4	I
VL060	600	VR16	850016	38	55	V = Modul 2	16	30	Ø 52 - 600 ■ 48 - 600	Ø 137 - 600 ■ 135 - 600	25	815	3,8	I
VD063 VK063	630	VG25	852125	58	90	V = 3mm x 60°	25	60	Ø 74 - 630 ■ 70 - 630	Ø 224 - 630 ■ 221 - 630	50	825	14,4	I
VT063	630	VG25	852125	58	90	V = 3mm x 60°	25	60	Ø 97 - 630 ■ 95 - 630	Ø 224 - 630 ■ 221 - 630	50	825	14,4	I
VL070	700	VR16	850016	38	55	V = Modul 2	16	30	Ø 52 - 700 ■ 48 - 700	Ø 137 - 700 ■ 135 - 700	25	815	3,6	I
VD080 VK080	800	VG25	852125	58	90	V = 3mm x 60°	25	60	Ø 74 - 800 ■ 70 - 800	Ø 224 - 800 ■ 221 - 800	50	990	14,4	I
VD100	990	VG25	852125	58	90	V = 3mm x 60°	25	60	Ø 74 - 990 ■ 70 - 990	Ø 224 - 990 ■ 221 - 990	50	1180	14,4	I
VL100	990	VR21	850021	55	90	V = Modul 2	21	30	Ø 68 - 990 ■ 65 - 990	Ø 158 - 990 ■ 156 - 990	50	1125	14,1	I
VD120	1150	VG25	852125	58	90	V = 3mm x 60°	25	60	Ø 68 - 1150 ■ 65 - 1150	Ø 158 - 1150 ■ 156 - 1150	30	1125	14,1	I
VL120	1150	VR21	850021	55	90	V = Modul 2	21	30	Ø 68 - 1150 ■ 65 - 1150	Ø 158 - 1150 ■ 156 - 1150	50	1325	14,1	I

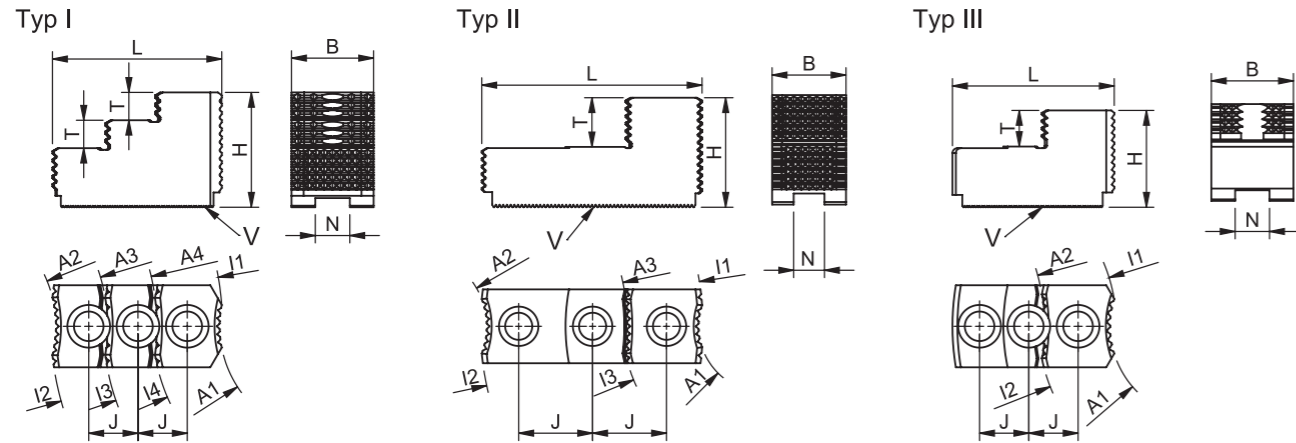
Harte umkehrbare Aufsatzbacken
Hard reversible top-jaws



InoFlex®	Futtergröße Chuck size [mm]	Backen-typ Jaw type	Ident-Nr. ident no.	Breite width B [mm]	Höhe height H [mm]	Länge length L [mm]	Backenanschluss Jaw-connection		Bohrungsabstände hole spacing J [mm]	Spannbereich Grip range		Typ type	Ein-spanntiefe clamping depth T [mm]	Schwing-kreis swing ø [mm]	Ge-wicht/ Satz weight/ set kg
							V	N [mm]		min./max. [mm]					
										Außen-spannung external clamping	Innen-spannung internal clamping				
VD016	165	VU210	852210	25	32	57	1,5mm x 60°	10	18	A1: Ø 8 - 45 Ø 24 - 79 A2: Ø 8 - 56 Ø 38 - 92 A3: Ø 78 - 133 Ø 108 - 165	I1: Ø 141 - 165 I2: Ø 142 - 165 I3: Ø 150 - 165 I3: Ø 77 - 108 I4: Ø 85 - 140	II	13	242	0,9
VT016	168	VU210	852210	25	32	57	1,5mm x 60°	10	18	A1: Ø 10 - 45 Ø 45 - 81 A2: Ø 32 - 66 Ø 66 - 101 A3: Ø 101 - 168 Ø 137 - 168	I1: Ø 165 - 168 I2: Ø 144 - 168 I3: Ø 77 - 111 I4: Ø 111 - 146	II	13	240	0,9
VD021	210	VU212	852212	35	50	68	1,5mm x 60°	12	20	A1: Ø 15 - 62 Ø 25 - 102 A2: Ø 37 - 90 Ø 54 - 129 A3: Ø 78 - 131 Ø 94 - 170 A4: Ø 118 - 175 Ø 135 - 210	I1: Ø 201 - 210 I2: Ø 180 - 210 I3: Ø 190 - 210 I3: Ø 140 - 186 I4: Ø 150 - 210 I4: Ø 100 - 146 I4: Ø 112 - 184	I	2 x 11	310	2,5
VK021	212	VU212	852212	35	50	68	1,5mm x 60°	12	20	A1: Ø 15 - 62 Ø 50 - 101 A2: Ø 41 - 92 Ø 78 - 131 A3: Ø 83 - 133 Ø 119 - 172 A4: Ø 123 - 174 Ø 159 - 212	I1: Ø 202 - 212 I2: Ø 183 - 212 I3: Ø 143 - 187 I3: Ø 175 - 212 I4: Ø 103 - 146 I4: Ø 134 - 185	I	2 x 11	310	2,5
VT021	212	VU212	852212	35	50	68	1,5mm x 60°	12	20	A1: Ø 15 - 60 Ø 56 - 98 A2: Ø 48 - 90 Ø 89 - 130 A3: Ø 90 - 131 Ø 129 - 171 A4: Ø 130 - 172 Ø 170 - 212	I1: Ø 208 - 212 I2: Ø 184 - 212 I3: Ø 145 - 185 I3: Ø 184 - 212 I4: Ø 104 - 145 I4: Ø 144 - 184	I	2 x 11	315	2,5

InoFlex®	Futtergröße Chuck size [mm]	Backen-typ Jaw type	Ident-Nr. ident no.	Breite width B [mm]	Höhe height H [mm]	Länge length L [mm]	Backenanschluss Jaw-connection		Bohrungsabstände hole spacing J [mm]	Spannbereich Grip range		Typ type	Ein-spanntiefe clamping depth T [mm]	Schwing-kreis swing ø [mm]	Ge-wicht/ Satz weight/ set kg
							V	N [mm]		min./max. [mm]					
										Außen-spannung external clamping	Innen-spannung internal clamping				
VD026	255	VU216	852216	40	50	99	1,5mm x 60°	16	30	A1: Ø 22 - 59 Ø 58 - 121 A2: Ø 45 - 97 Ø 87 - 157 A3: Ø 122 - 175 Ø 164 - 255 A4: Ø 160 - 214 Ø 202 - 255	I1: Ø 235 - 255 I2: Ø 158 - 202 I3: Ø 195 - 255 I4: Ø 120 - 164 I4: Ø 156 - 224	I	2 x 15	375	4,5
VK026	255	VU216	852216	40	50	99	1,5mm x 60°	16	30	A1: Ø 22 - 54 Ø 50 - 113 A2: Ø 50 - 90 Ø 89 - 149 A3: Ø 128 - 168 Ø 166 - 227 A4: Ø 166 - 205 Ø 206 - 255	I1: Ø 238 - 255 I2: Ø 162 - 184 I3: Ø 189 - 252 I4: Ø 124 - 147 I4: Ø 150 - 213	I	2 x 15	380	4,5
VT026	264	VU216	852216	40	50	99	1,5mm x 60°	16	30	A1: Ø 22 - 68 Ø 80 - 129 A2: Ø 58 - 105 Ø 116 - 166 A3: Ø 138 - 182 Ø 192 - 241 A4: Ø 176 - 220 Ø 230 - 264	I1: Ø 238 - 264 I2: Ø 159 - 206 I3: Ø 217 - 268 I4: Ø 122 - 168 I4: Ø 179 - 229	I	2 x 15	385	4,5
VD031	315	VU216	852216	40	50	99	1,5mm x 60°	16	30	A1: Ø 22 - 115 Ø 58 - 175 A2: Ø 42 - 161 Ø 94 - 221 A3: Ø 120 - 239 Ø 172 - 299 A4: Ø 157 - 277 Ø 210 - 315	I1: Ø 255 - 315 I2: Ø 234 - 315 I3: Ø 271 - 315 I3: Ø 158 - 253 I4: Ø 194 - 313 I4: Ø 120 - 214 I4: Ø 156 - 274	I	2 x 15	445	4,5
VK031	315	VU216	852216	40	50	99	1,5mm x 60°	16	30	A1: Ø 22 - 114 Ø 73 - 173 A2: Ø 49 - 153 Ø 104 - 213 A3: Ø 128 - 232 Ø 181 - 291 A4: Ø 165 - 270 Ø 219 - 315	I1: Ø 263 - 315 I2: Ø 241 - 315 I3: Ø 290 - 315 I3: Ø 163 - 252 I4: Ø 212 - 313 I4: Ø 125 - 213 I4: Ø 173 - 273	I	2 x 15	440	4,5
VT031	315	VU216	852216	40	50	99	1,5mm x 60°	16	30	A1: Ø 42 - 124 Ø 99 - 182 A2: Ø 80 - 156 Ø 137 - 215 A3: Ø 156 - 234 Ø 215 - 294 A4: Ø 194 - 272 Ø 253 - 315	I1: Ø 293 - 315 I2: Ø 257 - 238 I3: Ø 312 - 315 I3: Ø 178 - 259 I4: Ø 234 - 315 I4: Ø 140 - 220 I4: Ø 195 - 280	I	2 x 15	440	4,5
VD040	400	VU221	852221	50	60	98	1,5mm x 60°	21	30	A1: Ø 42 - 168 Ø 58 - 226 A2: Ø 168 - 340 Ø 226 - 400	I1: Ø 312 - 400 I2: Ø 370 - 400 I2: Ø 182 - 312 I2: Ø 200 - 371	III	22	555	7
VK040	400	VU221	852221	50	60	98	1,5mm x 60°	21	30	A1: Ø 46 - 169 Ø 60 - 227 A2: Ø 171 - 344 Ø 229 - 400	I1: Ø 310 - 400 I2: Ø 371 - 400 I2: Ø 186 - 311 I2: Ø 197 - 370	III	22	560	7

Harte umkehrbare Aufsatzbacken
Hard reversible top-jaws



InoFlex®	Futtergröße Chuck size	Backen-typ Jaw type	Ident-Nr. ident no.	Breite width	Höhe height	Länge length	Backenanschluss Jaw-connection	Bohrungsabstände hole spacing	Spannbereich Grip range		Typ type	Ein-spanntiefe clamping depth	Schwing-kreis swing	Ge-wicht/ Satz weight/ set	
									Außen-spannung external clamping	Innen-spannung internal clamping					
									min./max. [mm]						T [mm]
VT040	400	VU221	852221	50	60	98	1,5mm x 60°	21	30	A1: Ø 45 - 168 A2: Ø 102 - 217 A3: Ø 215 - 342 A4: Ø 278 - 400	I1: Ø 356 - 400 I2: Ø 185 - 306 I3: Ø 244 - 366	III	22	560	7
VL042	420	VU216	852216	40	50	99	1,5mm x 60°	16	30	A1: Ø 22 - 206 A2: Ø 52 - 266 A3: Ø 47 - 241 A4: Ø 107 - 301	I1: Ø 262 - 420 I2: Ø 303 - 420 I3: Ø 240 - 420 I4: Ø 270 - 420	I	2 x 15	530	4,5
VD050	500	VU225	852225	60	90	178	3mm x 60°	25	60	A1: Ø 52 - 163 A2: Ø 70 - 192 A3: Ø 146 - 310 A4: Ø 172 - 294	I1: Ø 438 - 500 I2: Ø 425 - 500 I3: Ø 489 - 500 I4: Ø 320 - 432	I	2 x 30	690	22
VK050	500	VU225	852225	60	90	178	3mm x 60°	25	60	A1: Ø 60 - 157 A2: Ø 80 - 187 A3: Ø 165 - 307 A4: Ø 183 - 290	I1: Ø 442 - 500 I2: Ø 432 - 530 I3: Ø 510 - 648 I4: Ø 327 - 425	I	2 x 30	685	22
VT050	500	VU225	852225	60	90	178	3mm x 60°	25	60	A1: Ø 60 - 162 A2: Ø 92 - 196 A3: Ø 121 - 300 A4: Ø 308 - 412	I1: Ø 455 - 500 I2: Ø 429 - 500 I3: Ø 325 - 420 I4: Ø 444 - 500	I	2 x 30	685	22

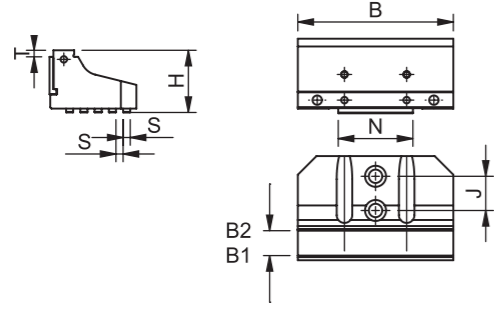
InoFlex®	Futtergröße Chuck size	Backen-typ Jaw type	Ident-Nr. ident no.	Breite width	Höhe height	Länge length	Backenanschluss Jaw-connection	Bohrungsabstände hole spacing	Spannbereich Grip range		Typ type	Ein-spanntiefe clamping depth	Schwing-kreis swing	Ge-wicht/ Satz weight/ set	
									Außen-spannung external clamping	Innen-spannung internal clamping					
									min./max. [mm]						T [mm]
VL060	600	VU416	852416	48	55	107,5	V = Modul 2	16	30	A1: Ø 67 - 524 A2: Ø 196 - 595	I1: Ø 275 - 600 I2: Ø 143 - 498	III	25	710	5
VD063	630	VU225	852225	60	90	178	3mm x 60°	25	60	A1: Ø 54 - 290 A2: Ø 93 - 407 A3: Ø 70 - 318 A4: Ø 118 - 438	I1: Ø 436 - 630 I2: Ø 485 - 630 I3: Ø 425 - 630 I4: Ø 463 - 630	I	2 x 30	812	22
VK063	630	VU225	852225	60	90	178	3mm x 60°	25	60	A1: Ø 62 - 294 A2: Ø 138 - 415 A3: Ø 78 - 316 A4: Ø 168 - 436	I1: Ø 445 - 630 I2: Ø 526 - 630 I3: Ø 432 - 630 I4: Ø 510 - 630	I	2 x 30	814	22
VT063	630	VU225	852225	60	90	178	3mm x 60°	25	60	A1: Ø 99 - 294 A2: Ø 214 - 411 A3: Ø 128 - 309 A4: Ø 244 - 440	I1: Ø 495 - 630 I2: Ø 615 - 630 I3: Ø 470 - 630 I4: Ø 590 - 630	I	2 x 30	820	22
VL070	700	VU416	852416	48	55	107,5	V = Modul 2	16	30	A1: Ø 67 - 524 A2: Ø 196 - 695	I1: Ø 275 - 700 I2: Ø 143 - 498	III	25	810	5
VD080	800	VU225	852225	60	90	178	3mm x 60°	25	60	A1: Ø 54 - 458 A2: Ø 120 - 578 A3: Ø 70 - 481 A4: Ø 148 - 600	I1: Ø 437 - 800 I2: Ø 514 - 800 I3: Ø 425 - 800 I4: Ø 492 - 800	I	2 x 30	972	22
VK080	800	VU225	852225	60	90	178	3mm x 60°	25	60	A1: Ø 64 - 452 A2: Ø 140 - 572 A3: Ø 74 - 480 A4: Ø 163 - 594	I1: Ø 434 - 800 I2: Ø 512 - 800 I3: Ø 320 - 720 I4: Ø 407 - 840	I	2 x 30	971	22
VD100	990	VU225	852225	60	90	178	3mm x 60°	25	60	A1: Ø 54 - 645 A2: Ø 110 - 764 A3: Ø 70 - 668 A4: Ø 146 - 788	I1: Ø 439 - 990 I2: Ø 515 - 990 I3: Ø 426 - 990 I4: Ø 482 - 990	I	2 x 30	1180	22
VD120	1150	VU225	852225	60	90	178	3mm x 60°	25	60	A1: Ø 91 - 784 A2: Ø 215 - 904 A3: Ø 115 - 810 A4: Ø 226 - 930	I1: Ø 482 - 1150 I2: Ø 592 - 1150 I3: Ø 460 - 1150 I4: Ø 585 - 1150	I	2 x 30	1290	22

Festanschlagbacken und breite bewegliche Backen Stationary jaws and wide movable jaws

Passend für VF/suitable for VF

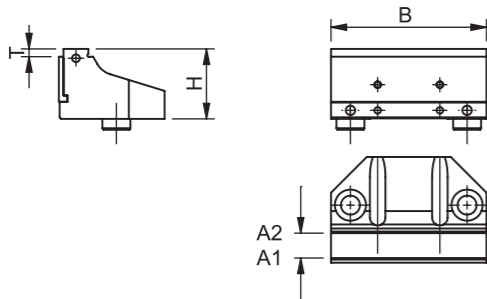
Bewegliche Backe/movable jaw

Typ I



Festanschlag/stationary jaw

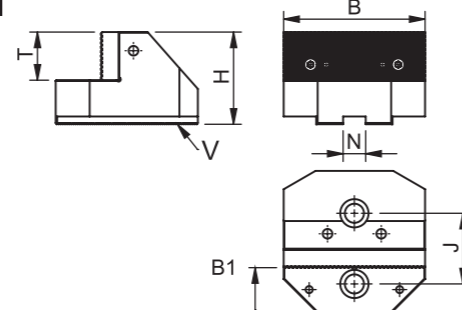
Typ III



Passend für VL/suitable for VL

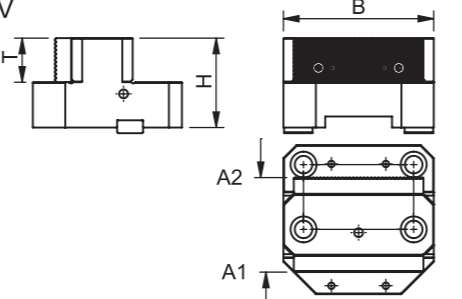
Bewegliche Backe/movable jaw

Typ II



Festanschlag/stationary jaw

Typ IV

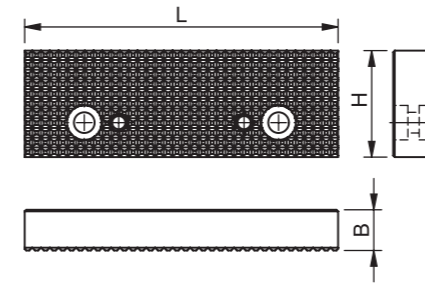


InoFlex®	Backen-typ Jaw type	Ident-Nr. ident no.	Kombi-nation combination	Breite width		Höhe height		Backenanschluss Jaw-connection		Boh-rungsab-stände hole spacing	Spannbereich grip range Außen-spannung external clamping	Ein-spanntiefe clamping depth	Schwing-kreis swing	Gewicht weight	Typ type	Nuten-stein t-nut
				B [mm]	H [mm]	S [mm] / V	N [mm]	J [mm]	min./max [mm]							
VF016	VCB016	854010	VCB016	77	38	S = 5,5	36	11	13 - 185	5	240	0,9	I	-	-	
	VCF016	854009		35	-	-	-	25 - 165	III							
	VCB017	854013	VCB017	36	43	S = 5,5	36	11								13 - 185
VF026	VCB026	854019	VCB026	100	48	S = 5,5	36	22	27 - 291	5	350	1,7	I	-		
	VCF026	854020		45	-	-	-	60 - 272	III							
	VCB027	854021	VCB027	48	61	S = 5,5	36	22							27 - 291	I
VL042	VCB042	854004	VCB042	100	65,2	V = 1,5 x 60°	16	50	134 - 318	34	470	3,1	II	TT70		
	VCF042	854003			69	-	-	-	120 - 303						IV	
VL060	VCB070	854007	VCB070	125	76,2	V = Modul 2	16	50	144 - 499	45	650	4,3	II	TT70		
	VCF070	854006			80	-	-	-	163 - 459						IV	
VL070	VCB070	854007	VCB070	125	76,2	V = Modul 2	16	50	144 - 599	45	750	4,3	II	TT70		
	VCF070	854006			80	-	-	-	143 - 559						IV	
VL100	VCB120	854018	VCB120	160	93,2	V = Modul 2	21	70	204 - 814	54	1040	8,6	II	TT65		
	VCF120	854016			99	-	-	-	218 - 753						IV	
VL120	VCB120	854018	VCB120	160	93,2	V = Modul 2	21	70	204 - 1010	54	1200	8,6	II	TT65		
	VCF120	854016			99	-	-	-	292 - 908						IV	

Auflage- und Spannleisten Support- and clamping strips

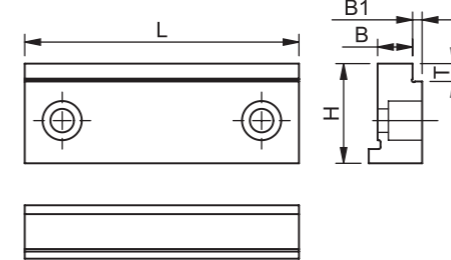
Spannleiste/clamping strip

Typ I



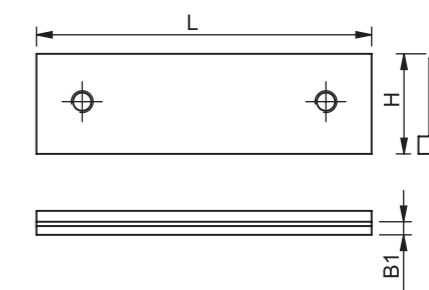
Auflageleiste/support strip

Typ III



Auflageleiste/support strip

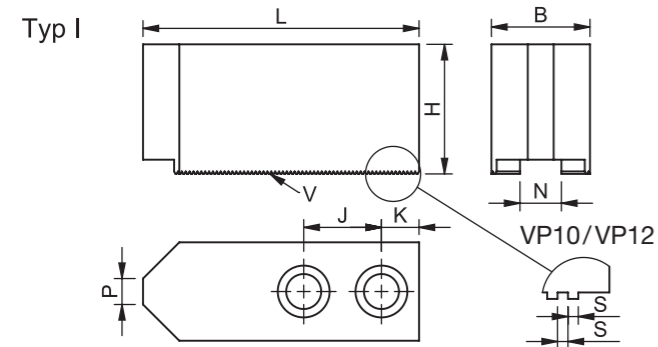
Typ II



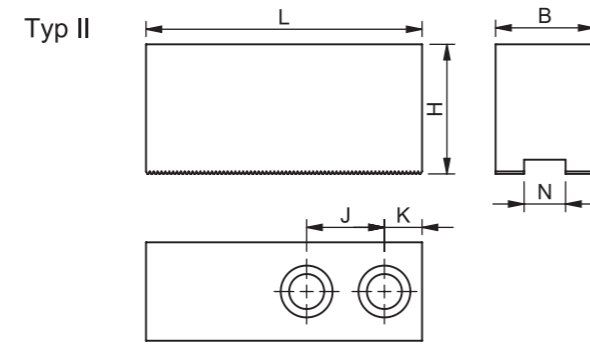
Typ type	Ident-Nr. ident no.	Breite width		Länge length		Höhe height		Auflagen-breite support width		Einspann-breite clamping depth		Passend für suitable for	Typ type
		B [mm]	L [mm]	H [mm]	B1 [mm]	T [mm]							
I	VCA016	854011	-	77	23	3	-	-	-	-	-	VCB016	II
	VCA017	854012	9,8	77	28	2,7	5	-	-	-	-	VCF016	III
	VCA018	854014	-	36	27	3	-	-	-	-	-	VCB017	II
II	VCA019	854015	12,8	36	32	2,7	5	-	-	-	-	VCB017	III
	VCA026	854022	-	100	29	3	-	-	-	-	-	VCB026	II
	VCA027	854023	27,5	100	34	2,5	5	-	-	-	-	VCF026	III
III	VCA028	854024	-	48	40	3	-	-	-	-	-	VCB027	II
	VCA029	854025	10,5	48	45	2,5	5	-	-	-	-	VCB027	III
IV	VCS100	854005	13	100	34	-	-	-	-	-	-	VCB026 / VCF026 VCB042 / VCF042	I
	VCS125	854008	15	125	45	-	-	-	-	-	-	VCB070 / VCF070	I
	VCS160	854017	18	160	54	-	-	-	-	-	-	VCB120 / VCF120	I

Weiche Aufsatzbacken Soft top-jaws

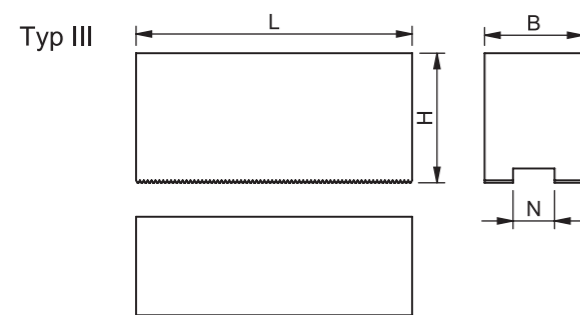
weiche Backen angeschrägt/soft top-jaws pointed



weiche Backen gerade/soft top-jaws straight



Backenrohlinge ungebohrt/blank-jaws undrilled

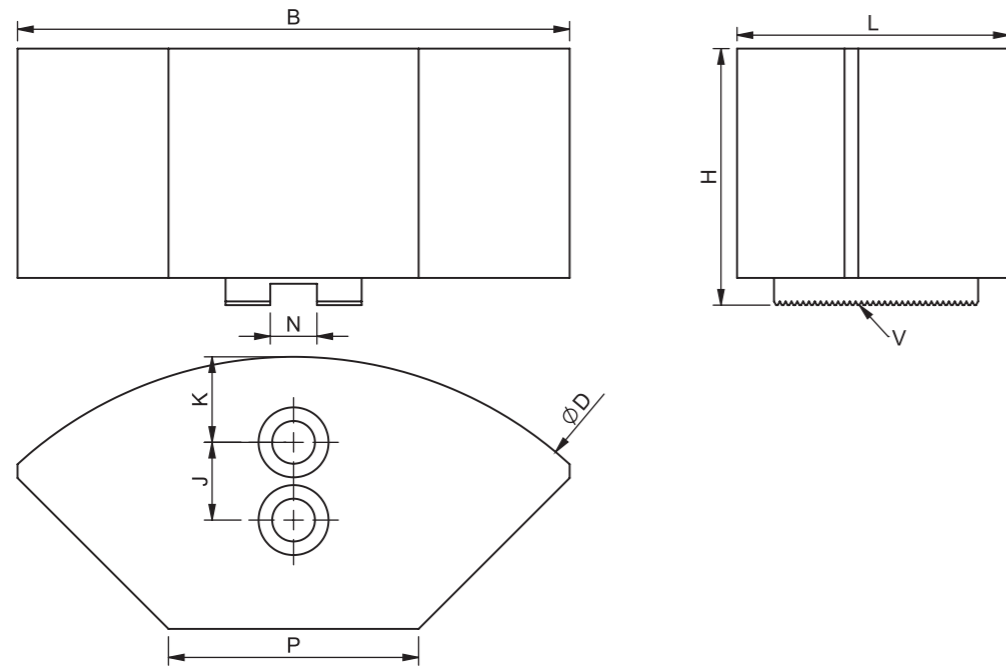


InoFlex®	Futtergröße Chuck size	Backen-typ Jaw type	Ident-Nr. ident no.	Breite width	Höhe height	Länge length	Backenanschluss Jaw-connection	Bohrungsabstände hole spacing	Bohrungsabstände hole spacing	Typ type	Spitzenbreite point width	Werkstoff material	Gewicht weight		
ø [mm]				B [mm]	H [mm]	L [mm]	S [mm] / V	N [mm]	K [mm]	J [mm]	P [mm]		kg/set		
VD016 VT016	165 168	VS10	853110	32	35	80	V = 1,5mm x 60°	10	10	18	I	4	16MnCr5	2,0	
		VS11	853111	24	26	67	V = 1,5mm x 60°	10	9	18	I	3	16MnCr5	0,9	
		BQ05-4	215306	25	25	57	V = 1,5mm x 60°	10	10	18	II		C15	1,1	
		BO05-4	215107	25	32	57	V = 1,5mm x 60°	10	10	18	I	4	C15	1,2	
		DJ05-4	215227	25	50	57	V = 1,5mm x 60°	10	10	18	II		C15	1,8	
VD021 VK021 VT021	210 212 212	VS12	853112	35	48	90	V = 1,5mm x 60°	12	12	20	I	4	16MnCr5	3,6	
		BQ06-4	215307	30	30	72	V = 1,5mm x 60°	12	15	20	II		C15	1,5	
		BO06-4	9904079	30	35	72	V = 1,5mm x 60°	12	15	20	II		C15	2,2	
		DJ06-4	215507	30	60	72	V = 1,5mm x 60°	12	15	20	II		C15	4,7	
		HJ02	200801	30	35	72	V = 1,5mm x 60°	12				III		C15	2,2
		HJ03	200803	30	60	72	V = 1,5mm x 60°	12				III		C15	4,7
		HJ04	200805	30	80	72	V = 1,5mm x 60°	12				III		C15	5,4
		HJ05	200807	50	50	60	V = 1,5mm x 60°	12				III		C15	4,6
HP01	200300	32	38	72	V = 1,5mm x 60°	12				III		Aluminium	1,0		
HP02	200301	32	76	72	V = 1,5mm x 60°	12				III		Aluminium	1,9		

Weiche Aufsatzbacken Soft top-jaws

InoFlex®	Futtergröße Chuck size	Backen-typ Jaw type	Ident-Nr. ident no.	Breite width	Höhe height	Länge length	Backenanschluss Jaw-connection	Bohrungsabstände hole spacing	Bohrungsabstände hole spacing	Typ type	Spitzenbreite point width	Werkstoff material	Gewicht weight		
ø [mm]				B [mm]	H [mm]	L [mm]	S [mm] / V	N [mm]	K [mm]	J [mm]	P [mm]		kg/set		
VD026 VK026 VT026	255 254 264	VS16	853116	38	50	106	V = 1,5mm x 60°	16	14,5	30	I	10	16MnCr5	4,8	
		VS17	853117	37	45	97	V = 1,5mm x 60°	16	14,5	30	I	27	16MnCr5	4,0	
		DK10-4	215019	40	60	90	V = 1,5mm x 60°	16	21	30	II		C15	5,6	
		BO10-4	215119	40	40	110	V = 1,5mm x 60°	16	21	30	II		C15	4,6	
		DJ10-4	215514	40	80	110	V = 1,5mm x 60°	16	21	30	II		C15	8,7	
		HM02	200823	40	40	84	V = 1,5mm x 60°	16				III		C15	4,2
		HM03	200825	40	40	110	V = 1,5mm x 60°	16				III		C15	5,5
		HM04	200827	40	60	90	V = 1,5mm x 60°	16				III		C15	6,7
		HM05	200829	40	60	110	V = 1,5mm x 60°	16				III		C15	8,3
		HM06	200831	40	80	110	V = 1,5mm x 60°	16				III		C15	10,4
		HM07	200833	40	100	110	V = 1,5mm x 60°	16				III		C15	13,8
		HM08	200835	40	125	110	V = 1,5mm x 60°	16				III		C15	17,2
		HM09	200837	80	50	90	V = 1,5mm x 60°	16				III		C15	11,0
HP11	200320	38	51	110	V = 1,5mm x 60°	16				III		Aluminium	2,3		
HP12	200321	38	76	110	V = 1,5mm x 60°	16				III		Aluminium	3,4		
HP13	200322	38	102	110	V = 1,5mm x 60°	16				III		Aluminium	4,4		
VD040 VK040 VT040	400 400 400	VS21	853121	48	60	126	V = 1,5mm x 60°	21	18	30	I	10	16MnCr5	8,5	
		BR13-4	215223	50	50	130	V = 1,5mm x 60°	21	40	30	II		C15	10,1	
		DJ13-4	215515	50	80	130	V = 1,5mm x 60°	21	40	30	II		C15	15,4	
		HS01	200847	50	50	130	V = 1,5mm x 60°	21				III		C15	10,1
		HS02	200849	50	80	130	V = 1,5mm x 60°	21				III		C15	15,4
		HS03	200851	50	100	130	V = 1,5mm x 60°	21				III		C15	20,7
		HS04	200853	50	125	130	V = 1,5mm x 60°	21				III		C15	26,0
		HP25	200350	50	50	130	V = 1,5mm x 60°	21				III		Aluminium	3,4
HP26	200351	50	75	130	V = 1,5mm x 60°	21				III		Aluminium	5,4		
HP27	200352	50	100	130	V = 1,5mm x 60°	21				III		Aluminium	7,0		
VD050 VK050	500 500	VS25	853125	58	90	175	V = 3mm x 60°	25	21	60	I	10	16MnCr5	22,0	
VD063 VK063	630 630	BO18-4	215120	60	80	180	V = 3mm x 60°	25	40	60	II		C15	22,2	
VD080 VK080 VD100 VD120	800 800 990 1150	DJ18-4	215224	60	125	180	V = 3mm x 60°	25	40	60	II		C15	34,7	
VL060 VL070	600 700	VP16	851016	38	50	106,5	V = Modul 2	16	14,5	30	I	10	16MnCr5	4,8	
		VP17	851017	58	90	175	V = Modul 2	16	14,5	30	II		16MnCr5	25,4	
		VP18U	851018	58	90	250	V = Modul 2	16				III		16MnCr5	38,9
VL100 VL120	990	VP21	851021	55	60	126	V = Modul 2	21	40	30	II		16MnCr5	23,1	
		VP22	851022	76	110	200	V = Modul 2	21	85	30	II		16MnCr5	46,8	
		VP23U	851023	110	115	246	V = Modul 2	21				III		16MnCr5	91,8

Segmentbacken Segment jaws

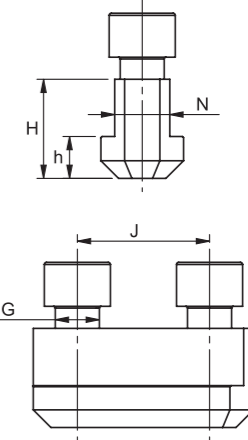


InoFlex®	Futtergröße Chuck size ø [mm]	Backen- typ Jaw type	Ident-Nr. ident no.	D [mm]	Breite width B [mm]	Höhe height H [mm]	Länge length L [mm]	Backenanschluss Jaw-connection S [mm] / V	N [mm]	Bohrungsabstände hole spacing K [mm]	Bohrungsabstände hole spacing J [mm]	Spitzenbreite point width P [mm]	Werkstoff material	Gewicht/ Satz weight/ set kg
VD016	165	VQ10	853210	165	110	66	70	V = 1,5mm x 60°	10	14,5	18	19,3	16MnCr5	8,7
VT016	168	VQA10	853410	165	110	66	70	V = 1,5mm x 60°	10	14,5	18	19,3	Al-ZnMgCu1.5	3,1
VD021	210	VQ12	853212	210	142	66	86	V = 1,5mm x 60°	12	22	20	34,3	16MnCr5	14,0
VK021	212	VQA12	853412	210	142	66	86	V = 1,5mm x 60°	12	22	20	34,3	Al-ZnMgCu1.5	4,9
VT021	212													
VD026	255	VQ16	853216	255	174	76	106	V = 1,5mm x 60°	16	14,5	30	35,9	16MnCr5	24,4
VK026	255	VQA16	853416	255	174	76	106	V = 1,5mm x 60°	16	14,5	30	35,9	Al-ZnMgCu1.5	8,5
VT026	264													
VD031	315	VQ18	853218	315	216	76	135	V = 1,5mm x 60°	16	27,5	30	38,0	16MnCr5	38,4
VK031	315	VQA18	853418	315	216	76	135	V = 1,5mm x 60°	16	27,5	30	38,0	Al-ZnMgCu1.5	13,4
VT031	315													
VD040	400	VQ21	853221	400	275	76	157	V = 1,5mm x 60°	21	27,5	30	76	16MnCr5	59,2
VK040	400	VQA21	853421	400	275	76	157	V = 1,5mm x 60°	21	27,5	30	76	Al-ZnMgCu1.5	20,8
VT040	400													

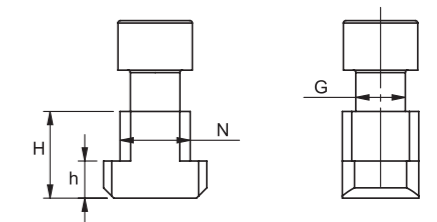
Nutensteine t-nuts

Typ type	Ident-Nr. ident no.	H [mm]	h [mm]	N [mm]	J [mm]	G [mm]	Zylinderkopf-schraube cylinder head screw	Passend für suitable for	Typ type
							ISO 4762		
GP05	292021	15,5	5,5	10	18	M8	M8 x 22	VD016 / VT016	I
GP07	292003	18,5	7,5	12	20	M10	M10 x 25	VD021 / VK021 / VT021	I
GP11	292007	21,5	8,5	16	30	M12	M12 x 30	VD026 / VK026 / VT026 VD031 / VK031 / VT031 VL042 / VL060 / VL070	I
TT70	820070	21,5	8,5	16	-	M12	M12 x 30	VD026 / VK026 / VT026 VD031 / VK031 / VT031 VL042 / VL060 / VL070	II
WN26	780026	21,5	8,5	16	26	M10	M10 x 30	VD026 / VK026 / VT026 VD031 / VK031 / VT031	I
GP13	292009	28	11,5	21	30	M16	M16 x 35	VD040 / VK040 / VT040 VL100 / VL120	I
TT65	820065	28	11,5	21	-	M16	M16 x 35	VL100 / VL120	II
GP21	292022	45	19	25	60	M20	M20 x 55	VD050 / VK050 VD063 / VK063 VD080 / VK080 VD100 VD120	I
WN50	780050	42	19	25	43	M16	M16 x 60	VD050 / VK050 VD063 / VK063 VD080 / VK080 VD100 VD120	I

Typ I

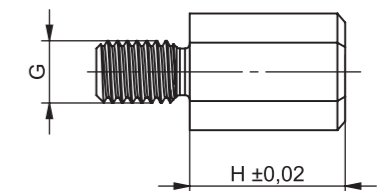
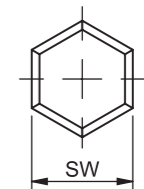


Typ II



Auflagebolzen height pins

Typ type	Ident-Nr. ident no.	G [mm]	H [mm]	SW [mm]	Passend für suitable for
IR10	229015	10			
IR15	229016	15			
IR20	229017		20		
IT05	229004	M6	5	10	VG16 VR12 / VR16
IT10	229005		10		
IT15	229006		15		
IT20	229007		20		
IT25	229003		25		
IU05	229008	M8	5	13	VG21 / VG25 VR21 LC-Typen MC-Typen
IU10	229009		10		
IU15	229010		15		
IU20	229011		20		
IU25	229012		25		
IU30	229013		30		

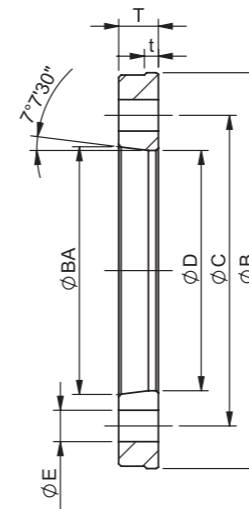


Standardflansche
Standard Adaptor-Plates

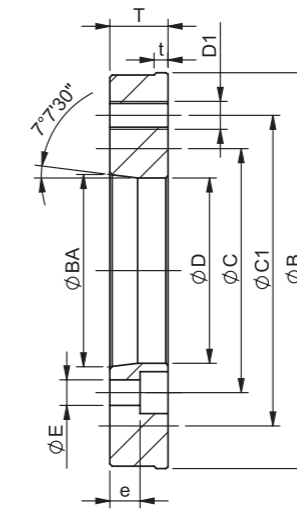
InoFlex® InoFlex®	Kurzkegel ISO-A2 Short taper spindle nose ISO-A2 ISO 702-1 (DIN 55026)						Kurzkegel mit Bajonett Short taper spindle nose with Bayonet type ISO 702-3 (DIN 55027)						Kurzkegel mit Camlock Short taper spindle nose with Camlock type ISO 702-2 (DIN 55029)					
	Spindelkopfgröße Spindle nose size						Spindelkopfgröße Spindle nose size						Spindelkopfgröße Spindle nose size					
	5	6	8	11	15	20	28	5	6	8	11	15	20	5	6	8	11	15
VD016	VZ165	VZ166	VZ168				VZ175	VZ176	VZ178				VZ195	VZ196				
VD021	VZ265	VZ266	VZ268				VZ275	VZ276	VZ278				VZ295	VZ296				
VD026		VZ366	VZ368	VZ3611				VZ376	VZ378				VZ396	VZ398				
VD031		VZ366	VZ368	VZ3611				VZ376	VZ378				VZ396	VZ398				
VD040			VZ468	VZ4611				VZ478	VZ4711				VZ498	VZ4911				
VD050			VZ668	VZ6611	VZ6615	VZ6620			VZ6711	VZ6715				VZ6911	VZ6915			
VD063			VZ668	VZ6611	VZ6615	VZ6620			VZ6711	VZ6715				VZ6911	VZ6915			
VD080					VZ8615	VZ8620				VZ8711	VZ8715	VZ8720						VZ8920
VD100	auf Anfrage upon request						auf Anfrage upon request						auf Anfrage upon request					
VD120	auf Anfrage upon request						auf Anfrage upon request						auf Anfrage upon request					
VK021	VZ265	VZ266	VZ268				VZ275	VZ276	VZ278				VZ295	VZ296				
VK026		VZ366	VZ368	VZ3611				VZ376	VZ378				VZ396	VZ398				
VK031		VZ366	VZ368	VZ3611				VZ376	VZ378				VZ396	VZ398				
VK040			VZ468	VZ4611				VZ478	VZ4711				VZ498	VZ4911				
VK050			VZ668	VZ6611	VZ6615	VZ6620			VZ6711	VZ6715				VZ6911	VZ6915			
VK063			VZ668	VZ6611	VZ6615	VZ6620			VZ6711	VZ6715				VZ6911	VZ6915			
VK080					VZ8615	VZ8620				VZ8711	VZ8715	VZ8720						VZ8920
VT016	VZ165	VZ166	VZ168				VZ175	VZ176	VZ178				VZ195	VZ196				
VT021	VZ265	VZ266	VZ268				VZ275	VZ276	VZ278				VZ295	VZ296				
VT026		VZ366	VZ368	VZ3611				VZ376	VZ378				VZ396	VZ398				
VT031			VZ468	VZ4611				VZ478	VZ4711				VZ498	VZ4911				
VT040			VZ668	VZ6611	VZ6615	VZ6620			VZ6711	VZ6715				VZ6911	VZ6915			

ISO 702-1 [DIN 55026]
Kurzkegel ISO-A2
Short taper spindle nose ISO-A2

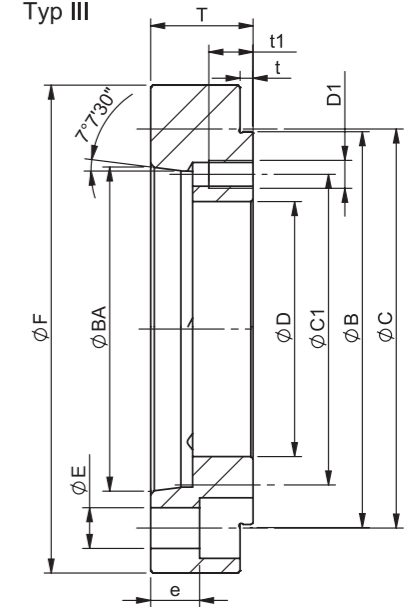
Typ I



Typ II

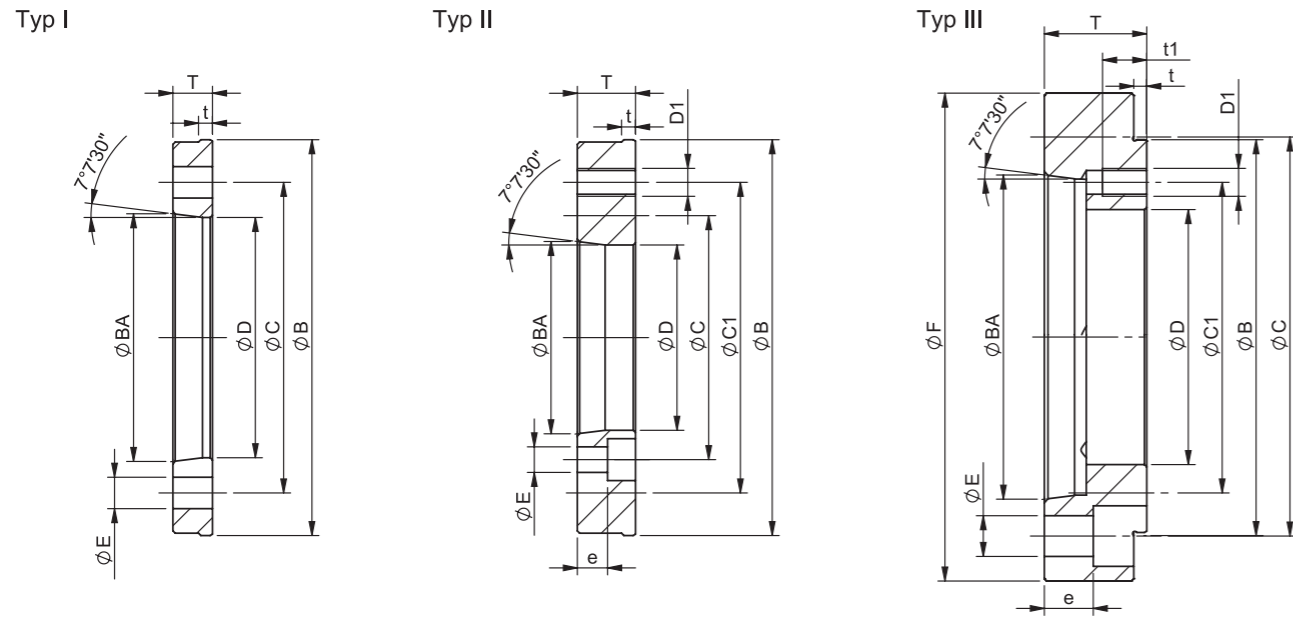


Typ III



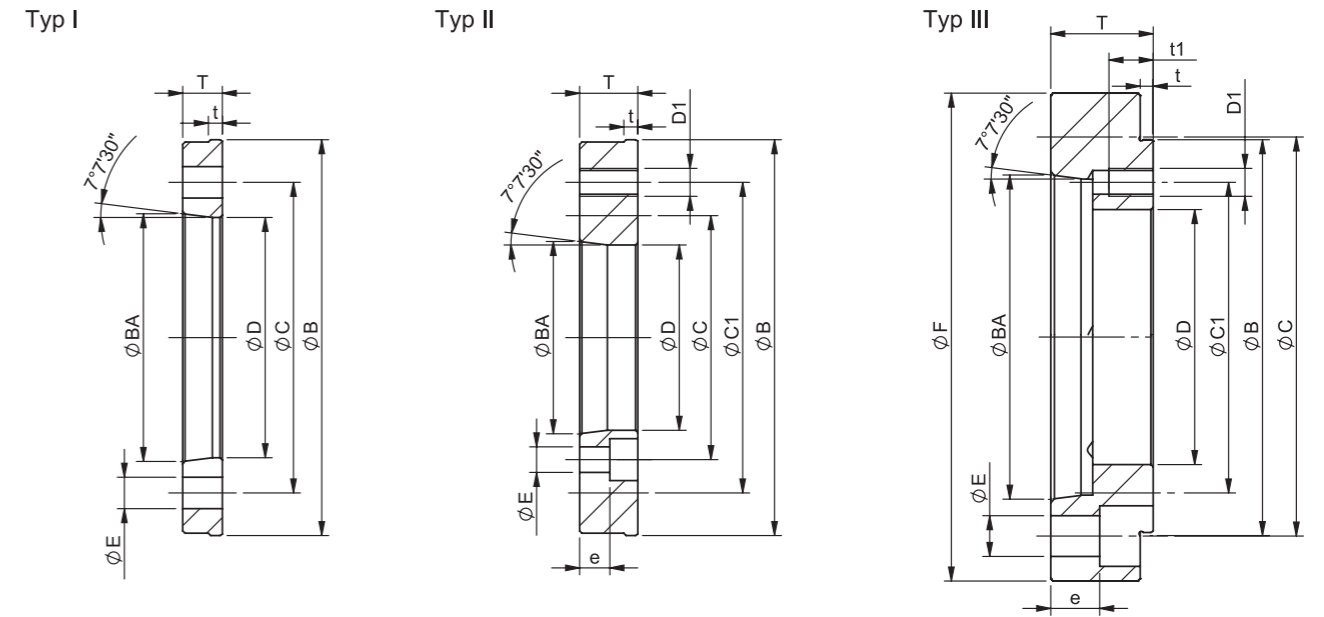
Flansch flange	Ident-Nr. ident no.	Type type	B	BA	C	C1	D	D1	E	F	T	e	t	t1	Gewicht weight	
			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
VZ165	856165	I	140	82,563	A2-5	104,8	-	79,6	-	11	-	17	-	5	-	1,2
VZ166	856166	III	140	106,375	A2-6	133,4	104,8	85	M10	13,5	165	46	19	5,6	18	4,6
VZ168	856168	III	140	139,719	A2-8	171,4	104,8	85	M10	17,5	210	35	12,4	5,6	17	5,1
VZ265	856265	II	170	82,563	A2-5	104,8	133,4	79,6	M12	11	-	25	13	5	25	3,1
VZ266	856266	I	170	106,375	A2-6	133,4	-	103,2	-	13,5	-	17	-	5	-	1,7
VZ268	856268	III	170	139,719	A2-8	171,4	133,4	110	M12	17,5	210	44	21	5,6	19	6,7
VZ366	856366	II	220	106,375	A2-6	133,4	171,4	103,2	M16	13,5	-	28	15	5	28	5,8
VZ368	856368	I	220	139,719	A2-8	171,4	-	136	-	17,5	-	19	-	7	-	3,1
VZ3611	8563611	III	220	196,869	A2-11	235	171,4	140	M16	22	280	47	19	6	26	12,2
VZ468	856468	II	300	139,719	A2-8	171,4	235	136	M20	17,5	-	30	13,4	8	30	11,7
VZ4611	8564611	I	300	196,869	A2-11	235	-	192,5	-	22	-	30	-	8	-	8,2
VZ668	856668	II	380	139,719	A2-8	171,4	330,2	136	M24	17,5	-	40	22	8	40	28,7
VZ6611	8566611	II	380	196,869	A2-11	235	330,2	192,9	M24	22	-	40	18	8	40	23,1
VZ6615	8566615	I	380	285,775	A2-15	330,2	-	281,5	-	25	-	31	-	8	-	10,5
VZ6620	8566620	III	380	412,775	A2-20	463,6	330,2	250	M24	26	520	65	29	10	42	55
VZ8615	8568615	II	520	285,775	A2-15	330,2	463,6	281,5	M24	26	-	44	19	8	44	46
VZ8620	8568620	I	520	412,775	A2-20	463,6	-	408	-	26	-	26	-	8	-	15

ISO 702-3 [DIN 55027]
Kurzkegel mit Stehbolzen und Bundmutter (Bajonett)
Short taper spindle nose with Bayonet type



Flansch flange	Ident-Nr. ident no.	Typ type	B	BA	C	C1	D	D1	E	F	T	e	t	t1	Gewicht weight
			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
VZ175	856175	II	140	82,563	A2-5	104,8	79,6	M10	-		17		5	-	1,3
VZ176	856176	III	140	106,375	A2-6	104,8	85	M10	165		46		5,6	18	4,8
VZ178	856178	III	140	139,719	A2-8	104,8	85	M10	220		34		5,6	15	6
VZ275	856275	II	170	82,563	A2-5	133,4	79,6	M12	-		19		5	-	2,5
VZ276	856276	II	170	106,375	A2-6	133,4	103,2	M12	-		19		5	-	1,9
VZ278	856278	III	170	139,719	A2-8	133,4	100	M12	210		40		5,5	20	6,6
VZ376	856376	II	220	106,375	A2-6	171,4	103,2	M16	-		28		5	-	6,1
VZ378	856378	II	220	139,719	A2-8	171,4	136,2	M16	-		28		5	-	4,6
VZ478	856478	II	300	139,719	A2-8	235	136	M20	-		36		8	-	14,8
VZ4711	8564711	II	300	196,869	A2-11	235	192,5	M20	-		36		8	-	10,5
VZ6711	8566711	II	380	196,869	A2-11	330,2	192,5	M24	-		41		8	-	25,2
VZ6715	8566715	II	380	285,775	A2-15	330,2	281,5	M24	-		41		8	-	14,5
VZ8711	8568711	II	520	196,869	A2-11	463,6	192,5	M24	-		44		8	-	60
VZ8715	8568715	II	520	285,775	A2-15	463,6	281,5	M24	-		44		8	-	48,4
VZ8720	8568720	II	520	412,775	A2-20	463,6	408	M24	-		44		8	-	25

ISO 702-2 [DIN 55029]
Kurzkegel mit Camlock
Short taper spindle nose with Camlock type



Flansch flange	Ident-Nr. ident no.	Typ type	B	BA	C	C1	D	D1	E	F	T	e	t	t1	Gewicht weight
			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
VZ195	856195	III	140	82,563	A2-5	104,8	79,6	M10		170	48		5,6	18	5,9
VZ196	856196	III	140	106,375	A2-6	104,8	85	M10		180	52,5		5,6	18	6,7
VZ295	856295	II	170	82,563	A2-5	133,4	79,6	M12		-	30		5,6	19	3,7
VZ296	856296	III	170	106,375	A2-6	133,4	85	M12		180	55		5,6	19	7,3
VZ396	856396	II	220	106,375	A2-6	171,4	103,2	M16		-	34		8	34	7
VZ398	856398	II	220	139,719	A2-8	171,4	136,2	M16		-	56		8	28	8,8
VZ498	856498	II	300	139,719	A2-8	133,4	136,2	M20		-	38		8	38	15,3
VZ4911	8564911	II	300	196,869	A2-11	133,4	192,9	M20		-	52		8	36	14,9
VZ6911	8566911	II	380	196,869	A2-11	330,2	192,9	M24		-	43		8	43	26,2
VZ6915	8566915	II	380	285,775	A2-15	330,2	281,5	M24		-	50		8	50	17,5
VZ8920	8568920	III	520	412,775	A2-20	463,6	408	M24		546	52		8,5	52	37,2



Die perfekte Drehung Perfect turning

Sicher & flexibel

Herausragende Drehergebnisse und erhebliche Kostenersparnis!

Mit InoZet® machen Sie aus Ihrem herkömmlichen 3-Backenfutter im Handumdrehen ein extrem flexibles, ausgleichendes 6-Backenfutter.

- Aus dem 3-Backenfutter wird ein ausgleichendes 6-Backenfutter
- Ein Satz Spannbacken für den gesamten Futter-Spannbereich
- Ideal zur Bearbeitung von verformungsempfindlichen Bauteilen
- Herausragende Rundheitsergebnisse
- Sehr leichte Handhabung

Safe & flexible

Outstanding turning results and considerable cost savings!

InoZet® turns your conventional 3-jaw chuck into an extremely flexible, compensating 6-jaw chuck in next-to-no time.

- The 3-jaw chuck becomes a compensating 6-jaw chuck
- One set of jaws for the entire chuck clamping range
- Ideal for machining deformation sensitive parts
- Outstanding roundness results
- Easy to handle



Mit InoZet® Zeit und Geld sparen:

- Sie benötigen keine teuren Sondervorrichtungen mehr
- Minimale Rüstzeiten

Save time and money with InoZet®:

- No more need for expensive special fixtures
- Minimum tooling times

PATENT!



Maximale Flexibilität
Maximum flexibility

Ausgezeichnete Technik

Das innovative Spannsystem InoZet® wurde 2010 der Öffentlichkeit vorgestellt und auf der Nortec in Hamburg mit dem NORTEC Award ausgezeichnet.

Seitdem steigt die Zahl der Anwender stetig an. Insbesondere beim Spannen von verformungsempfindlichen Bauteilen, unrunder Rohteile oder Bauteilen mit Verzug durch thermische Behandlung, bietet das InoZet®-Spannsystem entscheidende Vorteile.

Mit InoZet® hat HWR es geschafft, einen neuen Stand der Technik zu definieren: Aus einem vorhandenen 3-Backenfutter wird im Handumdrehen ein ausgleichendes 6-Backenfutter. Durch die pendelnde Lagerung wirken die Pendelbrücken ausgleichend und ermöglichen so eine verformungsarme 6-Punkt-Spannung. Durch die Verdopplung der Backen wird der Spanndruck gleichmäßiger in das Werkstück eingeleitet und die Polygonbildung entscheidend verringert.



Outstanding technology

The innovative InoZet® clamping system was presented to the public in 2010 and received the NORTEC Award at Nortec in Hamburg.

Since then there has been a continuous increase in the number of users. The InoZet® clamping system offers crucial advantages particularly when clamping deformation-sensitive parts, out-of-round components or parts deformed by thermal treatment.

With InoZet®, HWR has redefined the state of the art: an existing 3-jaw chuck is turned into a compensating 6-jaw chuck in next-to-no time. The pendulum mechanism gives the pendulum bridges a compensating effect, thus permitting low-deformation 6-point clamping. Doubling the number of jaws ensures that the clamping pressure is introduced more evenly into the workpiece, with a crucial reduction in polygon formation.



Das Funktionsprinzip *How it works*

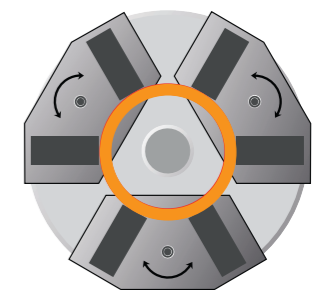
Die pendelnde Lagerung ermöglicht eine verformungsarme 6-Punkt Spannung.

The pendulum mechanism permits low-deformation 6-point clamping.



Herkömmliche 3-Punkt-Spannung

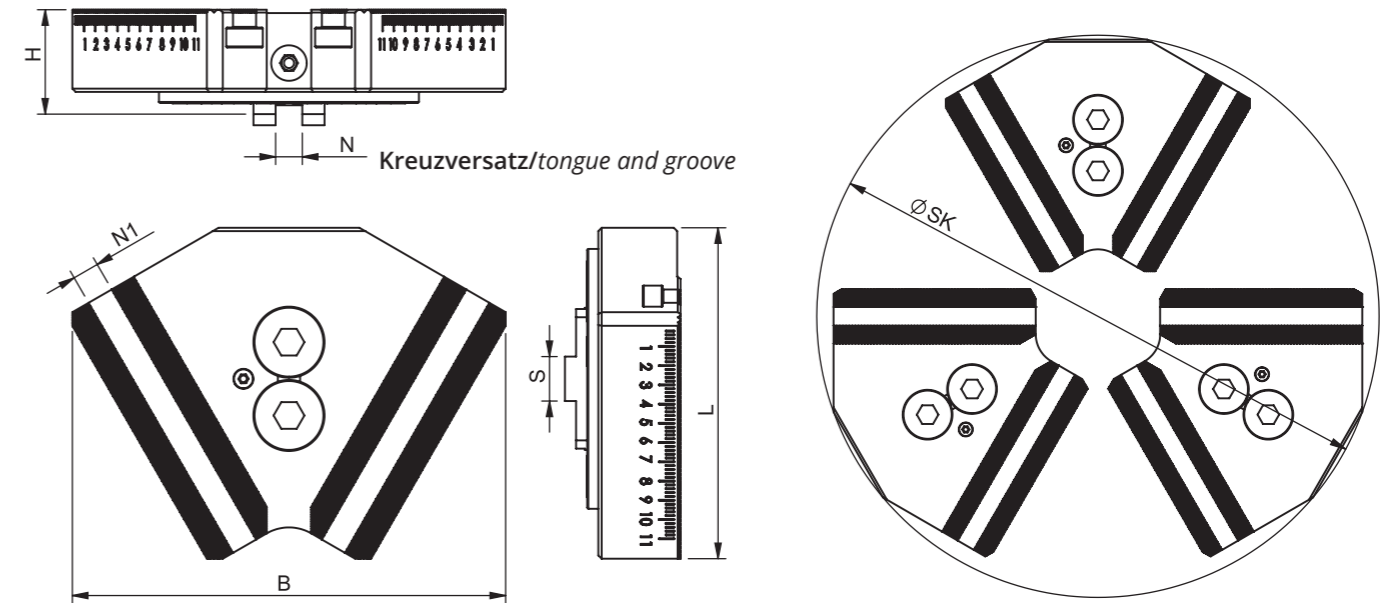
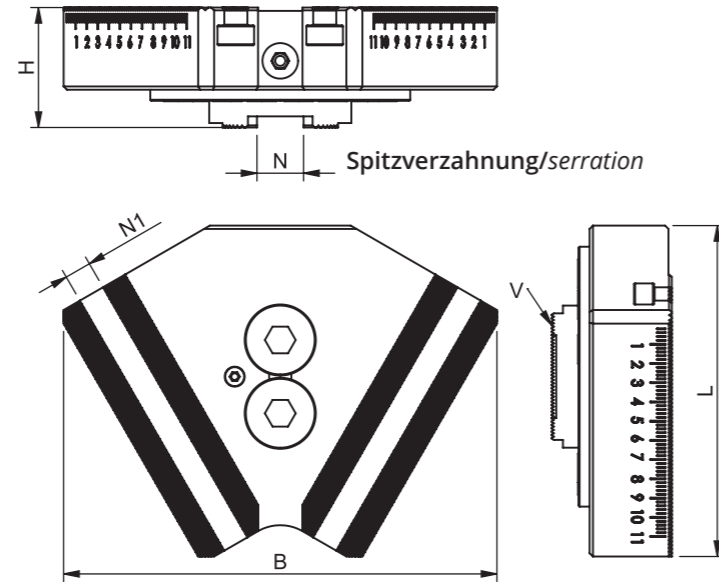
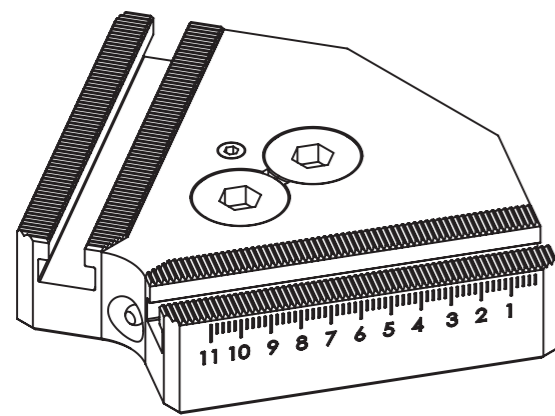
Conventional 3-point clamping



Die InoZet®-6-Punkt-Spannung

6-point clamping with InoZet®

Allgemeine Daten General data



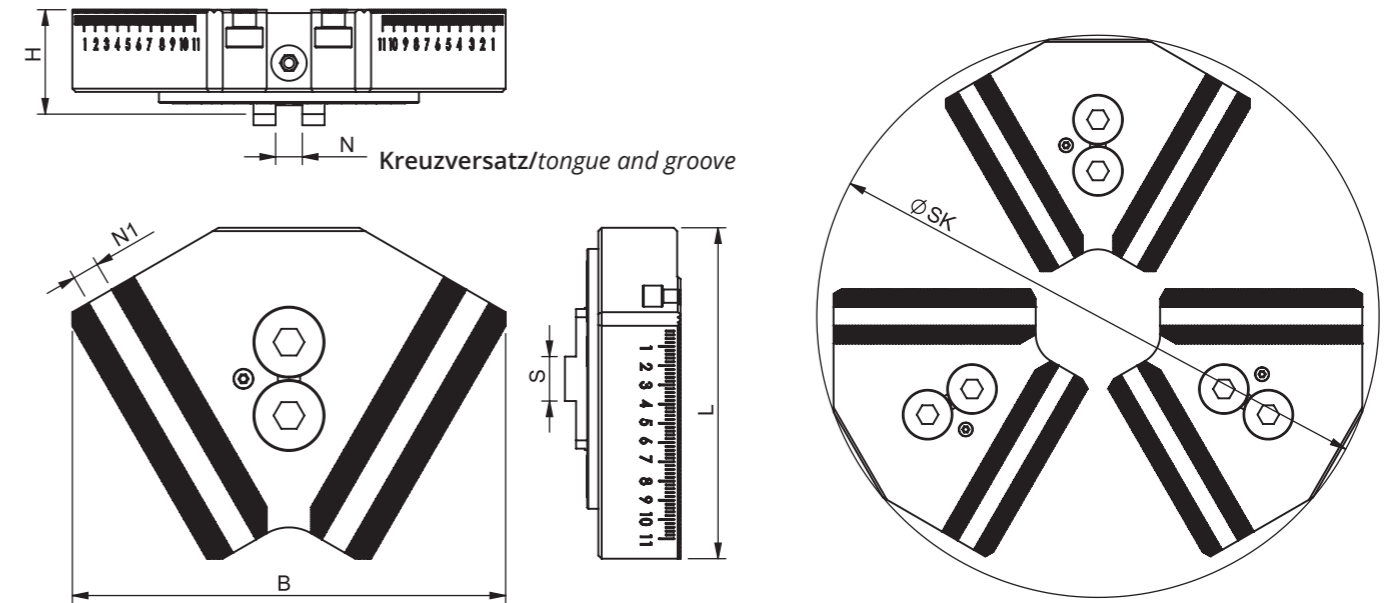
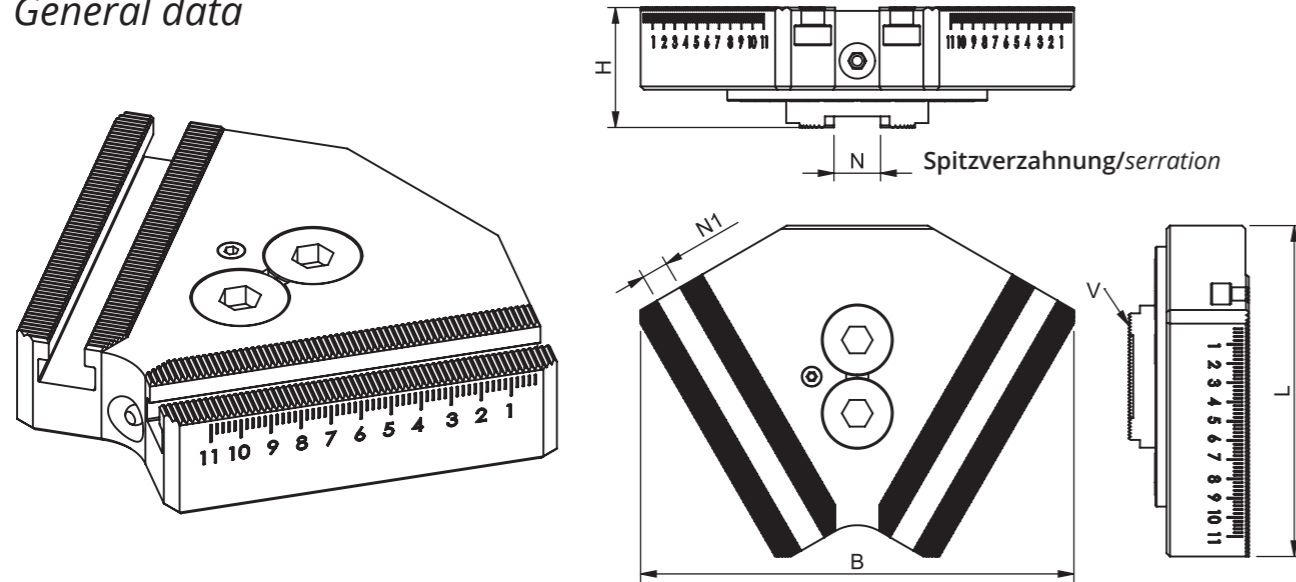
InoZet® InoZet®	Ident-Nr. ident no.	Spannbereich Grip range		Drehzahl rpm	Schwing- kreis ohne Backen swing without jaws	Breite width	Höhe ohne Backen height with- out jaws	Länge length	Ge- wicht/ Satz weight/ Set	Aufsatzbackenanschluss top-jaw connection	
		Außen- spannung external clamping	Innen- spannung internal clamping							Spitzver- zahnung serration	Nut- breite slot width
WT021-WV03	750114	50 - 210	110 - 210	2200	228	123	37,5	95	6,3	2mm x 60°	10
WT021-WV04	750098	50 - 210	110 - 210	2500	228	123	37,5	95	6,3	2mm x 60°	10
WT022-WK02	750045	50 - 225	110 - 225	2200	270	140	37,5	105	6,3	2mm x 60°	10
WT025-WK05	750057	60 - 250	134 - 250	2000	320	170	40	128	9,9	2mm x 60°	12
WT025-WV05	750058	60 - 250	134 - 250	2000	320	170	40	128	9,9	2mm x 60°	12
WT025-WV50	750059	60 - 250	134 - 250	2000	320	170	40	128	9,9	2mm x 60°	12
WT025-WV52	750101	60 - 250	134 - 250	2000	320	170	40	128	9,9	2mm x 60°	12
WT025-WV57	750162	60 - 250	134 - 250	2000	320	170	45	128	9,9	2mm x 60°	12
WT025-4-WV02	750163	63 - 260	123 - 260	*	262	120	44	95	8	2mm x 60°	10
WT031-WK10	750054	65 - 315	139 - 315	1300	380	195	47	149	15,6	2mm x 60°	12
WT031-21-WK15	750091	65 - 315	139 - 315	1300	390	200	47	162	17,7	2mm x 60°	12
WT031-WV10	750060	65 - 315	139 - 315	1300	380	195	49	149	15,6	2mm x 60°	12
WT031-WV17	750156	65 - 315	139 - 315	1300	380	195	54	149	15,6	2mm x 60°	12
WT031-WV62	750159	65 - 315	139 - 315	1300	380	195	54	149	15,6	2mm x 60°	12
WT031-WV67	750160	65 - 315	139 - 315	1300	380	195	56	149	15,6	2mm x 60°	12
WT031-4-WV05	750164	82 - 315	156 - 315	*	336	154	51	123	14,8	2mm x 60°	12
WT038-WV21	750157	70 - 380	158 - 380	1100	455	239	61	182	28,2	3,5mm x 60°	16
WT038-WV22	750131	70 - 380	158 - 380	1100	455	239	56	182	28,2	3,5mm x 60°	16
WT038-WV77	750130	70 - 380	158 - 380	1100	455	239	61	182	28,2	3,5mm x 60°	16
WT040-WK20	750137	70 - 400	158 - 400	1100	490	249	55	204	29,4	3,5mm x 60°	16
WT040-20-WK25	750138	70 - 450	158 - 400	1100	510	270	55	202	33,9	3,5mm x 60°	16
WT040-4-WV07	750177	90 - 400	178 - 400	*	440	196	56	161	23,6	3,5mm x 60°	16
WT040-4-WV17	750169	90 - 400	178 - 400	*	440	196	50	161	22,8	3,5mm x 60°	16

* siehe Bedienungsanleitung / see Operating Manual

InoZet® InoZet®	Ident-Nr. ident no.	Spannbereich Grip range		Drehzahl rpm	Schwing- kreis ohne Backen swing without jaws	Breite width	Höhe ohne Backen height with- out jaws	Länge length	Ge- wicht/ Satz weight/ Set	Aufsatzbackenanschluss top-jaw connection	
		Außen- spannung external clamping	Innen- spannung internal clamping							Spitzver- zahnung serration	Nut- breite slot width
WT040-4-WV88	750176	90 - 400	178 - 400	*	440	196	56	161	23,6	3,5mm x 60°	16
WT040-WV27	750139	70 - 400	158 - 400	1100	490	249	64	194	29,4	3,5mm x 60°	16
WT040-WV71	750140	70 - 400	158 - 400	1100	490	249	64	194	29,4	3,5mm x 60°	16
WT040-WV72	750132	70 - 400	158 - 400	1100	490	249	64	194	29,4	3,5mm x 60°	16
WT040-WV74	750133	70 - 400	158 - 400	1100	490	249	59	194	29,4	3,5mm x 60°	16
WT040-WV77	750161	70 - 400	158 - 400	1100	490	249	64	194	30,9	3,5mm x 60°	16
WT045-WK25	750138	70 - 450	168 - 450	1000	510	249	55	204	29,4	3,5mm x 60°	16
WT045-WV32	750158	80 - 450	168 - 450	1000	510	270	59	202	32,7	3,5mm x 60°	16
WT045-WV35	750143	80 - 450	168 - 450	1000	510	270	64	202	32,7	3,5mm x 60°	16
WT045-WV80	750144	80 - 450	168 - 450	1000	510	270	64	202	32,7	3,5mm x 60°	16
WT050-WK30	750070	85 - 500	179 - 500	800	580	302	89	223	52,8	3,5mm x 60°	21
WT050-WK32	750071	85 - 500	179 - 500	800	580	302	89	223	52,8	3,5mm x 60°	21
WT050-WK34	705106	85 - 500	179 - 500	800	580	302	89	223	52,8	3,5mm x 60°	21
WT050-4-WV19	750170	115 - 500	203 - 500	*	540	230	56	178	31,2	3,5mm x 60°	16
WT050-WV39	750127	85 - 500	179 - 500	800	580	302	89	223	52,8	3,5mm x 60°	21
WT050-WV85	750056	85 - 500	179 - 500	800	580	302	68	223	52,8	3,5mm x 60°	21
WT050-WV86	750150	85 - 500	179 - 500	800	580	302	68	223	52,8	3,5mm x 60°	21
WT053-WV40	750072	100 - 530	194 - 530	780	595	318	71	225	57,9	3,5mm x 60°	21
WT053-WV41	750125	100 - 530	194 - 530	780	595	318	71	225	57,9	3,5mm x 60°	21
WT063-WK35	750075	170 - 630	264 - 630	650	700	373	70	249	72	3,5mm x 60°	21
WT063-WK37	750076	170 - 630	264 - 630	650	700	373	70	249	72	3,5mm x 60°	21
WT063-WK38	750116	170 - 630	264 - 630	650	700	373	70	249	72	3,5mm x 60°	21
WT063-WK40	750077	170 - 630	264 - 630	650	700	373	70	249	72	3,5mm x 60°	21

* siehe Bedienungsanleitung / see Operating Manual

Allgemeine Daten General data



InoZet® InoZet®	Ident-Nr. ident no.	Spannbereich Grip range		Drehzahl rpm	Schwing- kreis ohne Backen swing without jaws	Breite width	Höhe ohne Backen height with- out jaws	Länge length	Ge- wicht/ Satz weight/ Set	Aufsatzbackenanschluss top-jaw connection	
		Außen- spannung external clamping	Innen- spannung internal clamping							Spitzver- zahnung serration	Nut- breite slot width
WT063-4-WV23	750152	182 - 630	270 - 630	650	670	280	61	205	54,8	3,5mm x 60°	16
WT063-4-WV24	750179	182 - 630	270 - 630	*	670	280	61	205	54,8	3,5mm x 60°	16
WT063-4-WV25	750180	182 - 630	270 - 630	*	670	280	61	280	54	3,5mm x 60°	16
WT063-WV42	750094	170 - 630	264 - 630	650	700	373	74	249	72	3,5mm x 60°	21
WT063-WV90	750051	170 - 630	264 - 630	650	700	373	74	249	72	3,5mm x 60°	21
WT063-WV92	750074	170 - 630	264 - 630	650	700	373	74	249	72	3,5mm x 60°	21
WT070-4-WV89	750173	250 - 700	294 - 700	*	745	314	68	234	86	3,5mm x 60°	16
WT080-WK45	750082	250 - 800	304 - 800	450	880	458	74	288	108,6	3,5mm x 60°	25
WT080-WK47	750102	250 - 800	304 - 800	450	880	458	74	288	108,6	3,5mm x 60°	25
WT080-WK50	750050	250 - 800	304 - 800	450	880	458	74	288	108,6	3,5mm x 60°	25
WT080-WK55	750083	250 - 800	304 - 800	450	880	458	74	288	108,6	3,5mm x 60°	25
WT080-4-WV42	750165	250 - 800	344 - 800	*	830	345	74	268	103,6	3,5mm x 60°	21
WT080-WV45	750081	250 - 800	362 - 800	450	880	458	77	288	108,6	3,5mm x 60°	25
WT080-WV46	750080	250 - 800	362 - 800	450	880	458	77	288	108,6	3,5mm x 60°	25
WT080-WV91	750135	250 - 800	362 - 800	450	880	458	77	288	108,6	3,5mm x 60°	25
WT080-WV94	750079	250 - 800	362 - 800	450	880	458	77	288	108,6	3,5mm x 60°	25
WT080-WV95	750078	250 - 800	362 - 800	450	880	458	77	288	108,6	3,5mm x 60°	25
WT100-4-WV48	750182	470 - 1000	582 - 1000	*	1055	442	77	270	146,4	3,5mm x 60°	25
WT100-WK59	750126	470 - 1000	582 - 1000	450	1055	558	74	286	138	3,5mm x 60°	25
WT100-WK65	750087	470 - 1000	582 - 1000	450	1055	558	74	286	138	3,5mm x 60°	25
WT100-WK67	750145	470 - 1000	582 - 1000	450	1055	558	78	286	138	3,5mm x 60°	25
WT100-4-WV83	750178	470 - 1000	582 - 1000	*	1155	442	80	270	146,4	3,5mm x 60°	25
WT100-WV96	750052	470 - 1000	582 - 1000	450	1055	558	82	286	138	3,5mm x 60°	25

* siehe Bedienungsanleitung / see Operating Manual

InoZet® InoZet®	Ident-Nr. ident no.	Spannbereich Grip range		Drehzahl rpm	Schwing- kreis ohne Backen swing without jaws	Breite width	Höhe ohne Backen height with- out jaws	Länge length	Ge- wicht/ Satz weight/ Set	Aufsatzbackenanschluss top-jaw connection	
		Außen- spannung external clamping	Innen- spannung internal clamping							Spitzver- zahnung serration	Nut- breite slot width
WT100-WV97	750084	470 - 1000	582 - 1000	450	1055	558	82	286	138	3,5mm x 60°	25
WT120-4-WV48	750183	612 - 1150	612 - 1150	*	1200	500	80	281	172	3,5mm x 60°	25
WT120-4-WV83	750181	500 - 1200	612 - 1200	*	1300	500	80	281	172	3,5mm x 60°	25
WT125-WK64	750128	700 - 1250	812 - 1250	300	1300	695	74	287	177	3,5mm x 60°	25
WT125-WK65	750030	700 - 1250	812 - 1250	300	1300	695	74	287	177	3,5mm x 60°	25
WT125-WK67	750146	700 - 1250	812 - 1250	300	1300	695	74	287	177	3,5mm x 60°	25
WT125-WV96	750088	700 - 1250	812 - 1250	300	1300	695	82	287	177	3,5mm x 60°	25
WT125-WV97	750089	700 - 1250	812 - 1250	300	1300	695	82	287	177	3,5mm x 60°	25

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Futterspezifische Daten Chuck specific data



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoZet® Typ- bezeichnung InoZet® type	Ident-Nr. ident no.	** InoZet® Nutenstein *** InoZet® Grundbacke ** InoZet® T-Nut *** InoZet® Base-Jaw
			S [mm] / V	N [mm]			
Auto Strong	210	N-208	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN12
Auto Strong	210	V-208	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN10
Auto Strong	254	N-210	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP11
Auto Strong	254	V-210	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP10
Auto Strong	304	N-212	V = 1,5mm x 60°	N = 21	WT031-WV17	750156	WN30
Auto Strong	304	V-212	V = 1,5mm x 60°	N = 18	WT031-WV10	750060	GP12
Auto Strong	381	N-215	V = 1,5mm x 60°	N = 22	WT038-WV21	750157	X5507
Auto Strong	381	V-215	V = 1,5mm x 60°	N = 22	WT038-WV21	750157	X5507
Auto Strong	450	N-218	V = 1,5mm x 60°	N = 22	WT045-WV32	750158	GP15
Auto Strong	450	V-218	V = 1,5mm x 60°	N = 22	WT045-WV32	750158	X5507
Auto Strong	510	N-220	V = 3mm x 60°	N = 25	WT053-WV40	750072	GP21
Auto Strong	610	N-224	V = 3mm x 60°	N = 25	WT063-WV42	750094	GP21
Auto Strong	610	V-224	V = 3mm x 60°	N = 25	WT063-WV42	750094	GP21
Auto Strong	810	V-232	V = 3mm x 60°	N = 25	WT080-WV46	750080	GP21
Berg	250	KH 250	V = 1/16" x 90°	N = 16	WT025-WV52	750101	WN25
Berg	315	KH 315	V = 1/16" x 90°	N = 16	WT031-WV67	750160	GB16/GC16S
Berg	400	KH 400	V = 3/32" x 90°	N = 20	WT040-WV72	750132	**
Berg	500	KH 500	V = 3/32" x 90°	N = 20	WT050-WV86	750150	**
Bison	200	3200 / 3500 - 200	S = 10mm	N = 16	WT022-WK02	750045	***
Bison	250	3200 / 3500 - 250	S = 12mm	N = 20	WT025-WK05	750057	***
Bison	315	3200 / 3500 - 315	S = 12mm	N = 20	WT031-WK10	750054	***
Bison	400	3200 / 3500 - 400	S = 12mm	N = 26	WT040-WK20	750137	X8936
Bison	500	3200 / 3500 - 500	S = 12,7mm	N = 19,03	WT050-WK34	705106	
Bison	630	3200 / 3500 - 630	S = 12,7mm	N = 19,03	WT063-WK38	750116	
Bison	800	3200 / 3500 - 800	S = 12,7mm	N = 19,05	WT080-WK47	750102	
Forkardt	200	F+ 200	S = 10mm	N = 20	WT022-WK02	750045	MFI 200
Forkardt	200	FNC 200	S = 10mm	N = 20	WT022-WK02	750045	MFI 200
Forkardt	200	KS 200	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GN50
Forkardt	200	KTHS 200	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GN30
Forkardt	200	KTN/G 200	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GN50
Forkardt	200	NH/NHF 200	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GN50
Forkardt	200	QLC/K 200	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	GF17
Forkardt	200	QLC/K-KS 200	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GN50
Forkardt	250	F+ 250	S = 12mm	N = 20	WT025-WK05	750057	
Forkardt	250	FNC 250	S = 12mm	N = 20	WT025-WK05	750057	

Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoZet® Typ- bezeichnung InoZet® type	Ident-Nr. ident no.	** InoZet® Nutenstein *** InoZet® Grundbacke ** InoZet® T-Nut *** InoZet® Base-Jaw
			S [mm] / V	N [mm]			
Forkardt	250	KG 250	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GN25
Forkardt	250	KL 250	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GN25
Forkardt	250	KS 250	V = 1/16" x 90°	N = 17	WT025-WV50	750059	GN16
Forkardt	250	KSH 250	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GN25
Forkardt	250	KTN/G 250	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GN25
Forkardt	250	KTNC 250	S = 12mm	N = 20	WT025-WK05	750057	
Forkardt	250	NH/NHF 250	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GN25
Forkardt	250	QLC/ QLK 250	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP11
Forkardt	250	QLC/K 250	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GN25
Forkardt	250	QLC/K-KS 250	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	
Forkardt	250	QLC/K-KS 250	V = 1/16" x 90°	N = 17	WT025-WV50	750059	GN16
Forkardt	315	F+ 315	S = 12mm	N = 26	WT031-21-WK15	750091	
Forkardt	315	FNC 315	S = 12mm	N = 20	WT031-WK10	750054	
Forkardt	315	KG 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GN25
Forkardt	315	KSH 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GN25
Forkardt	315	KTN/G 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GN25
Forkardt	315	KTNC 315	S = 12mm	N = 20	WT031-WK10	750054	
Forkardt	315	NH/NHF 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GN25
Forkardt	315	QLC / K 315	V = 1,5mm x 60°	N = 21	WT031-WV17	750156	WN30
Forkardt	315	QLC/K 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GN25
Forkardt	400	F+ 400	S = 18mm	N = 30	WT040-20-WK25	750138	
Forkardt	400	FNC 400	S = 12mm	N = 26	WT031-21-WK15	750091	
Forkardt	400	FNC 400	S = 12mm	N = 26	WT040-WK20	750137	
Forkardt	400	KG 400	V = 3/32" x 90°	N = 25,5	WT040-WV77	750161	GN40
Forkardt	400	KL 400	V = 3/32" x 90°	N = 25,5	WT040-WV77	750161	GN40
Forkardt	400	KS 400	V = 1/16" x 90°	N = 21	WT040-WV71	750140	GN25
Forkardt	400	KSH 400	V = 1/16" x 90°	N = 21	WT040-WV71	750140	GN25
Forkardt	400	KTN/G 400	V = 3/32" x 90°	N = 25,5	WT040-WV77	750161	GN40
Forkardt	400	KTNC 400	S = 12mm	N = 26	WT031-21-WK15	750091	
Forkardt	400	KTNC 400	S = 12mm	N = 26	WT040-WK20	750137	
Forkardt	400	NHF 400	V = 1/16" x 90°	N = 21	WT040-WV71	750140	*
Forkardt	400	NHF 400	V = 3/32" x 90°	N = 25,5	WT040-WV77	750161	GN40
Forkardt	400	QLC / K -KS 400	V = 1,5mm x 60°	N = 21	WT040-WV27	750139	GN25
Forkardt	400	QLC / K 400	V = 1,5mm x 60°	N = 21	WT040-WV27	750139	GN25
Forkardt	400	QLC /K 400	V = 1/16" x 90°	N = 21	WT040-WV71	750140	GN25
Forkardt	400	QLC/K 400	V = 3/32" x 90°	N = 25,5	WT040-WV77	750161	GN40
Forkardt	400	QLC/K-KS 400	V = 1/16" x 90°	N = 21	WT040-WV71	750140	GN25
Forkardt	500	F+ 500	S = 18mm	N = 30	WT050-WK30	750070	

Futterspezifische Daten Chuck specific data

Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoZet® Typ- bezeichnung InoZet® type	Ident-Nr. ident no.	** InoZet® Nutenstein *** InoZet® Grundbacke ** InoZet® T-Nut *** InoZet® Base-Jaw
			S [mm] / V	N [mm]			
Forkardt	500	FNC 500	S = 18mm	N = 30	WT040-20-WK25	750138	
Forkardt	500	FNC 500	S = 18mm	N = 30	WT050-WK30	750070	
Forkardt	500	KG 500	V = 3/32" x 90°	N = 25,5	WT050-WV85	750056	GN40
Forkardt	500	KL 500	V = 3/32" x 90°	N = 25,5	WT050-WV85	750056	GN40
Forkardt	500	KS 500	V = 3/32" x 90°	N = 25,5	WT050-WV85	750056	GN40
Forkardt	500	KSH 500	V = 3/32" x 90°	N = 25,5	WT050-WV85	750056	GN40
Forkardt	500	KTN/G 500	V = 3/32" x 90°	N = 25,5	WT050-WV85	750056	GN40
Forkardt	500	KTNC 500	S = 18mm	N = 30	WT050-WK30	750070	
Forkardt	500	NHF 500	V = 3/32" x 90°	N = 25,5	WT050-WV85	750056	GN40
Forkardt	630	F+ 630	S = 24mm	N = 40	WT063-WK40	750077	
Forkardt	630	FNC 630	S = 18mm	N = 30	WT063-WK35	750075	
Forkardt	630	KS 630	V = 3/32" x 90°	N = 25,5	WT063-WV90	750051	GN40
Forkardt	630	KTN/G 630	V = 3/32" x 90°	N = 25,5	WT063-WV90	750051	GN40
Forkardt	630	NHF 630	V = 3/32" x 90°	N = 25,5	WT063-WV90	750051	GN40
Forkardt	800	KS 800	V = Modul 2	N = 30	WT080-WV91	750135	
Forkardt	1000	KS 1000	V = Modul 2	N = 30	WT100-WV97	750084	
Forkardt	1250	KS 1250	V = Modul 2	N = 30	WT125-WV97	750089	
HWR	260	VD026	V = 1,5mm x 60°	N = 16	WT025-4-WV02	750163	WN26
HWR	260	VK026	V = 1,5mm x 60°	N = 16	WT025-4-WV02	750163	WN26
HWR	260	VT026	V = 1,5mm x 60°	N = 16	WT025-4-WV02	750163	WN26
HWR	315	VD031	V = 1,5mm x 60°	N = 16	WT031-4-WV05	750164	GP11
HWR	315	VK031	V = 1,5mm x 60°	N = 16	WT031-4-WV05	750164	GP11
HWR	315	VT031	V = 1,5mm x 60°	N = 16	WT031-4-WV05	750164	GP11
HWR	400	VD040	V = 1,5mm x 60°	N = 21	WT040-4-WV17	750169	WN30
HWR	400	VK040	V = 1,5mm x 60°	N = 21	WT040-4-WV17	750169	WN30
HWR	400	VT040	V = 1,5mm x 60°	N = 21	WT040-4-WV17	750169	WN30
HWR	420	VL042	V = 1,5mm x 60°	N = 21	WT040-4-WV07	750177	GP11
HWR	500	VD050	V = 3mm x 60°	N = 25	WT050-4-WV19	750170	WN50
HWR	500	VK050	V = 3mm x 60°	N = 25	WT050-4-WV19	750170	WN50
HWR	500	VT050	V = 3mm x 60°	N = 25	WT050-4-WV19	750170	WN50
HWR	600	VL060	V = Modul 2	N = 16	WT063-4-WV24	750179	GP11
HWR	630	VD063	V = 3mm x 60°	N = 25	WT063-4-WV23	750152	WN50
HWR	630	VK063	V = 3mm x 60°	N = 25	WT063-4-WV23	750152	WN50
HWR	630	VT063	V = 3mm x 60°	N = 25	WT063-4-WV23	750152	WN50
HWR	700	VL070	V = Modul 2	N = 16	WT040-4-WV88	750176	GP11
HWR	700	VL070	V = Modul 2	N = 16	WT070-4-WV89	750173	TT70
HWR	800	VD080	V = 3mm x 60°	N = 25	WT063-4-WV23	750152	WN50



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoZet® Typ- bezeichnung InoZet® type	Ident-Nr. ident no.	** InoZet® Nutenstein *** InoZet® Grundbacke ** InoZet® T-Nut *** InoZet® Base-Jaw
			S [mm] / V	N [mm]			
HWR	800	VD080	V = 3mm x 60°	N = 25	WT080-4-WV42	750165	GP21
HWR	800	VK080	V = 3mm x 60°	N = 25	WT063-4-WV23	750152	WN50
HWR	800	VK080	V = 3mm x 60°	N = 25	WT080-4-WV42	750165	GP21
HWR	990	VD100	V = 3mm x 60°	N = 25	WT100-4-WV48	750182	GP21
HWR	990	VL100	V = Modul 2	N = 21	WT063-4-WV25	750180	TT65
HWR	990	VL100	V = Modul 2	N = 21	WT100-4-WV83	750178	TT65
HWR	1150	VD120	V = 3mm x 60°	N = 25	WT120-4-WV48	750183	GP21
HWR	1150	VL120	V = Modul 2	N = 21	WT063-4-WV25	750180	TT65
HWR	1150	VL120	V = Modul 2	N = 21	WT120-4-WV83	750180	TT65
Kitagawa	210	B 08	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN10
Kitagawa	210	B 208	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN12
Kitagawa	210	BB 208	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN12
Kitagawa	210	N 08	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN10
Kitagawa	254	B 10	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP10
Kitagawa	254	B 210	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP11
Kitagawa	254	BB 210	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP11
Kitagawa	254	HOH 10K	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP11
Kitagawa	254	N10	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP10
Kitagawa	304	B 12	V = 1,5mm x 60°	N = 18	WT031-WV10	750060	GP12
Kitagawa	304	B-212	V = 1,5mm x 60°	N = 21	WT031-WV17	750156	WN30
Kitagawa	304	HOH 12K	V = 1,5mm x 60°	N = 18	WT031-WV10	750060	WN31
Kitagawa	304	N 12	V = 1,5mm x 60°	N = 18	WT031-WV10	750060	GP12
Kitagawa	315	BB-212	V = 1,5mm x 60°	N = 21	WT031-WV17	750156	WN32
Kitagawa	381	B 15	V = 1,5mm x 60°	N = 22	WT038-WV21	750157	GP15
Kitagawa	381	B 215	V = 1,5mm x 60°	N = 22	WT038-WV21	750157	X5507
Kitagawa	381	HOH 15	V = 1,5mm x 60°	N = 22	WT038-WV21	750157	GP15
Kitagawa	381	N 15	V = 1,5mm x 60°	N = 22	WT038-WV21	750157	X5507
Kitagawa	450	B-18	V = 1,5mm x 60°	N = 22	WT045-WV32	750158	GP15
Kitagawa	450	N-18	V = 1,5mm x 60°	N = 22	WT045-WV32	750158	X5507
Kitagawa	530	B-21	V = 3mm x 60°	N = 25	WT053-WV40	750072	GP21
Kitagawa	530	N-21	V = 3mm x 60°	N = 25	WT053-WV40	750072	GP21
Kitagawa	610	B-24	V = 3mm x 60°	N = 25	WT063-WV42	750094	GP21
Kitagawa	610	N-24	V = 3mm x 60°	N = 25	WT063-WV42	750094	GP21
Kitagawa	610	NV-24	V = 3mm x 60°	N = 25	WT063-WV42	750094	GP21
Kitagawa	700	NV-28	V = 3mm x 60°	N = 25	WT063-WV42	750094	GP21
Röhm	200	DURO 200	S = 10mm	N = 20	WT022-WK02	750045	MFI 200

Futterspezifische Daten Chuck specific data

Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoZet® Typ- bezeichnung InoZet® type	Ident-Nr. ident no.	** InoZet® Nutenstein *** InoZet®- Grundbacke ** InoZet® T-Nut *** InoZet® Base-Jaw
			S [mm] / V	N [mm]			
Röhm	200	DURO NC 200	S = 10mm	N = 20	WT022-WK02	750045	MFI 200
Röhm	200	DURO NCSE 200	S = 10mm	N = 20	WT022-WK02	750045	GBI 20
Röhm	200	DURO T 200	S = 10mm	N = 20	WT022-WK02	750045	MFI 200
Röhm	200	KFD 200	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GE30
Röhm	200	KFD-AF 200	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GE30
Röhm	200	KFD-F-EC 200	V = 1/16" x 90°	N = 17	WT021-WV03	750114	**
Röhm	200	KFD-HS 200	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GE30
Röhm	200	LVE 200	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GF30
Röhm	200	ZG/ZS 200	S = 10mm	N = 16	WT022-WK02	750045	X8754
Röhm	210	DURO NCSE 210	S = 10mm	N = 20	WT022-WK02	750045	GBI 20
Röhm	210	KFD-HE 210	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GE30
Röhm	210	KFD-HE 210	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	**
Röhm	225	DURO NCSE 225	S = 10mm	N = 20	WT022-WK02	750045	GBI 20
Röhm	250	DURO 250	S = 12mm	N = 20	WT025-WK05	750057	
Röhm	250	DURO NC 250	S = 12mm	N = 20	WT025-WK05	750057	
Röhm	250	DURO NCES 250	S = 12mm	N = 20	WT025-WK05	750057	
Röhm	250	DURO T 250	S = 12mm	N = 20	WT025-WK05	750057	
Röhm	250	KFD 250	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GE25
Röhm	250	KFD-F-EC 250	V = 1/16" x 90°	N = 21	WT025-WV57	750162	**
Röhm	250	KFD-HE 250	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP11
Röhm	250	KFD-HE 250	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GE25
Röhm	250	KFD-HS 250	V = 1/16" x 90°	N = 17	WT025-WV50	750059	GE21/17
Röhm	250	LVE 250	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GE25
Röhm	250	ZG/ZS 250	S = 12mm	N = 20	WT025-WK05	750057	X8751
Röhm	260	DURO NCSE 260	S = 12mm	N = 20	WT025-WK05	750057	
Röhm	265	DURO NCSE 265	S = 12mm	N = 20	WT025-WK05	750057	
Röhm	315	DURO 315	S = 12mm	N = 26	WT031-21-WK15	750091	
Röhm	315	DURO NC 315	S = 12mm	N = 26	WT031-21-WK15	750091	
Röhm	315	DURO NCES 315	S = 12mm	N = 20	WT031-WK10	750054	
Röhm	315	DURO NCSE 315	S = 12mm	N = 26	WT031-WK10	750054	
Röhm	315	DURO T 315	S = 12mm	N = 26	WT031-21-WK15	750091	
Röhm	315	KFD 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GE25
Röhm	315	KFD-F-EC 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	**
Röhm	315	KFD-HE 315	V = 1,5mm x 60°	N = 21	WT031-WV17	750156	GE25
Röhm	315	KFD-HE 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GE25
Röhm	315	KFD-HS 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GE25
Röhm	315	LVE 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GE25
Röhm	315	ZG/ZS 315	S = 12mm	N = 20	WT031-WK10	750054	X8603



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoZet® Typ- bezeichnung InoZet® type	Ident-Nr. ident no.	** InoZet® Nutenstein *** InoZet®- Grundbacke ** InoZet® T-Nut *** InoZet® Base-Jaw
			S [mm] / V	N [mm]			
Röhm	350	ZG/ZS 350	S = 12mm	N = 20	WT031-WK10	750054	***
Röhm	350	ZG/ZS 400	S = 12mm	N = 20	WT031-WK10	750054	***
Röhm	400	DURO 400	S = 18mm	N = 30	WT040-20-WK25	750138	
Röhm	400	DURO NC 400	S = 18mm	N = 30	WT040-20-WK25	750138	
Röhm	400	DURO NCES 400	S = 12mm	N = 26	WT040-WK20	750137	
Röhm	400	DURO NCSE 400	S = 12mm	N = 26	WT040-WK20	750137	
Röhm	400	DURO T 400	S = 18mm	N = 30	WT040-20-WK25	750138	
Röhm	400	KFD 400	V = 3/32" x 90°	N = 25,5	WT040-WV77	750161	GE40
Röhm	400	KFD-F-EC 400	V = 3/32" x 90°	N = 25,5	WT040-WV77	750161	**
Röhm	400	KFD-HE 400	V = 3/32" x 90°	N = 25,5	WT040-WV77	750161	GE40
Röhm	400	KFD-HS 400	V = 3/32" x 90°	N = 25,5	WT040-WV77	750161	GE40
Röhm	400	ZG/ZS 350	S = 12mm	N = 26	WT040-WK20	750137	***
Röhm	400	ZG/ZS 400	S = 12mm	N = 26	WT040-WK20	750137	***
Röhm	500	DURO 500	S = 18mm	N = 30	WT050-WK30	750070	
Röhm	500	DURO NC 500	S = 18mm	N = 30	WT050-WK30	750070	
Röhm	500	DURO NCSE 500	S = 18mm	N = 30	WT050-WK30	750070	
Röhm	500	DURO T 500	S = 18mm	N = 30	WT050-WK30	750070	
Röhm	500	KFD 500	V = 3/32" x 90°	N = 25,5	WT050-WV85	750056	GE40
Röhm	500	KFD-HE 500	V = 3/32" x 90°	N = 25,5	WT050-WV85	750056	**
Röhm	500	KFD-HS 500	V = 3/32" x 90°	N = 25,5	WT050-WV85	750056	GE40
Röhm	500	LVE 570	V = 3/32" x 90°	N = 25,5	WT063-WV90	750051	GE40
Röhm	500	ZG/ZS 500	S = 12,7mm	N = 19,03	WT050-WK34	705106	
Röhm	630	DURO 630	S = 24mm	N = 40	WT063-WK40	750077	
Röhm	630	DURO NC 630	S = 24mm	N = 40	WT063-WK40	750077	
Röhm	630	DURO NCSE 630	S = 18mm	N = 30	WT063-WK35	750075	
Röhm	630	DURO T 630	S = 24mm	N = 40	WT063-WK40	750077	
Röhm	630	KFD 630	V = 3/32" x 90°	N = 25,5	WT063-WV90	750051	GE40
Röhm	630	ZG/ZS 630	S = 12,7mm	N = 19,03	WT063-WK38	750116	
Röhm	800	DURO 800	S = 24mm	N = 40	WT080-WK50	750050	
Röhm	800	KFD 800	V = 3/32" x 90°	N = 25,5	WT080-WV95	750078	GE40
Röhm	800	LVE 800	V = 3/32" x 90°	N = 30	WT080-WV94	750079	**
Röhm	800	ZG/ZS 800	S = 12,7mm	N = 19,05	WT080-WK47	750102	
Röhm	1000	KFD 1000	V = Modul 2	N = 30	WT100-WV97	750084	
Röhm	1000	ZGU/ZSU 1000	S = 12,7mm	N = 19,03	WT100-WK59	750126	
Röhm	1250	DURO 1250	S = 24mm	N = 40	WT125-WK65	750030	
Röhm	1250	KFD 1250	V = Modul 2	N = 30	WT125-WV97	750089	
Röhm	1250	ZS 1250	S = 12,7mm	N = 19,03	WT125-WK64	750128	

Futterspezifische Daten Chuck specific data



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoZet® Typ- bezeichnung InoZet® type	Ident-Nr. ident no.	** InoZet® Nutenstein *** InoZet® Grundbacke ** InoZet® T-Nut *** InoZet® Base-Jaw
			S [mm] / V	N [mm]			
Samchully	210	HC-08	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN10
Samchully	210	HCH-08	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN10
Samchully	210	HH-208	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN12
Samchully	210	HS-08	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN12
Samchully	210	MH-208	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN12
Samchully	254	HC-10	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP10
Samchully	254	HCH-10	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP10
Samchully	254	HH-210/ MH-210	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP11
Samchully	254	HS-10	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP11
Samchully	304	HC-12	V = 1,5mm x 60°	N = 18	WT031-WV10	750060	WN31
Samchully	304	HCH-12	V = 1,5mm x 60°	N = 18	WT031-WV10	750060	WN31
Samchully	304	HS-12	V = 1,5mm x 60°	N = 21	WT031-WV17	750156	WN30
Samchully	315	HH-212/ MH-212	V = 1,5mm x 60°	N = 21	WT031-WV17	750156	WN30
Samchully	381	HC-15	V = 1,5mm x 60°	N = 22	WT038-WV21	750157	X5507
Samchully	381	HCH-15	V = 1,5mm x 60°	N = 22	WT038-WV21	750157	GP15
Samchully	450	HC-18	V = 1,5mm x 60°	N = 22	WT045-WV32	750158	X5507
Samchully	450	HCH-18	V = 1,5mm x 60°	N = 22	WT045-WV32	750158	GP15
Samchully	457	HCH-18 B	V = 1,5mm x 60°	N = 22	WT045-WV32	750158	GP15
Samchully	457	MH-218	V = 3mm x 60°	N = 22	WT045-WV35	750143	GP15
Samchully	530	HC-21	V = 3mm x 60°	N = 25	WT053-WV40	750072	GP21
Samchully	530	HCH-21	V = 3mm x 60°	N = 25	WT053-WV40	750072	GP21
Samchully	530	HCH-21 B	V = 3mm x 60°	N = 25	WT053-WV40	750072	GP21
Samchully	530	MH-221	V = 3mm x 60°	N = 25	WT053-WV40	750072	GP21
Samchully	610	HC-24	V = 3mm x 60°	N = 25	WT063-WV42	750094	GP21
Samchully	610	HCH-24	V = 3mm x 60°	N = 25	WT063-WV42	750094	GP21
Samchully	800	HC-32	S = 19,025mm	N = 12,7	WT080-WK55	750083	
Samchully	800	HC-32	V = 3mm x 60°	N = 25,5	WT080-WV45	750081	**
Samchully	800	HCH-32	V = 3mm x 60°	N = 25,5	WT080-WV45	750081	**
Schunk	200	ROTA G 200	S = 10mm	N = 20	WT022-WK02	750045	GBI 20
Schunk	200	ROTA S plus 200	S = 10mm	N = 20	WT022-WK02	750045	MFI 200
Schunk	210	ROTA NC 210	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN10
Schunk	210	ROTA NC 210-52	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GF30
Schunk	210	ROTA NCD 210	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GN50
Schunk	210	ROTA NCF 210	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN10
Schunk	210	ROTA NCF 210-52	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GF30
Schunk	210	ROTA NCF plus 210	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN12
Schunk	210	ROTA NCK 210	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN12

Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoZet® Typ- bezeichnung InoZet® type	Ident-Nr. ident no.	** InoZet® Nutenstein *** InoZet® Grundbacke ** InoZet® T-Nut *** InoZet® Base-Jaw
			S [mm] / V	N [mm]			
Schunk	210	ROTA NCK plus 210	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN12
Schunk	210	ROTA NCK plus 210-52	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GF30
Schunk	210	ROTA NCO 210	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GF30
Schunk	210	ROTA THW 210-52	S = 10mm	N = 20	WT022-WK02	750045	GBI 20
Schunk	215	ROTA NC plus 215	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GF30
Schunk	215	ROTA NC plus 215	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN12
Schunk	215	ROTA NCD 215	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GF30
Schunk	215	ROTA NCD 215	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN12
Schunk	215	ROTA NCF plus 215	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GF30
Schunk	215	ROTA THW plus 215	S = 10mm	N = 20	WT022-WK02	750045	GBI 20
Schunk	225	ROTA NCW 225	S = 10mm	N = 20	WT022-WK02	750045	GBI 20
Schunk	250	ROTA G 250	S = 12mm	N = 20	WT025-WK05	750057	
Schunk	250	ROTA NC 250-71	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GF261
Schunk	250	ROTA NCD 250	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP10
Schunk	250	ROTA NCD 250	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GN25
Schunk	250	ROTA NCF 250	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP10
Schunk	250	ROTA NCF 250	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GF261
Schunk	250	ROTA NCK 250	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP11
Schunk	250	ROTA NCK plus 250	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP11
Schunk	250	ROTA NCK plus 250	V = 1/16" x 90°	N = 17	WT025-WV50	750059	GF211
Schunk	250	ROTA ROTA NC 250-71	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP10
Schunk	250	ROTA S plus 250	S = 12mm	N = 20	WT025-WK05	750057	
Schunk	250	ROTA THW 250-65	S = 12mm	N = 20	WT025-WK05	750057	
Schunk	250	ROTA THW 250-65	S = 12mm	N = 20	WT025-WK05	750057	
Schunk	250	THF 250	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GN25
Schunk	255	ROTA NCD 255	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP11
Schunk	255	ROTA NCD 255	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GN25
Schunk	260	ROTA NC plus 260	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP11
Schunk	260	ROTA NC plus 260	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GF261
Schunk	260	ROTA NCF plus 260	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP11
Schunk	260	ROTA NCF plus 260	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GF261
Schunk	260	ROTA NCO 260	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GF261
Schunk	260	ROTA THW plus 260	S = 12mm	N = 20	WT025-WK05	750057	
Schunk	260	ROTA THW plus 260-81	S = 12mm	N = 20	WT025-WK05	750057	
Schunk	265	ROTA NCW 265-71	S = 12mm	N = 20	WT025-WK05	750057	
Schunk	315	ROTA G 315	S = 12mm	N = 20	WT031-WK10	750054	
Schunk	315	ROTA NC 315-86	V = 1,5mm x 60°	N = 18	WT031-WV10	750060	GP12
Schunk	315	ROTA NC 315-86	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GN25

Futterspezifische Daten Chuck specific data

Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoZet® Typ- bezeichnung InoZet® type	Ident-Nr. ident no.	** InoZet® Nutenstein *** InoZet® Grundbacke ** InoZet® T-Nut *** InoZet® Base-Jaw
			S [mm] / V	N [mm]			
Schunk	315	ROTA NC plus 315	V = 1,5mm x 60°	N = 21	WT031-WV17	750156	GF261
Schunk	315	ROTA NC plus 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GF261
Schunk	315	ROTA NCD 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GN25
Schunk	315	ROTA NCD 315-115	V = 1,5mm x 60°	N = 21	WT031-WV17	750156	WN30
Schunk	315	ROTA NCF 315	V = 1,5mm x 60°	N = 18	WT031-WV10	750060	GP12
Schunk	315	ROTA NCF 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GN25
Schunk	315	ROTA NCF plus 2 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GF261
Schunk	315	ROTA NCF plus 315	V = 1,5mm x 60°	N = 21	WT031-WV17	750156	WN30
Schunk	315	ROTA NCF plus 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GF261
Schunk	315	ROTA NCK plus 315	V = 1,5mm x 60°	N = 21	WT031-WV17	750156	WN30
Schunk	315	ROTA NCK plus 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GF261
Schunk	315	ROTA NCO 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GF261
Schunk	315	ROTA NCW 315-91	S = 12mm	N = 20	WT031-WK10	750054	
Schunk	315	ROTA S plus 315	S = 12mm	N = 26	WT031-21-WK15	750091	
Schunk	315	ROTA THW 315	S = 12mm	N = 20	WT031-WK10	750054	
Schunk	315	ROTA THW 315-86	S = 12mm	N = 20	WT031-WK10	750054	
Schunk	315	ROTA THW plus 315-104	S = 12mm	N = 20	WT031-WK10	750054	
Schunk	315	THF 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GN25
Schunk	380	ROTA EP380	V = 3/32" x 90°	N = 25,5	WT045-WV80	750144	**
Schunk	380	THF 380	V = 3/32" x 90°	N = 25,5	WT038-WV77	750130	GN40
Schunk	400	ROTA G 400	S = 12mm	N = 26	WT031-21-WK15	750091	
Schunk	400	ROTA G 400	S = 12mm	N = 26	WT040-WK20	750137	
Schunk	400	ROTA NC 400	V = 1,5mm x 60°	N = 21	WT040-WV27	750139	WN34
Schunk	400	ROTA NC 400	V = 3/32" x 90°	N = 25,5	WT040-WV77	750161	GN40
Schunk	400	ROTA NCD 400	V = 3/32" x 90°	N = 25,5	WT040-WV77	750161	GN40
Schunk	400	ROTA NCF 400	V = 3/32" x 90°	N = 25,5	WT040-WV77	750161	GN40
Schunk	400	ROTA NCF 400	V = 1,5mm x 60°	N = 21	WT040-WV27	750139	WN34
Schunk	400	ROTA NCO 400	V = 3/32" x 90°	N = 25,5	WT040-WV77	750161	GE40
Schunk	400	ROTA S plus 400	S = 18mm	N = 30	WT040-20-WK25	750138	
Schunk	400	ROTA THW 400	S = 12mm	N = 26	WT040-WK20	750137	
Schunk	400	ROTA THW 400-120	S = 12mm	N = 26	WT040-WK20	750137	
Schunk	400	ROTA THW plus 400	S = 12mm	N = 26	WT031-21-WK15	750091	
Schunk	400	ROTA THW plus 400	S = 12mm	N = 26	WT040-WK20	750137	
Schunk	500	ROTA G 500	S = 18mm	N = 30	WT050-WK30	750070	
Schunk	500	ROTA NC 500	V = 3/32" x 90°	N = 25,5	WT050-WV85	750056	GN40
Schunk	500	ROTA NCD 500	V = 3/32" x 90°	N = 25,5	WT050-WV85	750056	GN40
Schunk	500	ROTA NCF 500	V = 3/32" x 90°	N = 25,5	WT050-WV85	750056	GN40
Schunk	500	ROTA NCO 500	V = 3/32" x 90°	N = 25,5	WT050-WV85	750056	GE40



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoZet® Typ- bezeichnung InoZet® type	Ident-Nr. ident no.	** InoZet® Nutenstein *** InoZet® Grundbacke ** InoZet® T-Nut *** InoZet® Base-Jaw
			S [mm] / V	N [mm]			
Schunk	500	ROTA S plus 500	S = 18mm	N = 30	WT050-WK30	750070	
Schunk	500	ROTA THW 500	S = 18mm	N = 30	WT050-WK30	750070	
Schunk	500	THF 500	V = 3/32" x 90°	N = 25,5	WT050-WV85	750056	GN40
Schunk	630	KNCS 630	S = 18mm	N = 30	WT063-WK35	750075	
Schunk	630	ROTA G 630	S = 18mm	N = 30	WT063-WK35	750075	
Schunk	630	ROTA NC 630	V = 3/32" x 90°	N = 30	WT063-WV92	750074	GN80
Schunk	630	ROTA S 630	S = 24mm	N = 40	WT063-WK40	750077	
Schunk	630	ROTA S plus 630	S = 24mm	N = 40	WT063-WK40	750077	
Schunk	630	ROTA THW 630-160	S = 18mm	N = 30	WT063-WK35	750075	
Schunk	630	ROTA THW plus 630	S = 18mm	N = 30	WT063-WK35	750075	
Schunk	800	ROTA NC 800	V = 3/32" x 90°	N = 30	WT080-WV94	750079	GN80
Schunk	800	ROTA NCO 800	V = 3/32" x 90°	N = 25,5	WT080-WV95	750078	GN40
Schunk	800	ROTA S plus 800	S = 24mm	N = 40	WT080-WK50	750050	
Schunk	1000	ROTA NC 1000	V = Modul 2	N = 30	WT100-WV97	750084	
Schunk	1000	ROTA NCO 1000	V = Modul 2	N = 30	WT100-WV97	750084	
Seoam	254	CAH-10	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GP11
Seoam	381	CAH-15	V = 1,5mm x 60°	N = 22	WT038-WV21	750157	GP15
Seoam	457	CAS-18K	V = 3mm x 60°	N = 22	WT045-WV35	750143	X8658
Seoam	610	CAS-24K	V = 3mm x 60°	N = 25	WT063-WV42	750094	GP21
SMW Autoblok	200	HFK/S 200-48	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GN50
SMW Autoblok	200	HFK/S 200-66	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GN50
SMW Autoblok	200	KNCS 200	S = 10mm	N = 20	WT022-WK02	750045	GBI 20
SMW Autoblok	210	AL-D 210	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GF30
SMW Autoblok	210	AL-M 210	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN14
SMW Autoblok	210	AN-D 210	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GF30
SMW Autoblok	210	AN-M 210	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN14
SMW Autoblok	210	AN-M 210	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN14
SMW Autoblok	210	BB-D 210	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GF30
SMW Autoblok	210	BB-M 210	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN14
SMW Autoblok	210	BH-D 210	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GF30
SMW Autoblok	210	BH-M 210	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN14
SMW Autoblok	210	BHD-FC 210	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GF30
SMW Autoblok	210	BHM-FC 210	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN14
SMW Autoblok	210	HFKN-D 210	V = 1/16" x 90°	N = 17	WT021-WV03	750114	GF30
SMW Autoblok	210	HFKN-M 210	V = 1,5mm x 60°	N = 14	WT021-WV04	750098	WN14
SMW Autoblok	210	HG-F 210	S = 10mm	N = 20	WT022-WK02	750045	MFI 200

Futterspezifische Daten Chuck specific data



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoZet® Typ- bezeichnung InoZet® type	Ident-Nr. ident no.	** InoZet® Nutenstein *** InoZet® Grundbacke ** InoZet® T-Nut *** InoZet® Base-Jaw
			S [mm] / V	N [mm]			
SMW Autoblok	210	HG-N 210	S = 10mm	N = 20	WT022-WK02	750045	GBI 20
SMW Autoblok	210	KNCS 210	S = 10mm	N = 20	WT022-WK02	750045	GBI 20
SMW Autoblok	210	KNCS-N 210	S = 10mm	N = 20	WT022-WK02	750045	GBI 20
SMW Autoblok	225	KNCS-N 225	S = 10mm	N = 20	WT022-WK02	750045	GBI 20
SMW Autoblok	250	AL-D 250	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GF261
SMW Autoblok	250	AL-M 250	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GF263
SMW Autoblok	250	AN-D 250	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GF261
SMW Autoblok	250	AN-M 250	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GF263
SMW Autoblok	250	BB-D 250	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GF261
SMW Autoblok	250	BB-M 250	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GF263
SMW Autoblok	250	BH-D 250	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GF261
SMW Autoblok	250	BH-M 250	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GF263
SMW Autoblok	250	BHD-FC 250	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GF261
SMW Autoblok	250	BHM-FC 250	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	GF263
SMW Autoblok	250	HB-D 250	V = 1/16" x 90°	N = 21	WT025-WV57	750162	**
SMW Autoblok	250	HF/S 250	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GN25
SMW Autoblok	250	KNCS 250	S = 12mm	N = 20	WT025-WK05	750057	
SMW Autoblok	260	HFKN-D 260	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GF261
SMW Autoblok	260	HFKN-M 260	V = 1,5mm x 60°	N = 16	WT025-WV05	750058	**
SMW Autoblok	260	HG-F 260	S = 12mm	N = 20	WT025-WK05	750057	
SMW Autoblok	260	HG-N 260	S = 12mm	N = 20	WT025-WK05	750057	
SMW Autoblok	260	KNCS 260	S = 12mm	N = 20	WT025-WK05	750057	
SMW Autoblok	260	KNCS-N 260	S = 12mm	N = 20	WT025-WK05	750057	
SMW Autoblok	270	HF/S 270	V = 1/16" x 90°	N = 21	WT025-WV57	750162	GN25
SMW Autoblok	275	KNCS-N 275	S = 12mm	N = 20	WT025-WK05	750057	
SMW Autoblok	315	AL-D 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GF261
SMW Autoblok	315	AL-M 315	V = 1,5mm x 60°	N = 21	WT031-WV17	750156	GF261
SMW Autoblok	315	AN-D 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GF261
SMW Autoblok	315	AN-M 315	V = 1,5mm x 60°	N = 21	WT031-WV17	750156	GF261
SMW Autoblok	315	BB-D 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GF261
SMW Autoblok	315	BB-M 315	V = 1,5mm x 60°	N = 21	WT031-WV17	750156	GF261
SMW Autoblok	315	BH-D 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GF261
SMW Autoblok	315	BH-M 315	V = 1,5mm x 60°	N = 21	WT031-WV17	750156	GF261
SMW Autoblok	315	BHD-FC 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GF261
SMW Autoblok	315	BHM-FC 315	V = 1,5mm x 60°	N = 21	WT031-WV17	750156	GF261
SMW Autoblok	315	HB-D 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	**
SMW Autoblok	315	HF/S 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GN25
SMW Autoblok	315	HFKN-D 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GF261

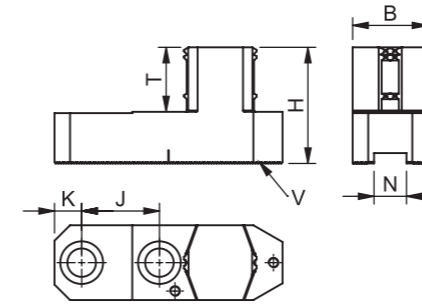
Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoZet® Typ- bezeichnung InoZet® type	Ident-Nr. ident no.	** InoZet® Nutenstein *** InoZet® Grundbacke ** InoZet® T-Nut *** InoZet® Base-Jaw
			S [mm] / V	N [mm]			
SMW Autoblok	315	HFKN-M 315	V = 1,5mm x 60°	N = 21	WT031-WV17	750156	GF261
SMW Autoblok	315	HG-F 315	S = 12mm	N = 26	WT031-21-WK15	750091	
SMW Autoblok	315	HG-N 315	S = 12mm	N = 20	WT031-WK10	750054	
SMW Autoblok	315	KNCS 315-77	S = 12mm	N = 20	WT031-WK10	750054	
SMW Autoblok	315	KNCS 315-91	S = 12mm	N = 20	WT031-WK10	750054	
SMW Autoblok	315	KNCS-N 315	S = 12mm	N = 20	WT031-WK10	750054	
SMW Autoblok	315	NT-D 315	V = 1/16" x 90°	N = 21	WT031-WV62	750159	GF261
SMW Autoblok	325	KNCS-N 325	S = 12mm	N = 20	WT031-WK10	750054	
SMW Autoblok	340	KNCS-N 340	S = 12mm	N = 20	WT031-WK10	750054	
SMW Autoblok	400	AN-D 400	V = 3/32" x 90°	N = 25,5	WT040-WV77	750161	GE40
SMW Autoblok	400	AN-M 400	V = 1,5mm x 60°	N = 22	WT038-WV21	750157	X7960
SMW Autoblok	400	BH-D 400	V = 3/32" x 90°	N = 25,5	WT040-WV77	750161	GE40
SMW Autoblok	400	BH-M 400	V = 1,5mm x 60°	N = 22	WT038-WV21	750157	X7960
SMW Autoblok	400	BHD-FC 400	V = 3/32" x 90°	N = 25,5	WT040-WV77	750161	GE40
SMW Autoblok	400	HF/S 400	V = 3/32" x 90°	N = 25,5	WT040-WV77	750161	GN40
SMW Autoblok	400	HFKN-D 400	V = 3/32" x 90°	N = 25,5	WT040-WV77	750161	GN40
SMW Autoblok	400	HG-F 400	S = 18mm	N = 30	WT040-20-WK25	750138	
SMW Autoblok	400	HG-N 400	S = 12mm	N = 26	WT031-21-WK15	750091	
SMW Autoblok	400	HG-N 400	S = 12mm	N = 26	WT040-WK20	750137	
SMW Autoblok	400	KNCS 400-92	S = 12mm	N = 26	WT040-WK20	750137	
SMW Autoblok	400	KNCS-N 400	S = 12mm	N = 26	WT031-21-WK15	750091	
SMW Autoblok	400	KNCS-N 400	S = 12mm	N = 26	WT040-WK20	750137	
SMW Autoblok	450	BH-D 450	V = 3/32" x 90°	N = 25,5	WT045-WV80	750144	GE40
SMW Autoblok	450	BH-M 450	V = 1,5mm x 60°	N = 22	WT045-WV32	750158	X7960
SMW Autoblok	500	BH-D 500	V = 3/32" x 90°	N = 25,5	WT050-WV85	750056	GE40
SMW Autoblok	500	BHD-FC 500	V = 3/32" x 90°	N = 25,5	WT050-WV85	750056	GE40
SMW Autoblok	500	HFKN-D 500	V = 3/32" x 90°	N = 25,5	WT050-WV85	750056	GN40
SMW Autoblok	500	HFKN-M 500	V = 3mm x 60°	N = 25,5	WT050-WV39	750127	**
SMW Autoblok	500	HG-N 500	S = 18mm	N = 30	WT050-WK30	750070	
SMW Autoblok	500	IL-C 500 Langschieberbacke	S = 19,03mm	N = 12,7	WT050-WK32	750071	
SMW Autoblok	500	IL-D 500	V = 3/32" x 90°	N = 25,5	WT050-WV85	750056	**
SMW Autoblok	500	IN-C 500 Langschieberbacke	S = 19,03mm	N = 12,7	WT050-WK32	750071	
SMW Autoblok	500	IN-D 500	V = 3/32" x 90°	N = 25,5	WT050-WV85	750056	**
SMW Autoblok	500	KNCS 500-128/92	S = 18mm	N = 30	WT050-WK30	750070	
SMW Autoblok	500	KNCS-N 500	S = 18mm	N = 30	WT050-WK30	750070	
SMW Autoblok	630	BH-D 630	V = 3/32" x 90°	N = 25,5	WT063-WV90	750051	GE40
SMW Autoblok	630	BHD-FC 630	V = 3/32" x 90°	N = 25,5	WT063-WV90	750051	GE40
SMW Autoblok	630	HG-N 630	S = 18mm	N = 30	WT063-WK35	750075	

Futterspezifische Daten Chuck specific data

Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoZet® Typ- bezeichnung InoZet® type	Ident-Nr. ident no.	** InoZet® Nutenstein *** InoZet® Grundbacke ** InoZet® T-Nut *** InoZet® Base-jaw
			S [mm] / V	N [mm]			
SMW Autoblok	630	IL-C 630 Langschieberbacke	S = 19,03mm	N = 12,7	WT063-WK37	750076	
SMW Autoblok	630	IL-D 630	V = 3/32" x 90°	N = 25,5	WT063-WV90	750051	**
SMW Autoblok	630	IN-C 630 Langschieberbacke	S = 19,03mm	N = 12,7	WT063-WK37	750076	
SMW Autoblok	630	IN-D 630	V = 3/32" x 90°	N = 25,5	WT063-WV90	750051	**
SMW Autoblok	630	KNCS-N 630	S = 18mm	N = 30	WT063-WK35	750075	
SMW Autoblok	800	BH-D 800	V = 3/32" x 90°	N = 25,5	WT080-WV95	750078	GE40
SMW Autoblok	800	IL-D 800	V = 3/32" x 90°	N = 25,5	WT080-WV95	750078	**
SMW Autoblok	800	IN-D 800	V = 3/32" x 90°	N = 25,5	WT080-WV95	750078	**
SMW Autoblok	1000	IN-D 1000	V = Modul 2	N = 30	WT100-WV96	750052	
SMW Autoblok	1000	IR-C 1000 Langschieberbacke	S = 19,03mm	N = 30	WT100-WK67	750145	
SMW Autoblok	1000	ROTA S+ 1000	S = 24mm	N = 40	WT100-WK65	750087	
SMW Autoblok	1250	IN-D 1250	V = Modul 2	N = 30	WT125-WV96	750088	
SMW Autoblok	1250	IR-C 1250 Langschieberbacke	S = 19,03mm	N = 30	WT125-WK67	750146	

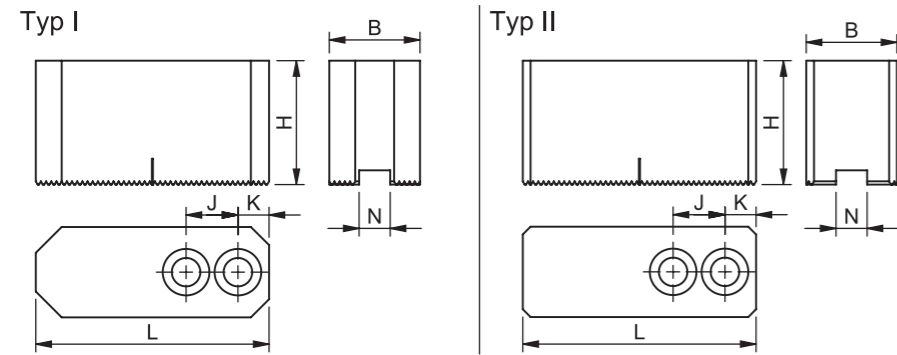


Greiferbacken adjustagrip-jaws



Passend für compatible to	Backen- typ jaw type	Ident- Nr. ident no.	Abmaße dimensions		Bohrungs- abstände hole spacing		Spannbereich grip range		Verzahnung serration	Nut- breite slot width	Ein- spann- tiefe clamping depth	Schwing- kreis swing	Gewicht pro Satz weight per set	Nuten- stein t-nut
			Breite width	Höhe height	K	J	innen internal	außen external						
			B	H			mm	mm						
WT021 WT022	WU10	760010	27	35	10	18	110 - 210 110 - 225	50 - 210 50 - 225	2.0mm x 60°	10	15	295 310	1,8	GP05
WT025-4	WU10-8	760011	27	35	10	18	123 - 260	63 - 260	2.0mm x 60°	10	15	355	2,4	GP05
WT025 WT031	WU12	760012	35	48	12	20	134 - 250 139 - 315	60 - 250 65 - 315	2.0mm x 60°	12	25	355 400	5,3	GP07
WT031-4	WU12-8	760013	35	48	12	20	156 - 315	82 - 315	2.0mm x 60°	12	25	420	7,0	GP07
WT038* WT040* WT045*	WU16*	700016	38	50	13	30	158 - 380 158 - 400 158 - 450	70 - 380 70 - 400 50 - 450	2.0mm x 60°	16	25	510	7,7	GP11
WT038 WT040 WT045	WR16	760161	38	50	13	30	158 - 380 158 - 400 168 - 450	70 - 380 70 - 400 80 - 450	3.5mm x 60°	16	25	490 510 560	7,7	GP11
WT040-4 WT050-4 WT063-4 WT070-4	WR16-8	760162	38	50	13	30	178 - 400 203 - 500 270 - 630 338 - 700	90 - 400 115 - 500 182 - 630 250 - 700	3.5mm x 60°	16	25	510 610 740 810	10,3	GP11
WT050 WT053 WT063	WR21	760121	48	60	18	30	179 - 500 194 - 530 264 - 630	85 - 500 100 - 530 170 - 630	3.5mm x 60°	21	30	635 665 765	12,6	GP13
WT080-4	WR21-8	760122	48	60	18	30	344 - 800	250 - 800	3.5mm x 60°	21	30	935	16,9	GP13
WT080 WT100 WT125	WR25	760125	58	90	21	60	362-800 582-1000 812-1250	250-800 470-1000 700-1250	3.5mm x 60°	25	30	955 1155 1405	19,6	GP21
WT100-4 WT120-4	WR25-8	760126	58	90	21	60	582-1000 612-1150	470-1000 475-1150	3.5mm x 60°	25	30	1155 1355	26,5	GP21

Weiche Aufsatzbacken Soft top-jaws



Passend für suitable for	Backentyp jaw type	Ident-Nr. ident no.	Abmaße dimensions			Bohrungs- abstände hole spacing		Spitzverzahnung serration	Nutbreite slot width	Werkstoff material	Gewicht pro Satz weight per set	Nutenstein t-nut
			Breite width	Höhe height	Länge length	K	J					
			B	H	Ø	K	J					
WT021 WT022	WI10	770010	27	35	80	10	18	2.0mm x 60°	10	16MnCr5	2,6	GP05
	WI30	770030	27	35	80	10	18	2.0mm x 60°	10	Al-ZnMgCu1.5	0,9	GP05
	WI31	770031	27	35	80	31	18	2.0mm x 60°	10	16MnCr5	2,5	GP05
	WI32	770032	40	35	80	10	18	2.0mm x 60°	10	Al-ZnMgCu1.5	1,5	GP05
	WI33	770033	27	50	80	10	18	2.0mm x 60°	10	Al-ZnMgCu1.5	1,4	GP05
WT025-4	WI10-8	770011	27	35	80	10	18	2.0mm x 60°	10	16MnCr5	3,4	GP05
WT025 WT031	WI12	770012	35	48	90	12	20	2.0mm x 60°	12	16MnCr5	5,3	GP07
	WI40	770040	35	48	90	12	20	2.0mm x 60°	12	Al-ZnMgCu1.5	1,8	GP07
	WI41	770041	35	48	90	35	20	2.0mm x 60°	12	16MnCr5	5,1	GP07
	WI42	770042	50	48	90	12	20	2.0mm x 60°	12	Al-ZnMgCu1.5	2,9	GP07
	WI43	770043	35	70	90	12	20	2.0mm x 60°	12	Al-ZnMgCu1.5	2,8	GP07
WT031-4	WI12-8	770013	35	48	90	12	20	2.0mm x 60°	12	16MnCr5	7,0	GP07
WT038* WT040* WT045*	WI16	770016	38	50	106	13	30	2.0mm x 60°	16	16MnCr5	7,8	GP11
	WI50	770050	38	50	106	13	30	2.0mm x 60°	16	Al-ZnMgCu1.5	2,5	GP11
	WI51	770051	38	50	106	38	30	2.0mm x 60°	16	16MnCr5	6,8	GP11
	WI52	770052	60	50	106	13	30	2.0mm x 60°	16	16MnCr5	12,4	GP11
	WI53	770053	38	75	106	13	30	2.0mm x 60°	16	16MnCr5	10,7	GP11
WT038 WT040 WT045	WP16	770116	38	50	105	13	30	3.5mm x 60°	16	16MnCr5	7,7	GP11
	WP50	770150	38	50	105	13	30	3.5mm x 60°	16	Al-ZnMgCu1.5	2,5	GP11
	WP51	770151	38	50	105	38	30	3.5mm x 60°	16	16MnCr5	6,9	GP11
	WP52	770152	60	50	105	13	30	3.5mm x 60°	16	16MnCr5	12,3	GP11
	WP53	770153	38	75	105	13	30	3.5mm x 60°	16	16MnCr5	10,6	GP11
WT040-4 WT050-4 WT063-4 WT070-4	WP16-8	770117	38	50	105	13	30	3.5mm x 60°	16	16MnCr5	10,3	GP11

Weiche Aufsatzbacken Soft top-jaws

Passend für suitable for	Backentyp jaw type	Ident-Nr. ident no.	Abmaße dimensions			Bohrungs- abstände hole spacing		Spitzverzahnung serration	Nutbreite slot width	Werkstoff material	Gewicht pro Satz weight per set	Nutenstein t-nut
			Breite width	Höhe height	Länge length	K	J					
			B	H	Ø	K	J					
WT050 WT053 WT063	WP21	770121	48	60	126	18	30	3.5mm x 60°	21	16MnCr5	12,6	GP13
	WP60	770160	48	60	126	18	30	3.5mm x 60°	21	Al-ZnMgCu1.5	4,4	GP13
	WP61	770161	48	60	126	48	30	3.5mm x 60°	21	16MnCr5	12,6	GP13
	WP62	770162	70	60	126	18	30	3.5mm x 60°	21	16MnCr5	19,0	GP13
	WP63	770163	48	90	126	18	30	3.5mm x 60°	21	16MnCr5	19,2	GP13
WT080-4	WP21-8	770122	48	60	126	18	30	3.5mm x 60°	21	16MnCr5	16,9	GP13
WT080 WT100 WT125	WP25	770125	58	90	175	21	60	3.5mm x 60°	25	16MnCr5	32,5	GP21
	WP70	775025	58	90	175	21	60	3.5mm x 60°	25	Al-ZnMgCu1.5	11,4	GP21
	WP71	770128	58	90	175	57,5	60	3.5mm x 60°	25	16MnCr5	32,3	GP21
	WP72	770172	85	90	175	21	60	3.5mm x 60°	25	16MnCr5	51,9	GP21
	WP73	770173	58	130	175	21	60	3.5mm x 60°	25	16MnCr5	47,3	GP21
WT100-4 WT120-4	WP25-8	760126	58	90	175	21	60	3.5mm x 60°	25	16MnCr5	46	GP21

InoZet® Zubehör InoZet® accessoires



InoZet® Zubehör InoZet® accessories	Beschreibung description	Ident-Nr. ident no.
Spezial-Fett für InoZet® Special grease for InoZet®	EP01, 400 ml Kartusche EP01, 400 ml cartouche	800006
Handhebel-Fettpresse Lever grease gun	für 400 ml Kartusche, DIN 1283, mit Mundstück für Kugelschmiernippel for 400 ml cartouche, DIN 1283, with mouth-piece for ball grease nipples	800008



Spannen ohne Druck Clamping without pressure

Optimale Rundheit durch Gegenlager

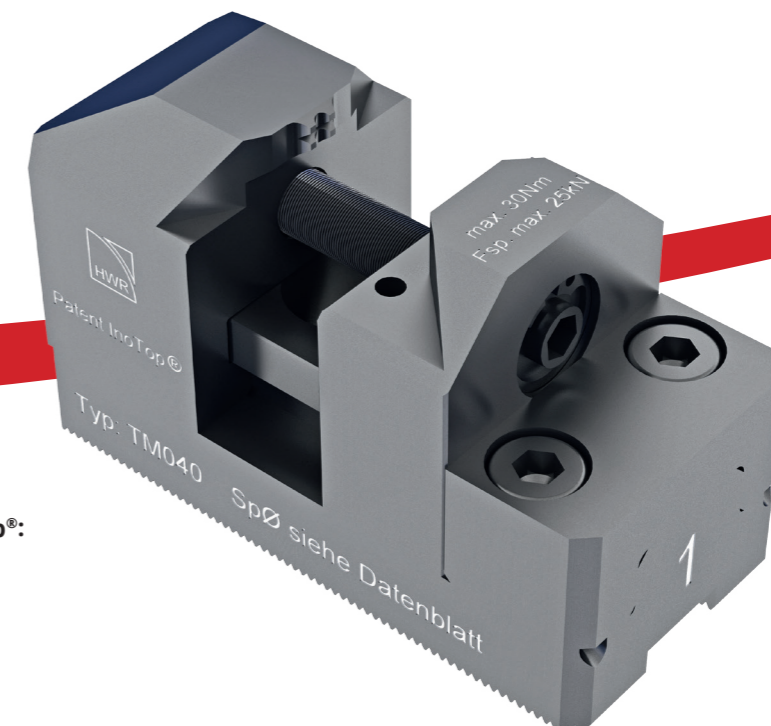
Mit InoTop® erreichen sie höchste Rundheiten durch das Prinzip des „festen Gegenlagers“. Speziell dünnwandige Bauteile können mit InoTop® polygonfrei gespannt werden.

- Zentrieren des Bauteils ohne Druck von außen für polygonfreies Spannen
- Perfekte Rundheitsergebnisse
- Definierte Kräfteinleitung durch die bewegliche Spannbacke
- Kostengünstig in der Anschaffung
- Keine teuren Sonderspannlösungen notwendig

Counter bearings for optimum roundness

InoTop® produces best roundness results thanks to the fixed counter bearing principle. By using InoTop® thin-walled parts in particular can be clamped without polygon formation.

- Part is centred without pressure from outside for clamping without polygon formation
- Perfect roundness results
- Moving jaw for defined force transmission
- Low-cost procurement
- No expensive special clamping solutions needed



Einsatzgebiete von InoTop®:

- Dünnwandige Bauteile
- Kleine Losgrößen

Uses for InoTop®:

- Thin-walled parts
- Small batches



PATENT!



Verformungsarm Spannen *Low deformation clamping*

Spannen ohne Druck

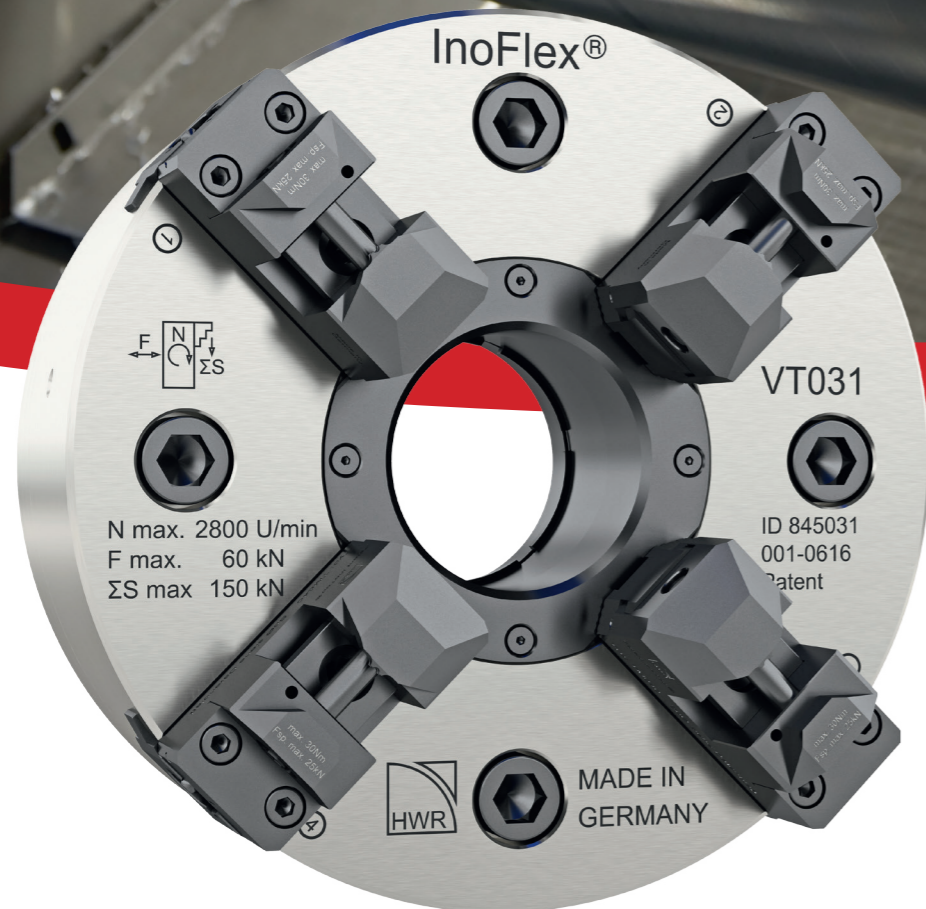
Die innovative InoTop-Hybridspannbacke® von HWR wurde speziell für verformungsempfindliche Bauteile in der Drehbearbeitung konzipiert.

Verformungsempfindliche Bauteile werden im herkömmlichen Spannfutter mit InoTop® ohne Druck von außen zentriert und von innen gespannt. Damit verhindert InoTop® unerwünschte Polygonbildungen im Spannprozess. Drehergebnisse, die zuvor nur mit kostenintensiven Sonderspannlösungen zu realisieren waren, können nun ganz einfach mit der InoTop-Hybridspannbacke® von HWR günstig erreicht werden.

Clamping without pressure

The innovative InoTop® hybrid clamping jaw by HWR was designed specially for turning deformation sensitive parts.

On a conventional chuck deformation sensitive parts are centred from the outside without pressure and clamped from the inside with InoTop®. InoTop® thus prevents unwanted polygon formation in the clamping process. Turning results that were previously only possible with costly special clamping solutions can now be achieved at low cost quite easily with the innovative InoTop®-hybrid clamping jaws by HWR.



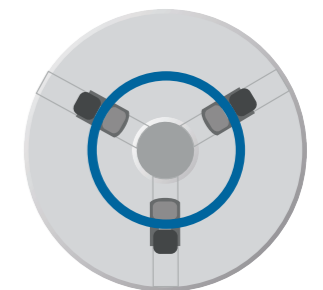
Das Funktionsprinzip *How it works*

InoTop® zentriert die Bauteile von außen und spannt die Bauteile von innen gegen das Gegenlager.

InoTop® centres the parts from the outside and clamps them against the counter bearing from the inside.



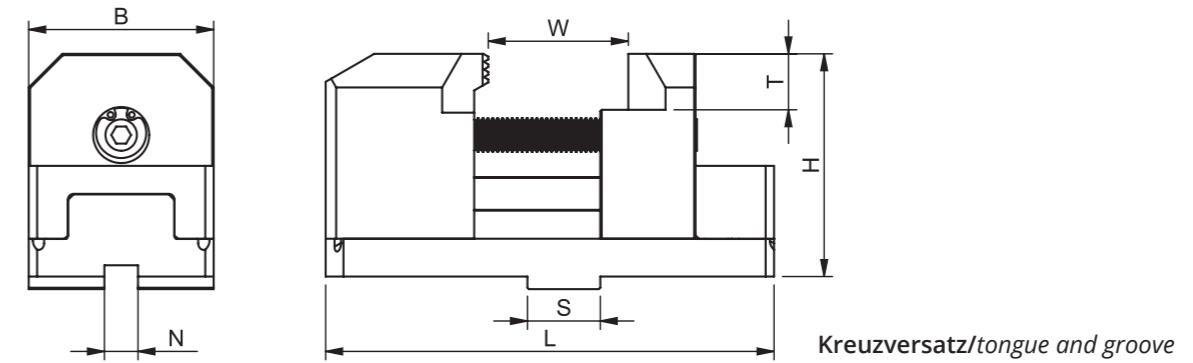
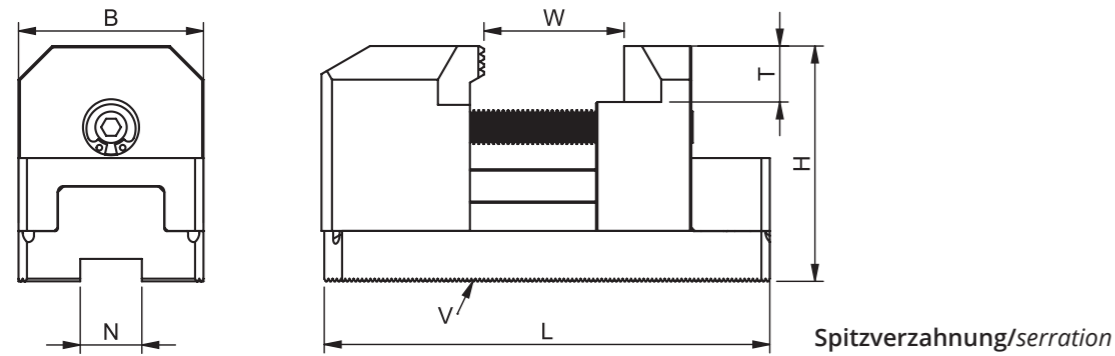
Herkömmliche 3-Punkt-Spannung
Conventional 3-point clamping



Das InoTop®-Gegenlagerprinzip
The InoTop® counter bearing principle



Allgemeine Daten General data



InoTop® InoTop®	Ident-Nr. ident no.	Bauteilwandstärke wall thickness of workpiece	Einspann- tiefe clamping depth	Breite width	Höhe height	Länge length	Anzugs- moment tightening torque	Backenanschluss Jaw-connection		Ge- wicht/ Satz weight/ set
								S [mm] / V	N [mm]	
		W min./max. [mm]	T [mm]	B [mm]	H [mm]	L [mm]	max. [Nm]			kg
TM030	813030	3 - 25	10	47	60	103,5	30	V = 1,5mm x 60°	N = 14	4,3
TM040	813040	3 - 25	10	47	60	103,5	30	V = 1,5mm x 60°	N = 16	4,3
TM050	813050	3 - 25	10	47	60	103,5	30	V = 1,5mm x 60°	N = 18	4,2
TM052	813052	3 - 25	10	47	60	103,5	30	V = 1,5mm x 60°	N = 21	4,2
TM060	813060	6 - 50	20	66	84	160	40	V = 1,5mm x 60°	N = 22	12,0
TM062	813062	6 - 50	20	66	84	160	40	V = 1,5mm x 60°	N = 21	12,0
TM064	813064	6 - 50	20	66	84	160	40	V = 1,5mm x 60°	N = 25,5	12,0
TM080	813080	6 - 50	20	66	84	160	40	V = 3mm x 60°	N = 25	12,0
TD040	812040	3 - 25	10	47	60	103	30	V = 1/16" x 90°	N = 17	4,3
TD043	812043	3 - 25	10	47	60	103	30	V = 1/16" x 90°	N = 16	4,3
TD046	812046	3 - 25	10	47	60	103	30	V = 1/16" x 90°	N = 21	4,2
TD060	812060	6 - 50	20	66	84	160	40	V = 1/16" x 90°	N = 21	12,3
TD063	812063	6 - 50	20	66	84	160	40	V = 3/32" x 90°	N = 20	12,3
TD066	812066	6 - 50	20	66	84	160	40	V = 3/32" x 90°	N = 25,5	12,4
TK030	811030	3 - 25	10	47	55,5	104	30	S = 20	N = 10	4,2
TK040	811040	3 - 25	10	47	55,5	104	30	S = 20	N = 12	4,1
TK050	811050	3 - 25	10	47	55,5	104	30	S = 26	N = 12	4,1
TK060	811060	6 - 50	20	66	79,5	160	40	S = 26	N = 12	12,9
TK070	811070	6 - 50	20	66	79,5	160	40	S = 30	N = 18	12,8
TK080	811080	6 - 50	20	66	79,5	160	40	S = 30	N = 18	12,5
TZ030	814030	3 - 25	10	47	55,5	104	30	S = 12,68	N = 7,94	4,2
TZ031	814031	3 - 25	10	47	55,5	104	30	S = 12,68	N = 7,94	4,2
TZ040	814040	3 - 25	10	47	55,5	104	30	S = 19,03	N = 12,7	4,1
TZ043	814043	3 - 25	10	47	55,5	122	30	S = 19,03	N = 12,7	4,5
TZ060	814060	6 - 50	20	66	79,5	160	40	S = 19,03	N = 12,7	12,7
TZ063	814063	6 - 50	20	66	79,5	160	40	S = 19,03	N = 12,7	12,2

InoTop® InoTop®	Ident-Nr. ident no.	Bauteilwandstärke wall thickness of workpiece	Einspann- tiefe clamping depth	Breite width	Höhe height	Länge length	Anzugs- moment tightening torque	Backenanschluss Jaw-connection		Ge- wicht/ Satz weight/ set
								S [mm] / V	N [mm]	
		W min./max. [mm]	T [mm]	B [mm]	H [mm]	L [mm]	max. [Nm]			kg
TW020	815020	3 - 25	10	47	60	160	30	V = 2mm x 60°	N = 12	4,4
TW030	815030	6 - 50	20	66	84	160	40	V = 3,5mm x 60°	N = 16	13,0
TW040	815040	6 - 50	20	66	84	160	40	V = 3,5mm x 60°	N = 21	12,8
TM040-4	813141	3 - 25	10	47	60	103,5	30	V = 1,5mm x 60°	N = 16	5,7
TM052-4	813053	3 - 25	10	47	60	103,5	30	V = 1,5mm x 60°	N = 21	5,6
TM062-4	813162	6 - 50	20	66	84	160	40	V = 1,5mm x 60°	N = 21	16,1
TM080-4	813180	6 - 50	20	66	84	160	40	V = 3mm x 60°	N = 25	16,0
TR060-4	816160	6 - 50	20	66	84	160	40	V =	N = 16	16,1

Futterspezifische Daten Chuck specific data



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoTop® Typ- bezeichnung InoTop® type	Ident-Nr. ident no.	Spann- bereich [außen] clamping range [external]	Bauteil- wand- stärke wall thick- ness of work- piece	Schwing- kreis swing	Nuten- stein T-Nut
			S [mm] / V	N [mm]			min./max.	min./max. [mm]		
Auto Strong	210	N-208	V = 1,5mm x 60°	N = 14	TM030	813030	150 - 210	3 - 25	290	GP09
Auto Strong	210	V-208	V = 1,5mm x 60°	N = 14	TM030	813030	150 - 210	3 - 25	290	GP08
Auto Strong	254	N-210	V = 1,5mm x 60°	N = 16	TM040	813040	165 - 254	3 - 25	335	TT20
Auto Strong	254	V-210	V = 1,5mm x 60°	N = 16	TM040	813040	160 - 254	3 - 25	335	TT22
Auto Strong	304	V-212	V = 1,5mm x 60°	N = 18	TM050	813050	185 - 304	3 - 25	385	GN78
Auto Strong	304	N-212	V = 1,5mm x 60°	N = 21	TM052	813052	195 - 304	3 - 25	385	TT40
Auto Strong	381	N-215	V = 1,5mm x 60°	N = 22	TM060	813060	275 - 381	6 - 50	490	GP15
Auto Strong	381	V-215	V = 1,5mm x 60°	N = 25,5	TM064	813064	275 - 381	6 - 50	490	X5507

Bison	200	3200 / 3500 - 200	S = 7,94	N = 12,69	TZ031	814031	150 - 200	3 - 25	280	
Bison	250	3200 / 3500 - 250	S = 12,7	N = 19,04	TZ040	814040	150 - 250	3 - 25	330	
Bison	315	3200 / 3500 - 315	S = 12,7	N = 19,04	TZ043	814043	185 - 315	3 - 25	395	
Bison	400	3200 / 3500 - 400	S = 12,7	N = 19,04	TZ060	814060	250 - 400	6 - 50	510	
Bison	500	3200 / 3500 - 500	S = 12,7	N = 19,04	TZ063	814063	250 - 500	6 - 50	610	

Forkardt	200	F+ 200	S = 10	N = 20	TK030	811030	150 - 206	3 - 25	290	
Forkardt	200	FNC 200	S = 10	N = 20	TK030	811030	150 - 206	3 - 25	290	
Forkardt	200	KS 200	V = 1/16" x 90°	N = 17	TD040	812040	150 - 200	3 - 25	280	GG20
Forkardt	200	KTHS 200-66	V = 1/16" x 90°	N = 17	TD040	812040	150 - 200	3 - 25	280	*
Forkardt	200	KTN/G 200	V = 1/16" x 90°	N = 17	TD040	812040	150 - 200	3 - 25	280	GG20
Forkardt	200	NH/NHF 200	V = 1/16" x 90°	N = 17	TD040	812040	150 - 200	3 - 25	280	GG20
Forkardt	200	QLC/K 200	V = 1/16" x 90°	N = 17	TD040	812040	150 - 210	3 - 25	290	GG20
Forkardt	200	QLC/K 200	V = 1,5mm x 60°	N = 14	TM030	813030	155 - 210	3 - 25	290	*
Forkardt	200	QLC/K-KS 200	V = 1/16" x 90°	N = 17	TD040	812040	155 - 200	3 - 25	280	GG20
Forkardt	250	F+ 250	S = 12	N = 20	TK040	811040	150 - 255	3 - 25	335	
Forkardt	250	FNC 250	S = 12	N = 20	TK040	811040	150 - 250	3 - 25	330	
Forkardt	250	KG 250	V = 1/16" x 90°	N = 21	TD046	812046	150 - 250	3 - 25	330	TT35
Forkardt	250	KL 250	V = 1/16" x 90°	N = 21	TD046	812046	150 - 250	3 - 25	330	TT35
Forkardt	250	KS 250	V = 1/16" x 90°	N = 17	TD040	812040	150 - 250	3 - 25	330	GG20
Forkardt	250	KSH 250	V = 1/16" x 90°	N = 21	TD046	812046	160 - 250	3 - 25	330	TT35
Forkardt	250	KTN/G 250	V = 1/16" x 90°	N = 21	TD046	812046	150 - 250	3 - 25	330	TT35
Forkardt	250	KTNC 250	S = 12	N = 20	TK040	811040	150 - 225	3 - 25	305	
Forkardt	250	NH/NHF 250	V = 1/16" x 90°	N = 21	TD046	812046	155 - 250	3 - 25	330	TT35
Forkardt	250	QLC/ QLK 250	V = 1,5mm x 60°	N = 16	TM040	813040	165 - 257	3 - 25	340	TT20
Forkardt	250	QLC/K 250	V = 1/16" x 90°	N = 21	TD046	812046	160 - 257	3 - 25	340	TT35
Forkardt	250	QLC/K-KS 250	V = 1/16" x 90°	N = 17	TD040	812040	185 - 257	3 - 25	340	GG20
Forkardt	250	QLC/K-KS 250	V = 1,5mm x 60°	N = 16	TM040	813040	200 - 257	3 - 25	340	GN16
Forkardt	315	F+ 315	S = 12	N = 26	TK050	811050	150 - 318	3 - 25	400	
Forkardt	315	FNC 315	S = 12	N = 20	TK040	811040	150 - 315	3 - 25	395	

Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoTop® Typ- bezeichnung InoTop® type	Ident-Nr. ident no.	Spann- bereich [außen] clamping range [external]	Bauteil- wand- stärke wall thick- ness of work- piece	Schwing- kreis swing	Nuten- stein T-Nut
			S [mm] / V	N [mm]			min./max.	min./max. [mm]		
Forkardt	315	KG 315	V = 1/16" x 90°	N = 21	TD046	812046	160 - 315	3 - 25	395	TT35
Forkardt	315	KS 315	V = 1/16" x 90°	N = 21	TD046	812046	150 - 315	3 - 25	395	TT35
Forkardt	315	KSH 315	V = 1/16" x 90°	N = 21	TD046	812046	180 - 315	3 - 25	395	TT35
Forkardt	315	KTN/G 315	V = 1/16" x 90°	N = 21	TD046	812046	150 - 315	3 - 25	395	TT35
Forkardt	315	KTNC 315	S = 12	N = 20	TK040	811040	150 - 285	3 - 25	365	
Forkardt	315	NH/NHF 315	V = 1/16" x 90°	N = 21	TD046	812046	165 - 315	3 - 25	395	TT35
Forkardt	315	QLC / K 315	V = 1,5mm x 60°	N = 21	TM052	813052	195 - 320	3 - 25	400	TT35
Forkardt	315	QLC / K-KS 315	V = 1,5mm x 60°	N = 21	TM052	813052	245 - 320	3 - 25	400	TT35
Forkardt	315	QLC/K 315	V = 1/16" x 90°	N = 21	TD046	812046	175 - 320	3 - 25	400	TT35
Forkardt	315	QLC/K-KS 315	V = 1/16" x 90°	N = 21	TD046	812046	225 - 320	3 - 25	400	TT35
Forkardt	400	F+ 400	S = 18	N = 30	TK080	811080	250 - 400	6 - 50	510	
Forkardt	400	FNC 400	S = 12	N = 26	TK060	811060	250 - 388	6 - 50	495	
Forkardt	400	KG 400	V = 3/32" x 90°	N = 25,5	TD066	812066	250 - 400	6 - 50	510	GN40
Forkardt	400	KL 400	V = 3/32" x 90°	N = 25,5	TD066	812066	250 - 400	6 - 50	510	GN40
Forkardt	400	KS 400	V = 1/16" x 90°	N = 21	TD060	812060	250 - 400	6 - 50	510	TT37
Forkardt	400	KSH 400	V = 1/16" x 90°	N = 21	TD060	812060	255 - 400	6 - 50	510	TT37
Forkardt	400	KTN/G 400	V = 3/32" x 90°	N = 25,5	TD066	812066	250 - 400	6 - 50	510	GN40
Forkardt	400	KTNC 400	S = 12	N = 26	TK060	811060	250 - 374	6 - 50	480	
Forkardt	400	KTNC 400	S = 12	N = 26	TK060	811060	250 - 374	6 - 50	480	
Forkardt	400	NHF 400	V = 1/16" x 90°	N = 21	TD060	812060	260 - 400	6 - 50	510	*
Forkardt	400	NHF 400	V = 3/32" x 90°	N = 25,5	TD066	812066	260 - 400	6 - 50	510	GN40
Forkardt	400	QLC / K -KS 400	V = 1,5mm x 60°	N = 21	TM062	813062	310 - 400	6 - 50	510	TT35
Forkardt	400	QLC / K 400	V = 1,5mm x 60°	N = 21	TM062	813062	280 - 400	6 - 50	510	TT35
Forkardt	400	QLC/K 400	V = 1/16" x 90°	N = 21	TD060	812060	270 - 400	6 - 50	510	*
Forkardt	400	QLC/K 400	V = 3/32" x 90°	N = 25,5	TD066	812066	270 - 400	6 - 50	510	GN40
Forkardt	400	QLC/K-KS 400	V = 1/16" x 90°	N = 21	TD060	812060	295 - 400	6 - 50	510	TT37
Forkardt	500	F+ 500	S = 18	N = 30	TK080	811080	250 - 500	6 - 50	610	
Forkardt	500	FNC 500	S = 18	N = 30	TK080	811080	250 - 500	6 - 50	610	
Forkardt	500	KTNC 500	S = 18mm	N = 30	TK080	811080	250 - 459	6 - 50	565	

HWR	260	VD026	V = 1,5mm x 60°	N = 16	TM040-4	813141	170 - 255	3 - 25	371	TT20
HWR	260	VK026	V = 1,5mm x 60°	N = 16	TM040-4	813141	170 - 255	3 - 25	371	TT20
HWR	260	VT026	V = 1,5mm x 60°	N = 16	TM040-4	813141	190 - 264	3 - 25	371	TT20
HWR	315	VD031	V = 1,5mm x 60°	N = 16	TM040-4	813141	170 - 315	3 - 25	425	TT20
HWR	315	VK031	V = 1,5mm x 60°	N = 16	TM040-4	813141	170 - 315	3 - 25	425	TT20
HWR	315	VT031	V = 1,5mm x 60°	N = 16	TM040-4	813141	215 - 315	3 - 25	425	TT20
HWR	400	VD040	V = 1,5mm x 60°	N = 21	TM062-4	813162	280 - 400	6 - 50	566	TT65
HWR	400	VK040	V = 1,5mm x 60°	N = 21	TM062-4	813162	280 - 400	6 - 50	566	TT65
HWR	400	VT040	V = 1,5mm x 60°	N = 21	TM062-4	813162	280 - 400	6 - 50	566	TT65

Futterspezifische Daten Chuck specific data



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoTop® Typ- bezeichnung InoTop® type	Ident-Nr. ident no.	Spann- bereich [außen] clamping range [external]	Bauteil- wand- stärke wall thick- ness of work- piece	Schwing- kreis swing	Nuten- stein T-Nut
			S [mm] / V	N [mm]			min./max.	min./max. [mm]		
HWR	420	VL042	V = 1,5mm x 60°	N = 16	TM040-4	813141	170 - 420	3 - 25	525	TT20
HWR	500	VD050	V = 3mm x 60°	N = 25	TM080-4	813180	280 - 500	6 - 50	660	TT55
HWR	500	VK050	V = 3mm x 60°	N = 25	TM080-4	813180	295 - 500	6 - 50	660	TT55
HWR	500	VT050	V = 3mm x 60°	N = 25	TM080-4	813180	335 - 500	6 - 50	660	TT55
HWR	600	VL060	V = Modul 2	N = 22	TR060-4	816160	280 - 600	6 - 50	740	GP11
HWR	630	VD063	V = 3mm x 60°	N = 25	TM080-4	813180	280 - 630	6 - 50	792	TT55
HWR	630	VK063	V = 3mm x 60°	N = 25	TM080-4	813180	320 - 630	6 - 50	792	TT55
HWR	700	VL070	V = Modul 2	N = 22	TR060-4	816160	280 - 700	6 - 50	840	GP11
HWR	800	VD080	V = 3mm x 60°	N = 25	TM080-4	813180	290 - 800	6 - 50	961	TT55
HWR	800	VK080	V = 3mm x 60°	N = 25	TM080-4	813180	295 - 800	6 - 50	961	TT55
HWR	1000	VD100	V = 3mm x 60°	N = 25	TM080-4	813180	290 - 990	6 - 50	1161	TT55
HWR		WT025	V = 2mm x 60°	N = 12	TW020	815020	205 - 250	3 - 25	328	
HWR		WT031	V = 2mm x 60°	N = 12	TW020	815020	205 - 315	3 - 25	393	
HWR		WT038	V = 3,5mm x 60°	N = 16	TW030	815030	325 - 380	6 - 50	484	
HWR		WT040	V = 3,5mm x 60°	N = 16	TW030	815030	325 - 400	6 - 50	504	
HWR		WT045	V = 3,5mm x 60°	N = 16	TW030	815030	325 - 450	6 - 50	554	
HWR		WT050	V = 3,5mm x 60°	N = 21	TW040	815040	325 - 500	6 - 50	604	
HWR		WT053	V = 3,5mm x 60°	N = 21	TW040	815040	325 - 530	6 - 50	634	
HWR		WT063	V = 3,5mm x 60°	N = 21	TW040	815040	325 - 630	6 - 50	734	
Kitagawa	210	B 208	V = 1,5mm x 60°	N = 14	TM030	813030	150 - 210	3 - 25	290	GP09
Kitagawa	210	BB 208	V = 1,5mm x 60°	N = 14	TM030	813030	150 - 210	3 - 25	290	GP09
Kitagawa	254	B 10	V = 1,5mm x 60°	N = 16	TM040	813040	165 - 254	3 - 25	335	TT22
Kitagawa	254	B 210	V = 1,5mm x 60°	N = 16	TM040	813040	170 - 254	3 - 25	335	TT20
Kitagawa	254	BB 210	V = 1,5mm x 60°	N = 16	TM040	813040	170 - 254	3 - 25	335	TT20
Kitagawa	254	HOH 10K	V = 1,5mm x 60°	N = 16	TM040	813040	165 - 254	3 - 25	335	TT20
Kitagawa	254	N10	V = 1,5mm x 60°	N = 16	TM040	813040	165 - 254	3 - 25	335	TT22
Kitagawa	304	B 12	V = 1,5mm x 60°	N = 18	TM050	813050	180 - 304	3 - 25	385	GN78
Kitagawa	304	HOH 12K	V = 1,5mm x 60°	N = 18	TM050	813050	175 - 304	3 - 25	385	GN78
Kitagawa	304	N 12	V = 1,5mm x 60°	N = 18	TM050	813050	185 - 304	3 - 25	385	GN78
Kitagawa	304	B-212	V = 1,5mm x 60°	N = 21	TM052	813052	195 - 304	3 - 25	385	TT40
Kitagawa	315	BB-212	V = 1,5mm x 60°	N = 21	TM052	813052	195 - 315	3 - 25	395	TT36
Kitagawa	381	B 15	V = 1,5mm x 60°	N = 22	TM060	813060	275 - 381	6 - 50	490	GP15
Kitagawa	381	HOH 15	V = 1,5mm x 60°	N = 22	TM060	813060	275 - 381	6 - 50	490	GP15
Kitagawa	381	B 215	V = 1,5mm x 60°	N = 25,5	TM064	813064	255 - 381	6 - 50	490	X5507
Kitagawa	381	N 15	V = 1,5mm x 60°	N = 25,5	TM064	813064	275 - 381	6 - 50	490	X5507
Kitagawa	450	B-18	V = 1,5mm x 60°	N = 22	TM060	813060	275 - 450	6 - 50	455	GP15
Röhm	200	DURO 200	S = 10mm	N = 20	TK030	811030	150 - 206	3 - 25	290	

Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoTop® Typ- bezeichnung InoTop® type	Ident-Nr. ident no.	Spann- bereich [außen] clamping range [external]	Bauteil- wand- stärke wall thick- ness of work- piece	Schwing- kreis swing	Nuten- stein T-Nut
			S [mm] / V	N [mm]			min./max.	min./max. [mm]		
Röhm	200	DURO A 200	S = 10mm	N = 20	TK030	811030	150 - 206	3 - 25	290	
Röhm	200	DURO NC 200	S = 10mm	N = 20	TK030	811030	150 - 215	3 - 25	295	
Röhm	200	DURO NCES 200	S = 10mm	N = 20	TK030	811030	150 - 215	3 - 25	295	
Röhm	200	DURO T 200	S = 10mm	N = 20	TK030	811030	150 - 206	3 - 25	290	
Röhm	200	KFD 200	V = 1/16" x 90°	N = 17	TD040	812040	150 - 200	3 - 25	280	GE16
Röhm	200	KFD-AF 200	V = 1/16" x 90°	N = 17	TD040	812040	150 - 200	3 - 25	280	GE16
Röhm	200	KFD-F-EC 200	V = 1/16" x 90°	N = 17	TD040	812040	150 - 200	3 - 25	280	*
Röhm	200	KFD-HE 200	V = 1/16" x 90°	N = 17	TD040	812040	150 - 210	3 - 25	290	GE16
Röhm	200	KFD-HF 200	V = 1/16" x 90°	N = 21	TD046	812046	165 - 200	3 - 25	280	*
Röhm	200	KFD-HS 200	V = 1/16" x 90°	N = 17	TD040	812040	150 - 200	3 - 25	280	GE16
Röhm	200	LVE 200	V = 1/16" x 90°	N = 17	TD040	812040	150 - 200	3 - 25	280	GE16
Röhm	200	ZG/ZS 200	S = 7,96mm	N = 12,69	TZ030	814030	150 - 200	3 - 25	280	
Röhm	210	DURO NCSE 210	S = 10mm	N = 20	TK030	811030	150 - 209	3 - 25	290	
Röhm	210	KFD-HE 210	V = 1,5mm x 60°	N = 14	TM030	813030	150 - 210	3 - 25	290	*
Röhm	250	DURO 250	S = 12mm	N = 20	TK040	811040	150 - 255	3 - 25	335	
Röhm	250	DURO A 250	S = 12mm	N = 20	TK040	811040	150 - 249	3 - 25	330	
Röhm	250	DURO NC 250	S = 12mm	N = 20	TK040	811040	150 - 260	3 - 25	340	
Röhm	250	DURO NCES 250	S = 12mm	N = 20	TK040	811040	150 - 260	3 - 25	340	
Röhm	225	DURO NCSE 225	S = 10mm	N = 20	TK030	811030	150 - 225	3 - 25	305	
Röhm	225	DURO NCSE 225	S = 10mm	N = 20	TK030	811030	150 - 225	3 - 25	305	
Röhm	250	DURO T 250	S = 12mm	N = 20	TK040	811040	150 - 256	3 - 25	340	
Röhm	250	KFD 250	V = 1/16" x 90°	N = 21	TD046	812046	160 - 250	3 - 25	330	TT34
Röhm	250	KFD-F-EC 250	V = 1/16" x 90°	N = 21	TD046	812046	160 - 240	3 - 25	320	*
Röhm	250	KFD-HE 250	V = 1/16" x 90°	N = 21	TD046	812046	165 - 254	3 - 25	335	TT34
Röhm	250	KFD-HE 250	V = 1,5mm x 60°	N = 16	TM040	813040	170 - 254	3 - 25	335	TT20
Röhm	250	KFD-HS 250	V = 1/16" x 90°	N = 17	TD040	812040	150 - 250	3 - 25	330	GE21/14
Röhm	250	LVE 250	V = 1/16" x 90°	N = 21	TD046	812046	175 - 250	3 - 25	330	TT34
Röhm	250	ZG/ZS 250	S = 12,72mm	N = 19,03	TZ040	814040	150 - 250	3 - 25	330	
Röhm	265	DURO NCSE 265	S = 12mm	N = 20	TK040	811040	150 - 261	3 - 25	345	
Röhm	315	DURO 315	S = 12mm	N = 26	TK050	811050	152 - 318	3 - 25	400	
Röhm	315	DURO NC 315	S = 12mm	N = 26	TK050	811050	154 - 320	3 - 25	400	
Röhm	315	DURO NCES 315	S = 12mm	N = 20	TK040	811040	150 - 315	3 - 25	395	
Röhm	315	DURO NCSE 315	S = 12mm	N = 26	TK050	811050	150 - 315	3 - 25	395	
Röhm	315	DURO T 315	S = 12mm	N = 26	TK050	811050	150 - 322	3 - 25	405	
Röhm	315	KFD 315	V = 1/16" x 90°	N = 21	TD046	812046	175 - 290	3 - 25	370	TT34
Röhm	315	KFD-F-EC 315	V = 1/16" x 90°	N = 21	TD046	812046	185 - 310	3 - 25	390	*
Röhm	315	KFD-HE 315	V = 1/16" x 90°	N = 21	TD046	812046	210 - 315	3 - 25	395	TT34
Röhm	315	KFD-HE 315	V = 1,5mm x 60°	N = 21	TM052	813052	220 - 315	3 - 25	395	X6115
Röhm	315	KFD-HS 315	V = 1/16" x 90°	N = 21	TD046	812046	175 - 315	3 - 25	395	TT34

Futterspezifische Daten Chuck specific data



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoTop® Typ- bezeichnung InoTop® type	Ident-Nr. ident no.	Spann- bereich [außen] clamping range [external]	Bauteil- wand- stärke wall thick- ness of work- piece	Schwing- kreis swing	Nuten- stein T-Nut
			S [mm] / V	N [mm]			min./max.	min./max. [mm]		
Röhm	315	LVE 315	V = 1/16" x 90°	N = 21	TD046	812046	190 - 315	3 - 25	395	TT34
Röhm	315	ZG/ZS 315	S = 12,72mm	N = 19,03	TZ043	814043	185 - 315	3 - 25	395	
Röhm	350	ZG/ZS 350	S = 12,72mm	N = 19,03	TZ060	814060	250 - 350	6 - 50	460	
Röhm	400	DURO 400	S = 18mm	N = 30	TK080	811080	250 - 400	6 - 50	510	
Röhm	400	DURO NC 400	S = 18mm	N = 30	TK080	811080	250 - 400	6 - 50	510	
Röhm	400	DURO NCES 400	S = 12mm	N = 26	TK060	811060	250 - 375	6 - 50	485	
Röhm	400	DURO T 400	S = 18mm	N = 30	TK080	811080	250 - 407	6 - 50	515	
Röhm	400	KFD 400	V = 3/32" x 90°	N = 25,5	TD066	812066	265 - 400	6 - 50	510	GE40
Röhm	400	KFD-F-EC 400	V = 3/32" x 90°	N = 25,5	TD066	812066	275 - 400	6 - 50	510	*
Röhm	400	KFD-HE 400	V = 3/32" x 90°	N = 25,5	TD066	812066	285 - 400	6 - 50	510	GE40
Röhm	400	KFD-HS 400	V = 3/32" x 90°	N = 25,5	TD066	812066	280 - 400	6 - 50	510	GE40
Röhm	400	LVE 420	V = 3/32" x 90°	N = 25,5	TD066	812066	315 - 400	6 - 50	510	GE40
Röhm	400	LVE 480	V = 3/32" x 90°	N = 25,5	TD066	812066	365 - 400	6 - 50	510	GE40
Röhm	400	ZG/ZS 350	S = 12,72mm	N = 19,03	TZ060	814060	250 - 400	6 - 50	510	
Röhm	400	ZG/ZS 400	S = 12,72mm	N = 19,03	TZ060	814060	250 - 350	6 - 50	460	
Röhm	400	ZG/ZS 400	S = 12,72mm	N = 19,03	TZ060	814060	250 - 400	6 - 50	510	
Röhm	500	DURO 500	S = 18mm	N = 30	TK080	811080	250 - 500	6 - 50	610	
Röhm	500	DURO NC 500	S = 18mm	N = 30	TK080	811080	250 - 500	6 - 50	610	
Röhm	500	DURO T 500	S = 18mm	N = 30	TK080	811080	250 - 507	6 - 50	615	
Röhm	500	ZG/ZS 500	S = 12,72mm	N = 19,03	TZ063	814063	250 - 500	6 - 50	610	
Röhm	630	DURO NCSE 630	S = 18mm	N = 30	TK080	811080	250 - 583	6 - 50	690	
Samchully	210	HC-08	V = 1,5mm x 60°	N = 14	TM030	813030	155 - 210	3 - 25	290	GP08
Samchully	210	HCH-08	V = 1,5mm x 60°	N = 14	TM030	813030	150 - 210	3 - 25	290	GP08
Samchully	210	HH-208	V = 1,5mm x 60°	N = 14	TM030	813030	155 - 210	3 - 25	290	GP09
Samchully	210	HS-08	V = 1,5mm x 60°	N = 14	TM030	813030	150 - 210	3 - 25	290	GP09
Samchully	210	MH-208	V = 1,5mm x 60°	N = 14	TM030	813030	155 - 210	3 - 25	290	GP09
Samchully	254	HC-10	V = 1,5mm x 60°	N = 16	TM040	813040	165 - 254	3 - 25	335	TT22
Samchully	254	HCH-10	V = 1,5mm x 60°	N = 16	TM040	813040	165 - 254	3 - 25	335	TT22
Samchully	254	HH-210/ MH-210	V = 1,5mm x 60°	N = 16	TM040	813040	195 - 254	3 - 25	335	TT20
Samchully	254	HS-10	V = 1,5mm x 60°	N = 16	TM040	813040	160 - 254	3 - 25	335	TT20
Samchully	304	HC-12	V = 1,5mm x 60°	N = 18	TM050	813050	185 - 304	3 - 25	385	GN78
Samchully	304	HCH-12	V = 1,5mm x 60°	N = 18	TM050	813050	180 - 304	3 - 25	385	GN78
Samchully	304	HS-12	V = 1,5mm x 60°	N = 21	TM052	813052	185 - 304	3 - 25	385	TT40
Samchully	315	HH-212/ MH-212	V = 1,5mm x 60°	N = 21	TM052	813052	205 - 315	3 - 25	395	TT40
Samchully	381	HCH-15	V = 1,5mm x 60°	N = 22	TM060	813060	275 - 381	6 - 50	490	GP15
Samchully	381	HC-15	V = 1,5mm x 60°	N = 25,5	TM064	813064	275 - 381	6 - 50	490	X5507
Schunk	200	Rota G 200	S = 10mm	N = 20	TK030	811030	153 - 206	3 - 25	290	

Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoTop® Typ- bezeichnung InoTop® type	Ident-Nr. ident no.	Spann- bereich [außen] clamping range [external]	Bauteil- wand- stärke wall thick- ness of work- piece	Schwing- kreis swing	Nuten- stein T-Nut
			S [mm] / V	N [mm]			min./max.	min./max. [mm]		
Schunk	200	Rota S plus 200	S = 10mm	N = 20	TK030	811030	150 - 206	3 - 25	290	
Schunk	210	Rota NC 210-52	V = 1/16" x 90°	N = 17	TD040	812040	150 - 210	3 - 25	290	GF212
Schunk	210	Rota NC 210-52	V = 1,5mm x 60°	N = 14	TM030	813030	150 - 210	3 - 25	290	GP08
Schunk	210	Rota NCF 210-52	V = 1/16" x 90°	N = 17	TD040	812040	150 - 210	3 - 25	290	GF212
Schunk	210	Rota NCF 210-52	V = 1,5mm x 60°	N = 14	TM030	813030	150 - 210	3 - 25	290	GP08
Schunk	210	Rota NCK 210-52	V = 1,5mm x 60°	N = 14	TM030	813030	150 - 210	3 - 25	290	GP09
Schunk	210	Rota NCK plus 210-52	V = 1/16" x 90°	N = 17	TD040	812040	150 - 210	3 - 25	290	GF212
Schunk	210	Rota NCK plus 210-52	V = 1,5mm x 60°	N = 14	TM030	813030	150 - 210	3 - 25	290	GP09
Schunk	210	Rota NCO 210	V = 1/16" x 90°	N = 17	TD040	812040	150 - 210	3 - 25	290	GF212
Schunk	210	Rota THW 210-52	S = 10mm	N = 20	TK030	811030	150 - 210	3 - 25	290	
Schunk	215	Rota NC plus 215	V = 1/16" x 90°	N = 17	TD040	812040	160 - 215	3 - 25	295	GF212
Schunk	215	Rota NC plus 215-66	V = 1,5mm x 60°	N = 14	TM030	813030	165 - 215	3 - 25	295	GP09
Schunk	215	Rota NCD 215	V = 1/16" x 90°	N = 17	TD040	812040	150 - 215	3 - 25	295	GG20
Schunk	215	Rota NCD 215-66	V = 1,5mm x 60°	N = 14	TM030	813030	150 - 215	3 - 25	295	GP09
Schunk	215	Rota NCF plus 215	V = 1/16" x 90°	N = 17	TD040	812040	160 - 215	3 - 25	295	GF212
Schunk	215	Rota NCF plus 215-66	V = 1,5mm x 60°	N = 14	TM030	813030	165 - 215	3 - 25	295	GP09
Schunk	215	Rota THW plus 215	S = 10mm	N = 20	TK030	811030	150 - 215	3 - 25	295	
Schunk	225	Rota NCW 225	S = 10mm	N = 20	TK030	811030	150 - 225	3 - 25	305	
Schunk	250	Rota G 250	S = 12mm	N = 20	TK040	811040	150 - 256	3 - 25	340	
Schunk	250	Rota NC 250-71	V = 1/16" x 90°	N = 21	TD046	812046	165 - 254	3 - 25	335	TT46
Schunk	250	Rota NC 250-71	V = 1,5mm x 60°	N = 16	TM040	813040	170 - 254	3 - 25	335	TT22
Schunk	250	Rota NCD 250	V = 1/16" x 90°	N = 21	TD046	812046	155 - 250	3 - 25	330	TT35
Schunk	250	Rota NCD 250	V = 1,5mm x 60°	N = 21	TM040	813040	165 - 250	3 - 25	330	TT22
Schunk	250	Rota NCF 250	V = 1/16" x 90°	N = 21	TD046	812046	165 - 254	3 - 25	335	TT46
Schunk	250	Rota NCF 250	V = 1,5mm x 60°	N = 16	TM040	813040	170 - 254	3 - 25	335	TT22
Schunk	250	Rota NCK 250	V = 1,5mm x 60°	N = 16	TM040	813040	150 - 254	3 - 25	335	TT20
Schunk	250	Rota NCK plus 250	V = 1/16" x 90°	N = 17	TD040	812040	160 - 254	3 - 25	335	GF212
Schunk	250	Rota NCK plus 250-75	V = 1,5mm x 60°	N = 16	TM040	813040	165 - 254	3 - 25	335	TT20
Schunk	250	Rota S plus 250	S = 12mm	N = 20	TK040	811040	150 - 256	3 - 25	340	
Schunk	250	Rota THW 250-65	S = 12mm	N = 20	TK040	811040	150 - 250	3 - 25	330	
Schunk	250	Rota THW 250-65	S = 12mm	N = 20	TK040	811040	150 - 250	3 - 25	330	
Schunk	250	THF 250	V = 1/16" x 90°	N = 21	TD046	812046	150 - 250	3 - 25	330	TT35
Schunk	255	Rota NCD 255	V = 1/16" x 90°	N = 21	TD046	812046	155 - 255	3 - 25	335	TT35
Schunk	255	Rota NCD 255	V = 1,5mm x 60°	N = 21	TM040	813040	160 - 255	3 - 25	335	TT20
Schunk	260	Rota NC plus 260	V = 1,5mm x 60°	N = 16	TM040	813040	180 - 260	3 - 25	340	TT20
Schunk	260	Rota NC plus 260	V = 1/16" x 90°	N = 21	TD046	812046	180 - 254	3 - 25	335	TT46
Schunk	260	Rota NCF plus 260	V = 1/16" x 90°	N = 21	TD046	812046	170 - 260	3 - 25	340	TT46
Schunk	260	Rota NCF plus 260	V = 1,5mm x 60°	N = 16	TM040	813040	180 - 260	3 - 25	340	TT20
Schunk	260	Rota NCO 260	V = 1/16" x 90°	N = 21	TD046	812046	175 - 254	3 - 25	335	TT46

Futterspezifische Daten Chuck specific data



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoTop® Typ- bezeichnung InoTop® type	Ident-Nr. ident no.	Spann- bereich [außen] clamping range [external]	Bauteil- wand- stärke wall thick- ness of work- piece	Schwing- kreis swing	Nuten- stein T-Nut
			S [mm] / V	N [mm]			min./max.	min./max. [mm]		
Schunk	260	Rota THW plus 260	S = 12mm	N = 20	TK040	811040	150 - 260	3 - 25	340	
Schunk	260	Rota THW plus 260-81	S = 12mm	N = 20	TK040	811040	150 - 250	3 - 25	330	
Schunk	265	Rota NCW 265-71	S = 12mm	N = 20	TK040	811040	150 - 256	3 - 25	340	
Schunk	315	Rota G 315	S = 12mm	N = 20	TK040	811040	150 - 322	3 - 25	405	
Schunk	315	Rota NC 315-86	V = 1/16" x 90°	N = 21	TD046	812046	195 - 315	3 - 25	395	TT35
Schunk	315	Rota NC 315-86	V = 1,5mm x 60°	N = 18	TM050	813050	200 - 315	3 - 25	395	GN78
Schunk	315	Rota NC plus 315	V = 1/16" x 90°	N = 21	TD046	812046	195 - 315	3 - 25	395	TT46
Schunk	315	Rota NC plus 315	V = 1,5mm x 60°	N = 21	TM052	813052	195 - 315	3 - 25	395	GF34
Schunk	315	Rota NCD 315	V = 1/16" x 90°	N = 21	TD046	812046	180 - 315	3 - 25	395	TT35
Schunk	315	Rota NCD 315-115	V = 1,5mm x 60°	N = 21	TM052	813052	195 - 315	3 - 25	395	TT35
Schunk	315	Rota NCF 315	V = 1/16" x 90°	N = 21	TD046	812046	190 - 315	3 - 25	395	TT35
Schunk	315	Rota NCF 315	V = 1,5mm x 60°	N = 18	TM050	813050	195 - 315	3 - 25	395	GN78
Schunk	315	Rota NCF plus 315	V = 1/16" x 90°	N = 21	TD046	812046	195 - 315	3 - 25	395	TT46
Schunk	315	Rota NCF plus 315	V = 1,5mm x 60°	N = 21	TM052	813052	195 - 315	3 - 25	395	TT40
Schunk	315	Rota NCK plus 315	V = 1/16" x 90°	N = 21	TD046	812046	185 - 304	3 - 25	385	TT46
Schunk	315	Rota NCK plus 315	V = 1,5mm x 60°	N = 21	TM052	813052	190 - 304	3 - 25	385	TT40
Schunk	315	Rota NCO 315	V = 1/16" x 90°	N = 21	TD046	812046	185 - 315	3 - 25	395	TT46
Schunk	315	Rota NCW 315-91	S = 12mm	N = 20	TK040	811040	150 - 303	3 - 25	385	
Schunk	315	Rota S plus 315	S = 12mm	N = 26	TK050	811050	150 - 323	3 - 25	405	
Schunk	315	Rota THW 315-86	S = 12mm	N = 20	TK040	811040	150 - 303	3 - 25	385	
Schunk	315	Rota THW plus 315-104	S = 12mm	N = 20	TK040	811040	150 - 315	3 - 25	395	
Schunk	315	THF 315	V = 1/16" x 90°	N = 21	TD046	812046	175 - 315	3 - 25	395	TT35
Schunk	380	THF 380	V = 3/32" x 90°	N = 25,5	TD066	812066	265 - 380	6 - 50	490	GN40
Schunk	400	Rota G 400	S = 12mm	N = 26	TK060	811060	250 - 394	6 - 50	500	
Schunk	400	Rota NC 400	V = 3/32" x 90°	N = 25,5	TD066	812066	285 - 400	6 - 50	510	GN40
Schunk	400	Rota NC 400	V = 1,5mm x 60°	N = 22	TM060	813060	265 - 400	6 - 50	510	GP15
Schunk	400	Rota NCD 400	V = 3/32" x 90°	N = 25,5	TD066	812066	270 - 400	6 - 50	510	GN40
Schunk	400	Rota NCF 400	V = 3/32" x 90°	N = 25,5	TD066	812066	285 - 390	6 - 50	500	GN40
Schunk	400	Rota NCF 400	V = 1,5mm x 60°	N = 22	TM060	813060	265 - 400	6 - 50	510	GP15
Schunk	400	Rota NCO 400	V = 3/32" x 90°	N = 25,5	TD066	812066	260 - 400	6 - 50	510	GE40
Schunk	400	Rota S plus 400	S = 18mm	N = 30	TK080	811080	250 - 408	6 - 50	515	
Schunk	400	Rota THW 400	S = 12mm	N = 26	TK060	811060	250 - 376	6 - 50	485	
Schunk	400	Rota THW 400-120	S = 12mm	N = 26	TK060	811060	250 - 376	6 - 50	485	
Schunk	400	Rota THW plus 400	S = 12mm	N = 26	TK060	811060	250 - 376	6 - 50	485	
Schunk	400	Rota THW plus 400	S = 12mm	N = 26	TK060	811060	250 - 376	6 - 50	485	
Schunk	500	Rota G 500	S = 18mm	N = 30	TK080	811080	250 - 507	6 - 50	615	
Schunk	500	Rota S plus 500	S = 18mm	N = 30	TK080	811080	250 - 507	6 - 50	615	
Schunk	500	Rota THW plus 500	S = 18mm	N = 30	TK080	811080	250 - 463	6 - 50	570	
Schunk	630	Rota G 630	S = 18mm	N = 30	TK080	811080	250 - 639	6 - 50	745	

Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoTop® Typ- bezeichnung InoTop® type	Ident-Nr. ident no.	Spann- bereich [außen] clamping range [external]	Bauteil- wand- stärke wall thick- ness of work- piece	Schwing- kreis swing	Nuten- stein T-Nut
			S [mm] / V	N [mm]			min./max.	min./max. [mm]		
Schunk	630	Rota THW 630-160	S = 18mm	N = 30	TK080	811080	250 - 586	6 - 50	695	
Schunk	630	Rota THW plus 630	S = 18mm	N = 30	TK080	811080	250 - 583	6 - 50	690	

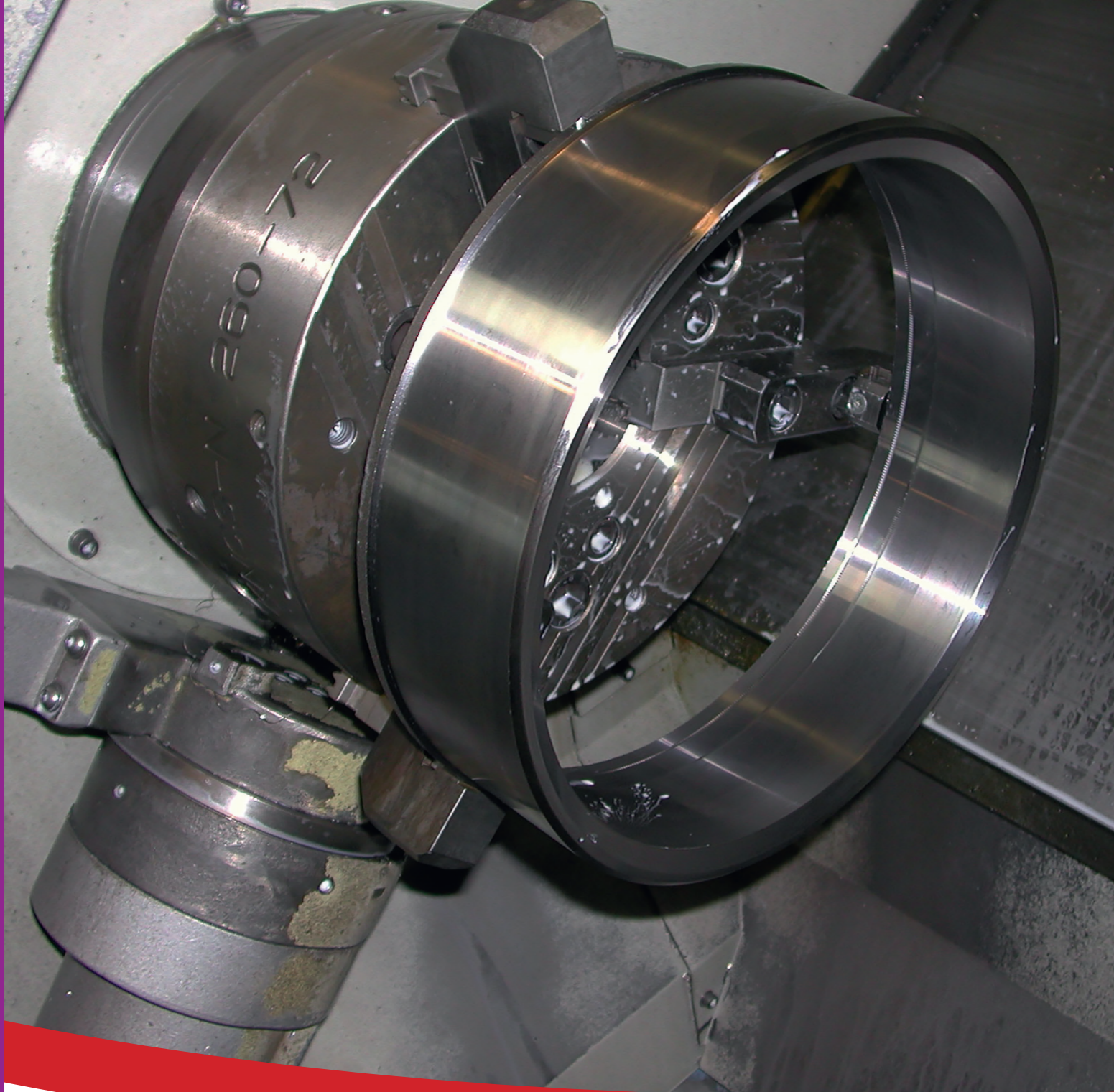
SMW Autoblok	200	HF/S 200-48	V = 1/16" x 90°	N = 17	TD040	812040	150 - 200	3 - 25	280	GG20
SMW Autoblok	200	HF/S 200-66	V = 1/16" x 90°	N = 17	TD040	812040	150 - 200	3 - 25	280	GG20
SMW Autoblok	200	KNCS 200	S = 10mm	N = 20	TK030	811030	150 - 198	3 - 25	280	
SMW Autoblok	210	AL-D 210	V = 1/16" x 90°	N = 17	TD040	812040	150 - 210	3 - 25	290	GF212
SMW Autoblok	210	AL-M 210	V = 1,5mm x 60°	N = 14	TM030	813030	155 - 210	3 - 25	290	GF213
SMW Autoblok	210	AN-D 210	V = 1/16" x 90°	N = 17	TD040	812040	150 - 210	3 - 25	290	GF212
SMW Autoblok	210	AN-M 210	V = 1,5mm x 60°	N = 14	TM030	813030	150 - 210	3 - 25	290	GF213
SMW Autoblok	210	BB-D 210	V = 1/16" x 90°	N = 17	TD040	812040	150 - 210	3 - 25	290	GF212
SMW Autoblok	210	BB-M 210	V = 1,5mm x 60°	N = 14	TM030	813030	155 - 210	3 - 25	290	GF213
SMW Autoblok	210	BH-D 210	V = 1/16" x 90°	N = 17	TD040	812040	150 - 210	3 - 25	290	GF212
SMW Autoblok	210	BH-M 210	V = 1,5mm x 60°	N = 14	TM030	813030	150 - 210	3 - 25	290	GF213
SMW Autoblok	210	BHD-FC 210	V = 1/16" x 90°	N = 17	TD040	812040	150 - 210	3 - 25	290	GF212
SMW Autoblok	210	BHM-FC 210	V = 1,5mm x 60°	N = 14	TM030	813030	150 - 210	3 - 25	290	GF213
SMW Autoblok	210	HFKN-D 210	V = 1/16" x 90°	N = 17	TD040	812040	150 - 210	3 - 25	290	GF212
SMW Autoblok	210	HFKN-M 210	V = 1,5mm x 60°	N = 14	TM030	813030	150 - 210	3 - 25	290	GF213
SMW Autoblok	210	HG-F 210	S = 10mm	N = 20	TK030	811030	150 - 198	3 - 25	280	
SMW Autoblok	210	HG-N 210	S = 10mm	N = 20	TK030	811030	150 - 201	3 - 25	285	
SMW Autoblok	210	KNCS 210	S = 10mm	N = 20	TK030	811030	150 - 203	3 - 25	285	
SMW Autoblok	210	KNCS-N 210	S = 10mm	N = 20	TK030	811030	150 - 215	3 - 25	295	
SMW Autoblok	225	KNCS-N 225	S = 10mm	N = 20	TK030	811030	150 - 225	3 - 25	310	
SMW Autoblok	250	AL-D 250	V = 1/16" x 90°	N = 21	TD046	812046	170 - 254	3 - 25	335	TT46
SMW Autoblok	250	AL-M 250	V = 1,5mm x 60°	N = 16	TM040	813040	175 - 254	3 - 25	335	TT24
SMW Autoblok	250	AN-D 250	V = 1/16" x 90°	N = 21	TD046	812046	165 - 254	3 - 25	335	TT46
SMW Autoblok	250	AN-M 250	V = 1,5mm x 60°	N = 16	TM040	813040	170 - 254	3 - 25	335	TT24
SMW Autoblok	250	BB-D 250	V = 1/16" x 90°	N = 21	TD046	812046	175 - 254	3 - 25	335	TT46
SMW Autoblok	250	BB-M 250	V = 1,5mm x 60°	N = 16	TM040	813040	180 - 254	3 - 25	335	TT24
SMW Autoblok	250	BH-D 250	V = 1/16" x 90°	N = 21	TD046	812046	165 - 254	3 - 25	335	TT46
SMW Autoblok	250	BH-M 250	V = 1,5mm x 60°	N = 16	TM040	813040	170 - 254	3 - 25	335	TT24
SMW Autoblok	250	BHD-FC 250	V = 1/16" x 90°	N = 21	TD046	812046	165 - 250	3 - 25	330	TT46
SMW Autoblok	250	BHM-FC 250	V = 1,5mm x 60°	N = 16	TM040	813040	170 - 250	3 - 25	330	TT24
SMW Autoblok	250	HB-D 250	V = 1/16" x 90°	N = 21	TD046	812046	175 - 260	3 - 25	340	*
SMW Autoblok	250	HF/S 250-70	V = 1/16" x 90°	N = 21	TD046	812046	165 - 250	3 - 25	330	TT35
SMW Autoblok	250	KNCS 250	S = 12mm	N = 20	TK040	811040	150 - 247	3 - 25	330	
SMW Autoblok	260	HFKN-D 260	V = 1/16" x 90°	N = 21	TD046	812046	165 - 254	3 - 25	335	TT46
SMW Autoblok	260	HFKN-M 260	V = 1,5mm x 60°	N = 21	TM040	813040	170 - 260	3 - 25	340	*
SMW Autoblok	260	HG-F 260	S = 12mm	N = 20	TK040	811040	150 - 249	3 - 25	330	

Futterspezifische Daten Chuck specific data



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoTop® Typ- bezeichnung InoTop® type	Ident-Nr. ident no.	Spann- bereich [außen] clamping range [external]	Bauteil- wand- stärke wall thick- ness of work- piece	Schwing- kreis swing	Nuten- stein T-Nut
			min./max.	min./max. [mm]			ø [mm]			
SMW Autoblok	260	HG-N 260	S = 12mm	N = 20	TK040	811040	150 - 249	3 - 25	330	
SMW Autoblok	260	KNCS 260	S = 12mm	N = 20	TK040	811040	150 - 258	3 - 25	340	
SMW Autoblok	260	KNCS-N 260	S = 12mm	N = 20	TK040	811040	150 - 258	3 - 25	340	
SMW Autoblok	270	HFK/S 270-82	V = 1/16" x 90°	N = 21	TD046	812046	175 - 270	3 - 25	350	TT35
SMW Autoblok	275	KNCS-N 275	S = 12mm	N = 20	TK040	811040	150 - 273	3 - 25	355	
SMW Autoblok	315	AL-D 315	V = 1/16" x 90°	N = 21	TD046	812046	185 - 315	3 - 25	395	TT46
SMW Autoblok	315	AL-M 315	V = 1,5mm x 60°	N = 21	TM052	813052	190 - 315	3 - 25	395	GF34
SMW Autoblok	315	AN-D 315	V = 1/16" x 90°	N = 21	TD046	812046	180 - 315	3 - 25	395	TT46
SMW Autoblok	315	AN-M 315	V = 1,5mm x 60°	N = 21	TM052	813052	185 - 315	3 - 25	395	GF34
SMW Autoblok	315	BB-D 315	V = 1/16" x 90°	N = 21	TD046	812046	225 - 315	3 - 25	395	TT46
SMW Autoblok	315	BB-M 315	V = 1,5mm x 60°	N = 21	TM052	813052	230 - 315	3 - 25	395	GF34
SMW Autoblok	315	BH-D 315	V = 1/16" x 90°	N = 21	TD046	812046	195 - 315	3 - 25	395	TT46
SMW Autoblok	315	BH-M 315	V = 1,5mm x 60°	N = 21	TM052	813052	200 - 315	3 - 25	395	GF34
SMW Autoblok	315	BHD-FC 315	V = 1/16" x 90°	N = 21	TD046	812046	195 - 315	3 - 25	395	TT46
SMW Autoblok	315	BHM-FC 315	V = 1,5mm x 60°	N = 21	TM052	813052	200 - 315	3 - 25	395	GF34
SMW Autoblok	315	HB-D 315	V = 1/16" x 90°	N = 21	TD046	812046	190 - 315	3 - 25	395	*
SMW Autoblok	315	HFK/S 315-86	V = 1/16" x 90°	N = 21	TD046	812046	185 - 315	3 - 25	395	TT35
SMW Autoblok	315	HFKN-D 315	V = 1/16" x 90°	N = 21	TD046	812046	205 - 315	3 - 25	395	TT46
SMW Autoblok	315	HFKN-M 315	V = 1,5mm x 60°	N = 21	TM052	813052	210 - 315	3 - 25	395	GF34
SMW Autoblok	315	HG-F 315	S = 12mm	N = 26	TK050	811050	150 - 315	3 - 25	395	
SMW Autoblok	315	HG-N 315	S = 12mm	N = 20	TK040	811040	150 - 305	3 - 25	385	
SMW Autoblok	315	KNCS 315-77	S = 12mm	N = 20	TK040	811040	150 - 303	3 - 25	385	
SMW Autoblok	315	KNCS 315-91	S = 12mm	N = 20	TK040	811040	150 - 314	3 - 25	395	
SMW Autoblok	315	KNCS-N 315	S = 12mm	N = 20	TK040	811040	150 - 315	3 - 25	395	
SMW Autoblok	315	NT-D 315	V = 1/16" x 90°	N = 21	TD046	812046	180 - 315	3 - 25	395	TT46
SMW Autoblok	325	KNCS-N 325	S = 12mm	N = 20	TK040	811040	150 - 324	3 - 25	405	
SMW Autoblok	340	KNCS-N 340	S = 12mm	N = 20	TK040	811040	165 - 340	3 - 25	420	
SMW Autoblok	340	KNCS-N 340	S = 12mm	N = 20	TK040	811040	165 - 340	3 - 25	420	
SMW Autoblok	400	AN-D 400	V = 3/32" x 90°	N = 25,5	TD066	812066	285 - 390	6 - 50	500	GE40
SMW Autoblok	400	AN-M 400	V = 1,5mm x 60°	N = 22	TM060	813060	285 - 390	6 - 50	500	X7960
SMW Autoblok	400	BH-D 400	V = 3/32" x 90°	N = 25,5	TD066	812066	285 - 390	6 - 50	500	GE40
SMW Autoblok	400	BH-M 400	V = 1,5mm x 60°	N = 22	TM060	813060	285 - 390	6 - 50	500	X7960
SMW Autoblok	400	BHD-FC 400	V = 3/32" x 90°	N = 25,5	TD066	812066	285 - 390	6 - 50	500	GE40
SMW Autoblok	400	HFK/S 400-120	V = 3/32" x 90°	N = 25,5	TD066	812066	285 - 400	6 - 50	510	GN40
SMW Autoblok	400	HFKN-D 400-128	V = 3/32" x 90°	N = 25,5	TD066	812066	250 - 400	6 - 50	510	GN40
SMW Autoblok	400	HG-F 400	S = 18mm	N = 30	TK080	811080	250 - 400	6 - 50	510	
SMW Autoblok	400	HG-N 400	S = 12mm	N = 26	TK060	811060	250 - 372	6 - 50	480	
SMW Autoblok	400	KNCS 400-92	S = 12mm	N = 26	TK060	811060	250 - 375	6 - 50	485	
SMW Autoblok	400	KNCS-N 400	S = 12mm	N = 26	TK060	811060	250 - 400	6 - 50	510	

Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoTop® Typ- bezeichnung InoTop® type	Ident-Nr. ident no.	Spann- bereich [außen] clamping range [external]	Bauteil- wand- stärke wall thick- ness of work- piece	Schwing- kreis swing	Nuten- stein T-Nut
			min./max.	min./max. [mm]			ø [mm]			
SMW Autoblok	400	KNCS-N 400	S = 12mm	N = 26	TK060	811060	250 - 400	6 - 50	510	
SMW Autoblok	500	HG-N 500	S = 18mm	N = 30	TK080	811080	250 - 462	6 - 50	570	
SMW Autoblok	500	KNCS 500-128/92	S = 18mm	N = 30	TK080	811080	250 - 465	6 - 50	575	
SMW Autoblok	500	KNCS-N 500	S = 18mm	N = 30	TK080	811080	250 - 492	6 - 50	600	
SMW Autoblok	630	HG-N 630	S = 18mm	N = 30	TK080	811080	262 - 622	6 - 50	730	
SMW Autoblok	630	KNCS 630	S = 18mm	N = 30	TK080	811080	250 - 584	6 - 50	690	
SMW Autoblok	630	KNCS-N 630	S = 18mm	N = 30	TK080	811080	250 - 583	6 - 50	690	



Prägespanntechnik für die Drehbearbeitung Stamping technique for turning

Geringe Spannkraft, maximale Haltekraft

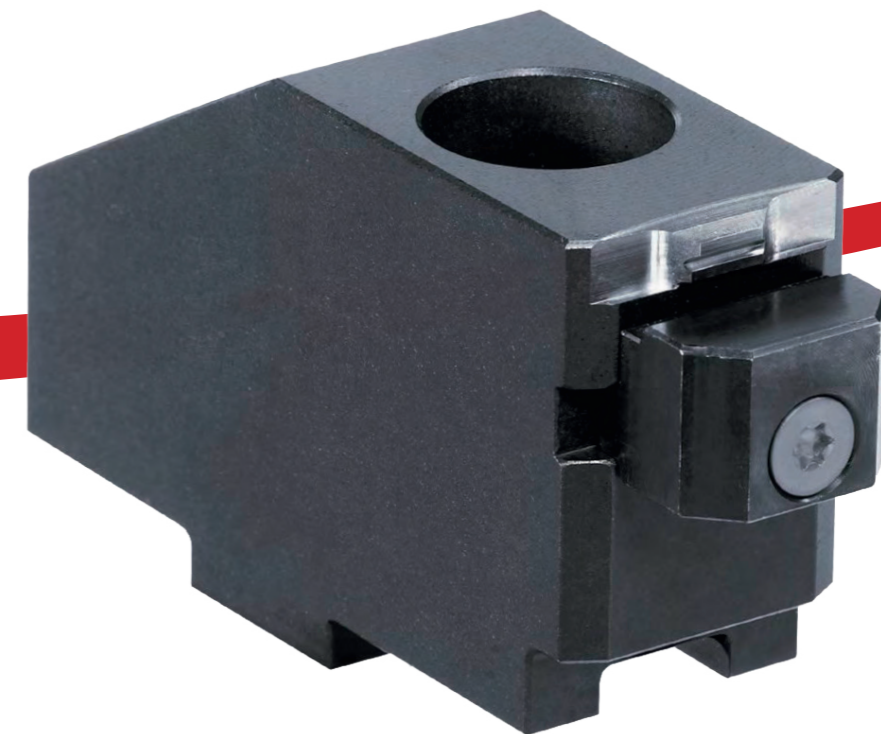
Durch die patentierte Prägespanntechnik wird mittels einer Prägestation ein Formschluss hergestellt, der beim Spannen eine bis zu Faktor 10 höhere Haltekraft als herkömmliche Greiferbacken ermöglicht. So kann der Spanndruck reduziert und die Verformung des Bauteils minimiert werden.

- Geringe Spannkraft
- Hohe Haltekraft
- Vermeidung von Polygonbildung
- Höchste Rundlaufgenauigkeiten
- Einsetzbar auf allen gängigen Spannfuttern

Low clamping force, maximum holding force

Due to the patented stamping technology by using a stamping station, the workpieces are clamped form fitting. This form fitting clamping generates up to 10 times higher holding force than conventional gripper jaws. Thus, the clamping pressure can be reduced and the deformation of the workpieces will be minimized.

- Low clamping force
- High holding force
- Polygon formation prevented
- Best roundness results
- Can be used on all standard chucks



Einsatzgebiete von InoGrip®:

- Spannen von verformungsempfindlichen Bauteilen
- Zerspanen mit maximalen Schnittwerten

Uses for InoGrip®:

- Clamping deformation sensitive parts
- Machining with maximum cutting values



Maximale Flexibilität
Maximum flexibility

Formschluss beim Drehen

Durch das Prägen des Werkstückes wird ein Formschluss hergestellt.

Das Werkstück wird zunächst in der Prägestation geprägt. Dieser Formschluss macht es nun möglich, das Werkstück mit nur noch einem Bruchteil der bisher erforderlichen Spannkraft prozesssicher zu spannen. Durch das formschlüssige Spannen sind nur noch minimale Spannrandzugaben erforderlich.

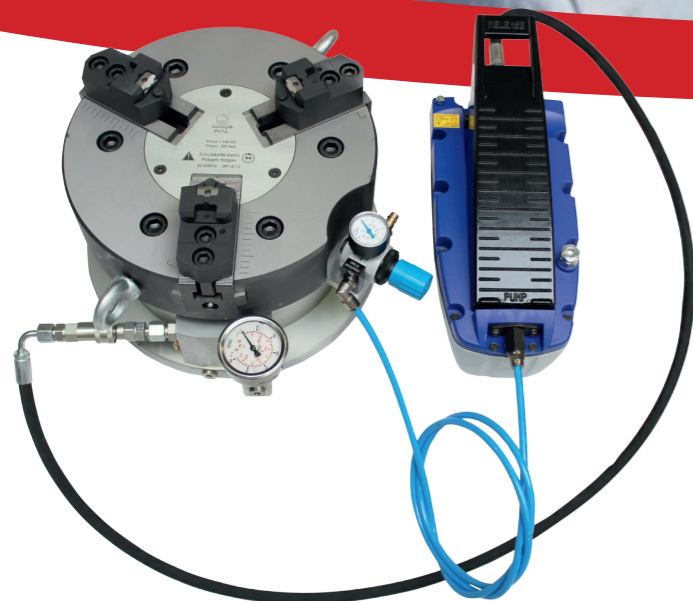
Darüber hinaus liefert der Orientierungszahn einen absolut präzisen Referenzbezug, der es ermöglicht, Werkstücke wiederholgenau im Spannfutter aufzunehmen.

Turning with positive fit

The workpiece is stamped to produce a positive fit.

First of all, the workpiece is stamped in the stamping station. This positive fit now makes it possible to reliably clamp the workpiece with just a fraction of the previously necessary clamping force. Positive-fit clamping means that only minimum allowances need to be made for the clamping edge.

In addition, the stopper tooth provides an absolutely precise reference point for re-inserting workpieces in the chuck with a high degree of repeat accuracy.



Prägespanntechnik fürs Drehen
Stamping technique for turning

InoGrip®-Prägestation zum Prägen der Werkstücke. Technische Daten für die Prägestation PV16 siehe Seite 125.

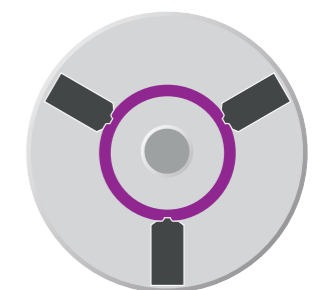
InoGrip® stamping-unit for stamping workpieces. Technical data of the stamping-unit PV16 on page 125.

Das Funktionsprinzip
How it works

Maximale Haltekräfte durch formschlüssiges Spannen.
Positive-fit clamping for maximum holding forces.

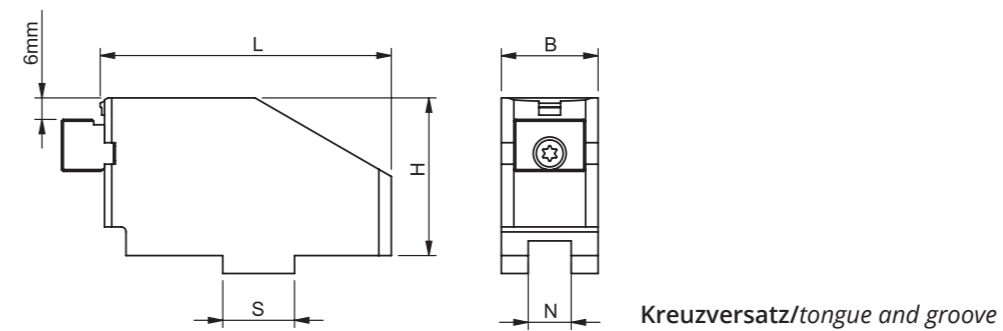
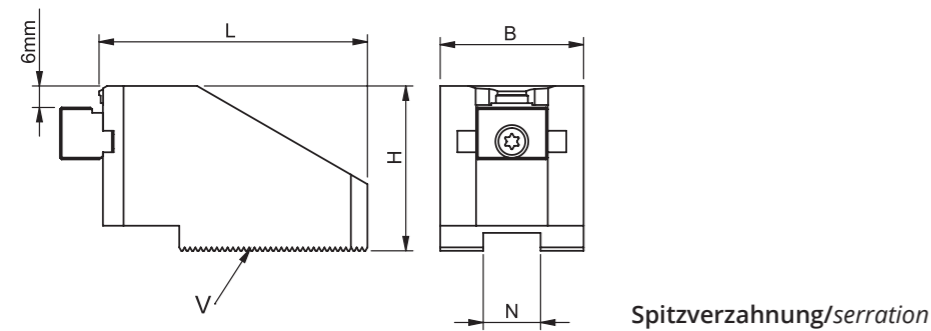


Polygonbildung beim konventionellen Spannen.
Polygon formation with conventional clamping



Verformungsarmes Spannen mit InoGrip®
Low-deformation clamping with InoGrip®

Allgemeine Daten General data



InoGrip® InoGrip®	Ident-Nr. ident no.	Breite width	Höhe height	Länge length	Backenanschluss des Futter Jaw-connection of the Chuck		Gewicht weight
		B [mm]	H [mm]	L [mm]	S [mm] / V	N [mm]	
KT10	501045	25	44	64	S = 18	N = 8	1,1
KT12	501050	25	44	58	S = 18	N = 8	1,1
KT14	501055	25	44	80	S = 18	N = 8	1,2
KT20	501030	27	44	82,5	S = 20	N = 10	1,2
KT22	501035	27	44	74	S = 20	N = 10	1,2
KT24	501040	27	44	99	S = 20	N = 10	1,3
KT30	501010	27	49	83	S = 20	N = 12	1,3
KT32	501015	27	49	74	S = 20	N = 12	1,4
KT34	501020	27	49	102	S = 20	N = 12	1,5
KT40	501047	32	49	97	S = 26	N = 12	2,3
KT42	501048	32	49	88	S = 26	N = 12	2,1
KT50	501070	50	59	115	S = 30	N = 18	5,2
KT52	501072	50	59	100	S = 30	N = 18	4,2
ZF20	511020	35	42	57	V = 1,5mm x 60°	N = 12	1,4
ZF22	511022	35	42	47,5	V = 1,5mm x 60°	N = 12	1,4
ZF24	511024	35	42	49,5	V = 1,5mm x 60°	N = 12	1,3
ZF26	511026	35	42	63	V = 1,5mm x 60°	N = 12	1,5
ZF30	511030	40	45	77	V = 1,5mm x 60°	N = 14	1,5
ZF31	511031	40	45	57	V = 1,5mm x 60°	N = 14	1,5
ZF32	511032	40	45	52,5	V = 1,5mm x 60°	N = 14	1,5
ZF33	511033	40	45	63	V = 1,5mm x 60°	N = 14	1,6
ZF40	511040	40	48	84	V = 1,5mm x 60°	N = 16	1,5
ZF41	511041	40	48	59,5	V = 1,5mm x 60°	N = 16	1,5
ZF42	511042	40	48	58,5	V = 1,5mm x 60°	N = 16	1,5
ZF43	511043	40	48	72	V = 1,5mm x 60°	N = 16	1,6
ZF50	511050	50	49	88,5	V = 1,5mm x 60°	N = 18	3,5
ZF51	511051	50	49	64,5	V = 1,5mm x 60°	N = 18	2,5
ZF52	511052	50	49	66	V = 1,5mm x 60°	N = 18	2,5
ZF53	511053	50	49	82,5	V = 1,5mm x 60°	N = 18	2,8

InoGrip® InoGrip®	Ident-Nr. ident no.	Breite width	Höhe height	Länge length	Backenanschluss des Futter Jaw-connection of the Chuck		Gewicht weight
		B [mm]	H [mm]	L [mm]	S [mm] / V	N [mm]	
ZF60	511060	45	50	99,5	V = 1,5mm x 60°	N = 21	4,0
ZF61	511061	45	50	64,5	V = 1,5mm x 60°	N = 21	2,5
ZF62	511062	45	50	66	V = 1,5mm x 60°	N = 21	2,5
ZF63	511063	45	50	91,5	V = 1,5mm x 60°	N = 21	2,8
ZG10	515010	32	42	47,2	V = 1/16" x 90°	N = 12	1,4
ZG12	515012	32	42	50,5	V = 1/16" x 90°	N = 12	1,5
ZG14	515014	32	42	55,5	V = 1/16" x 90°	N = 12	1,5
ZG20	515020	32	42	57	V = 1/16" x 90°	N = 14	1,5
ZG22	515022	32	42	47	V = 1/16" x 90°	N = 14	1,5
ZG24	515024	32	42	50,5	V = 1/16" x 90°	N = 14	1,4
ZG26	515026	32	42	55,5	V = 1/16" x 90°	N = 14	1,6
ZG30	515030	38	44	70	V = 1/16" x 90°	N = 17	1,5
ZG31	515031	38	44	62	V = 1/16" x 90°	N = 17	1,4
ZG32	515032	38	44	53,5	V = 1/16" x 90°	N = 17	1,3
ZG36	515036	38	44	54	V = 1/16" x 90°	N = 17	1,2
ZG39	515039	38	44	68	V = 1/16" x 90°	N = 17	1,2
ZG40	515040	45	48	84,5	V = 1/16" x 90°	N = 21	2,9
ZG42	515042	45	48	63	V = 1/16" x 90°	N = 21	2,7
ZG44	515044	45	48	68	V = 1/16" x 90°	N = 21	2,5
ZG46	515046	45	48	81	V = 1/16" x 90°	N = 21	2,5
ZD30	510030	40	48	70,5	V = 1/16" x 90°	N = 12	1,5
ZD31	510031	40	48	50,5	V = 1/16" x 90°	N = 12	1,5
ZD33	510033	40	48	55,5	V = 1/16" x 90°	N = 12	1,6
ZD35	510035	40	48	65	V = 1/16" x 90°	N = 12	1,7
ZD40	510040	40	58	105	V = 1/16" x 90°	N = 16	4,0
ZD41	510041	40	58	89	V = 1/16" x 90°	N = 16	3,7
ZD42	510042	40	58	71	V = 1/16" x 90°	N = 16	3,5
ZD44	510044	40	58	70	V = 1/16" x 90°	N = 16	3,5
ZD48	510048	38	58	88,5	V = 1/16" x 90°	N = 16	3,5

Futterspezifische Daten Chuck specific data



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
Auto Strong	210	N-208	V = 1,5mm x 60°	N = 14	ZF30	511030	30 - 79	230	GP 55
Auto Strong	210	N-208	V = 1,5mm x 60°	N = 14	ZF31	511031	63 - 119	230	GP 55
Auto Strong	210	N-208	V = 1,5mm x 60°	N = 14	ZF32	511032	119 - 157	220	GP 56
Auto Strong	210	N-208	V = 1,5mm x 60°	N = 14	ZF33	511033	155 - 210	260	GP 55
Auto Strong	210	V-208	V = 1,5mm x 60°	N = 14	ZF30	511030	31 - 77	230	**
Auto Strong	210	V-208	V = 1,5mm x 60°	N = 14	ZF31	511031	71 - 117	230	**
Auto Strong	210	V-208	V = 1,5mm x 60°	N = 14	ZF32	511032	127 - 155	220	**
Auto Strong	210	V-208	V = 1,5mm x 60°	N = 14	ZF33	511033	163 - 209	260	**
Auto Strong	254	N-210	V = 1,5mm x 60°	N = 16	ZF40	511040	31 - 95	260	GP 60
Auto Strong	254	N-210	V = 1,5mm x 60°	N = 16	ZF41	511041	80 - 144	260	GP 60
Auto Strong	254	N-210	V = 1,5mm x 60°	N = 16	ZF42	511042	143 - 191	260	GP 11
Auto Strong	254	N-210	V = 1,5mm x 60°	N = 16	ZF43	511043	187 - 251	305	GP 60
Auto Strong	254	V-210	V = 1,5mm x 60°	N = 16	ZF40	511040	30 - 95	260	**
Auto Strong	254	V-210	V = 1,5mm x 60°	N = 16	ZF41	511041	74 - 144	260	**
Auto Strong	254	V-210	V = 1,5mm x 60°	N = 16	ZF42	511042	137 - 191	260	**
Auto Strong	254	V-210	V = 1,5mm x 60°	N = 16	ZF43	511043	181 - 251	305	**
Auto Strong	304	N-212	V = 1,5mm x 60°	N = 21	ZF60	511060	37 - 117	315	GP 80
Auto Strong	304	N-212	V = 1,5mm x 60°	N = 21	ZF61	511061	107 - 187	315	GP 80
Auto Strong	304	N-212	V = 1,5mm x 60°	N = 21	ZF62	511062	175 - 237	315	GP 85
Auto Strong	304	N-212	V = 1,5mm x 60°	N = 21	ZF63	511063	246 - 304	360	GP 80
Auto Strong	304	V-212	V = 1,5mm x 60°	N = 18	ZF50	511050	53 - 141	315	GP 70
Auto Strong	304	V-212	V = 1,5mm x 60°	N = 18	ZF51	511051	101 - 189	315	GP 70
Auto Strong	304	V-212	V = 1,5mm x 60°	N = 18	ZF52	511052	169 - 239	315	GP 75
Auto Strong	304	V-212	V = 1,5mm x 60°	N = 18	ZF53	511053	219 - 304	365	GP 70
Berg	175	KH 175	V = 1/16" x 90°	N = 12	ZD30	510030	30 - 47	185	GB 13
Berg	175	KH 175	V = 1/16" x 90°	N = 12	ZD31	510031	57 - 87	185	GB 13
Berg	175	KH 175	V = 1/16" x 90°	N = 12	ZD33	510033	111 - 123	190	GB 13
Berg	175	KH 175	V = 1/16" x 90°	N = 12	ZD35	510035	148 - 175	225	GB 13
Berg	200	KH 200	V = 1/16" x 90°	N = 12	ZD30	510030	31 - 71	205	GB 13
Berg	200	KH 200	V = 1/16" x 90°	N = 12	ZD31	510031	71 - 111	205	GB 13
Berg	200	KH 200	V = 1/16" x 90°	N = 12	ZD33	510033	125 - 147	215	GB 13
Berg	200	KH 200	V = 1/16" x 90°	N = 12	ZD35	510035	162 - 200	250	GB 13
Berg	250	KH 250	V = 1/16" x 90°	N = 16	ZD40	510040	30 - 57	260	GB 16
Berg	250	KH 250	V = 1/16" x 90°	N = 16	ZD41	510041	57 - 89	260	GB 16
Berg	250	KH 250	V = 1/16" x 90°	N = 16	ZD42	510042	93 - 125	260	GB 16
Berg	250	KH 250	V = 1/16" x 90°	N = 16	ZD44	510044	168 - 182	260	GB 16
Berg	250	KH 250	V = 1/16" x 90°	N = 16	ZD48	510048	226 - 250	310	GB 16
Berg	315	KH 315	V = 1/16" x 90°	N = 16	ZD40	510040	53 - 121	325	GB 16

Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
Berg	315	KH 315	V = 1/16" x 90°	N = 16	ZD41	510041	85 - 153	325	GB 16
Berg	315	KH 315	V = 1/16" x 90°	N = 16	ZD42	510042	121 - 189	325	GB 16
Berg	315	KH 315	V = 1/16" x 90°	N = 16	ZD44	510044	196 - 246	325	GB 16
Berg	315	KH 315	V = 1/16" x 90°	N = 16	ZD48	510048	254 - 315	375	GB 16
Forkardt	160	F+ 160	S = 8mm	N = 18	KT10	501045	30 - 52	120	
Forkardt	160	F+ 160	S = 8mm	N = 18	KT12	501050	61 - 105	145	
Forkardt	160	F+ 160	S = 8mm	N = 18	KT14	501055	125 - 161	190	
Forkardt	160	KS 160	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 32	165	GN 50
Forkardt	160	KS 160	V = 1/16" x 90°	N = 17	ZG31	515031	30 - 48	165	GN 50
Forkardt	160	KS 160	V = 1/16" x 90°	N = 17	ZG32	515032	30 - 64	165	GN 50
Forkardt	160	KS 160	V = 1/16" x 90°	N = 17	ZG36	515036	79 - 103	165	GN 50
Forkardt	160	KS 160	V = 1/16" x 90°	N = 17	ZG39	515039	117 - 159	210	GN 50
Forkardt	160	KTN/G 160	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 34	170	GN 50
Forkardt	160	KTN/G 160	V = 1/16" x 90°	N = 17	ZG31	515031	32 - 50	170	GN 50
Forkardt	160	KTN/G 160	V = 1/16" x 90°	N = 17	ZG32	515032	49 - 66	170	GN 50
Forkardt	160	KTN/G 160	V = 1/16" x 90°	N = 17	ZG36	515036	105 - 105	170	GN 50
Forkardt	160	KTN/G 160	V = 1/16" x 90°	N = 17	ZG39	515039	143 - 160	215	GN 50
Forkardt	160	NH/NHF 160-37	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 34	170	GN 50
Forkardt	160	NH/NHF 160-37	V = 1/16" x 90°	N = 17	ZG31	515031	30 - 50	170	GN 50
Forkardt	160	NH/NHF 160-37	V = 1/16" x 90°	N = 17	ZG32	515032	47 - 66	170	GN 50
Forkardt	160	NH/NHF 160-37	V = 1/16" x 90°	N = 17	ZG36	515036	103 - 105	170	GN 50
Forkardt	160	NH/NHF 160-37	V = 1/16" x 90°	N = 17	ZG39	515039	141 - 160	215	GN 50
Forkardt	160	QLC/K 160	V = 1,5mm x 60°	N = 12	ZF20	511020	30 - 62	175	GP 45
Forkardt	160	QLC/K 160	V = 1,5mm x 60°	N = 12	ZF22	511022	44 - 79	175	GP 45
Forkardt	160	QLC/K 160	V = 1,5mm x 60°	N = 12	ZF24	511024	95 - 111	175	GP 47
Forkardt	160	QLC/K 160	V = 1,5mm x 60°	N = 12	ZF26	511026	127 - 162	220	GP 45
Forkardt	160	QLC/K 160-38	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 36	170	GN 50
Forkardt	160	QLC/K 160-38	V = 1/16" x 90°	N = 17	ZG31	515031	30 - 52	170	GN 50
Forkardt	160	QLC/K 160-38	V = 1/16" x 90°	N = 17	ZG32	515032	41 - 68	175	GN 50
Forkardt	160	QLC/K 160-38	V = 1/16" x 90°	N = 17	ZG36	515036	97 - 107	170	GN 50
Forkardt	160	QLC/K 160-38	V = 1/16" x 90°	N = 17	ZG39	515039	135 - 162	215	GN 50
Forkardt	175	FNC 175	S = 8mm	N = 18	KT10	501045	30 - 101	170	
Forkardt	175	FNC 175	S = 8mm	N = 18	KT12	501050	63 - 154	195	
Forkardt	175	FNC 175	S = 8mm	N = 18	KT14	501055	127 - 180	210	
Forkardt	175	NH/NHF 175-42	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 48	185	GN 50
Forkardt	175	NH/NHF 175-42	V = 1/16" x 90°	N = 17	ZG31	515031	40 - 64	185	GN 50
Forkardt	175	NH/NHF 175-42	V = 1/16" x 90°	N = 17	ZG32	515032	57 - 80	185	GN 50
Forkardt	175	NH/NHF 175-42	V = 1/16" x 90°	N = 17	ZG36	515036	113 - 119	185	GN 50

Futterspezifische Daten Chuck specific data



Futterhersteller Manufacturer	Futter- größe Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
Forkardt	175	NH/NHF 175-42	V = 1/16" x 90°	N = 17	ZG39	515039	151 - 175	230	GN 50
Forkardt	175	QLC/K 175	V = 1,5mm x 60°	N = 12	ZF20	511020	30 - 76	190	GP 45
Forkardt	175	QLC/K 175	V = 1,5mm x 60°	N = 12	ZF22	511022	48 - 93	190	GP 45
Forkardt	175	QLC/K 175	V = 1,5mm x 60°	N = 12	ZF24	511024	99 - 125	185	GP 47
Forkardt	175	QLC/K 175	V = 1,5mm x 60°	N = 12	ZF26	511026	131 - 175	230	GP 45
Forkardt	175	QLC/K 175-42	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 50	185	GN 50
Forkardt	175	QLC/K 175-42	V = 1/16" x 90°	N = 17	ZG31	515031	30 - 66	185	GN 50
Forkardt	175	QLC/K 175-42	V = 1/16" x 90°	N = 17	ZG32	515032	45 - 82	185	GN 50
Forkardt	175	QLC/K 175-42	V = 1/16" x 90°	N = 17	ZG36	515036	101 - 121	185	GN 50
Forkardt	175	QLC/K 175-42	V = 1/16" x 90°	N = 17	ZG39	515039	139 - 175	230	GN 50
Forkardt	200	F+ 200	S = 10mm	N = 20	KT20	501030	30 - 110	195	
Forkardt	200	F+ 200	S = 10mm	N = 20	KT22	501035	65 - 177	230	
Forkardt	200	F+ 200	S = 10mm	N = 20	KT24	501040	145 - 206	245	
Forkardt	200	FNC 200	S = 10mm	N = 20	KT20	501030	30 - 110	195	
Forkardt	200	FNC 200	S = 10mm	N = 20	KT22	501035	65 - 177	230	
Forkardt	200	FNC 200	S = 10mm	N = 20	KT24	501040	145 - 206	245	
Forkardt	200	KS 200	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 70	205	GN 50
Forkardt	200	KS 200	V = 1/16" x 90°	N = 17	ZG31	515031	44 - 86	205	GN 50
Forkardt	200	KS 200	V = 1/16" x 90°	N = 17	ZG32	515032	61 - 102	205	GN 50
Forkardt	200	KS 200	V = 1/16" x 90°	N = 17	ZG36	515036	117 - 141	205	GN 50
Forkardt	200	KS 200	V = 1/16" x 90°	N = 17	ZG39	515039	155 - 197	250	GN 50
Forkardt	200	KTN/G 200	V = 1/16" x 90°	N = 17	ZG30	515030	42 - 72	210	GN 50
Forkardt	200	KTN/G 200	V = 1/16" x 90°	N = 17	ZG31	515031	58 - 88	210	GN 50
Forkardt	200	KTN/G 200	V = 1/16" x 90°	N = 17	ZG32	515032	75 - 104	210	GN 50
Forkardt	200	KTN/G 200	V = 1/16" x 90°	N = 17	ZG36	515036	131 - 143	205	GN 50
Forkardt	200	KTN/G 200	V = 1/16" x 90°	N = 17	ZG39	515039	169 - 199	255	GN 50
Forkardt	200	NH/NHF 200	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 74	210	GN 50
Forkardt	200	NH/NHF 200	V = 1/16" x 90°	N = 17	ZG31	515031	32 - 90	210	GN 50
Forkardt	200	NH/NHF 200	V = 1/16" x 90°	N = 17	ZG32	515032	49 - 106	210	GN 50
Forkardt	200	NH/NHF 200	V = 1/16" x 90°	N = 17	ZG36	515036	105 - 145	210	GN 50
Forkardt	200	NH/NHF 200	V = 1/16" x 90°	N = 17	ZG39	515039	143 - 200	255	GN 50
Forkardt	200	QLC/K 200	V = 1,5mm x 60°	N = 14	ZF30	511030	35 - 79	230	GP 55
Forkardt	200	QLC/K 200	V = 1,5mm x 60°	N = 14	ZF31	511031	75 - 119	230	GP 55
Forkardt	200	QLC/K 200	V = 1,5mm x 60°	N = 14	ZF32	511032	131 - 157	220	GP 56
Forkardt	200	QLC/K 200	V = 1,5mm x 60°	N = 14	ZF33	511033	167 - 210	260	GP 55
Forkardt	200	QLC/K 200	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 84	220	GN 50
Forkardt	200	QLC/K 200	V = 1/16" x 90°	N = 17	ZG31	515031	46 - 100	220	GN 50
Forkardt	200	QLC/K 200	V = 1/16" x 90°	N = 17	ZG32	515032	63 - 116	220	GN 50
Forkardt	200	QLC/K 200	V = 1/16" x 90°	N = 17	ZG36	515036	119 - 155	220	GN 50

Futterhersteller Manufacturer	Futter- größe Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
Forkardt	200	QLC/K 200	V = 1/16" x 90°	N = 17	ZG39	515039	157 - 210	265	GN 50
Forkardt	200	QLC/K-KS 200	V = 1/16" x 90°	N = 17	ZG30	515030	48 - 84	220	GN 50
Forkardt	200	QLC/K-KS 200	V = 1/16" x 90°	N = 17	ZG31	515031	64 - 100	220	GN 50
Forkardt	200	QLC/K-KS 200	V = 1/16" x 90°	N = 17	ZG32	515032	81 - 116	220	GN 50
Forkardt	200	QLC/K-KS 200	V = 1/16" x 90°	N = 17	ZG36	515036	137 - 155	220	GN 50
Forkardt	200	QLC/K-KS 200	V = 1/16" x 90°	N = 17	ZG39	515039	175 - 200	255	GN 50
Forkardt	250	F+ 250	S = 12mm	N = 20	KT30	501010	30 - 161	245	
Forkardt	250	F+ 250	S = 12mm	N = 20	KT32	501015	87 - 241	285	
Forkardt	250	F+ 250	S = 12mm	N = 20	KT34	501020	157 - 255	295	
Forkardt	250	FNC 250	S = 12mm	N = 20	KT30	501010	30 - 171	255	
Forkardt	250	FNC 250	S = 12mm	N = 20	KT32	501015	89 - 250	295	
Forkardt	250	FNC 250	S = 12mm	N = 20	KT34	501020	159 - 250	290	
Forkardt	250	KG 250	V = 1/16" x 90°	N = 21	ZG40	515040	30 - 93	255	GN 70
Forkardt	250	KG 250	V = 1/16" x 90°	N = 21	ZG42	515042	58 - 135	255	GN 70
Forkardt	250	KG 250	V = 1/16" x 90°	N = 21	ZG44	515044	125 - 179	255	GN 70
Forkardt	250	KG 250	V = 1/16" x 90°	N = 21	ZG46	515046	169 - 247	305	GN 70
Forkardt	250	KL 250	V = 1/16" x 90°	N = 21	ZG40	515040	30 - 93	255	GN 70
Forkardt	250	KL 250	V = 1/16" x 90°	N = 21	ZG42	515042	54 - 135	255	GN 70
Forkardt	250	KL 250	V = 1/16" x 90°	N = 21	ZG44	515044	121 - 179	255	GN 70
Forkardt	250	KL 250	V = 1/16" x 90°	N = 21	ZG46	515046	165 - 247	305	GN 70
Forkardt	250	KS 250	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 120	255	GN 50
Forkardt	250	KS 250	V = 1/16" x 90°	N = 17	ZG31	515031	44 - 136	255	GN 50
Forkardt	250	KS 250	V = 1/16" x 90°	N = 17	ZG32	515032	61 - 152	255	GN 50
Forkardt	250	KS 250	V = 1/16" x 90°	N = 17	ZG36	515036	117 - 191	255	GN 50
Forkardt	250	KS 250	V = 1/16" x 90°	N = 17	ZG39	515039	155 - 247	300	GN 50
Forkardt	250	KSH 250	V = 1/16" x 90°	N = 21	ZG40	515040	39 - 103	265	GN 70
Forkardt	250	KSH 250	V = 1/16" x 90°	N = 21	ZG42	515042	82 - 145	265	GN 70
Forkardt	250	KSH 250	V = 1/16" x 90°	N = 21	ZG44	515044	149 - 189	265	GN 70
Forkardt	250	KSH 250	V = 1/16" x 90°	N = 21	ZG46	515046	193 - 250	310	GN 70
Forkardt	250	KTN/G 250	V = 1/16" x 90°	N = 21	ZG40	515040	30 - 97	260	GN 70
Forkardt	250	KTN/G 250	V = 1/16" x 90°	N = 21	ZG42	515042	70 - 139	260	GN 70
Forkardt	250	KTN/G 250	V = 1/16" x 90°	N = 21	ZG44	515044	137 - 183	260	GN 70
Forkardt	250	KTN/G 250	V = 1/16" x 90°	N = 21	ZG46	515046	181 - 250	310	GN 70
Forkardt	250	KTNC 250	S = 12mm	N = 20	KT30	501010	30 - 112	200	
Forkardt	250	KTNC 250	S = 12mm	N = 20	KT32	501015	30 - 192	240	
Forkardt	250	KTNC 250	S = 12mm	N = 20	KT34	501020	95 - 250	290	
Forkardt	250	NH/NHF 250	V = 1/16" x 90°	N = 21	ZG40	515040	31 - 91	255	GN 70
Forkardt	250	NH/NHF 250	V = 1/16" x 90°	N = 21	ZG42	515042	74 - 133	255	GN 70
Forkardt	250	NH/NHF 250	V = 1/16" x 90°	N = 21	ZG44	515044	141 - 177	255	GN 70

Futterspezifische Daten Chuck specific data

Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
Forkardt	250	NH/NHF 250	V = 1/16" x 90°	N = 21	ZG46	515046	185 - 245	305	GN 70
Forkardt	250	QLC/K 250	V = 1/16" x 90°	N = 21	ZG40	515040	37 - 105	270	GN 70
Forkardt	250	QLC/K 250	V = 1/16" x 90°	N = 21	ZG42	515042	80 - 147	270	GN 70
Forkardt	250	QLC/K 250	V = 1/16" x 90°	N = 21	ZG44	515044	147 - 191	265	GN 70
Forkardt	250	QLC/K 250	V = 1/16" x 90°	N = 21	ZG46	515046	191 - 257	315	GN 70
Forkardt	250	QLC/K-KS 250	V = 1,5mm x 60°	N = 16	ZF40	511040	65 - 101	270	GN 50
Forkardt	250	QLC/K-KS 250	V = 1,5mm x 60°	N = 16	ZF41	511041	114 - 150	270	GN 50
Forkardt	250	QLC/K-KS 250	V = 1,5mm x 60°	N = 16	ZF42	511042	177 - 197	270	GN 50
Forkardt	250	QLC/K-KS 250	V = 1,5mm x 60°	N = 16	ZF43	511043	221 - 257	310	GN 50
Forkardt	250	QLC/K-KS 250	V = 1/16" x 90°	N = 21	ZG40	515040	61 - 105	270	GN 50
Forkardt	250	QLC/K-KS 250	V = 1/16" x 90°	N = 21	ZG42	515042	104 - 147	270	GN 50
Forkardt	250	QLC/K-KS 250	V = 1/16" x 90°	N = 21	ZG44	515044	171 - 191	265	GN 50
Forkardt	250	QLC/K-KS 250	V = 1/16" x 90°	N = 21	ZG46	515046	215 - 257	315	GN 50
Forkardt	250	QLC/QLK 250	V = 1,5mm x 60°	N = 16	ZF40	511040	31 - 101	270	GP 60
Forkardt	250	QLC/QLK 250	V = 1,5mm x 60°	N = 16	ZF41	511041	80 - 150	270	GP 60
Forkardt	250	QLC/QLK 250	V = 1,5mm x 60°	N = 16	ZF42	511042	143 - 197	270	GP 11
Forkardt	250	QLC/QLK 250	V = 1,5mm x 60°	N = 16	ZF43	511043	187 - 257	310	GP 60
Forkardt	315	F+ 315	S = 12mm	N = 26	KT40	501047	84 - 197	295	
Forkardt	315	F+ 315	S = 12mm	N = 26	KT42	501048	197 - 310	355	
Forkardt	315	FNC 315	S = 12mm	N = 20	KT30	501010	30 - 207	295	
Forkardt	315	FNC 315	S = 12mm	N = 20	KT32	501015	89 - 287	335	
Forkardt	315	FNC 315	S = 12mm	N = 20	KT34	501020	159 - 315	355	
Forkardt	315	KG 315	V = 1/16" x 90°	N = 21	ZG40	515040	35 - 159	320	GN 70
Forkardt	315	KG 315	V = 1/16" x 90°	N = 21	ZG42	515042	78 - 201	320	GN 70
Forkardt	315	KG 315	V = 1/16" x 90°	N = 21	ZG44	515044	145 - 245	320	GN 70
Forkardt	315	KG 315	V = 1/16" x 90°	N = 21	ZG46	515046	189 - 313	370	GN 70
Forkardt	315	KS 315	V = 1/16" x 90°	N = 21	ZG40	515040	30 - 157	320	GN 70
Forkardt	315	KS 315	V = 1/16" x 90°	N = 21	ZG42	515042	70 - 199	320	GN 70
Forkardt	315	KS 315	V = 1/16" x 90°	N = 21	ZG44	515044	137 - 243	320	GN 70
Forkardt	315	KS 315	V = 1/16" x 90°	N = 21	ZG46	515046	181 - 311	370	GN 70
Forkardt	315	KSH 315	V = 1/16" x 90°	N = 21	ZG40	515040	57 - 169	330	GN 70
Forkardt	315	KSH 315	V = 1/16" x 90°	N = 21	ZG42	515042	100 - 211	330	GN 70
Forkardt	315	KSH 315	V = 1/16" x 90°	N = 21	ZG44	515044	167 - 255	330	GN 70
Forkardt	315	KSH 315	V = 1/16" x 90°	N = 21	ZG46	515046	211 - 315	375	GN 70
Forkardt	315	KTN/G 315	V = 1/16" x 90°	N = 21	ZG40	515040	30 - 161	325	GN 70
Forkardt	315	KTN/G 315	V = 1/16" x 90°	N = 21	ZG42	515042	70 - 203	325	GN 70
Forkardt	315	KTN/G 315	V = 1/16" x 90°	N = 21	ZG44	515044	137 - 247	320	GN 70
Forkardt	315	KTN/G 315	V = 1/16" x 90°	N = 21	ZG46	515046	181 - 315	370	GN 70
Forkardt	315	KTNC 315	S = 12mm	N = 20	KT30	501010	30 - 172	260	



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
Forkardt	315	KTNC 315	S = 12mm	N = 20	KT32	501015	86 - 253	300	
Forkardt	315	KTNC 315	S = 12mm	N = 20	KT34	501020	156 - 315	355	
Forkardt	315	NH/NHF 315	V = 1/16" x 90°	N = 21	ZG40	515040	43 - 163	325	GN 70
Forkardt	315	NH/NHF 315	V = 1/16" x 90°	N = 21	ZG42	515042	86 - 205	325	GN 70
Forkardt	315	NH/NHF 315	V = 1/16" x 90°	N = 21	ZG44	515044	153 - 249	325	GN 70
Forkardt	315	NH/NHF 315	V = 1/16" x 90°	N = 21	ZG46	515046	197 - 315	375	GN 70
Forkardt	315	QLC/K 315	V = 1/16" x 90°	N = 21	ZG40	515040	53 - 169	330	GN 70
Forkardt	315	QLC/K 315	V = 1/16" x 90°	N = 21	ZG42	515042	96 - 211	330	GN 70
Forkardt	315	QLC/K 315	V = 1/16" x 90°	N = 21	ZG44	515044	163 - 255	330	GN 70
Forkardt	315	QLC/K 315	V = 1/16" x 90°	N = 21	ZG46	515046	207 - 320	380	GN 70
Forkardt	315	QLC/K 315	V = 1,5mm x 60°	N = 21	ZF60	511060	39 - 135	335	GN 70
Forkardt	315	QLC/K 315	V = 1,5mm x 60°	N = 21	ZF61	511061	109 - 205	335	GN 70
Forkardt	315	QLC/K 315	V = 1,5mm x 60°	N = 21	ZF62	511062	177 - 255	330	GN 70
Forkardt	315	QLC/K 315	V = 1,5mm x 60°	N = 21	ZF63	511063	248 - 320	380	GN 70
Forkardt	315	QLC/K-KS 315	V = 1,5mm x 60°	N = 21	ZF60	511060	87 - 135	335	GN 70
Forkardt	315	QLC/K-KS 315	V = 1,5mm x 60°	N = 21	ZF61	511061	157 - 205	335	GN 70
Forkardt	315	QLC/K-KS 315	V = 1,5mm x 60°	N = 21	ZF62	511062	225 - 255	330	GN 70
Forkardt	315	QLC/K-KS 315	V = 1,5mm x 60°	N = 21	ZF63	511063	296 - 320	380	GN 70
Forkardt	315	QLC/K-KS 315	V = 1/16" x 90°	N = 21	ZG40	515040	133 - 169	330	GN 70
Forkardt	315	QLC/K-KS 315	V = 1/16" x 90°	N = 21	ZG42	515042	176 - 211	330	GN 70
Forkardt	315	QLC/K-KS 315	V = 1/16" x 90°	N = 21	ZG44	515044	243 - 255	330	GN 70
Forkardt	315	QLC/K-KS 315	V = 1/16" x 90°	N = 21	ZG46	515046	287 - 320	380	GN 70
Forkardt	400	F+ 400	S = 18mm	N = 30	KT50	501070	30 - 279	395	
Forkardt	400	F+ 400	S = 18mm	N = 30	KT52	501072	143 - 400	450	
Forkardt	400	FNC 400	S = 12mm	N = 26	KT40	501047	30 - 249	350	
Forkardt	400	FNC 400	S = 12mm	N = 26	KT42	501048	120 - 362	405	
Forkardt	400	KTNC 400	S = 12mm	N = 26	KT40	501047	30 - 235	335	
Forkardt	400	KTNC 400	S = 12mm	N = 26	KT42	501048	133 - 348	390	
Forkardt	400	KTNC 400	S = 12mm	N = 26	KT44	501049	133 - 348	390	
Forkardt	500	F+ 500	S = 18mm	N = 30	KT50	501070	46 - 365	485	
Forkardt	500	F+ 500	S = 18mm	N = 30	KT52	501072	177 - 495	545	
Forkardt	500	FNC 500	S = 18mm	N = 30	KT50	501070	30 - 343	460	
Forkardt	500	FNC 500	S = 18mm	N = 30	KT52	501072	138 - 474	525	
Forkardt	500	KTNC 500	S = 18mm	N = 30	KT50	501070	30 - 293	410	
Forkardt	500	KTNC 500	S = 18mm	N = 30	KT52	501072	87 - 423	475	
HWR	210	VK021	V = 1,5mm x 60°	N = 12	auf Anfrage	-	-	-	-
HWR	210	VT021	V = 1,5mm x 60°	N = 12	auf Anfrage	-	-	-	-

Futterspezifische Daten Chuck specific data



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
HWR	260	VK026	V = 1,5mm x 60°	N = 16	auf Anfrage	-	-	-	-
HWR	260	VT026	V = 1,5mm x 60°	N = 16	auf Anfrage	-	-	-	-
HWR	315	VK031	V = 1,5mm x 60°	N = 16	auf Anfrage	-	-	-	-
HWR	315	VT031	V = 1,5mm x 60°	N = 16	auf Anfrage	-	-	-	-
HWR	400	VK040	V = 1,5mm x 60°	N = 21	auf Anfrage	-	-	-	-
HWR	400	VT040	V = 1,5mm x 60°	N = 21	auf Anfrage	-	-	-	-
HWR	500	VK050	V = 3mm x 60°	N = 25	auf Anfrage	-	-	-	-
HWR	500	VT050	V = 3mm x 60°	N = 25	auf Anfrage	-	-	-	-
HWR	630	VK063	V = 3mm x 60°	N = 25	auf Anfrage	-	-	-	-
HWR	630	VT063	V = 3mm x 60°	N = 25	auf Anfrage	-	-	-	-
HWR	800	VD080	V = 3mm x 60°	N = 25	auf Anfrage	-	-	-	-

Kitagawa	169	B 206	V = 1,5mm x 60°	N = 12	ZF20	511020	30 - 72	185	GP 45
Kitagawa	169	B 206	V = 1,5mm x 60°	N = 12	ZF22	511022	46 - 89	185	GP 45
Kitagawa	169	B 206	V = 1,5mm x 60°	N = 12	ZF24	511024	97 - 121	185	GP 47
Kitagawa	169	B 206	V = 1,5mm x 60°	N = 12	ZF26	511026	129 - 169	225	GP 45
Kitagawa	210	B 208	V = 1,5mm x 60°	N = 14	ZF30	511030	30 - 81	235	GP 55
Kitagawa	210	B 208	V = 1,5mm x 60°	N = 14	ZF31	511031	67 - 121	235	GP 55
Kitagawa	210	B 208	V = 1,5mm x 60°	N = 14	ZF32	511032	123 - 159	220	GP 56
Kitagawa	210	B 208	V = 1,5mm x 60°	N = 14	ZF33	511033	159 - 210	260	GP 55
Kitagawa	210	BB 208	V = 1,5mm x 60°	N = 14	ZF30	511030	30 - 79	230	GP 55
Kitagawa	210	BB 208	V = 1,5mm x 60°	N = 14	ZF31	511031	65 - 119	230	GP 55
Kitagawa	210	BB 208	V = 1,5mm x 60°	N = 14	ZF32	511032	121 - 157	220	GP 56
Kitagawa	210	BB 208	V = 1,5mm x 60°	N = 14	ZF33	511033	157 - 210	260	GP 55
Kitagawa	254	B 210	V = 1,5mm x 60°	N = 16	ZF40	511040	37 - 97	265	GP 60
Kitagawa	254	B 210	V = 1,5mm x 60°	N = 16	ZF41	511041	86 - 146	265	GP 60
Kitagawa	254	B 210	V = 1,5mm x 60°	N = 16	ZF42	511042	149 - 193	265	GP 11
Kitagawa	254	B 210	V = 1,5mm x 60°	N = 16	ZF43	511043	193 - 253	305	GP 60
Kitagawa	254	BB 210	V = 1,5mm x 60°	N = 16	ZF40	511040	37 - 101	270	GP 60
Kitagawa	254	BB 210	V = 1,5mm x 60°	N = 16	ZF41	511041	86 - 150	270	GP 60
Kitagawa	254	BB 210	V = 1,5mm x 60°	N = 16	ZF42	511042	149 - 197	270	GP 11
Kitagawa	254	BB 210	V = 1,5mm x 60°	N = 16	ZF43	511043	193 - 254	310	GP 60
Kitagawa	254	N10	V = 1,5mm x 60°	N = 16	ZF40	511040	31 - 99	265	**
Kitagawa	254	N10	V = 1,5mm x 60°	N = 16	ZF41	511041	80 - 148	265	**
Kitagawa	254	N10	V = 1,5mm x 60°	N = 16	ZF42	511042	143 - 195	265	**
Kitagawa	254	N10	V = 1,5mm x 60°	N = 16	ZF43	511043	187 - 254	310	**
Kitagawa	304	B 12	V = 1,5mm x 60°	N = 18	ZF50	511050	47 - 145	320	GP 70
Kitagawa	304	B 12	V = 1,5mm x 60°	N = 18	ZF51	511051	95 - 193	320	GP 70
Kitagawa	304	B 12	V = 1,5mm x 60°	N = 18	ZF52	511052	163 - 243	320	GP 75

Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
Kitagawa	304	B 12	V = 1,5mm x 60°	N = 18	ZF53	511053	213 - 304	365	GP 70
Kitagawa	304	B-212	V = 1,5mm x 60°	N = 21	ZF60	511060	37 - 117	315	GP 80
Kitagawa	304	B-212	V = 1,5mm x 60°	N = 21	ZF61	511061	107 - 187	315	GP 80
Kitagawa	304	B-212	V = 1,5mm x 60°	N = 21	ZF62	511062	175 - 237	315	GP 85
Kitagawa	304	B-212	V = 1,5mm x 60°	N = 21	ZF63	511063	246 - 304	360	GP 80
Kitagawa	304	N 12	V = 1,5mm x 60°	N = 18	ZF50	511050	53 - 145	320	GP 70
Kitagawa	304	N 12	V = 1,5mm x 60°	N = 18	ZF51	511051	101 - 193	320	GP 70
Kitagawa	304	N 12	V = 1,5mm x 60°	N = 18	ZF52	511052	169 - 243	320	GP 75
Kitagawa	304	N 12	V = 1,5mm x 60°	N = 18	ZF53	511053	219 - 304	365	GP 70
Kitagawa	315	BB-212	V = 1,5mm x 60°	N = 21	ZF60	511060	37 - 129	325	**
Kitagawa	315	BB-212	V = 1,5mm x 60°	N = 21	ZF61	511061	107 - 199	325	**
Kitagawa	315	BB-212	V = 1,5mm x 60°	N = 21	ZF62	511062	175 - 249	325	**
Kitagawa	315	BB-212	V = 1,5mm x 60°	N = 21	ZF63	511063	246 - 315	375	**

Röhm	160	DURO 160	S = 8mm	N = 18	KT10	501045	30 - 83	150	
Röhm	160	DURO 160	S = 8mm	N = 18	KT12	501050	65 - 136	175	
Röhm	160	DURO 160	S = 8mm	N = 18	KT14	501055	129 - 160	190	
Röhm	160	DURO T 160	S = 8mm	N = 18	KT10	501045	30 - 83	150	
Röhm	160	DURO T 160	S = 8mm	N = 18	KT12	501050	56 - 136	175	
Röhm	160	DURO T 160	S = 8mm	N = 18	KT14	501055	120 - 164	195	
Röhm	160	KFD 160	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 34	170	GE 30
Röhm	160	KFD 160	V = 1/16" x 90°	N = 17	ZG31	515031	30 - 50	170	GE 30
Röhm	160	KFD 160	V = 1/16" x 90°	N = 17	ZG32	515032	41 - 66	170	GE 30
Röhm	160	KFD 160	V = 1/16" x 90°	N = 17	ZG36	515036	97 - 105	170	GE 30
Röhm	160	KFD 160	V = 1/16" x 90°	N = 17	ZG39	515039	135 - 161	215	GE 30
Röhm	170	DURO NCSE 170	S = 8mm	N = 18	KT10	501045	30 - 59	125	
Röhm	170	DURO NCSE 170	S = 8mm	N = 18	KT12	501050	61 - 112	150	
Röhm	170	DURO NCSE 170	S = 8mm	N = 18	KT14	501055	125 - 175	205	
Röhm	170	KFD-HE 170	V = 1,5mm x 60°	N = 12	ZF20	511020	30 - 72	185	GP 45
Röhm	170	KFD-HE 170	V = 1,5mm x 60°	N = 12	ZF22	511022	48 - 89	185	GP 45
Röhm	170	KFD-HE 170	V = 1,5mm x 60°	N = 12	ZF24	511024	99 - 121	185	GP 47
Röhm	170	KFD-HE 170	V = 1,5mm x 60°	N = 12	ZF26	511026	131 - 170	225	GP 45
Röhm	175	DURO NC 175	S = 8mm	N = 18	KT10	501045	30 - 111	180	
Röhm	175	DURO NC 175	S = 8mm	N = 18	KT12	501050	65 - 164	205	
Röhm	175	DURO NC 175	S = 8mm	N = 18	KT14	501055	129 - 175	205	
Röhm	200	DURO 200	S = 10mm	N = 20	KT20	501030	30 - 103	190	
Röhm	200	DURO 200	S = 10mm	N = 20	KT22	501035	67 - 170	220	
Röhm	200	DURO 200	S = 10mm	N = 20	KT24	501040	147 - 206	245	
Röhm	200	DURO A 200	S = 10mm	N = 20	KT20	501030	30 - 99	185	

Futterspezifische Daten Chuck specific data

Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
Röhm	200	DURO A 200	S = 10mm	N = 20	KT22	501035	63 - 166	220	
Röhm	200	DURO A 200	S = 10mm	N = 20	KT24	501040	143 - 206	245	
Röhm	200	DURO NC 200	S = 10mm	N = 20	KT20	501030	30 - 138	225	
Röhm	200	DURO NC 200	S = 10mm	N = 20	KT22	501035	62 - 205	255	
Röhm	200	DURO NC 200	S = 10mm	N = 20	KT24	501040	142 - 215	250	
Röhm	200	DURO NCES 200	S = 10mm	N = 20	KT20	501030	30 - 114	200	
Röhm	200	DURO NCES 200	S = 10mm	N = 20	KT22	501035	70 - 180	230	
Röhm	200	DURO NCES 200	S = 10mm	N = 20	KT24	501040	150 - 215	250	
Röhm	200	DURO T 200	S = 10mm	N = 20	KT20	501030	30 - 103	190	
Röhm	200	DURO T 200	S = 10mm	N = 20	KT22	501035	57 - 170	220	
Röhm	200	DURO T 200	S = 10mm	N = 20	KT24	501040	137 - 206	245	
Röhm	200	KFD 200	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 72	210	GE 30
Röhm	200	KFD 200	V = 1/16" x 90°	N = 17	ZG31	515031	46 - 88	210	GE 30
Röhm	200	KFD 200	V = 1/16" x 90°	N = 17	ZG32	515032	63 - 104	210	GE 30
Röhm	200	KFD 200	V = 1/16" x 90°	N = 17	ZG36	515036	119 - 143	205	GE 30
Röhm	200	KFD 200	V = 1/16" x 90°	N = 17	ZG39	515039	157 - 199	255	GE 30
Röhm	200	KFD-AF 200	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 74	210	GE 30
Röhm	200	KFD-AF 200	V = 1/16" x 90°	N = 17	ZG31	515031	38 - 90	210	GE 30
Röhm	200	KFD-AF 200	V = 1/16" x 90°	N = 17	ZG32	515032	55 - 106	210	GE 30
Röhm	200	KFD-AF 200	V = 1/16" x 90°	N = 17	ZG36	515036	111 - 145	210	GE 30
Röhm	200	KFD-AF 200	V = 1/16" x 90°	N = 17	ZG39	515039	149 - 200	255	GE 30
Röhm	200	KFD-F-EC 200	V = 1/16" x 90°	N = 17	ZG30	515030	34 - 64	200	GE 30
Röhm	200	KFD-F-EC 200	V = 1/16" x 90°	N = 17	ZG31	515031	50 - 80	200	GE 30
Röhm	200	KFD-F-EC 200	V = 1/16" x 90°	N = 17	ZG32	515032	67 - 96	200	GE 30
Röhm	200	KFD-F-EC 200	V = 1/16" x 90°	N = 17	ZG36	515036	123 - 135	200	GE 30
Röhm	200	KFD-F-EC 200	V = 1/16" x 90°	N = 17	ZG39	515039	161 - 191	245	GE 30
Röhm	200	KFD-HE 200	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 84	220	GE 30
Röhm	200	KFD-HE 200	V = 1/16" x 90°	N = 17	ZG31	515031	44 - 100	220	GE 30
Röhm	200	KFD-HE 200	V = 1/16" x 90°	N = 17	ZG32	515032	61 - 116	220	GE 30
Röhm	200	KFD-HE 200	V = 1/16" x 90°	N = 17	ZG36	515036	117 - 155	220	GE 30
Röhm	200	KFD-HE 200	V = 1/16" x 90°	N = 17	ZG39	515039	155 - 210	265	GE 30
Röhm	200	KFD-HS 200	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 74	210	GE 30
Röhm	200	KFD-HS 200	V = 1/16" x 90°	N = 17	ZG31	515031	38 - 90	210	GE 30
Röhm	200	KFD-HS 200	V = 1/16" x 90°	N = 17	ZG32	515032	55 - 106	210	GE 30
Röhm	200	KFD-HS 200	V = 1/16" x 90°	N = 17	ZG36	515036	111 - 145	210	GE 30
Röhm	200	KFD-HS 200	V = 1/16" x 90°	N = 17	ZG39	515039	149 - 200	255	GE 30
Röhm	200	LVE 200	V = 1/16" x 90°	N = 17	ZG30	515030	44 - 90	225	GE 30
Röhm	200	LVE 200	V = 1/16" x 90°	N = 17	ZG31	515031	60 - 106	225	GE 30
Röhm	200	LVE 200	V = 1/16" x 90°	N = 17	ZG32	515032	77 - 122	225	GE 30



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
Röhm	200	LVE 200	V = 1/16" x 90°	N = 17	ZG36	515036	133 - 161	225	GE 30
Röhm	200	LVE 200	V = 1/16" x 90°	N = 17	ZG39	515039	171 - 200	255	GE 30
Röhm	210	DURO NCSE 210	S = 10mm	N = 20	KT20	501030	30 - 95	180	
Röhm	210	DURO NCSE 210	S = 10mm	N = 20	KT22	501035	70 - 161	215	
Röhm	210	DURO NCSE 210	S = 10mm	N = 20	KT24	501040	150 - 210	245	
Röhm	210	KFD-HE 210	V = 1,5mm x 60°	N = 14	ZF30	511030	30 - 81	235	GP 55
Röhm	210	KFD-HE 210	V = 1,5mm x 60°	N = 14	ZF31	511031	61 - 121	235	GP 55
Röhm	210	KFD-HE 210	V = 1,5mm x 60°	N = 14	ZF32	511032	117 - 159	220	GP 56
Röhm	210	KFD-HE 210	V = 1,5mm x 60°	N = 14	ZF33	511033	153 - 210	260	GP 55
Röhm	225	DURO NCSE 225	S = 10mm	N = 20	KT20	501030	30 - 111	195	
Röhm	225	DURO NCSE 225	S = 10mm	N = 20	KT20	501030	30 - 111	195	
Röhm	225	DURO NCSE 225	S = 10mm	N = 20	KT22	501035	68 - 177	230	
Röhm	225	DURO NCSE 225	S = 10mm	N = 20	KT22	501035	68 - 177	230	
Röhm	225	DURO NCSE 225	S = 10mm	N = 20	KT24	501040	148 - 225	260	
Röhm	225	DURO NCSE 225	S = 10mm	N = 20	KT24	501040	148 - 225	260	
Röhm	250	DURO 250	S = 12mm	N = 20	KT30	501010	30 - 165	250	
Röhm	250	DURO 250	S = 12mm	N = 20	KT32	501015	90 - 245	290	
Röhm	250	DURO 250	S = 12mm	N = 20	KT34	501020	160 - 255	295	
Röhm	250	DURO A 250	S = 12mm	N = 20	KT30	501010	30 - 136	220	
Röhm	250	DURO A 250	S = 12mm	N = 20	KT32	501015	73 - 216	260	
Röhm	250	DURO A 250	S = 12mm	N = 20	KT34	501020	143 - 255	295	
Röhm	250	DURO NC 250	S = 12mm	N = 20	KT30	501010	30 - 189	275	
Röhm	250	DURO NC 250	S = 12mm	N = 20	KT32	501015	90 - 260	305	
Röhm	250	DURO NC 250	S = 12mm	N = 20	KT34	501020	160 - 260	300	
Röhm	250	DURO NCES 250	S = 12mm	N = 20	KT30	501010	30 - 155	240	
Röhm	250	DURO NCES 250	S = 12mm	N = 20	KT32	501015	98 - 236	280	
Röhm	250	DURO NCES 250	S = 12mm	N = 20	KT34	501020	168 - 260	300	
Röhm	250	DURO T 250	S = 12mm	N = 20	KT30	501010	30 - 165	250	
Röhm	250	DURO T 250	S = 12mm	N = 20	KT32	501015	78 - 245	290	
Röhm	250	DURO T 250	S = 12mm	N = 20	KT34	501020	148 - 256	295	
Röhm	250	KFD 250	V = 1/16" x 90°	N = 21	ZG40	515040	39 - 97	260	GE 35
Röhm	250	KFD 250	V = 1/16" x 90°	N = 21	ZG42	515042	82 - 139	260	GE 35
Röhm	250	KFD 250	V = 1/16" x 90°	N = 21	ZG44	515044	149 - 183	260	GE 35
Röhm	250	KFD 250	V = 1/16" x 90°	N = 21	ZG46	515046	193 - 250	310	GE 35
Röhm	250	KFD-F-EC 250	V = 1/16" x 90°	N = 21	ZG40	515040	39 - 85	250	GE 35
Röhm	250	KFD-F-EC 250	V = 1/16" x 90°	N = 21	ZG42	515042	82 - 127	250	GE 35
Röhm	250	KFD-F-EC 250	V = 1/16" x 90°	N = 21	ZG44	515044	149 - 171	245	GE 35
Röhm	250	KFD-F-EC 250	V = 1/16" x 90°	N = 21	ZG46	515046	193 - 239	295	GE 35
Röhm	250	KFD-HE 250	V = 1,5mm x 60°	N = 16	ZF40	511040	35 - 99	265	GF 60

Futterspezifische Daten Chuck specific data



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
Röhm	250	KFD-HE 250	V = 1,5mm x 60°	N = 16	ZF41	511041	84 - 148	265	GF 60
Röhm	250	KFD-HE 250	V = 1,5mm x 60°	N = 16	ZF42	511042	147 - 195	265	GF 11
Röhm	250	KFD-HE 250	V = 1,5mm x 60°	N = 16	ZF43	511043	191 - 254	310	GF 60
Röhm	250	KFD-HE 250	V = 1/16" x 90°	N = 21	ZG40	515040	43 - 103	265	GE 35
Röhm	250	KFD-HE 250	V = 1/16" x 90°	N = 21	ZG42	515042	86 - 145	265	GE 35
Röhm	250	KFD-HE 250	V = 1/16" x 90°	N = 21	ZG44	515044	153 - 189	265	GE 35
Röhm	250	KFD-HE 250	V = 1/16" x 90°	N = 21	ZG46	515046	197 - 254	315	GE 35
Röhm	250	KFD-HS 250	V = 1/16" x 90°	N = 17	ZG30	515030	36 - 122	260	GF 36
Röhm	250	KFD-HS 250	V = 1/16" x 90°	N = 17	ZG31	515031	52 - 138	260	GF 36
Röhm	250	KFD-HS 250	V = 1/16" x 90°	N = 17	ZG32	515032	69 - 154	260	GF 36
Röhm	250	KFD-HS 250	V = 1/16" x 90°	N = 17	ZG36	515036	125 - 193	255	GF 36
Röhm	250	KFD-HS 250	V = 1/16" x 90°	N = 17	ZG39	515039	163 - 249	305	GF 36
Röhm	250	LVE 250	V = 1/16" x 90°	N = 21	ZG40	515040	51 - 115	280	GE 35
Röhm	250	LVE 250	V = 1/16" x 90°	N = 21	ZG42	515042	94 - 157	280	GE 35
Röhm	250	LVE 250	V = 1/16" x 90°	N = 21	ZG44	515044	161 - 201	275	GE 35
Röhm	250	LVE 250	V = 1/16" x 90°	N = 21	ZG46	515046	205 - 250	310	GE 35
Röhm	265	DURO NCSE 265	S = 12mm	N = 20	KT30	501010	30 - 149	235	
Röhm	265	DURO NCSE 265	S = 12mm	N = 20	KT32	501015	93 - 229	275	
Röhm	265	DURO NCSE 265	S = 12mm	N = 20	KT34	501020	163 - 265	305	
Röhm	315	DURO 315	S = 12mm	N = 26	KT40	501047	30 - 203	305	
Röhm	315	DURO 315	S = 12mm	N = 26	KT42	501048	130 - 316	360	
Röhm	315	DURO NC 315	S = 12mm	N = 26	KT40	501047	30 - 233	335	
Röhm	315	DURO NC 315	S = 12mm	N = 26	KT42	501048	132 - 320	365	
Röhm	315	DURO NCES 315	S = 12mm	N = 20	KT30	501010	30 - 211	295	
Röhm	315	DURO NCES 315	S = 12mm	N = 20	KT32	501015	96 - 291	335	
Röhm	315	DURO NCES 315	S = 12mm	N = 20	KT34	501020	166 - 315	355	
Röhm	315	DURO NCSE 315	S = 12mm	N = 26	KT40	501047	30 - 197	295	
Röhm	315	DURO NCSE 315	S = 12mm	N = 26	KT42	501048	113 - 309	350	
Röhm	315	DURO T 315	S = 12mm	N = 26	KT40	501047	30 - 203	305	
Röhm	315	DURO T 315	S = 12mm	N = 26	KT42	501048	116 - 316	360	
Röhm	315	KFD 315	V = 1/16" x 90°	N = 21	ZG40	515040	51 - 135	300	GE 35
Röhm	315	KFD 315	V = 1/16" x 90°	N = 21	ZG42	515042	94 - 177	300	GE 35
Röhm	315	KFD 315	V = 1/16" x 90°	N = 21	ZG44	515044	161 - 221	295	GE 35
Röhm	315	KFD 315	V = 1/16" x 90°	N = 21	ZG46	515046	205 - 289	345	GE 35
Röhm	315	KFD-F-EC 315	V = 1/16" x 90°	N = 21	ZG40	515040	61 - 151	315	GE 35
Röhm	315	KFD-F-EC 315	V = 1/16" x 90°	N = 21	ZG42	515042	104 - 193	315	GE 35
Röhm	315	KFD-F-EC 315	V = 1/16" x 90°	N = 21	ZG44	515044	171 - 237	310	GE 35
Röhm	315	KFD-F-EC 315	V = 1/16" x 90°	N = 21	ZG46	515046	215 - 305	360	GE 35
Röhm	315	KFD-HE 315	V = 1,5mm x 60°	N = 21	ZF60	511060	65 - 129	325	GE 35

Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
Röhm	315	KFD-HE 315	V = 1,5mm x 60°	N = 21	ZF61	511061	135 - 199	325	GE 35
Röhm	315	KFD-HE 315	V = 1,5mm x 60°	N = 21	ZF62	511062	203 - 249	325	GE 35
Röhm	315	KFD-HE 315	V = 1,5mm x 60°	N = 21	ZF63	511063	274 - 315	375	GE 35
Röhm	315	KFD-HE 315	V = 1/16" x 90°	N = 21	ZG40	515040	89 - 163	325	GE 35
Röhm	315	KFD-HE 315	V = 1/16" x 90°	N = 21	ZG42	515042	132 - 205	325	GE 35
Röhm	315	KFD-HE 315	V = 1/16" x 90°	N = 21	ZG44	515044	199 - 249	325	GE 35
Röhm	315	KFD-HE 315	V = 1/16" x 90°	N = 21	ZG46	515046	243 - 315	375	GE 35
Röhm	315	KFD-HS 315	V = 1/16" x 90°	N = 21	ZG40	515040	53 - 163	325	GE 35
Röhm	315	KFD-HS 315	V = 1/16" x 90°	N = 21	ZG42	515042	96 - 205	325	GE 35
Röhm	315	KFD-HS 315	V = 1/16" x 90°	N = 21	ZG44	515044	163 - 249	325	GE 35
Röhm	315	KFD-HS 315	V = 1/16" x 90°	N = 21	ZG46	515046	207 - 315	375	GE 35
Röhm	315	LVE 315	V = 1/16" x 90°	N = 21	ZG40	515040	69 - 177	340	GE 35
Röhm	315	LVE 315	V = 1/16" x 90°	N = 21	ZG42	515042	112 - 219	340	GE 35
Röhm	315	LVE 315	V = 1/16" x 90°	N = 21	ZG44	515044	179 - 263	340	GE 35
Röhm	315	LVE 315	V = 1/16" x 90°	N = 21	ZG46	515046	223 - 315	375	GE 35
Röhm	400	DURO 400	S = 18mm	N = 30	KT50	501070	30 - 273	390	
Röhm	400	DURO 400	S = 18mm	N = 30	KT52	501072	136 - 400	450	
Röhm	400	DURO NC 400	S = 18mm	N = 30	KT50	501070	30 - 294	410	
Röhm	400	DURO NC 400	S = 18mm	N = 30	KT52	501072	159 - 400	450	
Röhm	400	DURO NCES 400	S = 12mm	N = 26	KT40	501047	30 - 234	335	
Röhm	400	DURO NCES 400	S = 12mm	N = 26	KT42	501048	129 - 347	390	
Röhm	400	DURO NCSE 400	S = 12mm	N = 30	KT50	501070	57 - 210	330	
Röhm	400	DURO NCSE 400	S = 12mm	N = 30	KT52	501072	188 - 341	395	
Röhm	400	DURO T 400	S = 18mm	N = 30	KT50	501070	30 - 273	390	
Röhm	400	DURO T 400	S = 18mm	N = 30	KT52	501072	136 - 404	455	
Röhm	500	DURO 500	S = 18mm	N = 30	KT50	501070	43 - 361	480	
Röhm	500	DURO 500	S = 18mm	N = 30	KT52	501072	173 - 492	545	
Röhm	500	DURO NC 500	S = 18mm	N = 30	KT50	501070	41 - 341	460	
Röhm	500	DURO NC 500	S = 18mm	N = 30	KT52	501072	171 - 472	525	
Röhm	500	DURO NCSE 500	S = 16mm	N = 30	KT50	501070	30 - 295	415	
Röhm	500	DURO NCSE 500	S = 16mm	N = 30	KT50	501070	30 - 295	415	
Röhm	500	DURO NCSE 500	S = 16mm	N = 30	KT52	501072	153 - 425	475	
Röhm	500	DURO NCSE 500	S = 16mm	N = 30	KT52	501072	153 - 425	475	
Röhm	500	DURO T 500	S = 18mm	N = 30	KT50	501070	30 - 361	480	
Röhm	500	DURO T 500	S = 18mm	N = 30	KT52	501072	156 - 492	545	
Röhm	630	DURO NCSE 630	S = 18mm	N = 30	KT50	501070	30 - 414	530	
Röhm	630	DURO NCSE 630	S = 18mm	N = 30	KT52	501072	153 - 545	595	
Samchully	165	HC 06	V = 1,5mm x 60°	N = 12	ZF20	511020	36 - 74	185	**

Futterspezifische Daten Chuck specific data



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
Samchully	165	HC 06	V = 1,5mm x 60°	N = 12	ZF22	511022	54 - 91	185	**
Samchully	165	HC 06	V = 1,5mm x 60°	N = 12	ZF24	511024	105 - 123	185	**
Samchully	165	HC 06	V = 1,5mm x 60°	N = 12	ZF26	511026	137 - 165	220	**
Samchully	210	HC 08	V = 1,5mm x 60°	N = 14	ZF30	511030	37 - 85	240	**
Samchully	210	HC 08	V = 1,5mm x 60°	N = 14	ZF31	511031	77 - 125	240	**
Samchully	210	HC 08	V = 1,5mm x 60°	N = 14	ZF32	511032	133 - 163	225	**
Samchully	210	HC 08	V = 1,5mm x 60°	N = 14	ZF33	511033	169 - 210	260	**
Samchully	210	HCH 08	V = 1,5mm x 60°	N = 14	ZF30	511030	30 - 79	230	**
Samchully	210	HCH 08	V = 1,5mm x 60°	N = 14	ZF31	511031	55 - 119	230	**
Samchully	210	HCH 08	V = 1,5mm x 60°	N = 14	ZF32	511032	111 - 157	220	**
Samchully	210	HCH 08	V = 1,5mm x 60°	N = 14	ZF33	511033	147 - 210	260	**
Samchully	210	HH 208	V = 1,5mm x 60°	N = 14	ZF30	511030	35 - 83	235	GP 55
Samchully	210	HH 208	V = 1,5mm x 60°	N = 14	ZF31	511031	75 - 123	235	GP 55
Samchully	210	HH 208	V = 1,5mm x 60°	N = 14	ZF32	511032	131 - 161	225	GP 56
Samchully	210	HH 208	V = 1,5mm x 60°	N = 14	ZF33	511033	167 - 210	260	GP 55
Samchully	210	HS 08	V = 1,5mm x 60°	N = 14	ZF30	511030	30 - 81	235	GP 55
Samchully	210	HS 08	V = 1,5mm x 60°	N = 14	ZF31	511031	67 - 121	235	GP 55
Samchully	210	HS 08	V = 1,5mm x 60°	N = 14	ZF32	511032	123 - 159	220	GP 56
Samchully	210	HS 08	V = 1,5mm x 60°	N = 14	ZF33	511033	159 - 210	260	GP 55
Samchully	210	MH 208/HH 208	V = 1,5mm x 60°	N = 14	ZF30	511030	35 - 83	235	GP 55
Samchully	210	MH 208/HH 208	V = 1,5mm x 60°	N = 14	ZF31	511031	75 - 123	235	GP 55
Samchully	210	MH 208/HH 208	V = 1,5mm x 60°	N = 14	ZF32	511032	131 - 161	225	GP 56
Samchully	210	MH 208/HH 208	V = 1,5mm x 60°	N = 14	ZF33	511033	167 - 210	260	GP 55
Samchully	254	HC 10	V = 1,5mm x 60°	N = 16	ZF40	511040	31 - 97	265	**
Samchully	254	HC 10	V = 1,5mm x 60°	N = 16	ZF41	511041	80 - 146	265	**
Samchully	254	HC 10	V = 1,5mm x 60°	N = 16	ZF42	511042	143 - 193	265	**
Samchully	254	HC 10	V = 1,5mm x 60°	N = 16	ZF43	511043	187 - 253	305	**
Samchully	254	HCH 10	V = 1,5mm x 60°	N = 16	ZF40	511040	31 - 97	265	**
Samchully	254	HCH 10	V = 1,5mm x 60°	N = 16	ZF41	511041	80 - 146	265	**
Samchully	254	HCH 10	V = 1,5mm x 60°	N = 16	ZF42	511042	143 - 193	265	**
Samchully	254	HCH 10	V = 1,5mm x 60°	N = 16	ZF43	511043	187 - 253	305	**
Samchully	254	HH 210/MH 210	V = 1,5mm x 60°	N = 16	ZF40	511040	61 - 97	265	GP 60
Samchully	254	HH 210/MH 210	V = 1,5mm x 60°	N = 16	ZF41	511041	110 - 146	265	GP 60
Samchully	254	HH 210/MH 210	V = 1,5mm x 60°	N = 16	ZF42	511042	173 - 193	265	GP 11
Samchully	254	HH 210/MH 210	V = 1,5mm x 60°	N = 16	ZF43	511043	217 - 253	305	GP 60
Samchully	254	HS 10	V = 1,5mm x 60°	N = 16	ZF40	511040	30 - 97	265	GP 60
Samchully	254	HS 10	V = 1,5mm x 60°	N = 16	ZF41	511041	76 - 146	265	GP 60
Samchully	254	HS 10	V = 1,5mm x 60°	N = 16	ZF42	511042	139 - 193	265	GP 11
Samchully	254	HS 10	V = 1,5mm x 60°	N = 16	ZF43	511043	183 - 253	305	GP 60

Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
Samchully	304	HC 12	V = 1,5mm x 60°	N = 18	ZF50	511050	53 - 145	320	GP 70
Samchully	304	HC 12	V = 1,5mm x 60°	N = 18	ZF51	511051	101 - 193	320	GP 70
Samchully	304	HC 12	V = 1,5mm x 60°	N = 18	ZF52	511052	169 - 243	320	GP 72
Samchully	304	HC 12	V = 1,5mm x 60°	N = 18	ZF53	511053	219 - 304	365	GP 70
Samchully	304	HCH 12	V = 1,5mm x 60°	N = 18	ZF50	511050	47 - 139	315	GP 70
Samchully	304	HCH 12	V = 1,5mm x 60°	N = 18	ZF51	511051	95 - 187	315	GP 70
Samchully	304	HCH 12	V = 1,5mm x 60°	N = 18	ZF52	511052	163 - 237	315	GP 72
Samchully	304	HCH 12	V = 1,5mm x 60°	N = 18	ZF53	511053	213 - 304	365	GP 70
Samchully	304	HS 12	V = 1,5mm x 60°	N = 21	ZF60	511060	30 - 117	315	GP 80
Samchully	304	HS 12	V = 1,5mm x 60°	N = 21	ZF61	511061	97 - 187	315	GP 80
Samchully	304	HS 12	V = 1,5mm x 60°	N = 21	ZF62	511062	165 - 237	315	GP 85
Samchully	304	HS 12	V = 1,5mm x 60°	N = 21	ZF63	511063	236 - 304	360	GP 80
Samchully	315	HH 212/MH 212	V = 1,5mm x 60°	N = 21	ZF60	511060	49 - 127	325	GP 80
Samchully	315	HH 212/MH 212	V = 1,5mm x 60°	N = 21	ZF61	511061	119 - 197	325	GP 80
Samchully	315	HH 212/MH 212	V = 1,5mm x 60°	N = 21	ZF62	511062	187 - 247	325	GP 85
Samchully	315	HH 212/MH 212	V = 1,5mm x 60°	N = 21	ZF63	511063	258 - 315	375	GP 80

Schunk	160	ROTA G 160	S = 8mm	N = 18	KT10	501045	30 - 86	155	
Schunk	160	ROTA G 160	S = 8mm	N = 18	KT12	501050	68 - 139	180	
Schunk	160	ROTA G 160	S = 8mm	N = 18	KT14	501055	132 - 164	195	
Schunk	165	ROTA NCD 165	V = 1,5mm x 60°	N = 12	ZF20	511020	30 - 68	180	GP 45
Schunk	165	ROTA NCD 165	V = 1,5mm x 60°	N = 12	ZF22	511022	30 - 85	180	GP 45
Schunk	165	ROTA NCD 165	V = 1,5mm x 60°	N = 12	ZF24	511024	81 - 117	180	GP 47
Schunk	165	ROTA NCD 165	V = 1,5mm x 60°	N = 12	ZF26	511026	113 - 165	220	GP 45
Schunk	160	ROTA S plus 160	S = 8mm	N = 18	KT10	501045	30 - 96	165	
Schunk	160	ROTA S plus 160	S = 8mm	N = 18	KT12	501050	59 - 149	190	
Schunk	160	ROTA S plus 160	S = 8mm	N = 18	KT14	501055	123 - 164	195	
Schunk	165	ROTA THW 165-37	S = 8mm	N = 18	KT10	501045	30 - 56	125	
Schunk	165	ROTA THW 165-37	S = 8mm	N = 18	KT12	501050	58 - 109	150	
Schunk	165	ROTA THW 165-37	S = 8mm	N = 18	KT14	501055	122 - 165	195	
Schunk	165	ROTA THW plus 165	S = 8mm	N = 18	KT10	501045	30 - 67	135	
Schunk	165	ROTA THW plus 165	S = 8mm	N = 18	KT12	501050	60 - 120	160	
Schunk	165	ROTA THW plus 165	S = 8mm	N = 18	KT14	501055	124 - 165	195	
Schunk	185	ROTA NCD 185	V = 1,5mm x 60°	N = 17	ZF30	511030	30 - 61	215	GF 30
Schunk	185	ROTA NCD 185	V = 1,5mm x 60°	N = 17	ZF31	511031	39 - 101	215	GF 30
Schunk	185	ROTA NCD 185	V = 1,5mm x 60°	N = 17	ZF32	511032	95 - 139	200	GF 30
Schunk	185	ROTA NCD 185	V = 1,5mm x 60°	N = 17	ZF33	511033	131 - 185	235	GF 30
Schunk	185	ROTA NCD 185	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 64	200	GN 50
Schunk	185	ROTA NCD 185	V = 1/16" x 90°	N = 17	ZG31	515031	30 - 80	200	GN 50

Futterspezifische Daten Chuck specific data



Futterhersteller Manufacturer	Futter- größe Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
Schunk	185	ROTA NCD 185	V = 1/16" x 90°	N = 17	ZG32	515032	39 - 96	200	GN 50
Schunk	185	ROTA NCD 185	V = 1/16" x 90°	N = 17	ZG36	515036	95 - 135	200	GN 50
Schunk	185	ROTA NCD 185	V = 1/16" x 90°	N = 17	ZG39	515039	133 - 185	240	GN 50
Schunk	185	ROTA THW plus 185	S = 8mm	N = 18	KT10	501045	30 - 90	155	
Schunk	185	ROTA THW plus 185	S = 8mm	N = 18	KT12	501050	62 - 143	185	
Schunk	185	ROTA THW plus 185	S = 8mm	N = 18	KT14	501055	126 - 185	215	
Schunk	200	ROTA G 200	S = 10mm	N = 20	KT20	501030	32 - 123	210	
Schunk	200	ROTA G 200	S = 10mm	N = 20	KT22	501035	99 - 190	240	
Schunk	200	ROTA G 200	S = 10mm	N = 20	KT24	501040	179 - 206	245	
Schunk	200	ROTA S plus 200	S = 10mm	N = 20	KT20	501030	30 - 114	200	
Schunk	200	ROTA S plus 200	S = 10mm	N = 20	KT22	501035	69 - 180	230	
Schunk	200	ROTA S plus 200	S = 10mm	N = 20	KT24	501040	149 - 206	245	
Schunk	210	ROTA NC 210	V = 1,5mm x 60°	N = 14	ZF30	511030	30 - 79	230	**
Schunk	210	ROTA NC 210	V = 1,5mm x 60°	N = 14	ZF31	511031	65 - 119	230	**
Schunk	210	ROTA NC 210	V = 1,5mm x 60°	N = 14	ZF32	511032	121 - 157	220	**
Schunk	210	ROTA NC 210	V = 1,5mm x 60°	N = 14	ZF33	511033	157 - 210	260	**
Schunk	210	ROTA NC 210	V = 1/16" x 90°	N = 17	ZG30	515030	44 - 82	215	GN 50
Schunk	210	ROTA NC 210	V = 1/16" x 90°	N = 17	ZG30	515030	44 - 82	215	GF 30
Schunk	210	ROTA NC 210	V = 1/16" x 90°	N = 17	ZG31	515031	60 - 98	215	GN 50
Schunk	210	ROTA NC 210	V = 1/16" x 90°	N = 17	ZG31	515031	60 - 98	215	GF 30
Schunk	210	ROTA NC 210	V = 1/16" x 90°	N = 17	ZG32	515032	77 - 114	220	GN 50
Schunk	210	ROTA NC 210	V = 1/16" x 90°	N = 17	ZG32	515032	77 - 114	220	GF 30
Schunk	210	ROTA NC 210	V = 1/16" x 90°	N = 17	ZG36	515036	133 - 153	215	GN 50
Schunk	210	ROTA NC 210	V = 1/16" x 90°	N = 17	ZG36	515036	133 - 153	215	GF 30
Schunk	210	ROTA NC 210	V = 1/16" x 90°	N = 17	ZG39	515039	171 - 209	260	GN 50
Schunk	210	ROTA NC 210	V = 1/16" x 90°	N = 17	ZG39	515039	171 - 209	260	GF 30
Schunk	210	ROTA NCF 210	V = 1,5mm x 60°	N = 14	ZF30	511030	30 - 79	230	**
Schunk	210	ROTA NCF 210	V = 1,5mm x 60°	N = 14	ZF31	511031	65 - 119	230	**
Schunk	210	ROTA NCF 210	V = 1,5mm x 60°	N = 14	ZF32	511032	121 - 157	220	**
Schunk	210	ROTA NCF 210	V = 1,5mm x 60°	N = 14	ZF33	511033	157 - 210	260	**
Schunk	210	ROTA NCF 210	V = 1/16" x 90°	N = 17	ZG30	515030	44 - 82	215	GN 50
Schunk	210	ROTA NCF 210	V = 1/16" x 90°	N = 17	ZG31	515031	60 - 98	215	GN 50
Schunk	210	ROTA NCF 210	V = 1/16" x 90°	N = 17	ZG32	515032	77 - 114	220	GN 50
Schunk	210	ROTA NCF 210	V = 1/16" x 90°	N = 17	ZG36	515036	133 - 153	215	GN 50
Schunk	210	ROTA NCF 210	V = 1/16" x 90°	N = 17	ZG39	515039	171 - 209	260	GN 50
Schunk	210	ROTA NCK 210	V = 1,5mm x 60°	N = 14	ZF30	511030	30 - 83	235	GP 55
Schunk	210	ROTA NCK 210	V = 1,5mm x 60°	N = 14	ZF31	511031	67 - 123	235	GP 55
Schunk	210	ROTA NCK 210	V = 1,5mm x 60°	N = 14	ZF32	511032	123 - 161	225	GP 56
Schunk	210	ROTA NCK 210	V = 1,5mm x 60°	N = 14	ZF33	511033	159 - 210	260	GP 55

Futterhersteller Manufacturer	Futter- größe Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
Schunk	210	ROTA NCK plus 210	V = 1,5mm x 60°	N = 14	ZF30	511030	30 - 81	235	GP 55
Schunk	210	ROTA NCK plus 210	V = 1,5mm x 60°	N = 14	ZF31	511031	59 - 121	235	GP 55
Schunk	210	ROTA NCK plus 210	V = 1,5mm x 60°	N = 14	ZF32	511032	115 - 159	220	GP 56
Schunk	210	ROTA NCK plus 210	V = 1,5mm x 60°	N = 14	ZF33	511033	151 - 210	260	GP 55
Schunk	210	ROTA NCK plus 210	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 84	220	GN 50
Schunk	210	ROTA NCK plus 210	V = 1/16" x 90°	N = 17	ZG31	515031	44 - 100	220	GN 50
Schunk	210	ROTA NCK plus 210	V = 1/16" x 90°	N = 17	ZG32	515032	61 - 116	220	GN 50
Schunk	210	ROTA NCK plus 210	V = 1/16" x 90°	N = 17	ZG36	515036	117 - 155	220	GN 50
Schunk	210	ROTA NCK plus 210	V = 1/16" x 90°	N = 17	ZG39	515039	155 - 210	265	GN 50
Schunk	210	ROTA NCO 210	V = 1/16" x 90°	N = 17	ZG30	515030	40 - 90	225	GN 50
Schunk	210	ROTA NCO 210	V = 1/16" x 90°	N = 17	ZG31	515031	56 - 106	225	GN 50
Schunk	210	ROTA NCO 210	V = 1/16" x 90°	N = 17	ZG32	515032	73 - 122	225	GN 50
Schunk	210	ROTA NCO 210	V = 1/16" x 90°	N = 17	ZG36	515036	129 - 161	225	GN 50
Schunk	210	ROTA NCO 210	V = 1/16" x 90°	N = 17	ZG39	515039	167 - 210	265	GN 50
Schunk	210	ROTA THW 210-52	S = 10mm	N = 20	KT20	501030	30 - 95	180	
Schunk	210	ROTA THW 210-52	S = 10mm	N = 20	KT22	501035	72 - 162	215	
Schunk	210	ROTA THW 210-52	S = 10mm	N = 20	KT24	501040	152 - 210	245	
Schunk	215	ROTA NC plus 215	V = 1,5mm x 60°	N = 14	ZF30	511030	43 - 91	245	GP 55
Schunk	215	ROTA NC plus 215	V = 1,5mm x 60°	N = 14	ZF31	511031	83 - 131	245	GP 55
Schunk	215	ROTA NC plus 215	V = 1,5mm x 60°	N = 14	ZF32	511032	139 - 169	230	GP 56
Schunk	215	ROTA NC plus 215	V = 1,5mm x 60°	N = 14	ZF33	511033	175 - 215	265	GP 55
Schunk	215	ROTA NC plus 215	V = 1/16" x 90°	N = 17	ZG30	515030	50 - 94	230	GN 50
Schunk	215	ROTA NC plus 215	V = 1/16" x 90°	N = 17	ZG31	515031	66 - 110	230	GN 50
Schunk	215	ROTA NC plus 215	V = 1/16" x 90°	N = 17	ZG32	515032	83 - 126	230	GN 50
Schunk	215	ROTA NC plus 215	V = 1/16" x 90°	N = 17	ZG36	515036	139 - 165	230	GN 50
Schunk	215	ROTA NC plus 215	V = 1/16" x 90°	N = 17	ZG39	515039	177 - 215	270	GN 50
Schunk	215	ROTA NCD 215	V = 1,5mm x 60°	N = 17	ZF30	511030	30 - 89	240	GP 55
Schunk	215	ROTA NCD 215	V = 1,5mm x 60°	N = 17	ZF31	511031	57 - 129	240	GP 55
Schunk	215	ROTA NCD 215	V = 1,5mm x 60°	N = 17	ZF32	511032	113 - 167	230	GP 56
Schunk	215	ROTA NCD 215	V = 1,5mm x 60°	N = 17	ZF33	511033	149 - 215	265	GP 55
Schunk	215	ROTA NCD 215	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 92	230	GN 50
Schunk	215	ROTA NCD 215	V = 1/16" x 90°	N = 17	ZG31	515031	40 - 108	230	GN 50
Schunk	215	ROTA NCD 215	V = 1/16" x 90°	N = 17	ZG32	515032	57 - 124	230	GN 50
Schunk	215	ROTA NCD 215	V = 1/16" x 90°	N = 17	ZG36	515036	113 - 163	225	GN 50
Schunk	215	ROTA NCD 215	V = 1/16" x 90°	N = 17	ZG39	515039	151 - 215	270	GN 50
Schunk	215	ROTA NCF plus 215	V = 1,5mm x 60°	N = 14	ZF30	511030	43 - 91	245	GP 55
Schunk	215	ROTA NCF plus 215	V = 1,5mm x 60°	N = 14	ZF31	511031	83 - 131	245	GP 55
Schunk	215	ROTA NCF plus 215	V = 1,5mm x 60°	N = 14	ZF32	511032	139 - 169	230	GP 56
Schunk	215	ROTA NCF plus 215	V = 1,5mm x 60°	N = 14	ZF33	511033	175 - 215	265	GP 55

Futterspezifische Daten Chuck specific data

Futterhersteller Manufacturer	Futter- größe Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
Schunk	215	ROTA NCF plus 215	V = 1/16" x 90°	N = 17	ZG30	515030	50 - 94	230	GN 50
Schunk	215	ROTA NCF plus 215	V = 1/16" x 90°	N = 17	ZG31	515031	66 - 110	230	GN 50
Schunk	215	ROTA NCF plus 215	V = 1/16" x 90°	N = 17	ZG32	515032	83 - 126	230	GN 50
Schunk	215	ROTA NCF plus 215	V = 1/16" x 90°	N = 17	ZG36	515036	139 - 165	230	GN 50
Schunk	215	ROTA NCF plus 215	V = 1/16" x 90°	N = 17	ZG39	515039	177 - 215	270	GN 50
Schunk	215	ROTA THW plus 215	S = 10mm	N = 20	KT20	501030	30 - 110	195	
Schunk	215	ROTA THW plus 215	S = 10mm	N = 20	KT22	501035	66 - 177	230	
Schunk	215	ROTA THW plus 215	S = 10mm	N = 20	KT24	501040	146 - 215	250	
Schunk	225	ROTA NCW 225	S = 10mm	N = 20	KT20	501030	30 - 115	200	
Schunk	225	ROTA NCW 225	S = 10mm	N = 20	KT22	501035	72 - 181	235	
Schunk	225	ROTA NCW 225	S = 10mm	N = 20	KT24	501040	152 - 225	260	
Schunk	250	ROTA G 250	S = 12mm	N = 20	KT30	501010	30 - 171	255	
Schunk	250	ROTA G 250	S = 12mm	N = 20	KT32	501015	104 - 251	295	
Schunk	250	ROTA G 250	S = 12mm	N = 20	KT34	501020	174 - 256	295	
Schunk	250	ROTA NC 250	V = 1,5mm x 60°	N = 16	ZF40	511040	35 - 97	265	**
Schunk	250	ROTA NC 250	V = 1,5mm x 60°	N = 16	ZF41	511041	84 - 146	265	**
Schunk	250	ROTA NC 250	V = 1,5mm x 60°	N = 16	ZF42	511042	147 - 193	265	**
Schunk	250	ROTA NC 250	V = 1,5mm x 60°	N = 16	ZF43	511043	191 - 253	305	**
Schunk	250	ROTA NC 250	V = 1/16" x 90°	N = 21	ZG40	515040	41 - 101	265	GN 70
Schunk	250	ROTA NC 250	V = 1/16" x 90°	N = 21	ZG40	515040	41 - 101	265	GF 35
Schunk	250	ROTA NC 250	V = 1/16" x 90°	N = 21	ZG42	515042	84 - 143	265	GN 70
Schunk	250	ROTA NC 250	V = 1/16" x 90°	N = 21	ZG42	515042	84 - 143	265	GF 35
Schunk	250	ROTA NC 250	V = 1/16" x 90°	N = 21	ZG44	515044	151 - 187	265	GN 70
Schunk	250	ROTA NC 250	V = 1/16" x 90°	N = 21	ZG44	515044	151 - 187	265	GF 35
Schunk	250	ROTA NC 250	V = 1/16" x 90°	N = 21	ZG46	515046	195 - 254	315	GN 70
Schunk	250	ROTA NC 250	V = 1/16" x 90°	N = 21	ZG46	515046	195 - 254	315	GF 35
Schunk	250	ROTA NCD 250	V = 1,5mm x 60°	N = 16	ZF40	511040	30 - 105	270	GP 60
Schunk	250	ROTA NCD 250	V = 1,5mm x 60°	N = 21	ZF40	511040	30 - 105	270	GN 77
Schunk	250	ROTA NCD 250	V = 1,5mm x 60°	N = 16	ZF41	511041	78 - 154	270	GP 60
Schunk	250	ROTA NCD 250	V = 1,5mm x 60°	N = 21	ZF41	511041	78 - 154	270	GN 77
Schunk	250	ROTA NCD 250	V = 1,5mm x 60°	N = 16	ZF42	511042	141 - 201	270	GP 11
Schunk	250	ROTA NCD 250	V = 1,5mm x 60°	N = 21	ZF42	511042	141 - 201	270	GN 77
Schunk	250	ROTA NCD 250	V = 1,5mm x 60°	N = 16	ZF43	511043	185 - 250	305	GP 60
Schunk	250	ROTA NCD 250	V = 1,5mm x 60°	N = 21	ZF43	511043	185 - 250	305	GN 77
Schunk	250	ROTA NCD 250	V = 1/16" x 90°	N = 21	ZG40	515040	35 - 109	270	GN 70
Schunk	250	ROTA NCD 250	V = 1/16" x 90°	N = 21	ZG42	515042	78 - 151	270	GN 70
Schunk	250	ROTA NCD 250	V = 1/16" x 90°	N = 21	ZG44	515044	145 - 195	270	GN 70
Schunk	250	ROTA NCD 250	V = 1/16" x 90°	N = 21	ZG46	515046	189 - 250	310	GN 70
Schunk	250	ROTA NCF 250	V = 1,5mm x 60°	N = 16	ZF40	511040	35 - 97	265	**



Futterhersteller Manufacturer	Futter- größe Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
Schunk	250	ROTA NCF 250	V = 1,5mm x 60°	N = 16	ZF41	511041	84 - 146	265	**
Schunk	250	ROTA NCF 250	V = 1,5mm x 60°	N = 16	ZF42	511042	147 - 193	265	**
Schunk	250	ROTA NCF 250	V = 1,5mm x 60°	N = 16	ZF43	511043	191 - 253	305	**
Schunk	250	ROTA NCF 250	V = 1/16" x 90°	N = 21	ZG40	515040	41 - 101	265	GN 70
Schunk	250	ROTA NCF 250	V = 1/16" x 90°	N = 21	ZG40	515040	41 - 101	265	GF 35
Schunk	250	ROTA NCF 250	V = 1/16" x 90°	N = 21	ZG42	515042	84 - 143	265	GN 70
Schunk	250	ROTA NCF 250	V = 1/16" x 90°	N = 21	ZG42	515042	84 - 143	265	GF 35
Schunk	250	ROTA NCF 250	V = 1/16" x 90°	N = 21	ZG44	515044	151 - 187	260	GN 70
Schunk	250	ROTA NCF 250	V = 1/16" x 90°	N = 21	ZG44	515044	151 - 187	260	GF 35
Schunk	250	ROTA NCF 250	V = 1/16" x 90°	N = 21	ZG46	515046	195 - 254	310	GN 70
Schunk	250	ROTA NCF 250	V = 1/16" x 90°	N = 21	ZG46	515046	195 - 254	310	GF 35
Schunk	250	ROTA NCK 250	V = 1,5mm x 60°	N = 16	ZF40	511040	31 - 99	265	GP 60
Schunk	250	ROTA NCK 250	V = 1,5mm x 60°	N = 16	ZF41	511041	80 - 148	265	GP 60
Schunk	250	ROTA NCK 250	V = 1,5mm x 60°	N = 16	ZF42	511042	143 - 195	265	GP 11
Schunk	250	ROTA NCK 250	V = 1,5mm x 60°	N = 16	ZF43	511043	187 - 254	310	GP 60
Schunk	250	ROTA NCK plus 250	V = 1,5mm x 60°	N = 16	ZF40	511040	31 - 99	265	GP 60
Schunk	250	ROTA NCK plus 250	V = 1,5mm x 60°	N = 16	ZF41	511041	80 - 148	265	GP 60
Schunk	250	ROTA NCK plus 250	V = 1,5mm x 60°	N = 16	ZF42	511042	143 - 195	265	GP 11
Schunk	250	ROTA NCK plus 250	V = 1,5mm x 60°	N = 16	ZF43	511043	187 - 254	310	GP 60
Schunk	250	ROTA NCK plus 250	V = 1/16" x 90°	N = 17	ZG30	515030	52 - 128	265	GN 50
Schunk	250	ROTA NCK plus 250	V = 1/16" x 90°	N = 17	ZG31	515031	68 - 144	265	GN 50
Schunk	250	ROTA NCK plus 250	V = 1/16" x 90°	N = 17	ZG32	515032	85 - 160	265	GN 50
Schunk	250	ROTA NCK plus 250	V = 1/16" x 90°	N = 17	ZG36	515036	141 - 199	265	GN 50
Schunk	250	ROTA NCK plus 250	V = 1/16" x 90°	N = 17	ZG39	515039	179 - 254	310	GN 50
Schunk	250	ROTA S plus 250	S = 12mm	N = 20	KT30	501010	30 - 163	250	
Schunk	250	ROTA S plus 250	S = 12mm	N = 20	KT32	501015	89 - 243	290	
Schunk	250	ROTA S plus 250	S = 12mm	N = 20	KT34	501020	159 - 256	295	
Schunk	250	ROTA THW 250-65	S = 12mm	N = 20	KT30	501010	30 - 138	225	
Schunk	250	ROTA THW 250-65	S = 12mm	N = 20	KT30	501010	30 - 138	225	
Schunk	250	ROTA THW 250-65	S = 12mm	N = 20	KT32	501015	94 - 218	265	
Schunk	250	ROTA THW 250-65	S = 12mm	N = 20	KT32	501015	94 - 218	265	
Schunk	250	ROTA THW 250-65	S = 12mm	N = 20	KT34	501020	164 - 250	290	
Schunk	250	ROTA THW 250-65	S = 12mm	N = 20	KT34	501020	164 - 250	290	
Schunk	250	THF 250	V = 1/16" x 90°	N = 21	ZG40	515040	30 - 103	265	GN 70
Schunk	250	THF 250	V = 1/16" x 90°	N = 21	ZG42	515042	72 - 145	265	GN 70
Schunk	250	THF 250	V = 1/16" x 90°	N = 21	ZG44	515044	139 - 189	265	GN 70
Schunk	250	THF 250	V = 1/16" x 90°	N = 21	ZG46	515046	183 - 250	310	GN 70
Schunk	255	ROTA NCD 255	V = 1,5mm x 60°	N = 21	ZF40	511040	30 - 109	275	GN 77
Schunk	255	ROTA NCD 255	V = 1,5mm x 60°	N = 21	ZF41	511041	74 - 158	275	GN 77

Futterspezifische Daten Chuck specific data

Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
Schunk	255	ROTA NCD 255	V = 1,5mm x 60°	N = 21	ZF42	511042	137 - 205	275	GN 77
Schunk	255	ROTA NCD 255	V = 1,5mm x 60°	N = 21	ZF43	511043	181 - 255	310	GN 77
Schunk	255	ROTA NCD 255	V = 1/16" x 90°	N = 21	ZG40	515040	35 - 113	275	GN 70
Schunk	255	ROTA NCD 255	V = 1/16" x 90°	N = 21	ZG42	515042	78 - 155	275	GN 70
Schunk	255	ROTA NCD 255	V = 1/16" x 90°	N = 21	ZG44	515044	145 - 199	275	GN 70
Schunk	255	ROTA NCD 255	V = 1/16" x 90°	N = 21	ZG46	515046	189 - 255	315	GN 70
Schunk	260	ROTA NC plus 260	V = 1/16" x 90°	N = 21	ZG40	515040	59 - 115	275	GF 35
Schunk	260	ROTA NC plus 260	V = 1/16" x 90°	N = 21	ZG42	515042	102 - 157	280	GF 35
Schunk	260	ROTA NC plus 260	V = 1/16" x 90°	N = 21	ZG44	515044	169 - 201	275	GF 35
Schunk	260	ROTA NC plus 260	V = 1/16" x 90°	N = 21	ZG46	515046	213 - 254	315	GF 35
Schunk	260	ROTA NC plus 260	V = 1,5mm x 60°	N = 16	ZF40	511040	43 - 111	280	GP 60
Schunk	260	ROTA NC plus 260	V = 1,5mm x 60°	N = 16	ZF41	511041	92 - 160	280	GP 60
Schunk	260	ROTA NC plus 260	V = 1,5mm x 60°	N = 16	ZF42	511042	155 - 207	280	GP 11
Schunk	260	ROTA NC plus 260	V = 1,5mm x 60°	N = 16	ZF43	511043	199 - 260	315	GP 60
Schunk	260	ROTA NC plus 260	V = 1,5mm x 60°	N = 16	ZF40	511040	43 - 111	280	GP 60
Schunk	260	ROTA NC plus 260	V = 1,5mm x 60°	N = 16	ZF41	511041	92 - 160	280	GP 60
Schunk	260	ROTA NC plus 260	V = 1,5mm x 60°	N = 16	ZF42	511042	155 - 207	280	GP 11
Schunk	260	ROTA NC plus 260	V = 1,5mm x 60°	N = 16	ZF43	511043	199 - 260	315	GP 60
Schunk	260	ROTA NCF plus 260	V = 1,5mm x 60°	N = 16	ZF40	511040	43 - 111	280	GP 60
Schunk	260	ROTA NCF plus 260	V = 1,5mm x 60°	N = 16	ZF41	511041	92 - 160	280	GP 60
Schunk	260	ROTA NCF plus 260	V = 1,5mm x 60°	N = 16	ZF42	511042	155 - 207	280	GP 11
Schunk	260	ROTA NCF plus 260	V = 1,5mm x 60°	N = 16	ZF43	511043	199 - 260	315	GP 60
Schunk	260	ROTA NCF plus 260	V = 1/16" x 90°	N = 21	ZG40	515040	49 - 115	275	GF 35
Schunk	260	ROTA NCF plus 260	V = 1/16" x 90°	N = 21	ZG42	515042	92 - 157	280	GF 35
Schunk	260	ROTA NCF plus 260	V = 1/16" x 90°	N = 21	ZG44	515044	159 - 201	275	GF 35
Schunk	260	ROTA NCF plus 260	V = 1/16" x 90°	N = 21	ZG46	515046	203 - 260	320	GF 35
Schunk	260	ROTA NCO 260	V = 1/16" x 90°	N = 21	ZG40	515040	53 - 115	275	GF 35
Schunk	260	ROTA NCO 260	V = 1/16" x 90°	N = 21	ZG42	515042	96 - 157	275	GF 35
Schunk	260	ROTA NCO 260	V = 1/16" x 90°	N = 21	ZG44	515044	163 - 201	275	GF 35
Schunk	260	ROTA NCO 260	V = 1/16" x 90°	N = 21	ZG46	515046	207 - 254	315	GF 35
Schunk	260	ROTA THW plus 260	S = 12mm	N = 20	KT30	501010	30 - 153	240	
Schunk	260	ROTA THW plus 260	S = 12mm	N = 20	KT32	501015	96 - 233	280	
Schunk	260	ROTA THW plus 260	S = 12mm	N = 20	KT34	501020	166 - 260	300	
Schunk	260	ROTA THW plus 260-81	S = 12mm	N = 20	KT30	501010	30 - 153	240	
Schunk	260	ROTA THW plus 260-81	S = 12mm	N = 20	KT32	501015	96 - 233	280	
Schunk	260	ROTA THW plus 260-81	S = 12mm	N = 20	KT34	501020	166 - 250	290	
Schunk	265	ROTA NCW 265-71	S = 12mm	N = 20	KT30	501010	30 - 149	235	
Schunk	265	ROTA NCW 265-71	S = 12mm	N = 20	KT32	501015	93 - 230	275	
Schunk	265	ROTA NCW 265-71	S = 12mm	N = 20	KT34	501020	163 - 256	295	



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
Schunk	315	ROTA G 315	S = 12mm	N = 20	KT30	501010	30 - 222	310	
Schunk	315	ROTA G 315	S = 12mm	N = 20	KT32	501015	99 - 302	350	
Schunk	315	ROTA G 315	S = 12mm	N = 20	KT34	501020	169 - 322	360	
Schunk	315	ROTA NC 315	V = 1,5mm x 60°	N = 18	ZF50	511050	65 - 153	330	GP 70
Schunk	315	ROTA NC 315	V = 1,5mm x 60°	N = 18	ZF51	511051	113 - 201	330	GP 70
Schunk	315	ROTA NC 315	V = 1,5mm x 60°	N = 18	ZF52	511052	181 - 251	330	GP 75
Schunk	315	ROTA NC 315	V = 1,5mm x 60°	N = 18	ZF53	511053	231 - 315	375	GP 70
Schunk	315	ROTA NC 315	V = 1/16" x 90°	N = 21	ZG40	515040	71 - 165	325	GN 70
Schunk	315	ROTA NC 315	V = 1/16" x 90°	N = 21	ZG42	515042	114 - 207	330	GN 70
Schunk	315	ROTA NC 315	V = 1/16" x 90°	N = 21	ZG44	515044	181 - 251	325	GN 70
Schunk	315	ROTA NC 315	V = 1/16" x 90°	N = 21	ZG46	515046	225 - 315	375	GN 70
Schunk	315	ROTA NC plus 315	V = 1,5mm x 60°	N = 21	ZF60	511060	39 - 135	335	GP 80
Schunk	315	ROTA NC plus 315	V = 1,5mm x 60°	N = 21	ZF61	511061	109 - 205	335	GP 80
Schunk	315	ROTA NC plus 315	V = 1,5mm x 60°	N = 21	ZF62	511062	177 - 255	330	GP 85
Schunk	315	ROTA NC plus 315	V = 1,5mm x 60°	N = 21	ZF63	511063	248 - 315	375	GP 80
Schunk	315	ROTA NC plus 315	V = 1/16" x 90°	N = 21	ZG40	515040	71 - 169	330	GF 35
Schunk	315	ROTA NC plus 315	V = 1/16" x 90°	N = 21	ZG42	515042	114 - 211	330	GF 35
Schunk	315	ROTA NC plus 315	V = 1/16" x 90°	N = 21	ZG44	515044	181 - 255	330	GF 35
Schunk	315	ROTA NC plus 315	V = 1/16" x 90°	N = 21	ZG46	515046	225 - 315	375	GF 35
Schunk	315	ROTA NCD 315	V = 1,5mm x 60°	N = 21	ZF60	511060	39 - 135	335	GP 80
Schunk	315	ROTA NCD 315	V = 1,5mm x 60°	N = 21	ZF61	511061	109 - 205	335	GP 80
Schunk	315	ROTA NCD 315	V = 1,5mm x 60°	N = 21	ZF62	511062	177 - 255	330	GP 85
Schunk	315	ROTA NCD 315	V = 1,5mm x 60°	N = 21	ZF63	511063	248 - 315	375	GP 80
Schunk	315	ROTA NCD 315	V = 1/16" x 90°	N = 21	ZG40	515040	55 - 169	330	GN 70
Schunk	315	ROTA NCD 315	V = 1/16" x 90°	N = 21	ZG42	515042	98 - 211	330	GN 70
Schunk	315	ROTA NCD 315	V = 1/16" x 90°	N = 21	ZG44	515044	165 - 255	330	GN 70
Schunk	315	ROTA NCD 315	V = 1/16" x 90°	N = 21	ZG46	515046	209 - 315	375	GN 70
Schunk	315	ROTA NCF 315	V = 1,5mm x 60°	N = 18	ZF50	511050	61 - 149	325	GP 70
Schunk	315	ROTA NCF 315	V = 1,5mm x 60°	N = 18	ZF51	511051	109 - 197	325	GP 70
Schunk	315	ROTA NCF 315	V = 1,5mm x 60°	N = 18	ZF52	511052	177 - 247	325	GP 75
Schunk	315	ROTA NCF 315	V = 1,5mm x 60°	N = 18	ZF53	511053	227 - 315	375	GP 70
Schunk	315	ROTA NCF 315	V = 1/16" x 90°	N = 21	ZG40	515040	67 - 161	325	GN 70
Schunk	315	ROTA NCF 315	V = 1/16" x 90°	N = 21	ZG42	515042	110 - 203	325	GN 70
Schunk	315	ROTA NCF 315	V = 1/16" x 90°	N = 21	ZG44	515044	177 - 247	325	GN 70
Schunk	315	ROTA NCF 315	V = 1/16" x 90°	N = 21	ZG46	515046	221 - 315	375	GN 70
Schunk	315	ROTA NCF plus 315	V = 1,5mm x 60°	N = 21	ZF60	511060	39 - 135	335	GP 80
Schunk	315	ROTA NCF plus 315	V = 1,5mm x 60°	N = 21	ZF61	511061	109 - 205	335	GP 80
Schunk	315	ROTA NCF plus 315	V = 1,5mm x 60°	N = 21	ZF62	511062	177 - 255	330	GP 85
Schunk	315	ROTA NCF plus 315	V = 1,5mm x 60°	N = 21	ZF63	511063	248 - 315	375	GP 80

Futterspezifische Daten Chuck specific data

Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
Schunk	315	ROTA NCF plus 315	V = 1/16" x 90°	N = 21	ZG40	515040	71 - 169	330	GF 35
Schunk	315	ROTA NCF plus 315	V = 1/16" x 90°	N = 21	ZG42	515042	114 - 211	330	GF 35
Schunk	315	ROTA NCF plus 315	V = 1/16" x 90°	N = 21	ZG44	515044	181 - 255	330	GF 35
Schunk	315	ROTA NCF plus 315	V = 1/16" x 90°	N = 21	ZG46	515046	225 - 315	375	GF 35
Schunk	315	ROTA NCK plus 315	V = 1,5mm x 60°	N = 21	ZF60	511060	33 - 119	315	GP 80
Schunk	315	ROTA NCK plus 315	V = 1,5mm x 60°	N = 21	ZF61	511061	103 - 189	315	GP 80
Schunk	315	ROTA NCK plus 315	V = 1,5mm x 60°	N = 21	ZF62	511062	171 - 239	315	GP 85
Schunk	315	ROTA NCK plus 315	V = 1,5mm x 60°	N = 21	ZF63	511063	242 - 304	360	GP 80
Schunk	315	ROTA NCK plus 315	V = 1/16" x 90°	N = 21	ZG40	515040	61 - 153	315	GF 35
Schunk	315	ROTA NCK plus 315	V = 1/16" x 90°	N = 21	ZG42	515042	104 - 195	315	GF 35
Schunk	315	ROTA NCK plus 315	V = 1/16" x 90°	N = 21	ZG44	515044	171 - 239	315	GF 35
Schunk	315	ROTA NCK plus 315	V = 1/16" x 90°	N = 21	ZG46	515046	215 - 304	365	GF 35
Schunk	315	ROTA NCO 315	V = 1/16" x 90°	N = 21	ZG40	515040	63 - 171	335	GF 35
Schunk	315	ROTA NCO 315	V = 1/16" x 90°	N = 21	ZG42	515042	106 - 213	335	GF 35
Schunk	315	ROTA NCO 315	V = 1/16" x 90°	N = 21	ZG44	515044	173 - 257	330	GF 35
Schunk	315	ROTA NCO 315	V = 1/16" x 90°	N = 21	ZG46	515046	217 - 315	375	GF 35
Schunk	315	ROTA NCW 315-91	S = 12mm	N = 20	KT30	501010	30 - 189	275	
Schunk	315	ROTA NCW 315-91	S = 12mm	N = 20	KT32	501015	98 - 269	315	
Schunk	315	ROTA NCW 315-91	S = 12mm	N = 20	KT34	501020	168 - 315	355	
Schunk	315	ROTA S plus 315	S = 12mm	N = 26	KT40	501047	30 - 213	315	
Schunk	315	ROTA S plus 315	S = 12mm	N = 26	KT42	501048	126 - 323	365	
Schunk	315	ROTA THW 315-86	S = 12mm	N = 20	KT30	501010	30 - 189	275	
Schunk	315	ROTA THW 315-86	S = 12mm	N = 20	KT32	501015	99 - 269	315	
Schunk	315	ROTA THW 315-86	S = 12mm	N = 20	KT34	501020	169 - 315	355	
Schunk	315	ROTA THW plus 315-104	S = 12mm	N = 20	KT30	501010	30 - 211	295	
Schunk	315	ROTA THW plus 315-104	S = 12mm	N = 20	KT32	501015	101 - 291	335	
Schunk	315	ROTA THW plus 315-104	S = 12mm	N = 20	KT34	501020	171 - 315	355	
Schunk	315	THF 315	V = 1/16" x 90°	N = 21	ZG40	515040	53 - 163	325	GN 70
Schunk	315	THF 315	V = 1/16" x 90°	N = 21	ZG42	515042	96 - 205	325	GN 70
Schunk	315	THF 315	V = 1/16" x 90°	N = 21	ZG44	515044	163 - 249	325	GN 70
Schunk	315	THF 315	V = 1/16" x 90°	N = 21	ZG46	515046	207 - 315	375	GN 70
Schunk	400	ROTA G 400	S = 12mm	N = 26	KT40	501047	58 - 258	360	
Schunk	400	ROTA G 400	S = 12mm	N = 26	KT42	501048	171 - 370	415	
Schunk	400	ROTA S plus 400	S = 18mm	N = 30	KT50	501070	30 - 281	400	
Schunk	400	ROTA S plus 400	S = 18mm	N = 30	KT52	501072	144 - 408	460	
Schunk	400	ROTA THW 400	S = 12mm	N = 26	KT40	501047	30 - 234	335	
Schunk	400	ROTA THW 400	S = 12mm	N = 26	KT42	501048	142 - 347	390	
Schunk	400	ROTA THW 400-120	S = 12mm	N = 26	KT40	501047	30 - 234	335	
Schunk	400	ROTA THW 400-120	S = 12mm	N = 26	KT42	501048	142 - 347	390	



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
Schunk	400	ROTA THW plus 400	S = 12mm	N = 26	KT40	501047	30 - 234	335	
Schunk	400	ROTA THW plus 400	S = 12mm	N = 26	KT40	501047	30 - 234	335	
Schunk	400	ROTA THW plus 400	S = 12mm	N = 26	KT42	501048	142 - 347	390	
Schunk	400	ROTA THW plus 400	S = 12mm	N = 26	KT42	501048	142 - 347	390	
Schunk	500	ROTA G 500	S = 18mm	N = 30	KT50	501070	54 - 353	470	
Schunk	500	ROTA G 500	S = 18mm	N = 30	KT52	501072	184 - 484	535	
Schunk	500	ROTA S plus 500	S = 18mm	N = 30	KT50	501070	48 - 366	485	
Schunk	500	ROTA S plus 500	S = 18mm	N = 30	KT52	501072	178 - 497	550	
Schunk	500	THW plus 500	S = 18mm	N = 30	KT50	501070	30 - 294	410	
Schunk	500	THW plus 500	S = 18mm	N = 30	KT52	501072	154 - 424	475	
Schunk	630	ROTA G 630	S = 18mm	N = 30	KT50	501070	51 - 529	645	
Schunk	630	ROTA G 630	S = 18mm	N = 30	KT52	501072	181 - 639	690	
Schunk	630	THW 630-160	S = 18mm	N = 30	KT50	501070	30 - 417	535	
Schunk	630	THW 630-160	S = 18mm	N = 30	KT52	501072	129 - 548	600	
Schunk	630	THW plus 630	S = 18mm	N = 30	KT50	501070	30 - 417	535	
Schunk	630	THW plus 630	S = 18mm	N = 30	KT52	501072	125 - 548	600	
SMW Autoblok	160	HG-F 160	S = 8mm	N = 18	KT10	501045	30 - 72	140	
SMW Autoblok	160	HG-F 160	S = 8mm	N = 18	KT12	501050	55 - 125	165	
SMW Autoblok	160	HG-F 160	S = 8mm	N = 18	KT14	501055	119 - 165	195	
SMW Autoblok	160	HG-N 160	S = 8mm	N = 18	KT10	501045	30 - 71	140	
SMW Autoblok	160	HG-N 160	S = 8mm	N = 18	KT12	501050	62 - 124	165	
SMW Autoblok	160	HG-N 160	S = 8mm	N = 18	KT14	501055	126 - 160	190	
SMW Autoblok	160	KNCS 160	S = 8mm	N = 18	KT10	501045	30 - 55	120	
SMW Autoblok	160	KNCS 160	S = 8mm	N = 18	KT12	501050	60 - 108	150	
SMW Autoblok	160	KNCS 160	S = 8mm	N = 18	KT14	501055	124 - 160	190	
SMW Autoblok	165	BH-M 165	V = 1,5mm x 60°	N = 12	ZF20	511020	30 - 70	185	GF 31
SMW Autoblok	165	BH-M 165	V = 1,5mm x 60°	N = 12	ZF22	511022	30 - 87	185	GF 31
SMW Autoblok	165	BH-M 165	V = 1,5mm x 60°	N = 12	ZF24	511024	71 - 119	180	GF 31
SMW Autoblok	165	BH-M 165	V = 1,5mm x 60°	N = 12	ZF26	511026	103 - 165	220	GF 31
SMW Autoblok	165	HF/S 165-45	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 42	180	GN 50
SMW Autoblok	165	HF/S 165-45	V = 1/16" x 90°	N = 17	ZG31	515031	34 - 58	180	GN 50
SMW Autoblok	165	HF/S 165-45	V = 1/16" x 90°	N = 17	ZG32	515032	51 - 74	180	GN 50
SMW Autoblok	165	HF/S 165-45	V = 1/16" x 90°	N = 17	ZG36	515036	107 - 113	175	GN 50
SMW Autoblok	165	HF/S 165-45	V = 1/16" x 90°	N = 17	ZG39	515039	145 - 165	220	GN 50
SMW Autoblok	165	HFKN-M 165	V = 1,5mm x 60°	N = 14	ZF20	511020	34 - 68	180	GF 31
SMW Autoblok	165	HFKN-M 165	V = 1,5mm x 60°	N = 14	ZF22	511022	52 - 85	180	GF 31
SMW Autoblok	165	HFKN-M 165	V = 1,5mm x 60°	N = 14	ZF24	511024	103 - 117	180	GF 31
SMW Autoblok	165	HFKN-M 165	V = 1,5mm x 60°	N = 14	ZF26	511026	135 - 165	220	GF 31

Futterspezifische Daten Chuck specific data



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
SMW Autoblok	170	KNCS-N 170	S = 8mm	N = 18	KT10	501045	30 - 71	140	
SMW Autoblok	170	KNCS-N 170	S = 8mm	N = 18	KT12	501050	64 - 124	165	
SMW Autoblok	170	KNCS-N 170	S = 8mm	N = 18	KT14	501055	128 - 175	205	
SMW Autoblok	175	KNCS 175	S = 8mm	N = 18	KT10	501045	30 - 65	130	
SMW Autoblok	175	KNCS 175	S = 8mm	N = 18	KT12	501050	68 - 118	160	
SMW Autoblok	175	KNCS 175	S = 8mm	N = 18	KT14	501055	132 - 175	205	
SMW Autoblok	200	HF/S 200-48	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 80	215	GN 50
SMW Autoblok	200	HF/S 200-48	V = 1/16" x 90°	N = 17	ZG31	515031	42 - 96	215	GN 50
SMW Autoblok	200	HF/S 200-48	V = 1/16" x 90°	N = 17	ZG32	515032	59 - 112	215	GN 50
SMW Autoblok	200	HF/S 200-48	V = 1/16" x 90°	N = 17	ZG36	515036	115 - 151	215	GN 50
SMW Autoblok	200	HF/S 200-48	V = 1/16" x 90°	N = 17	ZG39	515039	153 - 200	255	GN 50
SMW Autoblok	200	HF/S 200-66	V = 1/16" x 90°	N = 17	ZG30	515030	42 - 80	215	GN 50
SMW Autoblok	200	HF/S 200-66	V = 1/16" x 90°	N = 17	ZG31	515031	58 - 96	215	GN 50
SMW Autoblok	200	HF/S 200-66	V = 1/16" x 90°	N = 17	ZG32	515032	75 - 112	215	GN 50
SMW Autoblok	200	HF/S 200-66	V = 1/16" x 90°	N = 17	ZG36	515036	131 - 151	215	GN 50
SMW Autoblok	200	HF/S 200-66	V = 1/16" x 90°	N = 17	ZG39	515039	169 - 200	255	GN 50
SMW Autoblok	200	KNCS 200	S = 10mm	N = 20	KT20	501030	30 - 83	170	
SMW Autoblok	200	KNCS 200	S = 10mm	N = 20	KT22	501035	69 - 150	200	
SMW Autoblok	200	KNCS 200	S = 10mm	N = 20	KT24	501040	149 - 204	240	
SMW Autoblok	210	AL-D 210	V = 1/16" x 90°	N = 17	ZG30	515030	40 - 88	225	GF 30
SMW Autoblok	210	AL-D 210	V = 1/16" x 90°	N = 17	ZG31	515031	56 - 104	225	GF 30
SMW Autoblok	210	AL-D 210	V = 1/16" x 90°	N = 17	ZG32	515032	73 - 120	225	GF 30
SMW Autoblok	210	AL-D 210	V = 1/16" x 90°	N = 17	ZG36	515036	129 - 159	225	GF 30
SMW Autoblok	210	AL-D 210	V = 1/16" x 90°	N = 17	ZG39	515039	167 - 210	265	GF 30
SMW Autoblok	210	AL-M 210	V = 1,5mm x 60°	N = 14	ZF30	511030	33 - 85	240	GF 32
SMW Autoblok	210	AL-M 210	V = 1,5mm x 60°	N = 14	ZF31	511031	73 - 125	240	GF 32
SMW Autoblok	210	AL-M 210	V = 1,5mm x 60°	N = 14	ZF32	511032	129 - 163	225	GF 32
SMW Autoblok	210	AL-M 210	V = 1,5mm x 60°	N = 14	ZF33	511033	165 - 210	260	GF 32
SMW Autoblok	210	AN-D 210	V = 1/16" x 90°	N = 17	ZG30	515030	36 - 84	220	GF 30
SMW Autoblok	210	AN-D 210	V = 1/16" x 90°	N = 17	ZG31	515031	52 - 100	220	GF 30
SMW Autoblok	210	AN-D 210	V = 1/16" x 90°	N = 17	ZG32	515032	69 - 116	220	GF 30
SMW Autoblok	210	AN-D 210	V = 1/16" x 90°	N = 17	ZG36	515036	125 - 155	220	GF 30
SMW Autoblok	210	AN-D 210	V = 1/16" x 90°	N = 17	ZG39	515039	163 - 210	265	GF 30
SMW Autoblok	210	AN-M 210	V = 1,5mm x 60°	N = 14	ZF30	511030	30 - 81	235	GF 32
SMW Autoblok	210	AN-M 210	V = 1,5mm x 60°	N = 14	ZF31	511031	69 - 121	235	GF 32
SMW Autoblok	210	AN-M 210	V = 1,5mm x 60°	N = 14	ZF32	511032	125 - 159	220	GF 32
SMW Autoblok	210	AN-M 210	V = 1,5mm x 60°	N = 14	ZF33	511033	161 - 210	260	GF 32
SMW Autoblok	210	BB-D 210	V = 1/16" x 90°	N = 17	ZG30	515030	40 - 88	225	GF 30
SMW Autoblok	210	BB-D 210	V = 1/16" x 90°	N = 17	ZG31	515031	56 - 104	225	GF 30

Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
SMW Autoblok	210	BB-D 210	V = 1/16" x 90°	N = 17	ZG32	515032	73 - 120	225	GF 30
SMW Autoblok	210	BB-D 210	V = 1/16" x 90°	N = 17	ZG36	515036	129 - 159	220	GF 30
SMW Autoblok	210	BB-D 210	V = 1/16" x 90°	N = 17	ZG39	515039	167 - 210	265	GF 30
SMW Autoblok	210	BB-M 210	V = 1,5mm x 60°	N = 14	ZF30	511030	33 - 85	240	GF 32
SMW Autoblok	210	BB-M 210	V = 1,5mm x 60°	N = 14	ZF31	511031	73 - 125	240	GF 32
SMW Autoblok	210	BB-M 210	V = 1,5mm x 60°	N = 14	ZF32	511032	129 - 163	225	GF 32
SMW Autoblok	210	BB-M 210	V = 1,5mm x 60°	N = 14	ZF33	511033	165 - 210	260	GF 32
SMW Autoblok	210	BH-D 210	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 86	220	GF 30
SMW Autoblok	210	BH-D 210	V = 1/16" x 90°	N = 17	ZG31	515031	42 - 102	220	GF 30
SMW Autoblok	210	BH-D 210	V = 1/16" x 90°	N = 17	ZG32	515032	59 - 118	220	GF 30
SMW Autoblok	210	BH-D 210	V = 1/16" x 90°	N = 17	ZG36	515036	115 - 157	220	GF 30
SMW Autoblok	210	BH-D 210	V = 1/16" x 90°	N = 17	ZG39	515039	153 - 210	265	GF 30
SMW Autoblok	210	BHD-FC 210	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 86	220	GF 30
SMW Autoblok	210	BHD-FC 210	V = 1/16" x 90°	N = 17	ZG31	515031	42 - 102	220	GF 30
SMW Autoblok	210	BHD-FC 210	V = 1/16" x 90°	N = 17	ZG32	515032	59 - 118	220	GF 30
SMW Autoblok	210	BHD-FC 210	V = 1/16" x 90°	N = 17	ZG36	515036	115 - 157	220	GF 30
SMW Autoblok	210	BHD-FC 210	V = 1/16" x 90°	N = 17	ZG39	515039	153 - 210	265	GF 30
SMW Autoblok	210	BH-M 210	V = 1,5mm x 60°	N = 14	ZF30	511030	30 - 83	235	GF 32
SMW Autoblok	210	BH-M 210	V = 1,5mm x 60°	N = 14	ZF31	511031	59 - 123	235	GF 32
SMW Autoblok	210	BH-M 210	V = 1,5mm x 60°	N = 14	ZF32	511032	115 - 161	225	GF 32
SMW Autoblok	210	BH-M 210	V = 1,5mm x 60°	N = 14	ZF33	511033	151 - 210	260	GF 32
SMW Autoblok	210	BHM-FC 210	V = 1,5mm x 60°	N = 14	ZF30	511030	30 - 83	235	GF 32
SMW Autoblok	210	BHM-FC 210	V = 1,5mm x 60°	N = 14	ZF31	511031	59 - 123	235	GF 32
SMW Autoblok	210	BHM-FC 210	V = 1,5mm x 60°	N = 14	ZF32	511032	115 - 161	225	GF 32
SMW Autoblok	210	BHM-FC 210	V = 1,5mm x 60°	N = 14	ZF33	511033	151 - 210	260	GF 32
SMW Autoblok	210	HFKN-D 210	V = 1/16" x 90°	N = 17	ZG30	515030	30 - 90	225	GF 30
SMW Autoblok	210	HFKN-D 210	V = 1/16" x 90°	N = 17	ZG31	515031	42 - 106	225	GF 30
SMW Autoblok	210	HFKN-D 210	V = 1/16" x 90°	N = 17	ZG32	515032	59 - 122	225	GF 30
SMW Autoblok	210	HFKN-D 210	V = 1/16" x 90°	N = 17	ZG36	515036	115 - 161	225	GF 30
SMW Autoblok	210	HFKN-D 210	V = 1/16" x 90°	N = 17	ZG39	515039	153 - 210	265	GF 30
SMW Autoblok	210	HFKN-M 210	V = 1,5mm x 60°	N = 14	ZF30	511030	30 - 91	245	GF 32
SMW Autoblok	210	HFKN-M 210	V = 1,5mm x 60°	N = 14	ZF31	511031	39 - 131	245	GF 32
SMW Autoblok	210	HFKN-M 210	V = 1,5mm x 60°	N = 14	ZF32	511032	95 - 169	230	GF 32
SMW Autoblok	210	HFKN-M 210	V = 1,5mm x 60°	N = 14	ZF33	511033	131 - 210	260	GF 32
SMW Autoblok	210	HG-F 210	S = 10mm	N = 20	KT20	501030	30 - 84	170	
SMW Autoblok	210	HG-F 210	S = 10mm	N = 20	KT22	501035	58 - 151	205	
SMW Autoblok	210	HG-F 210	S = 10mm	N = 20	KT24	501040	138 - 210	245	
SMW Autoblok	210	HG-N 210	S = 10mm	N = 20	KT20	501030	30 - 87	175	
SMW Autoblok	210	HG-N 210	S = 10mm	N = 20	KT22	501035	63 - 154	205	

Futterspezifische Daten Chuck specific data

Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
SMW Autoblok	210	HG-N 210	S = 10mm	N = 20	KT24	501040	143 - 210	245	
SMW Autoblok	210	KNCS 210	S = 10mm	N = 20	KT20	501030	30 - 89	175	
SMW Autoblok	210	KNCS 210	S = 10mm	N = 20	KT22	501035	74 - 156	210	
SMW Autoblok	210	KNCS 210	S = 10mm	N = 20	KT24	501040	154 - 208	245	
SMW Autoblok	210	KNCS-N 210	S = 10mm	N = 20	KT20	501030	30 - 104	190	
SMW Autoblok	210	KNCS-N 210	S = 10mm	N = 20	KT22	501035	71 - 171	225	
SMW Autoblok	210	KNCS-N 210	S = 10mm	N = 20	KT24	501040	151 - 215	250	
SMW Autoblok	225	KNCS-N 225	S = 10mm	N = 20	KT20	501030	30 - 115	200	
SMW Autoblok	225	KNCS-N 225	S = 10mm	N = 20	KT22	501035	73 - 182	235	
SMW Autoblok	225	KNCS-N 225	S = 10mm	N = 20	KT24	501040	153 - 225	290	
SMW Autoblok	250	AL-D 250	V = 1/16" x 90°	N = 21	ZG40	515040	47 - 111	275	GF 35
SMW Autoblok	250	AL-D 250	V = 1/16" x 90°	N = 21	ZG42	515042	90 - 153	275	GF 35
SMW Autoblok	250	AL-D 250	V = 1/16" x 90°	N = 21	ZG44	515044	157 - 197	270	GF 35
SMW Autoblok	250	AL-D 250	V = 1/16" x 90°	N = 21	ZG46	515046	201 - 254	315	GF 35
SMW Autoblok	250	AL-M 250	V = 1,5mm x 60°	N = 16	ZF40	511040	41 - 107	275	GF 34
SMW Autoblok	250	AL-M 250	V = 1,5mm x 60°	N = 16	ZF41	511041	90 - 156	275	GF 34
SMW Autoblok	250	AL-M 250	V = 1,5mm x 60°	N = 16	ZF42	511042	153 - 203	275	GF 34
SMW Autoblok	250	AL-M 250	V = 1,5mm x 60°	N = 16	ZF43	511043	197 - 254	310	GF 34
SMW Autoblok	250	AN-D 250	V = 1/16" x 90°	N = 21	ZG40	515040	43 - 105	270	GF 35
SMW Autoblok	250	AN-D 250	V = 1/16" x 90°	N = 21	ZG42	515042	86 - 147	270	GF 35
SMW Autoblok	250	AN-D 250	V = 1/16" x 90°	N = 21	ZG44	515044	153 - 191	265	GF 35
SMW Autoblok	250	AN-D 250	V = 1/16" x 90°	N = 21	ZG46	515046	197 - 254	315	GF 35
SMW Autoblok	250	AN-M 250	V = 1,5mm x 60°	N = 16	ZF40	511040	37 - 101	270	GF 34
SMW Autoblok	250	AN-M 250	V = 1,5mm x 60°	N = 16	ZF41	511041	86 - 150	270	GF 34
SMW Autoblok	250	AN-M 250	V = 1,5mm x 60°	N = 16	ZF42	511042	149 - 197	270	GF 34
SMW Autoblok	250	AN-M 250	V = 1,5mm x 60°	N = 16	ZF43	511043	193 - 254	310	GF 34
SMW Autoblok	250	BB-D 250	V = 1/16" x 90°	N = 21	ZG40	515040	53 - 105	270	GF 35
SMW Autoblok	250	BB-D 250	V = 1/16" x 90°	N = 21	ZG42	515042	96 - 147	270	GF 35
SMW Autoblok	250	BB-D 250	V = 1/16" x 90°	N = 21	ZG44	515044	163 - 191	265	GF 35
SMW Autoblok	250	BB-D 250	V = 1/16" x 90°	N = 21	ZG46	515046	207 - 254	315	GF 35
SMW Autoblok	250	BB-M 250	V = 1,5mm x 60°	N = 16	ZF40	511040	47 - 101	270	GF 34
SMW Autoblok	250	BB-M 250	V = 1,5mm x 60°	N = 16	ZF41	511041	96 - 150	270	GF 34
SMW Autoblok	250	BB-M 250	V = 1,5mm x 60°	N = 16	ZF42	511042	159 - 197	270	GF 34
SMW Autoblok	250	BB-M 250	V = 1,5mm x 60°	N = 16	ZF43	511043	203 - 254	310	GF 34
SMW Autoblok	250	BH-D 250	V = 1/16" x 90°	N = 21	ZG40	515040	41 - 105	265	GF 35
SMW Autoblok	250	BH-D 250	V = 1/16" x 90°	N = 21	ZG42	515042	84 - 147	265	GF 35
SMW Autoblok	250	BH-D 250	V = 1/16" x 90°	N = 21	ZG44	515044	151 - 191	265	GF 35
SMW Autoblok	250	BH-D 250	V = 1/16" x 90°	N = 21	ZG46	515046	195 - 254	315	GF 35
SMW Autoblok	250	BH-M 250	V = 1,5mm x 60°	N = 16	ZF40	511040	35 - 101	270	GF 34



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
SMW Autoblok	250	BH-M 250	V = 1,5mm x 60°	N = 16	ZF41	511041	84 - 150	270	GF 34
SMW Autoblok	250	BH-M 250	V = 1,5mm x 60°	N = 16	ZF42	511042	147 - 197	270	GF 34
SMW Autoblok	250	BH-M 250	V = 1,5mm x 60°	N = 16	ZF43	511043	191 - 254	310	GF 34
SMW Autoblok	250	HB-D 250	V = 1/16" x 90°	N = 21	ZG40	515040	53 - 117	280	GF 35
SMW Autoblok	250	HB-D 250	V = 1/16" x 90°	N = 21	ZG42	515042	96 - 159	280	GF 35
SMW Autoblok	250	HB-D 250	V = 1/16" x 90°	N = 21	ZG44	515044	163 - 203	280	GF 35
SMW Autoblok	250	HB-D 250	V = 1/16" x 90°	N = 21	ZG46	515046	207 - 260	320	GF 35
SMW Autoblok	250	BHD-FC 250	V = 1/16" x 90°	N = 21	ZG40	515040	41 - 105	265	GF 35
SMW Autoblok	250	BHD-FC 250	V = 1/16" x 90°	N = 21	ZG42	515042	84 - 147	265	GF 35
SMW Autoblok	250	BHD-FC 250	V = 1/16" x 90°	N = 21	ZG44	515044	151 - 191	265	GF 35
SMW Autoblok	250	BHD-FC 250	V = 1/16" x 90°	N = 21	ZG46	515046	195 - 250	310	GF 35
SMW Autoblok	250	BHM-FC 250	V = 1,5mm x 60°	N = 16	ZF40	511040	35 - 101	270	GF 34
SMW Autoblok	250	BHM-FC 250	V = 1,5mm x 60°	N = 16	ZF41	511041	84 - 150	270	GF 34
SMW Autoblok	250	BHM-FC 250	V = 1,5mm x 60°	N = 16	ZF42	511042	147 - 197	270	GF 34
SMW Autoblok	250	BHM-FC 250	V = 1,5mm x 60°	N = 16	ZF43	511043	191 - 250	305	GF 34
SMW Autoblok	250	HFK/S 250-70	V = 1/16" x 90°	N = 21	ZG40	515040	43 - 101	265	GN 70
SMW Autoblok	250	HFK/S 250-70	V = 1/16" x 90°	N = 21	ZG42	515042	86 - 143	265	GN 70
SMW Autoblok	250	HFK/S 250-70	V = 1/16" x 90°	N = 21	ZG44	515044	153 - 187	265	GN 70
SMW Autoblok	250	HFK/S 250-70	V = 1/16" x 90°	N = 21	ZG46	515046	197 - 250	310	GN 70
SMW Autoblok	250	KNCS 250	S = 12mm	N = 20	KT30	501010	30 - 133	220	
SMW Autoblok	250	KNCS 250	S = 12mm	N = 20	KT32	501015	89 - 214	260	
SMW Autoblok	250	KNCS 250	S = 12mm	N = 20	KT34	501020	159 - 260	300	
SMW Autoblok	260	HFKN-D 260	V = 1/16" x 90°	N = 21	ZG40	515040	43 - 111	275	GF 35
SMW Autoblok	260	HFKN-D 260	V = 1/16" x 90°	N = 21	ZG42	515042	86 - 153	275	GF 35
SMW Autoblok	260	HFKN-D 260	V = 1/16" x 90°	N = 21	ZG44	515044	153 - 197	275	GF 35
SMW Autoblok	260	HFKN-D 260	V = 1/16" x 90°	N = 21	ZG46	515046	197 - 254	315	GF 35
SMW Autoblok	260	HFKN-M 260	V = 1,5mm x 60°	N = 21	ZF40	511040	37 - 107	275	GF 34
SMW Autoblok	260	HFKN-M 260	V = 1,5mm x 60°	N = 21	ZF41	511041	86 - 156	275	GF 34
SMW Autoblok	260	HFKN-M 260	V = 1,5mm x 60°	N = 21	ZF42	511042	149 - 203	275	GF 34
SMW Autoblok	260	HFKN-M 260	V = 1,5mm x 60°	N = 21	ZF43	511043	193 - 260	315	GF 34
SMW Autoblok	260	HG-F 260	S = 12mm	N = 20	KT30	501010	30 - 136	220	
SMW Autoblok	260	HG-F 260	S = 12mm	N = 20	KT32	501015	73 - 216	260	
SMW Autoblok	260	HG-F 260	S = 12mm	N = 20	KT34	501020	143 - 260	300	
SMW Autoblok	260	HG-N 260	S = 12mm	N = 20	KT30	501010	30 - 136	220	
SMW Autoblok	260	HG-N 260	S = 12mm	N = 20	KT32	501015	80 - 216	260	
SMW Autoblok	260	HG-N 260	S = 12mm	N = 20	KT34	501020	150 - 260	300	
SMW Autoblok	260	KNCS 260	S = 12mm	N = 20	KT30	501010	30 - 144	230	
SMW Autoblok	260	KNCS 260	S = 12mm	N = 20	KT32	501015	89 - 225	270	
SMW Autoblok	260	KNCS 260	S = 12mm	N = 20	KT34	501020	159 - 260	300	

Futterspezifische Daten Chuck specific data



Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
SMW Autoblok	260	KNCS-N 260	S = 12mm	N = 20	KT30	501010	30 - 144	230	
SMW Autoblok	260	KNCS-N 260	S = 12mm	N = 20	KT32	501015	88 - 225	270	
SMW Autoblok	260	KNCS-N 260	S = 12mm	N = 20	KT34	501020	158 - 260	300	
SMW Autoblok	270	HF/S 270-82	V = 1/16" x 90°	N = 21	ZG40	515040	53 - 117	280	GN 70
SMW Autoblok	270	HF/S 270-82	V = 1/16" x 90°	N = 21	ZG42	515042	96 - 159	280	GN 70
SMW Autoblok	270	HF/S 270-82	V = 1/16" x 90°	N = 21	ZG44	515044	163 - 203	280	GN 70
SMW Autoblok	270	HF/S 270-82	V = 1/16" x 90°	N = 21	ZG46	515046	207 - 270	330	GN 70
SMW Autoblok	275	KNCS-N 275	S = 12mm	N = 20	KT30	501010	30 - 159	245	
SMW Autoblok	275	KNCS-N 275	S = 12mm	N = 20	KT32	501015	72 - 239	285	
SMW Autoblok	275	KNCS-N 275	S = 12mm	N = 20	KT34	501020	142 - 275	315	
SMW Autoblok	315	AL-D 315	V = 1/16" x 90°	N = 21	ZG40	515040	63 - 171	335	GF 35
SMW Autoblok	315	AL-D 315	V = 1/16" x 90°	N = 21	ZG42	515042	106 - 213	335	GF 35
SMW Autoblok	315	AL-D 315	V = 1/16" x 90°	N = 21	ZG44	515044	173 - 257	330	GF 35
SMW Autoblok	315	AL-D 315	V = 1/16" x 90°	N = 21	ZG46	515046	217 - 315	375	GF 35
SMW Autoblok	315	AL-M 315	V = 1,5mm x 60°	N = 21	ZF60	511060	35 - 137	335	GF 35
SMW Autoblok	315	AL-M 315	V = 1,5mm x 60°	N = 21	ZF61	511061	105 - 207	335	GF 35
SMW Autoblok	315	AL-M 315	V = 1,5mm x 60°	N = 21	ZF62	511062	173 - 257	335	GF 35
SMW Autoblok	315	AL-M 315	V = 1,5mm x 60°	N = 21	ZF63	511063	244 - 315	375	GF 35
SMW Autoblok	315	AN-D 315	V = 1/16" x 90°	N = 21	ZG40	515040	57 - 163	325	GF 35
SMW Autoblok	315	AN-D 315	V = 1/16" x 90°	N = 21	ZG42	515042	100 - 205	325	GF 35
SMW Autoblok	315	AN-D 315	V = 1/16" x 90°	N = 21	ZG44	515044	167 - 249	325	GF 35
SMW Autoblok	315	AN-D 315	V = 1/16" x 90°	N = 21	ZG46	515046	211 - 315	375	GF 35
SMW Autoblok	315	AN-M 315	V = 1,5mm x 60°	N = 21	ZF60	511060	30 - 129	325	GF 35
SMW Autoblok	315	AN-M 315	V = 1,5mm x 60°	N = 21	ZF61	511061	99 - 199	325	GF 35
SMW Autoblok	315	AN-M 315	V = 1,5mm x 60°	N = 21	ZF62	511062	167 - 249	325	GF 35
SMW Autoblok	315	AN-M 315	V = 1,5mm x 60°	N = 21	ZF63	511063	238 - 315	375	GF 35
SMW Autoblok	315	BB-D 315	V = 1/16" x 90°	N = 21	ZG40	515040	101 - 165	325	GF 35
SMW Autoblok	315	BB-D 315	V = 1/16" x 90°	N = 21	ZG42	515042	144 - 207	325	GF 35
SMW Autoblok	315	BB-D 315	V = 1/16" x 90°	N = 21	ZG44	515044	211 - 251	325	GF 35
SMW Autoblok	315	BB-D 315	V = 1/16" x 90°	N = 21	ZG46	515046	255 - 315	375	GF 35
SMW Autoblok	315	BB-M 315	V = 1,5mm x 60°	N = 21	ZF60	511060	73 - 131	330	GF 35
SMW Autoblok	315	BB-M 315	V = 1,5mm x 60°	N = 21	ZF61	511061	143 - 201	330	GF 35
SMW Autoblok	315	BB-M 315	V = 1,5mm x 60°	N = 21	ZF62	511062	211 - 251	325	GF 35
SMW Autoblok	315	BB-M 315	V = 1,5mm x 60°	N = 21	ZF63	511063	282 - 315	375	GF 35
SMW Autoblok	315	BH-D 315	V = 1/16" x 90°	N = 21	ZG40	515040	71 - 165	330	GF 35
SMW Autoblok	315	BH-D 315	V = 1/16" x 90°	N = 21	ZG42	515042	114 - 207	330	GF 35
SMW Autoblok	315	BH-D 315	V = 1/16" x 90°	N = 21	ZG44	515044	181 - 251	325	GF 35
SMW Autoblok	315	BH-D 315	V = 1/16" x 90°	N = 21	ZG46	515046	225 - 315	375	GF 35
SMW Autoblok	315	BHD-FC 315	V = 1/16" x 90°	N = 21	ZG40	515040	71 - 165	330	GF 35

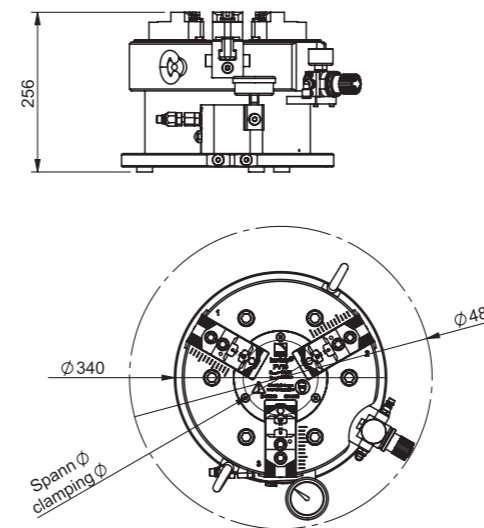
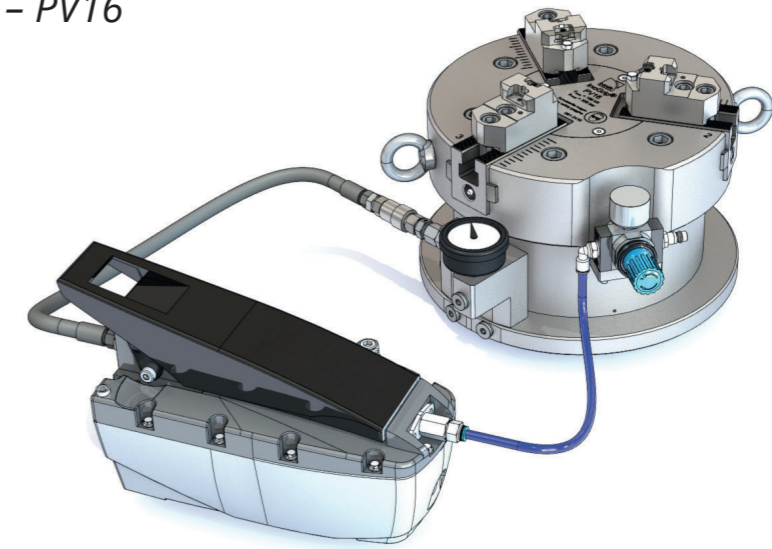
Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
SMW Autoblok	315	BHD-FC 315	V = 1/16" x 90°	N = 21	ZG42	515042	114 - 207	330	GF 35
SMW Autoblok	315	BHD-FC 315	V = 1/16" x 90°	N = 21	ZG44	515044	181 - 251	325	GF 35
SMW Autoblok	315	BHD-FC 315	V = 1/16" x 90°	N = 21	ZG46	515046	225 - 315	375	GF 35
SMW Autoblok	315	BH-M 315	V = 1,5mm x 60°	N = 21	ZF60	511060	43 - 131	330	GF 35
SMW Autoblok	315	BH-M 315	V = 1,5mm x 60°	N = 21	ZF61	511061	113 - 201	330	GF 35
SMW Autoblok	315	BH-M 315	V = 1,5mm x 60°	N = 21	ZF62	511062	181 - 251	325	GF 35
SMW Autoblok	315	BH-M 315	V = 1,5mm x 60°	N = 21	ZF63	511063	252 - 315	375	GF 35
SMW Autoblok	315	BHM-FC 315	V = 1,5mm x 60°	N = 21	ZF60	511060	43 - 131	330	GF 35
SMW Autoblok	315	BHM-FC 315	V = 1,5mm x 60°	N = 21	ZF61	511061	113 - 201	330	GF 35
SMW Autoblok	315	BHM-FC 315	V = 1,5mm x 60°	N = 21	ZF62	511062	181 - 251	325	GF 35
SMW Autoblok	315	BHM-FC 315	V = 1,5mm x 60°	N = 21	ZF63	511063	252 - 315	375	GF 35
SMW Autoblok	315	HB-D 315	V = 1/16" x 90°	N = 21	ZG40	515040	67 - 173	335	GF 35
SMW Autoblok	315	HB-D 315	V = 1/16" x 90°	N = 21	ZG42	515042	110 - 215	335	GF 35
SMW Autoblok	315	HB-D 315	V = 1/16" x 90°	N = 21	ZG44	515044	177 - 259	335	GF 35
SMW Autoblok	315	HB-D 315	V = 1/16" x 90°	N = 21	ZG46	515046	221 - 315	375	GF 35
SMW Autoblok	315	HF/S 315-86	V = 1/16" x 90°	N = 21	ZG40	515040	63 - 167	330	GN 70
SMW Autoblok	315	HF/S 315-86	V = 1/16" x 90°	N = 21	ZG42	515042	106 - 209	330	GN 70
SMW Autoblok	315	HF/S 315-86	V = 1/16" x 90°	N = 21	ZG44	515044	173 - 253	330	GN 70
SMW Autoblok	315	HF/S 315-86	V = 1/16" x 90°	N = 21	ZG46	515046	217 - 315	375	GN 70
SMW Autoblok	315	HFKN-D 315	V = 1/16" x 90°	N = 21	ZG40	515040	81 - 167	330	GF 35
SMW Autoblok	315	HFKN-D 315	V = 1/16" x 90°	N = 21	ZG42	515042	124 - 209	330	GF 35
SMW Autoblok	315	HFKN-D 315	V = 1/16" x 90°	N = 21	ZG44	515044	191 - 253	330	GF 35
SMW Autoblok	315	HFKN-D 315	V = 1/16" x 90°	N = 21	ZG46	515046	235 - 315	375	GF 35
SMW Autoblok	315	HFKN-M 315	V = 1,5mm x 60°	N = 21	ZF60	511060	53 - 133	330	GF 35
SMW Autoblok	315	HFKN-M 315	V = 1,5mm x 60°	N = 21	ZF61	511061	123 - 203	330	GF 35
SMW Autoblok	315	HFKN-M 315	V = 1,5mm x 60°	N = 21	ZF62	511062	191 - 253	330	GF 35
SMW Autoblok	315	HFKN-M 315	V = 1,5mm x 60°	N = 21	ZF63	511063	262 - 315	375	GF 35
SMW Autoblok	315	HG-F 315	S = 12mm	N = 26	KT40	501047	30 - 195	295	
SMW Autoblok	315	HG-F 315	S = 12mm	N = 26	KT42	501048	95 - 308	350	
SMW Autoblok	315	HG-N 315	S = 12mm	N = 20	KT30	501010	30 - 194	280	
SMW Autoblok	315	HG-N 315	S = 12mm	N = 20	KT32	501015	100 - 274	320	
SMW Autoblok	315	HG-N 315	S = 12mm	N = 20	KT34	501020	170 - 315	355	
SMW Autoblok	315	KNCS 315-77	S = 12mm	N = 20	KT30	501010	30 - 189	275	
SMW Autoblok	315	KNCS 315-77	S = 12mm	N = 20	KT32	501015	98 - 269	315	
SMW Autoblok	315	KNCS 315-77	S = 12mm	N = 20	KT34	501020	168 - 315	355	
SMW Autoblok	315	KNCS 315-91	S = 12mm	N = 20	KT30	501010	30 - 201	285	
SMW Autoblok	315	KNCS 315-91	S = 12mm	N = 20	KT32	501015	110 - 281	325	
SMW Autoblok	315	KNCS 315-91	S = 12mm	N = 20	KT34	501020	180 - 315	355	
SMW Autoblok	315	KNCS-N 315	S = 12mm	N = 20	KT30	501010	30 - 212	300	

Futterspezifische Daten Chuck specific data

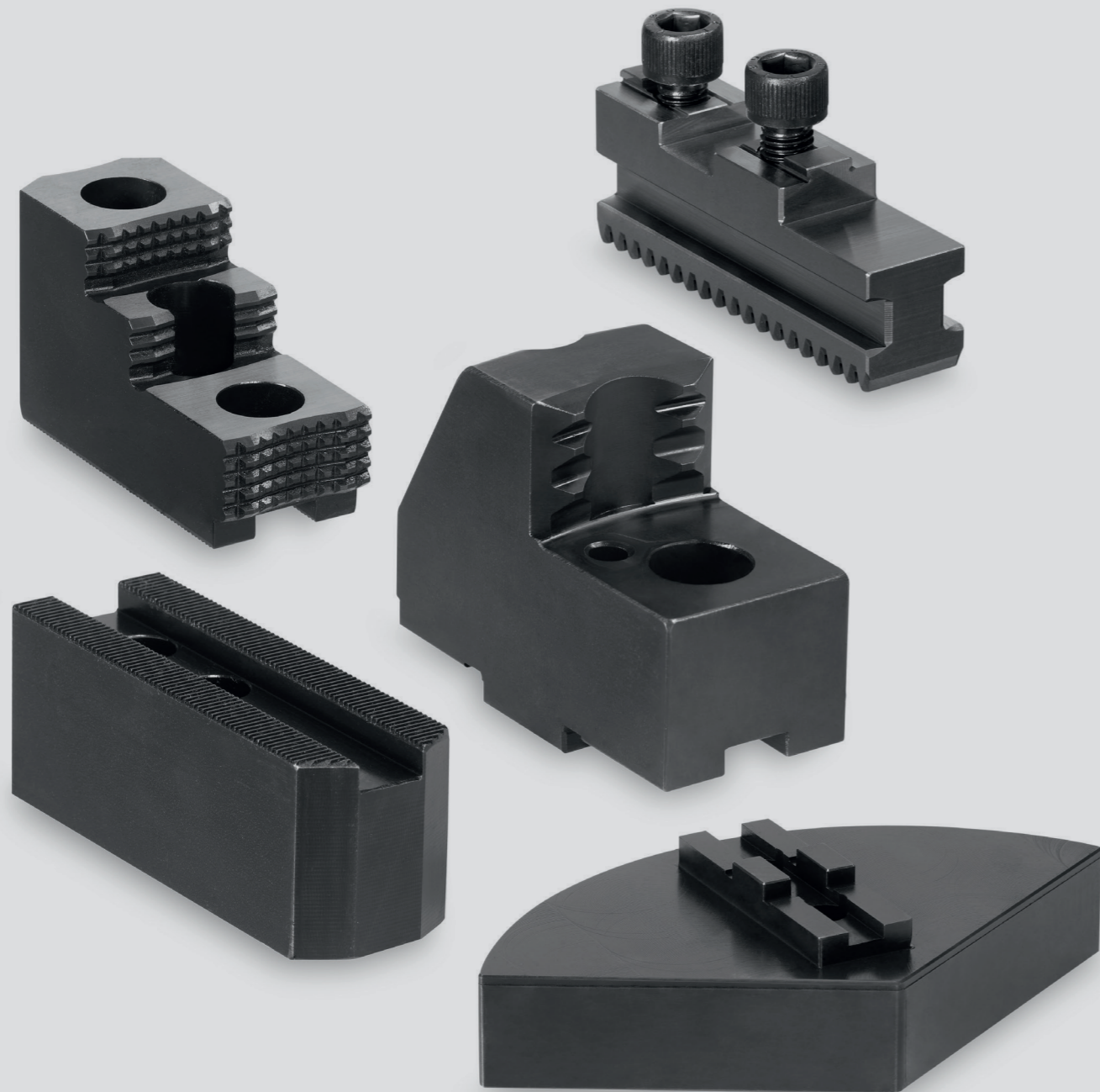
Futterhersteller Manufacturer	Futtergröße Chuck size	Futtertyp Chuck type	Backenanschluss des Futters Jaw-connection of the Chuck		InoGrip® Typ InoGrip® type	Ident-Nr. ident no.	Spannbe- reich [außen] clamping range [external]	Schwingkreis swing ø [mm]	** InoTop Nutenstein ** InoTop T-Nut
			S [mm] / V	N [mm]			ø min.-max. [mm]		
SMW Autoblok	315	KNCS-N 315	S = 12mm	N = 20	KT32	501015	99 - 292	340	
SMW Autoblok	315	KNCS-N 315	S = 12mm	N = 20	KT34	501020	169 - 315	355	
SMW Autoblok	315	NT-D 315	V = 1/16" x 90°	N = 21	ZG40	515040	57 - 163	325	GF 35
SMW Autoblok	315	NT-D 315	V = 1/16" x 90°	N = 21	ZG42	515042	100 - 205	325	GF 35
SMW Autoblok	315	NT-D 315	V = 1/16" x 90°	N = 21	ZG44	515044	167 - 249	325	GF 35
SMW Autoblok	315	NT-D 315	V = 1/16" x 90°	N = 21	ZG46	515046	211 - 315	375	GF 35
SMW Autoblok	325	KNCS-N 325	S = 12	N = 20	KT30	501010	30 - 223	310	
SMW Autoblok	325	KNCS-N 325	S = 12	N = 20	KT32	501015	110 - 303	350	
SMW Autoblok	325	KNCS-N 325	S = 12	N = 20	KT34	501020	180 - 324	365	
SMW Autoblok	340	KNCS-N 340	S = 12	N = 20	KT30	501010	44 - 238	325	
SMW Autoblok	340	KNCS-N 340	S = 12	N = 20	KT30	501010	44 - 238	325	
SMW Autoblok	340	KNCS-N 340	S = 12	N = 20	KT32	501015	125 - 318	365	
SMW Autoblok	340	KNCS-N 340	S = 12	N = 20	KT32	501015	125 - 318	365	
SMW Autoblok	340	KNCS-N 340	S = 12	N = 20	KT34	501020	195 - 340	380	
SMW Autoblok	340	KNCS-N 340	S = 12	N = 20	KT34	501020	195 - 340	380	
SMW Autoblok	400	HG-F 400	S = 18	N = 30	KT50	501070	30 - 260	380	
SMW Autoblok	400	HG-F 400	S = 18	N = 30	KT52	501072	126 - 391	445	
SMW Autoblok	400	HG-N 400	S = 12	N = 26	KT40	501047	36 - 235	335	
SMW Autoblok	400	HG-N 400	S = 12	N = 26	KT42	501048	149 - 347	390	
SMW Autoblok	400	KNCS 400-92	S = 12	N = 26	KT40	501047	30 - 234	335	
SMW Autoblok	400	KNCS 400-92	S = 12	N = 26	KT42	501048	30 - 346	390	
SMW Autoblok	400	KNCS-N 400	S = 12	N = 26	KT40	501047	56 - 262	360	
SMW Autoblok	400	KNCS-N 400	S = 12	N = 26	KT40	501047	56 - 262	360	
SMW Autoblok	400	KNCS-N 400	S = 12	N = 26	KT42	501048	168 - 374	415	
SMW Autoblok	400	KNCS-N 400	S = 12	N = 26	KT42	501048	168 - 374	415	
SMW Autoblok	500	HG-N 500	S = 18	N = 30	KT50	501070	30 - 295	415	
SMW Autoblok	500	HG-N 500	S = 18	N = 30	KT52	501072	153 - 426	480	
SMW Autoblok	500	KNCS 500-128/92	S = 18	N = 30	KT50	501070	30 - 295	415	
SMW Autoblok	500	KNCS 500-128/92	S = 18	N = 30	KT52	501072	155 - 426	480	
SMW Autoblok	500	KNCS-N 500	S = 18	N = 30	KT50	501070	30 - 323	440	
SMW Autoblok	500	KNCS-N 500	S = 18	N = 30	KT52	501072	154 - 454	505	
SMW Autoblok	630	HG-N 630	S = 18	N = 30	KT50	501070	104 - 456	575	
SMW Autoblok	630	HG-N 630	S = 18	N = 30	KT52	501072	234 - 587	640	
SMW Autoblok	630	KNCS 630	S = 18	N = 30	KT50	501070	30 - 416	535	
SMW Autoblok	630	KNCS 630	S = 18	N = 30	KT52	501072	47 - 546	600	
SMW Autoblok	630	KNCS-N 630	S = 18	N = 30	KT50	501070	30 - 414	530	
SMW Autoblok	630	KNCS-N 630	S = 18	N = 30	KT52	501072	153 - 545	595	



InoGrip® Prägestation - PV16 InoGrip® stamping-unit - PV16



Identnummer Identnumber		535016
Durchmesser Prägefutter Diameter of stamping-chuck	mm	Ø 315
Durchmesser Bodenplatte Diameter of baseplate	mm	Ø 340
Höhe inkl. Prägebacken height incl. stamping-jaws	mm	264
Masse inkl. Prägebacken weight incl. stamping-jaws	kg	90
max. Prägekraft (gesamt) max. stamping-force	kN	180
Backenhub jaw-travel	mm	6
max. pneumatischer Druck max. pneumatic pressure	bar	6
max. hydraulischer Druck max. hydraulic pressure	bar	350
Prägebereich stamping range	mm	Ø 35-315



Standard- und Sonderspannbacken Standard and special jaws

Wir bieten unseren Kunden Standardspannbacken für alle gängigen Spannfutter an. Sie erhalten bei uns ein Kompletzprogramm mit harten und weichen Spannbacken sowie Grundbacken, Nutzensteinen und Zubehör.

Auch kundenspezifische Aufgabenstellungen, die im Standard nicht abbildbar sind, werden durch unsere Konstruktion umgesetzt und in unserem Hause gefertigt. Hier kommt unseren Kunden unsere Kreativität und langjährige Erfahrung sowie unser Kosten- und Qualitätsbewusstsein zu Gute.

Wir möchten unsere Kunden stets mit dem größtmöglichen Service und technischer Beratung unterstützen. Im Bereich der Standardspannbacken haben wir aus diesem Grund unseren Spannbacken-Finder auf unserer Website für Sie bereitgestellt.

- Standardspannbacken für alle gängigen Spannfutter
- Kundenspezifische Sonderspannlösungen
- Modern ausgestattete Konstruktion mit langjähriger Erfahrung in der Spanntechnik

We offer our customers standard clamping jaws for all standard chucks. Our product portfolio consists of hard and soft clamping jaws, base jaws, t-nuts and accessories.

User specific problems which cannot be handled with standard products will be solved by our engineering department and produced in-house. Here our customers benefit from our creativity and wealth of as well as our cost- and quality awareness.

We always want to support our customers with the greatest possible service and technical consultation. This is why we provide our clamping jaw finder on our website to help you find the right clamping jaws.

- Standard clamping jaws for all standard chucks
- Customised special clamping solutions
- State-of-the-art design department with a wealth of experience in clamping technology

Spannbacken-Finder für alle gängigen Spannfutter Clamping jaw finder for all standard chucks

www.spannbacken.de

Nur drei Auswahlsschritte zum gewünschten Produkt:

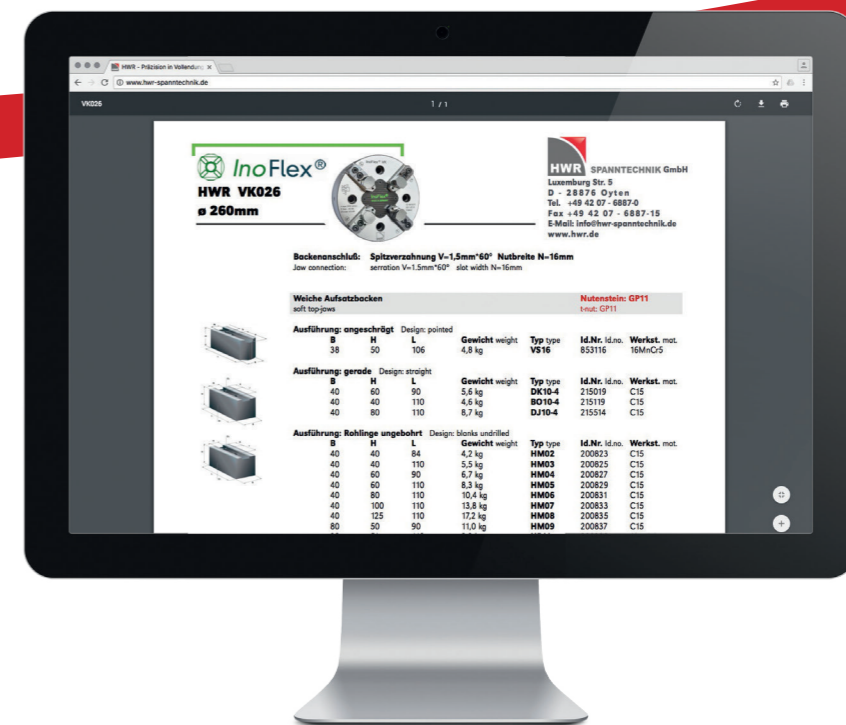
1. Futterhersteller
2. Futtertyp
3. Durchmesser

Und schon können Sie das Datenblatt als PDF-Dokument herunterladen!

Just three steps to the product you need:

1. Chuck manufacturer
2. Chuck type
3. Diameter

And now you can download the data sheet as PDF document!



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