PATENT

Das **INO**Zet® - Pendelsystem kann auf nahezu jedes vorhandene 3- oder 4-Backen-Futter ab einer Durchmessergröße von 200 mm adaptiert werden.

*The **INO**Zet® pendulum system can be adapted to almost any existing 3-jaw chuck from a diameter of 200 mm.*

INOZet®

Die perfekte Drehung

The perfect turn

SICHER & FLEXIBEL

Herausragende Drehergebnisse und erhebliche Kostenersparnis! Mit **INO**Zet® machen Sie aus Ihrem herkömmlichen 3-Backen-Futter im Handumdrehen ein extrem flexibles, ausgleichendes 6-Backen-Futter. Sowie aus einem ausgleichenden **INO**Flex® 4-Backenfutter ein ausgleichendes 8-Backen-Futter.

- Verdoppelung der Spannstellen des vorhandenen Spannfutters
- Ausgleichende sowie starre Spannung
- 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! ***INO****Zet® turns your conventional 3-jaw chuck into an extremely flexible, compensating 6-jaw chuck in next-to-no time. And from a compensating* **INO**Flex® *4-jaw chuck a compensating 8-jaw chuck.*

- *Doubling of the clamping points of the existing chuck*
- *Compensating and fixed clamping*
- *One set of top-jaws for the whole chuck clamping range*
- *Ideal for machining deformation sensitive parts*
- *Outstanding roundness results*
- *Easy to handle*

Maximale Flexibilität
Maximum flexibility

AUSGEZEICHNETE TECHNIK

Das innovative Spannsystem **INO**Zet® 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, unrunden Rohteilen oder Bauteilen mit Verzug durch thermische Behandlung, bietet das **INO**Zet®-Spannsystem entscheidende Vorteile.

Mit **INO**Zet® hat HWR es geschafft, einen neuen Stand der Technik zu definieren: Aus einem vorhandenen 3- oder 4-Backen-Futter wird im Handumdrehen ein ausgleichendes 6- bzw. 8-Backen-Futter. Durch die pendelnde Lagerung wirken die Pendelbrücken ausgleichend und ermöglichen so eine verformungsarme 6- bzw. 8-Punkt-Spannung. Durch die Verdopplung der Spannstellen wird der Spanndruck gleichmäßiger in das Werkstück eingeleitet und die Polygonbildung entscheidend verringert.

NORTEC AWARD

OUTSTANDING TECHNOLOGY

The innovative **INO**Zet® *clamping system was presented to the public in 2010 and honoured with the NORTEC Award at the Nortec in Hamburg.*

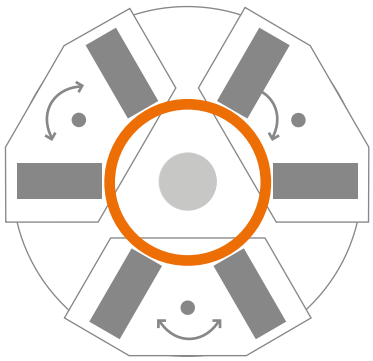
Since then, there has been a continuous increase in the number of users. The **INO**Zet® *clamping system offers crucial advantages particularly when clamping deformation-sensitive parts, out-of round components or parts deformed by thermal treatment.*

With **INO**Zet®*, HWR has redefined the state of the art in technology: an existing 3- or 4-jaw chuck ist turned into a compensating 6- or 8-jaw chuck in next-to-no time. The pendulum mechanism gives the pendulum bridges a compensating effect, thus permitting low-deformation 6- or rather 8-point-clamping. Doubling the number of clamping points ensures that the clamping pressure is introduced more evenly into the workpiece, with a crucial reduction in polygon formation.*

Herkömmliche 3-Punkt-Spannung
Conventional 3-point clamping

DAS FUNKTIONSPRINZIP

Die pendelnde Lagerung ermöglicht einen Ausgleich unter den einzelnen 6 Backen. Dadurch können sich alle Spannpunkte gleichmäßig und mit gleicher Kraft an das Werkstück anlegen. Spannsysteme mit mehr als drei Spannpunkten ohne entsprechenden Ausgleich bilden eine überbestimmte Spannsituation und bringen insbesondere Werkstücke mit dünnen Wandstärken in eine Zwangslage mit hohem Verformungsanteil. Dieser Nachteil besteht bei **INO**Zet® durch den Einsatz der Pendelmechanik nicht. Durch die Verzahnung auf der Oberseite können mit einem Satz (6 Stück) Aufsatzbacken Werkstücke im gesamten Futterdurchmesser gespannt werden. Der Einsatz von harten Backen für die Rohteilbearbeitung als auch der Einsatz von ausgedrehten weichen Backen für die zweite Operation ist gleichermaßen möglich.



Die **INO**Zet®-6-Punkt-Spannung
6-point clamping with **INO**Zet®

HOW IT WORKS

The oscillating system allows compensation under the 6 jaws while still clamping centrically. The compensation allows all clamping points to contact the workpiece evenly and with the same force to the workpiece. Clamping systems with more than three clamping points without compensation leads to an over-determined clamping situation and particularly bring thinwalled workpieces into a forced position with a high proportion of deformation. This disadvantage does not exist with **INO**Zet® *by using the compensation technic. Due to the serration on the upper side of the pendulums, workpieces can be clamped in the entire chuck diameter range with one set of top jaws (6 pieces). Only a single set of jaws is required for small and large diameters as well as for internal and external clamping. The use of hard jaws for rough machining as well as the use of turned soft jaws for the second operation is equally possible.*

PATENT

INOZet®

Futterspezifische Daten
Chuck specific data

Technische Daten siehe Seite 107-109
Technical data see pages 107-109

INOZet® Aufsatzbacken siehe Seite 110-113
INOZet® *top-jaws see pages 110-113*

Futterhersteller *chuck manufacturer*	**Futtertyp** *chuck type*	**Futtergröße** *chuck size* ø mm	**Backenanschluss des Futters** *jaw-connection of the chuck* S mm / V	N mm	**INOZet® Bezeichnung** **INOZet®** *description*	**Ident-Nr.** *ident-no.*	** Nutenstein *** Grundbacke ** *t-Nut* *** *base-jaw*
Auto Strong	N-208	210	V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN12
	V-208		V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN10
	N-210	254	V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GP11
	V-210		V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GP10
	N-212	304	V = 1,5mm x 60°	N = 21	**WTS031-WV17**	**751156**	TT65
	V-212		V = 1,5mm x 60°	N = 18	**WTS031-WV10**	**751060**	GP12
	N-215	381	V = 1,5mm x 60°	N = 22	**WTS038-WV21**	**751157**	GP15
	V-215		V = 1,5mm x 60°	N = 22	**WTS038-WV21**	**751157**	GP15
	N-218	450	V = 1,5mm x 60°	N = 22	**WTS045-WV32**	**751158**	GP15
	V-218		V = 1,5mm x 60°	N = 22	**WTS045-WV32**	**751158**	X5507
	N-220	510	V = 3mm x 60°	N = 25	**WTS053-WV40**	**751072**	GP21
	N-224	610	V = 3mm x 60°	N = 25	**WTS063-WV42**	**751094**	GP21
	V-224		V = 3mm x 60°	N = 25	**WTS063-WV42**	**751094**	GP21
	V-232	810	V = 3mm x 60°	N = 25	**WTS080-WV46**	**751080**	GP21
Berg	KH 250	250	V = 1/16“ x 90°	N = 16	**WTS025-WV52**	**751101**	WN25
	KH 315	315	V = 1/16“ x 90°	N = 16	**WTS031-WV67**	**751160**	GB16 / GC16S
	KH 400	400	V = 3/32“ x 90°	N = 20	**WTS040-WV72**	**751132**	**
	KH 500	500	V = 3/32“ x 90°	N = 20	**WTS050-WV86**	**751150**	**
Bison	3200 / 3500 – 200	200	S = 10	N = 16	**WTS022-WK02**	**751045**	***
	3200 / 3500 – 250	250	S = 12	N = 20	**WTS025-WK05**	**751057**	***
	3200 / 3500 – 315	315	S = 12	N = 20	**WTS031-WK10**	**751054**	***
	3200 / 3500 – 400	400	S = 12	N = 26	**WTS040-WK20**	**751137**	X8936
	3200 / 3500 – 500	500	S = 12,7	N = 19,03	**WTS050-WK34**	**751106**	
	3200 / 3500 – 630	630	S = 12,7	N = 19,03	**WTS063-WK38**	**751116**	
	3200 / 3500 – 800	800	S = 12,7	N = 19,05	**WTS080-WK47**	**751102**	

Futterhersteller *chuck manufacturer*	**Futtertyp** *chuck type*	**Futtergröße** *chuck size* ø mm	**Backenanschluss des Futters** *jaw-connection of the chuck* S mm / V	N mm	**INOZet® Bezeichnung** **INOZet®** *description*	**Ident-Nr.** *ident-no.*	** Nutenstein *** Grundbacke ** *t-Nut* *** *base-jaw*
Forkardt	F+ 200	200	S = 10	N = 20	**WTS022-WK02**	**751045**	MFI200
	FNC 200		S = 10	N = 20	**WTS022-WK02**	**751045**	MFI200
	KTG / KTN 200		V = 1/16" x 90°	N = 17	**WTS021-WV03**	**751114**	GN50
	NH / NHF 200		V = 1/16" x 90°	N = 17	**WTS021-WV03**	**751114**	GN50
	QLC / QLK 200		V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	GF17
	QLC-KS / QLK-KS 200		V = 1/16" x 90°	N = 17	**WTS021-WV03**	**751114**	GN50
	F+ 250	250	S = 12	N = 20	**WTS025-WK05**	**751057**	
	FNC 250		S = 12	N = 20	**WTS025-WK05**	**751057**	
	KTG / KTN 250		V = 1/16" x 90°	N = 21	**WTS025-WV57**	**751162**	GN25
	KTNC 250		S = 12	N = 20	**WTS025-WK05**	**751057**	
	NH / NHF 250		V = 1/16" x 90°	N = 21	**WTS025-WV57**	**751162**	GN25
	QLC / QLK 250		V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GP11
	QLC / QLK 250		V = 1/16" x 90°	N = 21	**WTS025-WV57**	**751162**	GN25
	QLC-KS / QLK-KS 250		V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	
	QLC-KS / QLK-KS 250		V = 1/16" x 90°	N = 17	**WTS025-WV50**	**751059**	GN16
	F+ 315	315	S = 12	N = 26	**WTS031-21-WK15**	**751091**	
	FNC 315		S = 12	N = 20	**WTS031-WK10**	**751054**	
	KTG / KTN 315		V = 1/16" x 90°	N = 21	**WTS031-WV62**	**751159**	GN25
	KTNC 315		S = 12	N = 20	**WTS031-WK10**	**751054**	
	NH / NHF 315		V = 1/16" x 90°	N = 21	**WTS031-WV62**	**751159**	GN25
	QLC / QLK 315		V = 1,5mm x 60°	N = 21	**WTS031-WV17**	**751156**	TT65
	QLC / QLK 315		V = 1/16" x 90°	N = 21	**WTS031-WV62**	**751159**	GN25
	F+ 400	400	S = 18	N = 30	**WTS040-20-WK25**	**751138**	
	FNC 400		S = 12	N = 26	**WTS040-WK20**	**751137**	
	KTG / KTN 400		V = 3/32" x 90°	N = 25,5	**WTS040-WV77**	**751161**	GN40
	KTNC 400		S = 12	N = 26	**WTS040-WK20**	**751137**	
	NHF 400		V = 1/16" x 90°	N = 21	**WTS040-WV71**	**751140**	**
	NHF 400		V = 3/32" x 90°	N = 25,5	**WTS040-WV77**	**751161**	GN40
	QLC / QLK 400		V = 1,5mm x 60°	N = 21	**WTS040-WV27**	**751139**	GN25
	QLC / QLK 400		V = 1/16" x 90°	N = 21	**WTS040-WV71**	**751140**	GN25
	QLC / QLK 400		V = 3/32" x 90°	N = 25,5	**WTS040-WV77**	**751161**	GN40
	QLC-KS / QLK-KS 400		V = 1,5mm x 60°	N = 21	**WTS040-WV27**	**751139**	GN25
	QLC-KS / QLK-KS 400		V = 1/16" x 90°	N = 21	**WTS040-WV71**	**751140**	GN25
	F+ 500	500	S = 18	N = 30	**WTS050-WK30**	**751070**	
	FNC 500		S = 18	N = 30	**WTS050-WK30**	**751070**	
	KTG / KTN 500		V = 3/32" x 90°	N = 25,5	**WTS050-WV85**	**751056**	GN40

INOZet®

Futterspezifische Daten
Chuck specific data

Technische Daten siehe Seite 107-109
Technical data see pages 107-109

INOZet® Aufsatzbacken siehe Seite 110-113
INOZet® *top-jaws see pages 110-113*

Futterhersteller *chuck manufacturer*	**Futtertyp** *chuck type*	**Futtergröße** *chuck size* ø mm	**Backenanschluss des Futters** *jaw-connection of the chuck* S mm / V	N mm	**INOZet® Bezeichnung** *INOZet® description*	**Ident-Nr.** *ident-no.*	** Nutenstein *** Grundbacke ** *t-Nut* *** *base-jaw*
Forkardt	KTNC 500	500	S = 18	N = 30	**WTS050-WK30**	**751070**	
	NHF 500		V = 3/32“ x 90°	N = 25,5	**WTS050-WV85**	**751056**	GN40
	F+ 630	630	S = 24	N = 40	**WTS063-WK40**	**751077**	
	FNC 630		S = 18	N = 30	**WTS063-WK35**	**751075**	
	KTG / KTN 630		V = 3/32“ x 90°	N = 25,5	**WTS063-WV90**	**751051**	GN40
	NHF 630		V = 3/32“ x 90°	N = 25,5	**WTS063-WV90**	**751051**	GN40
HWR	VD026	260	V = 1,5mm x 60°	N = 16	**WTS025-4-WV02**	**751163**	WN26
	VK026		V = 1,5mm x 60°	N = 16	**WTS025-4-WV02**	**751163**	WN26
	VK-S 026		V = 1,5mm x 60°	N = 16	**WTS025-4-WV02**	**751163**	WN26
	VM026		V = 1,5mm x 60°	N = 16	**WTS025-4-WV02**	**751163**	WN26
	VT026		V = 1,5mm x 60°	N = 16	**WTS025-4-WV02**	**751163**	WN26
	VT-S 026		V = 1,5mm x 60°	N = 16	**WTS025-4-WV02**	**751163**	WN26
	VD031	315	V = 1,5mm x 60°	N = 16	**WTS031-4-WV05**	**751164**	GP11
	VK031		V = 1,5mm x 60°	N = 16	**WTS031-4-WV05**	**751164**	GP11
	VK-S 031		V = 1,5mm x 60°	N = 16	**WTS031-4-WV05**	**751164**	GP11
	VM031		V = 1,5mm x 60°	N = 16	**WTS031-4-WV05**	**751164**	GP11
	VT031		V = 1,5mm x 60°	N = 16	**WTS031-4-WV05**	**751164**	GP11
	VT-Q 031		S = 12	N = 20	**WKS031-4-WK05**	**751201**	
	VT-S 031		V = 1,5mm x 60°	N = 16	**WTS031-4-WV05**	**751164**	GP11
	VL032	325	V = 1,5mm x 60°	N = 16	**WTS031-4-WV05**	**751164**	GP11
	VD040	400	V = 1,5mm x 60°	N = 21	**WTS040-4-WV17**	**751169**	TT65
	VK040		V = 1,5mm x 60°	N = 21	**WTS040-4-WV17**	**751169**	TT65
	VK-S 040		V = 1,5mm x 60°	N = 21	**WTS040-4-WV17**	**751169**	TT65
	VM040		V = 1,5mm x 60°	N = 21	**WTS040-4-WV17**	**751169**	TT65
	VT040		V = 1,5mm x 60°	N = 21	**WTS040-4-WV17**	**751169**	TT65
	VT-S 040		V = 1,5mm x 60°	N = 21	**WTS040-4-WV17**	**751169**	TT65
	VL042	420	V = 1,5mm x 60°	N = 16	**WTS040-4-WV07**	**751177**	GP11
	VF-A 042		V = 1,5mm x 60°	N = 16	**WTS040-4-WV07**	**751177**	GP11
	VD050	500	V = 3mm x 60°	N = 25	**WTS050-4-WV19**	**751170**	WN50
	VK050		V = 3mm x 60°	N = 25	**WTS050-4-WV19**	**751170**	WN50
	VT050		V = 3mm x 60°	N = 25	**WTS050-4-WV19**	**751170**	WN50
	VK-S 050		V = 3mm x 60°	N = 25	**WTS050-4-WV19**	**751170**	WN50
	VT-S 050		V = 3mm x 60°	N = 25	**WTS050-4-WV19**	**751170**	WN50
HWR	VL060	600	V = Modul 2	N = 16	**WTS063-4-WV24**	**751179**	TT70

Futterhersteller *chuck manufacturer*	**Futtertyp** *chuck type*	**Futtergröße** *chuck size* ø mm	**Backenanschluss des Futters** *jaw-connection of the chuck* S mm / V	N mm	**INOZet® Bezeichnung** **INOZet®** *description*	**Ident-Nr.** *ident-no.*	** Nutenstein *** Grundbacke ** *t-Nut* *** *base-jaw*
	VD063	630	V = 3mm x 60°	N = 25	**WTS063-4-WV23**	**751152**	WN50
	VK063		V = 3mm x 60°	N = 25	**WTS063-4-WV23**	**751152**	WN50
	VK-S 063		V = 3mm x 60°	N = 25	**WTS063-4-WV23**	**751152**	WN50
	VT063		V = 3mm x 60°	N = 25	**WTS063-4-WV23**	**751152**	WN50
	VT-S 063		V = 3mm x 60°	N = 25	**WTS063-4-WV23**	**751152**	WN50
	VL070	700	V = Modul 2	N = 16	**WTS070-4-WV89**	**751173**	TT70
	VF-A 070		V = Modul 2	N = 16	**WTS070-4-WV89**	**751173**	TT70
	VD080	800	V = 3mm x 60°	N = 25	**WTS080-4-WV42**	**751165**	GP21
	VK080		V = 3mm x 60°	N = 25	**WTS080-4-WV42**	**751165**	GP21
	VK-S 080		V = 3mm x 60°	N = 25	**WTS080-4-WV42**	**751165**	GP21
	VT-S 080		V = 3mm x 60°	N = 25	**WTS080-4-WV42**	**751165**	GP21
	VL080		V = Modul 2	N = 16	**WTS081-4-WV49**	**751198**	TT70
	VL091	910	V = Modul 2	N = 21	**WTS100-4-WV83**	**850021**	GP13
	VD100	990	V = 3mm x 60°	N = 25	**WTS100-4-WV48**	**751182**	GP21
	VK-S 100		V = 3mm x 60°	N = 25	**WTS100-4-WV48**	**751182**	GP21
	VL100		V = Modul 2	N = 21	**WTS100-4-WV83**	**751178**	TT65
	VD120	1150	V = 3mm x 60°	N = 25	**WTS120-4-WV48**	**751183**	GP21
	VL120		V = Modul 2	N = 21	**WTS120-4-WV83**	**751181**	TT65
Kitagawa	B-08	210	V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN10
	B-208		V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN12
	BB-208 / BB-08		V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN12
	N-08 / NL-08		V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN10
	B-10	254	V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GP10
	B-210		V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GP11
	BB-210		V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GP11
	N-10		V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GP10
	B-12	304	V = 1,5mm x 60°	N = 18	**WTS031-WV10**	**751060**	GP12
	B-212		V = 1,5mm x 60°	N = 21	**WTS031-WV17**	**751156**	TT65
	N-12		V = 1,5mm x 60°	N = 18	**WTS031-WV10**	**751060**	GP12
	BB-212	315	V = 1,5mm x 60°	N = 21	**WTS031-WV17**	**751156**	WN32
	B-15	381	V = 1,5mm x 60°	N = 22	**WTS038-WV21**	**751157**	GP15
	B-215		V = 1,5mm x 60°	N = 22	**WTS038-WV21**	**751157**	X5507
	N-15		V = 1,5mm x 60°	N = 22	**WTS038-WV21**	**751157**	X5507
	B-18	450	V = 1,5mm x 60°	N = 22	**WTS045-WV32**	**751158**	GP15
	BB-218		V = 1,5mm x 60°	N = 22	**WTS045-WV32**	**751158**	X9208
	N-18		V = 1,5mm x 60°	N = 22	**WTS045-WV32**	**751158**	X5507
	NV-18		V = 1,5mm x 60°	N = 22	**WTS045-WV32**	**751158**	X5507
	B-21	530	V = 3mm x 60°	N = 25	**WTS053-WV40**	**751072**	GP21
	N-21		V = 3mm x 60°	N = 25	**WTS053-WV40**	**751072**	GP21

INOZet®

Futterspezifische Daten
Chuck specific data

Technische Daten siehe Seite 107-109
Technical data see pages 107-109

INOZet® Aufsatzbacken siehe Seite 110-113
INOZet® *top-jaws see pages 110-113*

Futterhersteller *chuck manufacturer*	**Futtertyp** *chuck type*	**Futtergröße** *chuck size* ø mm	**Backenanschluss des Futters** *jaw-connection of the chuck* S mm / V	N mm	**INOZet® Bezeichnung** *INOZet® description*	**Ident-Nr.** *ident-no.*	** Nutenstein *** Grundbacke ** *t-Nut* *** *base-jaw*
Kitagawa	B-24	610	V = 3mm x 60°	N = 25	**WTS063-WV42**	**751094**	GP21
	N-24		V = 3mm x 60°	N = 25	**WTS063-WV42**	**751094**	GP21
	NV-24		V = 3mm x 60°	N = 25	**WTS063-WV42**	**751094**	GP21
	NV-28	700	V = 3mm x 60°	N = 25	**WTS063-WV42**	**751094**	GP21
Röhm	DURO 200	200	S = 10	N = 20	**WTS022-WK02**	**751045**	MFI200
	DURO-NC 200		S = 10	N = 20	**WTS022-WK02**	**751045**	MFI200
	DURO-NCSE 200		S = 10	N = 20	**WTS022-WK02**	**751045**	GBI20
	DURO-T 200		S = 10	N = 20	**WTS022-WK02**	**751045**	MFI200
	KFD 200		V = 1/16“ x 90°	N = 17	**WTS021-WV03**	**751114**	GE30
	KFD-HS 200		V = 1/16“ x 90°	N = 17	**WTS021-WV03**	**751114**	GE30
	LVE 200		V = 1/16“ x 90°	N = 17	**WTS021-WV03**	**751114**	GF30
	ZG / ZS 200		S = 10	N = 16	**WTS022-WK02**	**751045**	X8754
	DURO-NCSE 210	210	S = 10	N = 20	**WTS022-WK02**	**751045**	GBI20
	KFD-HE 210		V = 1/16“ x 90°	N = 17	**WTS021-WV03**	**751114**	GE30
	KFD-HE 210		V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	**
	DURO-NCSE 225	225	S = 10	N = 20	**WTS022-WK02**	**751045**	GBI20
	DURO 250	250	S = 12	N = 20	**WTS025-WK05**	**751057**	
	DURO-NC 250		S = 12	N = 20	**WTS025-WK05**	**751057**	
	DURO-NCES 250		S = 12	N = 20	**WTS025-WK05**	**751057**	
	DURO-T 250		S = 12	N = 20	**WTS025-WK05**	**751057**	
	KFD 250		V = 1/16“ x 90°	N = 21	**WTS025-WV57**	**751162**	GE25
	KFD-HE 250		V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GP11
	KFD-HE 250		V = 1/16“ x 90°	N = 21	**WTS025-WV57**	**751162**	GE25
	KFD-HS 250		V = 1/16“ x 90°	N = 17	**WTS025-WV50**	**751059**	GE21/17
	LVE 250		V = 1/16“ x 90°	N = 21	**WTS025-WV57**	**751162**	GE25
	ZG / ZS 250		S = 12	N = 20	**WTS025-WK05**	**751057**	X8751
	DURO-NCSE 260	260	S = 12	N = 20	**WTS025-WK05**	**751057**	
	DURO-NCSE 265	265	S = 12	N = 20	**WTS025-WK05**	**751057**	

Futterhersteller *chuck manufacturer*	**Futtertyp** *chuck type*	**Futtergröße** *chuck size* ø mm	**Backenanschluss des Futters** *jaw-connection of the chuck* S mm / V	N mm	**INOZet® Bezeichnung** *INOZet® description*	**Ident-Nr.** *ident-no.*	** Nutenstein *** Grundbacke ** *t-Nut* *** *base-jaw*
Röhm	DURO 315	315	S = 12	N = 26	**WTS031-21-WK15**	**751091**	
	DURO-NC 315		S = 12	N = 26	**WTS031-21-WK15**	**751091**	
	DURO-NCES 315		S = 12	N = 20	**WTS031-WK10**	**751054**	
	DURO-NCSE 315		S = 12	N = 26	**WTS031-WK10**	**751054**	
	DURO-T 315		S = 12	N = 26	**WTS031-21-WK15**	**751091**	
	KFD 315		V = 1/16" x 90°	N = 21	**WTS031-WV62**	**751159**	GE25
	KFD-HE 315		V = 1,5mm x 60°	N = 21	**WTS031-WV17**	**751156**	GE25
	KFD-HE 315		V = 1/16" x 90°	N = 21	**WTS031-WV62**	**751159**	GE25
	KFD-HS 315		V = 1/16" x 90°	N = 21	**WTS031-WV62**	**751159**	GE25
	LVE 315		V = 1/16" x 90°	N = 21	**WTS031-WV62**	**751159**	GE25
	ZG / ZS 315		S = 12	N = 20	**WTS031-WK10**	**751054**	X8603
	ZG / ZS 350	350	S = 12	N = 20	**WTS031-WK10**	**751054**	***
	ZG / ZS 350		S = 12	N = 26	**WTS040-WK20**	**751137**	***
	DURO 400	400	S = 18	N = 30	**WTS040-20-WK25**	**751138**	
	DURO-NC 400		S = 18	N = 30	**WTS040-20-WK25**	**751138**	
	DURO-NCES 400		S = 12	N = 26	**WTS040-WK20**	**751137**	
	DURO-NCSE 400		S = 12	N = 26	**WTS040-WK20**	**751137**	
	DURO-T 400		S = 18	N = 30	**WTS040-20-WK25**	**751138**	
	KFD 400		V = 3/32" x 90°	N = 25,5	**WTS040-WV77**	**751161**	GE40
	KFD-HE 400		V = 3/32" x 90°	N = 25,5	**WTS040-WV77**	**751161**	GE40
	KFD-HS 400		V = 3/32" x 90°	N = 25,5	**WTS040-WV77**	**751161**	GE40
	ZG / ZS 400		S = 12	N = 26	**WTS040-WK20**	**751137**	***
	DURO 500	500	S = 18	N = 30	**WTS050-WK30**	**751070**	
	DURO-NC 500		S = 18	N = 30	**WTS050-WK30**	**751070**	
	DURO-NCSE 500		S = 18	N = 30	**WTS050-WK30**	**751070**	
	DURO-T 500		S = 18	N = 30	**WTS050-WK30**	**751070**	
	KFD 500		V = 3/32" x 90°	N = 25,5	**WTS050-WV85**	**751056**	GE40
	KFD-HE 500		V = 3/32" x 90°	N = 25,5	**WTS050-WV85**	**751056**	**
	KFD-HS 500		V = 3/32" x 90°	N = 25,5	**WTS050-WV85**	**751056**	GE40
	LVE 570		V = 3/32" x 90°	N = 25,5	**WTS063-WV90**	**751051**	GE40
	ZG / ZS 500		S = 12,7	N = 19,03	**WTS050-WK34**	**751106**	
	DURO 630	630	S = 24	N = 40	**WTS063-WK40**	**751077**	
	DURO-NC 630		S = 24	N = 40	**WTS063-WK40**	**751077**	
	DURO-NCSE 630		S = 18	N = 30	**WTS063-WK35**	**751075**	
	DURO-T 630		S = 24	N = 40	**WTS063-WK40**	**751077**	
	KFD 630		V = 3/32" x 90°	N = 25,5	**WTS063-WV90**	**751051**	GE40
	ZG / ZS 630		S = 12,7	N = 19,03	**WTS063-WK38**	**751116**	

INOZet®

Futterspezifische Daten
Chuck specific data

Technische Daten siehe Seite 107-109
Technical data see pages 107-109

INOZet® Aufsatzbacken siehe Seite 110-113
INOZet® *top-jaws see pages 110-113*

Futterhersteller *chuck manufacturer*	**Futtertyp** *chuck type*	**Futtergröße** *chuck size* ø mm	**Backenanschluss des Futters** *jaw-connection of the chuck* S mm / V	N mm	**INOZet® Bezeichnung** *INOZet® description*	**Ident-Nr.** *ident-no.*	** Nutenstein *** Grundbacke ** *t-Nut* *** *base-jaw*
Röhm	DURO 800	800	S = 24	N = 40	**WTS080-WK50**	**751050**	
	KFD 800		V = 3/32" x 90°	N = 25,5	**WTS080-WV95**	**751078**	GE40
	LVE 800		V = 3/32" x 90°	N = 30	**WTS080-WV94**	**751079**	**
	ZG / ZS 800		S = 12,7	N = 19,05	**WTS080-WK47**	**751102**	
	DURO 1000	1000	S = 24	N = 40	**WTS100-WK65**	**751087**	
	KFD 1000		V = Modul 2	N = 30	**WTS100-WV97**	**751084**	
	ZG / ZS 1000		S = 12,7	N = 19,03	**WTS100-WK59**	**751126**	
	DURO 1250	1250	S = 24	N = 40	**WTS125-WK65**	**751030**	
	KFD 1250		V = Modul 2	N = 30	**WTS125-WV97**	**751089**	
	ZG / ZS 1250		S = 12,7	N = 19,03	**WTS125-WK64**	**751128**	
Samchully	HC-08	210	V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN10
	HCH-08		V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN10
	HS-08		V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN12
	HH-208 / MH-208		V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN12
	HC-10	254	V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GP10
	HCH-10		V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GP10
	HH-210 / MH-210		V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GP11
	HS-10		V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GP11
	HC-12	304	V = 1,5mm x 60°	N = 18	**WTS031-WV10**	**751060**	GP12
	HCH-12		V = 1,5mm x 60°	N = 18	**WTS031-WV10**	**751060**	GP12
	HS-12		V = 1,5mm x 60°	N = 21	**WTS031-WV17**	**751156**	TT65
	HH-212 / MH-212	315	V = 1,5mm x 60°	N = 21	**WTS031-WV17**	**751156**	TT65
	HC-15	381	V = 1,5mm x 60°	N = 22	**WTS038-WV21**	**751157**	X5507
	HCH-15		V = 1,5mm x 60°	N = 22	**WTS038-WV21**	**751157**	GP15
	HC-18	450	V = 1,5mm x 60°	N = 22	**WTS045-WV32**	**751158**	X5507
	HCH-18		V = 1,5mm x 60°	N = 22	**WTS045-WV32**	**751158**	GP15
	HCH-18B	457	V = 1,5mm x 60°	N = 22	**WTS045-WV32**	**751158**	GP15
	MH-218		V = 3mm x 60°	N = 22	**WTS045-WV35**	**751143**	GP15

Futterhersteller *chuck manufacturer*	**Futtertyp** *chuck type*	**Futtergröße** *chuck size* ø mm	**Backenanschluss des Futters** *jaw-connection of the chuck* S mm / V	N mm	**INOZet® Bezeichnung** **INOZet®** *description*	**Ident-Nr.** *ident-no.*	** Nutenstein *** Grundbacke ** *t-Nut* *** *base-jaw*
Samchully	HC-21	530	V = 3mm x 60°	N = 25	**WTS053-WV40**	**751072**	GP21
	HCH-21		V = 3mm x 60°	N = 25	**WTS053-WV40**	**751072**	GP21
	HCH-21B		V = 3mm x 60°	N = 25	**WTS053-WV40**	**751072**	GP21
	MH-221		V = 3mm x 60°	N = 25	**WTS053-WV40**	**751072**	GP21
	HC-24	610	V = 3mm x 60°	N = 25	**WTS063-WV42**	**751094**	GP21
	HCH-24		V = 3mm x 60°	N = 25	**WTS063-WV42**	**751094**	GP21
	HC-32	800	S = 19,025	N = 12,7	**WTS080-WK55**	**751083**	
	HC-32		V = 3mm x 60°	N = 25,5	**WTS080-WV45**	**751081**	
	HCH-32		V = 3mm x 60°	N = 25,5	**WTS080-WV45**	**751081**	
Schunk	ROTA G 200	200	S = 10	N = 20	**WTS022-WK02**	**751045**	GBI20
	ROTA S plus 200		S = 10	N = 20	**WTS022-WK02**	**751045**	MFI200
	ROTA NC 210	210	V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN10
	ROTA NC 210		V = 1/16“ x 90°	N = 17	**WTS021-WV03**	**751114**	GF30
	ROTA NCD 210		V = 1/16“ x 90°	N = 17	**WTS021-WV03**	**751114**	GN50
	ROTA NCF 210		V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN10
	ROTA NCF 210		V = 1/16“ x 90°	N = 17	**WTS021-WV03**	**751114**	GF30
	ROTA NCF plus 210		V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN12
	ROTA NCK 210		V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN12
	ROTA NCK plus 210		V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN12
	ROTA NCK plus 210		V = 1/16“ x 90°	N = 17	**WTS021-WV03**	**751114**	GF30
	ROTA NCO 210		V = 1/16“ x 90°	N = 17	**WTS021-WV03**	**751114**	GF30
	ROTA THW 210		S = 10	N = 20	**WTS022-WK02**	**751045**	GBI20
	ROTA NC plus 215	215	V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN12
	ROTA NC plus 215		V = 1/16“ x 90°	N = 17	**WTS021-WV03**	**751114**	GF30
	ROTA NCD 215		V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN12
	ROTA NCD 215		V = 1/16“ x 90°	N = 17	**WTS021-WV03**	**751114**	GF30
	ROTA NCF plus 215		V = 1/16“ x 90°	N = 17	**WTS021-WV03**	**751114**	GF30
	ROTA THW plus 215		S = 10	N = 20	**WTS022-WK02**	**751045**	GBI20
	ROTA NCW 225	225	S = 10	N = 20	**WTS022-WK02**	**751045**	GBI20
	ROTA G 250	250	S = 12	N = 20	**WTS025-WK05**	**751057**	
	ROTA NC 250		V = 1/16“ x 90°	N = 21	**WTS025-WV57**	**751162**	GF261
	ROTA NCD 250		V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GP10
	ROTA NCD 250		V = 1/16“ x 90°	N = 21	**WTS025-WV57**	**751162**	GN25
	ROTA NCF 250		V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GP10
	ROTA NCF 250		V = 1/16“ x 90°	N = 21	**WTS025-WV57**	**751162**	GF261
	ROTA NCK 250		V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GP11
	ROTA NCK plus 250		V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GP11
	ROTA NCK plus 250		V = 1/16“ x 90°	N = 17	**WTS025-WV50**	**751059**	GF211

INOZet®

Futterspezifische Daten
Chuck specific data

Technische Daten siehe Seite 107-109
Technical data see pages 107-109

INOZet® Aufsatzbacken siehe Seite 110-113
INOZet® *top-jaws see pages 110-113*

Futterhersteller *chuck manufacturer*	**Futtertyp** *chuck type*	**Futtergröße** *chuck size* ø mm	**Backenanschluss des Futters** *jaw-connection of the chuck* S mm / V	N mm	**INOZet® Bezeichnung** **INOZet®** *description*	**Ident-Nr.** *ident-no.*	** Nutenstein *** Grundbacke ** *t-Nut* *** *base-jaw*
Schunk	ROTA ROTA NC 250	250	V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GP10
	ROTA S plus 250		S = 12	N = 20	**WTS025-WK05**	**751057**	
	ROTA THW 250-65		S = 12	N = 20	**WTS025-WK05**	**751057**	
	ROTA NCD 255	255	V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GP11
	ROTA NCD 255		V = 1/16“ x 90°	N = 21	**WTS025-WV57**	**751162**	GN25
	ROTA NC plus 260	260	V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GP11
	ROTA NC plus 260		V = 1/16“ x 90°	N = 21	**WTS025-WV57**	**751162**	GF261
	ROTA NCF plus 260		V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GP11
	ROTA NCF plus 260		V = 1/16“ x 90°	N = 21	**WTS025-WV57**	**751162**	GF261
	ROTA NCO 260		V = 1/16“ x 90°	N = 21	**WTS025-WV57**	**751162**	GF261
	ROTA THW plus 260		S = 12	N = 20	**WTS025-WK05**	**751057**	
	ROTA NCW 265	265	S = 12	N = 20	**WTS025-WK05**	**751057**	
	ROTA G 315	315	S = 12	N = 20	**WTS031-WK10**	**751054**	
	ROTA NC 315-86		V = 1,5mm x 60°	N = 18	**WTS031-WV10**	**751060**	GP12
	ROTA NC 315-86		V = 1/16“ x 90°	N = 21	**WTS031-WV62**	**751159**	GN25
	ROTA NC plus 315		V = 1,5mm x 60°	N = 21	**WTS031-WV17**	**751156**	GF261
	ROTA NC plus 315		V = 1/16“ x 90°	N = 21	**WTS031-WV62**	**751159**	GF261
	ROTA NCD 315	315	V = 1/16“ x 90°	N = 21	**WTS031-WV62**	**751159**	GN25
	ROTA NCD 315		V = 1,5mm x 60°	N = 21	**WTS031-WV17**	**751156**	TT65
	ROTA NCF 315		V = 1,5mm x 60°	N = 18	**WTS031-WV10**	**751060**	GP12
	ROTA NCF 315		V = 1/16“ x 90°	N = 21	**WTS031-WV62**	**751159**	GN25
	ROTA NCF plus 2 315		V = 1/16“ x 90°	N = 21	**WTS031-WV62**	**751159**	GF261
	ROTA NCF plus 315		V = 1,5mm x 60°	N = 21	**WTS031-WV17**	**751156**	TT65
	ROTA NCF plus 315		V = 1/16“ x 90°	N = 21	**WTS031-WV62**	**751159**	GF261
	ROTA NCK plus 315		V = 1,5mm x 60°	N = 21	**WTS031-WV17**	**751156**	TT65
	ROTA NCK plus 315		V = 1/16“ x 90°	N = 21	**WTS031-WV62**	**751159**	GF261
	ROTA NCO 315		V = 1/16“ x 90°	N = 21	**WTS031-WV62**	**751159**	GF261
	ROTA NCW 315		S = 12	N = 20	**WTS031-WK10**	**751054**	
	ROTA S plus 315		S = 12	N = 26	**WTS031-21-WK15**	**751091**	

Futterhersteller *chuck manufacturer*	**Futtertyp** *chuck type*	**Futtergröße** *chuck size* ø mm	**Backenanschluss des Futters** *jaw-connection of the chuck* S mm / V	N mm	**INOZet® Bezeichnung** **INOZet®** *description*	**Ident-Nr.** *ident-no.*	** Nutenstein *** Grundbacke ** *t-Nut* *** *base-jaw*
Schunk	ROTA THW 315	315	S = 12	N = 20	**WTS031-WK10**	**751054**	
	ROTA THW plus 315		S = 12	N = 20	**WTS031-WK10**	**751054**	
	ROTA G 400	400	S = 12	N = 26	**WTS040-WK20**	**751137**	
	ROTA NC 400		V = 1,5mm x 60°	N = 21	**WTS040-WV27**	**751139**	WN34
	ROTA NC 400		V = 3/32" x 90°	N = 25,5	**WTS040-WV77**	**751161**	GN40
	ROTA NCD 400		V = 3/32" x 90°	N = 25,5	**WTS040-WV77**	**751161**	GN40
	ROTA NCF 400		V = 1,5mm x 60°	N = 21	**WTS040-WV27**	**751139**	WN34
	ROTA NCF 400		V = 3/32" x 90°	N = 25,5	**WTS040-WV77**	**751161**	GN40
	ROTA NCO 400		V = 3/32" x 90°	N = 25,5	**WTS040-WV77**	**751161**	GE40
	ROTA S plus 400		S = 18	N = 30	**WTS040-20-WK25**	**751138**	
	ROTA THW 400		S = 12	N = 26	**WTS040-WK20**	**751137**	
	ROTA THW plus 400		S = 12	N = 26	**WTS040-WK20**	**751137**	
	ROTA G 500	500	S = 18	N = 30	**WTS050-WK30**	**751070**	
	ROTA NC 500		V = 3/32" x 90°	N = 25,5	**WTS050-WV85**	**751056**	GN40
	ROTA NCD 500		V = 3/32" x 90°	N = 25,5	**WTS050-WV85**	**751056**	GN40
	ROTA NCF 500		V = 3/32" x 90°	N = 25,5	**WTS050-WV85**	**751056**	GN40
	ROTA NCO 500		V = 3/32" x 90°	N = 25,5	**WTS050-WV85**	**751056**	GE40
	ROTA S plus 500		S = 18	N = 30	**WTS050-WK30**	**751070**	
	ROTA THW 500		S = 18	N = 30	**WTS050-WK30**	**751070**	
	ROTA G 630	630	S = 18	N = 30	**WTS063-WK35**	**751075**	
	ROTA NC 630		V = 3/32" x 90°	N = 30	**WTS063-WV92**	**751074**	GN80
	ROTA NCO 630		V = 3/32" x 90°	N = 25,5	**WTS063-WV90**	**751051**	GN40
	ROTA S plus 630		S = 24	N = 40	**WTS063-WK40**	**751077**	
	ROTA THW 630		S = 18	N = 30	**WTS063-WK35**	**751075**	
	ROTA THW plus 630		S = 18	N = 30	**WTS063-WK35**	**751075**	
	ROTA NC 800	800	V = 3/32" x 90°	N = 30	**WTS080-WV94**	**751079**	GN80
	ROTA NCO 800		V = 3/32" x 90°	N = 25,5	**WTS080-WV95**	**751078**	GN40
	ROTA S plus 800		S = 24	N = 40	**WTS080-WK50**	**751050**	
	ROTA NC 1000	1000	V = Modul 2	N = 30	**WTS100-WV97**	**751084**	
	ROTA NCO 1000		V = Modul 2	N = 30	**WTS100-WV97**	**751084**	
	ROTA S plus 1000		S = 24	N = 40	**WTS100-WK65**	**751087**	
SMW Autoblok	HFK / HFKS 200-48	200	V = 1/16" x 90°	N = 17	**WTS021-WV03**	**751114**	GN50
	HFK / HFKS 200-66		V = 1/16" x 90°	N = 17	**WTS021-WV03**	**751114**	GN50
	AL-D 210	210	V = 1/16" x 90°	N = 17	**WTS021-WV03**	**751114**	GF30
	AL-M 210		V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN14
	AN-D 210		V = 1/16" x 90°	N = 17	**WTS021-WV03**	**751114**	GF30
	AN-M 210		V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN14
	BB-D 210		V = 1/16" x 90°	N = 17	**WTS021-WV03**	**751114**	GF30
	BB-M 210		V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN14

INOZet®

Futterspezifische Daten
Chuck specific data

Technische Daten siehe Seite 107-109
Technical data see pages 107-109

INOZet® Aufsatzbacken siehe Seite 110-113
INOZet® *top-jaws see pages 110-113*

Futterhersteller *chuck manufacturer*	**Futtertyp** *chuck type*	**Futtergröße** *chuck size* ø mm	**Backenanschluss des Futters** *jaw-connection of the chuck* S mm / V	N mm	**INOZet® Bezeichnung** **INOZet®** *description*	**Ident-Nr.** *ident-no.*	** Nutenstein *** Grundbacke ** *t-Nut* *** *base-jaw*
SMW Autoblok	BH-D 210	210	V = 1/16“ x 90°	N = 17	**WTS021-WV03**	**751114**	GF30
	BHD-FC 210		V = 1/16“ x 90°	N = 17	**WTS021-WV03**	**751114**	GF30
	BH-M 210		V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN14
	BHM-FC 210		V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN14
	HFKN-D 210		V = 1/16“ x 90°	N = 17	**WTS021-WV03**	**751114**	GF30
	HFKN-M 210		V = 1,5mm x 60°	N = 14	**WTS021-WV04**	**751098**	WN14
	HG-F 210		S = 10	N = 20	**WTS022-WK02**	**751045**	MFI200
	HG-N 210		S = 10	N = 20	**WTS022-WK02**	**751045**	GBI20
	KNCS-N 210		S = 10	N = 20	**WTS022-WK02**	**751045**	GBI20
	KNCS-N 225	225	S = 10	N = 20	**WTS022-WK02**	**751045**	GBI20
	AL-D 250	250	V = 1/16“ x 90°	N = 21	**WTS025-WV57**	**751162**	GF261
	AL-M 250		V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GF263
	AN-D 250		V = 1/16“ x 90°	N = 21	**WTS025-WV57**	**751162**	GF261
	AN-M 250		V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GF263
	BB-D 250		V = 1/16“ x 90°	N = 21	**WTS025-WV57**	**751162**	GF261
	BB-M 250		V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GF263
	BH-D 250		V = 1/16“ x 90°	N = 21	**WTS025-WV57**	**751162**	GF261
	BHD-FC 250		V = 1/16“ x 90°	N = 21	**WTS025-WV57**	**751162**	GF261
	BH-M 250		V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GF263
	BHM-FC 250		V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	GF263
	HFK / HFKS 250		V = 1/16“ x 90°	N = 21	**WTS025-WV57**	**751162**	GN25
	HFKN-D 260	260	V = 1/16“ x 90°	N = 21	**WTS025-WV57**	**751162**	GF261
	HFKN-M 260		V = 1,5mm x 60°	N = 16	**WTS025-WV05**	**751058**	**
	HG-F 260		S = 12	N = 20	**WTS025-WK05**	**751057**	
	HG-N 260		S = 12	N = 20	**WTS025-WK05**	**751057**	
	KNCS-N 260		S = 12	N = 20	**WTS025-WK05**	**751057**	
	HFK / HFKS 270	270	V = 1/16“ x 90°	N = 21	**WTS025-WV57**	**751162**	GN25
	KNCS-N 275	275	S = 12	N = 20	**WTS025-WK05**	**751057**	

Futterhersteller *chuck manufacturer*	**Futtertyp** *chuck type*	**Futtergröße** *chuck size* ø mm	**Backenanschluss des Futters** *jaw-connection of the chuck* S mm / V	N mm	**INOZet® Bezeichnung** **INOZet®** *description*	**Ident-Nr.** *ident-no.*	** Nutenstein *** Grundbacke ** *t-Nut* *** *base-jaw*
SMW Autoblok	AL-D 315	315	V = 1/16“ x 90°	N = 21	**WTS031-WV62**	**751159**	GF261
	AL-M 315		V = 1,5mm x 60°	N = 21	**WTS031-WV17**	**751156**	GF261
	AN-D 315		V = 1/16“ x 90°	N = 21	**WTS031-WV62**	**751159**	GF261
	AN-M 315		V = 1,5mm x 60°	N = 21	**WTS031-WV17**	**751156**	GF261
	BB-D 315		V = 1/16“ x 90°	N = 21	**WTS031-WV62**	**751159**	GF261
	BB-M 315		V = 1,5mm x 60°	N = 21	**WTS031-WV17**	**751156**	GF261
	BH-D 315		V = 1/16“ x 90°	N = 21	**WTS031-WV62**	**751159**	GF261
	BHD-FC 315		V = 1/16“ x 90°	N = 21	**WTS031-WV62**	**751159**	GF261
	BH-M 315		V = 1,5mm x 60°	N = 21	**WTS031-WV17**	**751156**	GF261
	BHM-FC 315		V = 1,5mm x 60°	N = 21	**WTS031-WV17**	**751156**	GF261
	HFK / HFKS 315		V = 1/16“ x 90°	N = 21	**WTS031-WV62**	**751159**	GN25
	HFKN-D 315		V = 1/16“ x 90°	N = 21	**WTS031-WV62**	**751159**	GF261
	HFKN-M 315		V = 1,5mm x 60°	N = 21	**WTS031-WV17**	**751156**	GF261
	HG-F 315		S = 12	N = 26	**WTS031-21-WK15**	**751091**	
	HG-N 315		S = 12	N = 20	**WTS031-WK10**	**751054**	
	KNCS-N 315		S = 12	N = 20	**WTS031-WK10**	**751054**	
	KNCS-N 325	325	S = 12	N = 20	**WTS031-WK10**	**751054**	
	KNCS-N 340	340	S = 12	N = 20	**WTS031-WK10**	**751054**	
	AN-D 400	400	V = 3/32“ x 90°	N = 25,5	**WTS040-WV77**	**751161**	GE40
	AN-M 400		V = 1,5mm x 60°	N = 22	**WTS038-WV21**	**751157**	X7960
	BH-D 400		V = 3/32“ x 90°	N = 25,5	**WTS040-WV77**	**751161**	GE40
	BHD-FC 400		V = 3/32“ x 90°	N = 25,5	**WTS040-WV77**	**751161**	GE40
	BH-M 400		V = 1,5mm x 60°	N = 22	**WTS038-WV21**	**751157**	X7960
	HFK / HFKS 400		V = 3/32“ x 90°	N = 25,5	**WTS040-WV77**	**751161**	GN40
	HFKN-D 400		V = 3/32“ x 90°	N = 25,5	**WTS040-WV77**	**751161**	GN40
	HG-F 400		S = 18	N = 30	**WTS040-20-WK25**	**751138**	
	HG-N 400		S = 12	N = 26	**WTS040-WK20**	**751137**	
	KNCS-N 400		S = 12	N = 26	**WTS040-WK20**	**751137**	
	BH-D 450	450	V = 3/32“ x 90°	N = 25,5	**WTS045-WV80**	**751144**	GE40
	BH-M 450		V = 1,5mm x 60°	N = 22	**WTS045-WV32**	**751158**	X7960
	BH-D 500	500	V = 3/32“ x 90°	N = 25,5	**WTS050-WV85**	**751056**	GE40
	BHD-FC 500		V = 3/32“ x 90°	N = 25,5	**WTS050-WV85**	**751056**	GE40
	HFKN-D 500		V = 3/32“ x 90°	N = 25,5	**WTS050-WV85**	**751056**	GN40
	HFKN-M 500		V = 3mm x 60°	N = 25,5	**WTS050-WV39**	**751127**	**
	HG-N 500		S = 18	N = 30	**WTS050-WK30**	**751070**	
	IL-C 500 Langschieberbacke		S = 19,03	N = 12,7	**WTS050-WK32**	**751071**	
	IL-D 500		V = 3/32“ x 90°	N = 25,5	**WTS050-WV85**	**751056**	X6836

INOZet®

Futterspezifische Daten
Chuck specific data

Technische Daten siehe Seite 107-109
Technical data see pages 107-109

INOZet® Aufsatzbacken siehe Seite 110-113
INOZet® *top-jaws see pages 110-113*

Futterhersteller *chuck manufacturer*	**Futtertyp** *chuck type*	**Futtergröße** *chuck size* ø mm	**Backenanschluss des Futters** *jaw-connection of the chuck* S mm / V	N mm	**INOZet® Bezeichnung** **INOZet®** *description*	**Ident-Nr.** *ident-no.*	** Nutenstein *** Grundbacke ** *t-Nut* *** *base-jaw*
SMW Autoblok	IN-C 500 Langschieberbacke	500	S = 19,03	N = 12,7	**WTS050-WK32**	**751071**	
	IN-D 500		V = 3/32" x 90°	N = 25,5	**WTS050-WV85**	**751056**	X6836
	KNCS-N 500		S = 18	N = 30	**WTS050-WK30**	**751070**	
	BH-D 630	630	V = 3/32" x 90°	N = 25,5	**WTS063-WV90**	**751051**	GE40
	BHD-FC 630		V = 3/32" x 90°	N = 25,5	**WTS063-WV90**	**751051**	GE40
	HG-N 630		S = 18	N = 30	**WTS063-WK35**	**751075**	
	IL-C 630 Langschieberbacke		S = 19,03	N = 12,7	**WTS063-WK37**	**751076**	
	IL-D 630		V = 3/32" x 90°	N = 25,5	**WTS063-WV90**	**751051**	X6836
	IN-C 630 Langschieberbacke		S = 19,03	N = 12,7	**WTS063-WK37**	**751076**	
	IN-D 630		V = 3/32" x 90°	N = 25,5	**WTS063-WV90**	**751051**	X6836
	KNCS-N 630		S = 18	N = 30	**WTS063-WK35**	**751075**	
	BH-D 800	800	V = 3/32" x 90°	N = 25,5	**WTS080-WV95**	**751078**	GE40
	IL-D 800		V = 3/32" x 90°	N = 25,5	**WTS080-WV95**	**751078**	X6836
	IN-D 800		V = 3/32" x 90°	N = 25,5	**WTS080-WV95**	**751078**	X6836
	IN-D 1000	1000	V = Modul 2	N = 30	**WTS100-WV96**	**751052**	
	IR-C 1000 Langschieberbacke		S = 19,03	N = 30	**WTS100-WK67**	**751145**	
	IN-D 1250	1250	V = Modul 2	N = 30	**WTS125-WV96**	**751088**	
	IR-C 1250 Langschieberbacke		S = 19,03	N = 30	**WTS125-WK67**	**751146**	

MEHR GIBT ES IM HWR DOWNLOAD-BEREICH

FOR MORE, VISIT OUR HWR DOWNLOAD AREA

Auf unserer Website stellen wir Ihnen im Download-bereich viele technische Daten unserer Produkte, wie 3D-Modelle, Bedienungsanleitungen, Einstellblätter und Zeichnungen zur Verfügung.

On our website you will find many technical data of our products, such as 3D models, operating manuals, adjustment sheets and drawings in the download area.

hwr.de

*siehe Aufbauanleitung
*see Installation Instructions

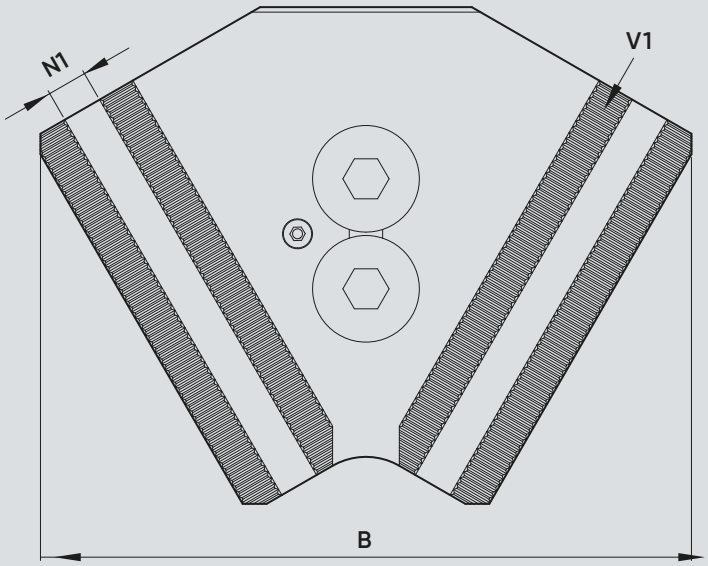
ufbau, tatsächlicher Schwingkreis kann abweichen
h ideal set-up, actual resonant circuit may deviate

Länge *length*	Gewicht / Satz *weight / set*	Aufsatzbacken-anschluss *top-jaw connection*	
		Spitz-verzah-nung *serration*	Nutbreite *slot width*
L mm	kg	V1 mm	N1 mm
95	6,3	2 x 60°	10
95	6,3	2 x 60°	10
105	6,3	2 x 60°	10
128	9,9	2 x 60°	12
128	9,9	2 x 60°	12
128	9,9	2 x 60°	12
128	9,9	2 x 60°	12
128	9,9	2 x 60°	12
95	8	2 x 60°	10
149	15,6	2 x 60°	12
162	17,7	2 x 60°	12
149	15,6	2 x 60°	12
149	15,6	2 x 60°	12
149	15,6	2 x 60°	12
149	15,6	2 x 60°	12
123	14,8	2 x 60°	12
182	28,2	3,5 x 60°	16
182	28,2	3,5 x 60°	16
182	28,2	3,5 x 60°	16
204	29,4	3,5 x 60°	16
202	33,9	3,5 x 60°	16
194	29,4	3,5 x 60°	16
194	29,4	3,5 x 60°	16
194	29,4	3,5 x 60°	16
194	29,4	3,5 x 60°	16
194	30,9	3,5 x 60°	16

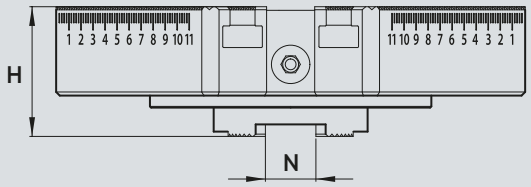
INOZet®

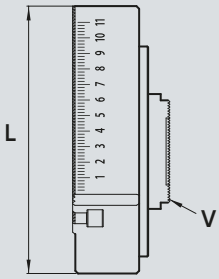
Futterspezifische Date
Chuck specific data

INOZet®

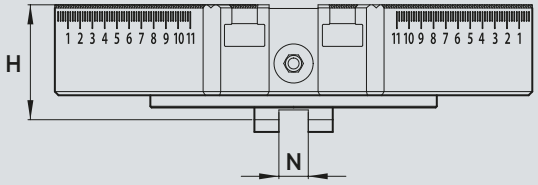


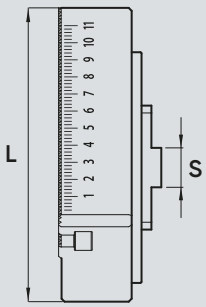
Spitzverzahnung
Serration





Kreuzversatz
Tongue and groove





Futterhersteller *chuck manufacturer*	**Futtertyp** *chuck type*
SMW Autoblok	IN-C 500 Langschieberbacke
	IN-D 500
	KNCS-N 500
	BH-D 630
	BHD-FC 630
	HG-N 630
	IL-C 630 Langschieberbacke
	IL-D 630
	IN-C 630 Langschieberbacke
	IN-D 630
	KNCS-N 630
	BH-D 800
	IL-D 800
	IN-D 800
	IN-D 1000
	IR-C 1000 Langschieberbacke
	IN-D 1250
	IR-C 1250 Langschieberbacke

INOZet®

Allgemeine technische Daten
General technical data

*siehe Aufbauanleitung
*see Installation Instructions

**bei idealem Aufbau, tatsächlicher Schwingkreis kann abweichen
**with ideal set-up, actual resonant circuit may deviate

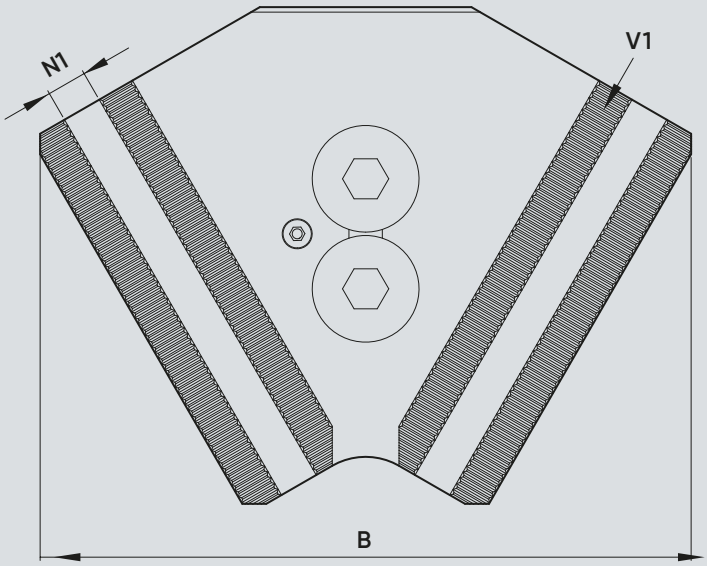
INOZet®	Ident-Nr. *ident-no.*	max. Drehzahl *max. r.p.m.*	Spannbereich *grip range*		Schwing-kreis ohne Backen** *swing without jaws***	Breite *width*	Höhe ohne Backen *height without jaws*	Länge *length*	Gewicht / Satz *weight / set*	Aufsatzbacken-anschluss *top-jaw connection*	
			Außenspannung *external clamping*	Innenspannung *internal clamping*						Spitz-verzah-nung *serration*	Nutbreite *slot width*
		1/min	min. – max./mm	min. – max./mm	Ø mm	B mm	H mm	L mm	kg	V1 mm	N1 mm
WTS021-WV03	**751114**	2200	50 – 210	110 – 210	228	123	37,5	95	6,3	2 x 60°	10
WTS021-WV04	**751098**	2500	50 – 210	110 – 210	228	123	37,5	95	6,3	2 x 60°	10
WTS022-WK02	**751045**	2200	50 – 225	110 – 225	270	140	37,5	105	6,3	2 x 60°	10
WTS025-WK05	**751057**	2000	60 – 250	134 – 250	320	170	40	128	9,9	2 x 60°	12
WTS025-WV05	**751058**	2000	60 – 250	134 – 250	320	170	40	128	9,9	2 x 60°	12
WTS025-WV50	**751059**	2000	60 – 250	134 – 250	320	170	40	128	9,9	2 x 60°	12
WTS025-WV52	**751101**	2000	60 – 250	134 – 250	320	170	40	128	9,9	2 x 60°	12
WTS025-WV57	**751162**	2000	60 – 250	134 – 250	320	170	45	128	9,9	2 x 60°	12
WTS025-4-WV02	**751163**	*	63 – 260	123 – 260	262	120	44	95	8	2 x 60°	10
WTS031-WK10	**751054**	1300	65 – 315	139 – 315	380	195	47	149	15,6	2 x 60°	12
WTS031-21-WK15	**751091**	1300	65 – 315	139 – 315	390	200	47	162	17,7	2 x 60°	12
WTS031-WV10	**751060**	1300	65 – 315	139 – 315	380	195	49	149	15,6	2 x 60°	12
WTS031-WV17	**751156**	1300	65 – 315	139 – 315	380	195	54	149	15,6	2 x 60°	12
WTS031-WV62	**751159**	1300	65 – 315	139 – 315	380	195	54	149	15,6	2 x 60°	12
WTS031-WV67	**751160**	1300	65 – 315	139 – 315	380	195	56	149	15,6	2 x 60°	12
WTS031-4-WV05	**751164**	*	82 – 315	156 – 315	336	154	51	123	14,8	2 x 60°	12
WTS038-WV21	**751157**	1100	70 – 380	158 – 380	455	239	61	182	28,2	3,5 x 60°	16
WTS038-WV22	**751131**	1100	70 – 380	158 – 380	455	239	56	182	28,2	3,5 x 60°	16
WTS038-WV77	**751130**	1100	70 – 380	158 – 380	455	239	61	182	28,2	3,5 x 60°	16
WTS040-WK20	**751137**	1100	70 – 400	158 – 400	490	249	55	204	29,4	3,5 x 60°	16
WTS040-20-WK25	**751138**	1100	80 – 400	168 – 400	510	270	55	202	33,9	3,5 x 60°	16
WTS040-WV27	**751139**	1100	70 – 400	158 – 400	490	249	64	194	29,4	3,5 x 60°	16
WTS040-WV71	**751140**	1100	70 – 400	158 – 400	490	249	64	194	29,4	3,5 x 60°	16
WTS040-WV72	**751132**	1100	70 – 400	158 – 400	490	249	66	194	29,4	3,5 x 60°	16
WTS040-WV74	**751133**	1100	70 – 400	158 – 400	490	249	59	194	29,4	3,5 x 60°	16
WTS040-WV77	**751161**	1100	70 – 400	158 – 400	490	249	64	194	30,9	3,5 x 60°	16

INOZet®

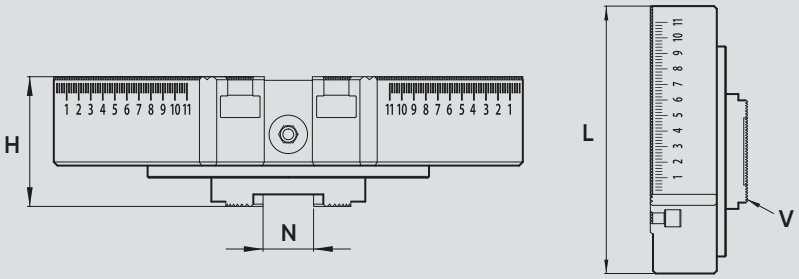
Allgemeine technische Daten
General technical data

INOZet®	Ident-Nr. *ident-no.*	Spannbereich *grip range*		Schwing-kreis ohne Backen** *swing with-out jaws***	Breite *width*	Höhe ohne Backen *height without jaws*	Länge *length*	Gewicht / Satz *weight / set*	Aufsatzbacken anschluss *top-jaw connection*	
		Außenspannung *external clamping*	Innenspannung *internal clamping*						Spitzver-zahnung *serration*	Nutbreite *slot width*
		min. – max./mm	min. – max./mm	Ø mm	B mm	H mm	L mm	kg	V1 mm	N1 mm
WTS040-4-WV07	**751177**	90 – 400	178 – 400	440	196	56	161	23,6	3,5 x 60°	16
WTS040-4-WV17	**751169**	90 – 400	178 – 400	440	196	50	161	22,8	3,5 x 60°	16
WTS040-4-WV88	**751176**	90 – 400	178 – 400	440	196	56	161	23,6	3,5 x 60°	16
WTS045-WV32	**751158**	80 – 450	168 – 450	510	270	64	202	32,7	3,5 x 60°	16
WTS045-WV35	**751143**	80 – 450	168 – 450	510	270	64	202	32,7	3,5 x 60°	16
WTS045-WV80	**751144**	80 – 450	168 – 450	510	270	64	202	32,7	3,5 x 60°	16
WTS050-WK30	**751070**	85 – 500	179 – 500	580	302	89	223	52,8	3,5 x 60°	21
WTS050-WK32	**751071**	85 – 500	179 – 500	580	302	89	223	52,8	3,5 x 60°	21
WTS050-WK34	**751106**	85 – 500	179 – 500	580	302	89	223	52,8	3,5 x 60°	21
WTS050-4-WV19	**751170**	115 – 500	203 – 500	540	230	56	178	31,2	3,5 x 60°	16
WTS050-WV39	**751127**	85 – 500	179 – 500	580	302	89	223	52,8	3,5 x 60°	21
WTS050-WV85	**751056**	85 – 500	179 – 500	580	302	68	223	52,8	3,5 x 60°	21
WTS050-WV86	**751150**	85 – 500	179 – 500	580	302	68	223	52,8	3,5 x 60°	21
WTS053-WV40	**751072**	100 – 530	194 – 530	595	318	71	225	57,9	3,5 x 60°	21
WTS053-WV41	**751125**	100 – 530	194 – 530	595	318	71	225	57,9	3,5 x 60°	21
WTS063-WK35	**751075**	170 – 630	264 – 630	700	373	70	249	72	3,5 x 60°	21
WTS063-WK37	**751076**	170 – 630	264 – 630	700	373	70	249	72	3,5 x 60°	21
WTS063-WK38	**751116**	170 – 630	264 – 630	700	373	70	249	72	3,5 x 60°	21
WTS063-WK40	**751077**	170 – 630	264 – 630	700	373	70	249	72	3,5 x 60°	21
WTS063-WV42	**751094**	170 – 630	264 – 630	700	373	74	249	72	3,5 x 60°	21
WTS063-WV90	**751051**	170 – 630	264 – 630	700	373	74	249	72	3,5 x 60°	21
WTS063-WV92	**751074**	170 – 630	264 – 630	700	373	74	249	72	3,5 x 60°	21
WTS063-4-WV23	**751152**	182 – 630	270 – 630	670	280	61	205	54,8	3,5 x 60°	16

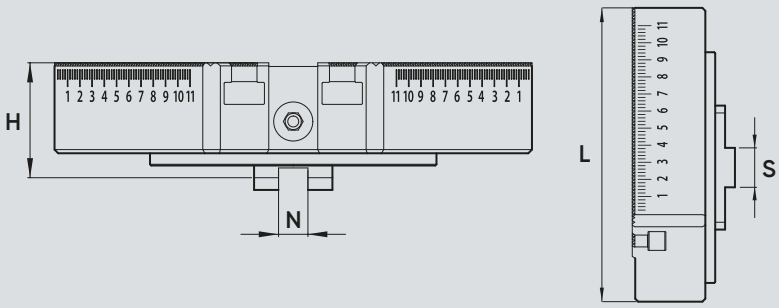
INOZet®



Spitzverzahnung
Serration



Kreuzversatz
Tongue and groove



*siehe Aufbauanleitung
*see Installation Instructions

ufbau, tatsächlicher Schwingkreis kann abweichen
h ideal set-up, actual resonant circuit may deviate

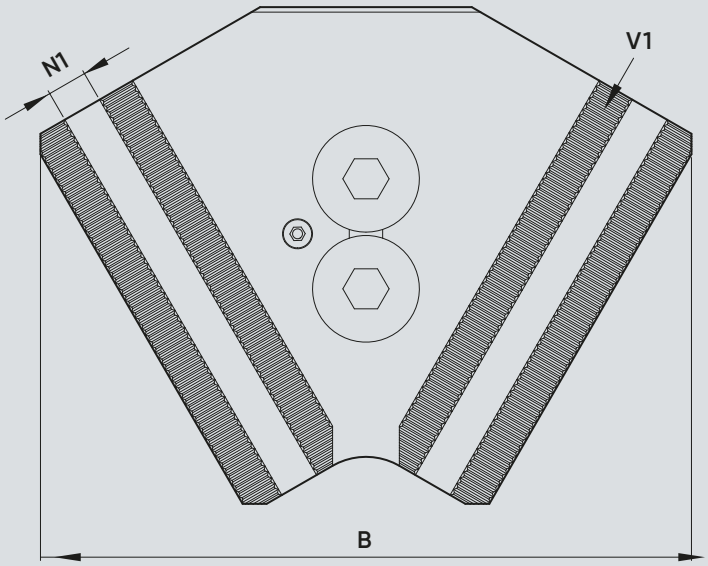
	Gewicht / Satz *weight / set*	Aufsatzbacken anschluss *top-jaw connection*	
		Spitzverzahnung *serration*	Nutbreite *slot width*
	kg	V1 mm	N1 mm
	54,8	3,5 x 60°	16
	54	3,5 x 60°	16
	86	3,5 x 60°	16
	108,6	3,5 x 60°	25
	108,6	3,5 x 60°	25
	108,6	3,5 x 60°	25
	108,6	3,5 x 60°	25
	108,6	3,5 x 60°	25
	108,6	3,5 x 60°	25
	108,6	3,5 x 60°	25
	108,6	3,5 x 60°	25
	108,6	3,5 x 60°	25
	108,6	3,5 x 60°	25
	103,6	3,5 x 60°	21
	105,6	3,5 x 60°	16
	138	3,5 x 60°	25
	138	3,5 x 60°	25
	138	3,5 x 60°	25
	138	3,5 x 60°	25
	138	3,5 x 60°	25
	146,4	3,5 x 60°	25
	146,4	3,5 x 60°	25
	172	3,5 x 60°	25
	172	3,5 x 60°	25
	177	3,5 x 60°	25
	177	3,5 x 60°	25
	177	3,5 x 60°	25
	177	3,5 x 60°	25
	177	3,5 x 60°	25

INOZet®

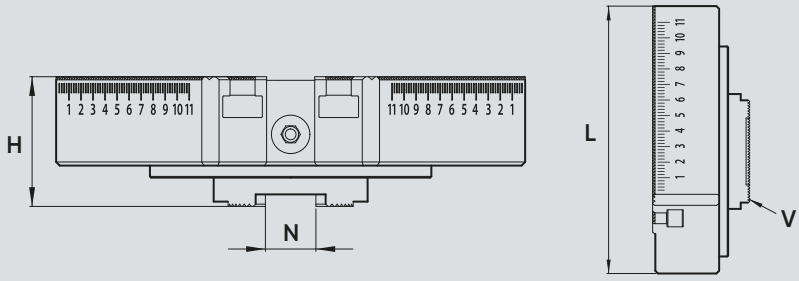
Allgemeine technische
General technical dat

INOZet®	Ident-Nr. *ident-no.*	S Außenspan *external clamping* min. – max
WTS040-4-WV07	751177	90 – 4
WTS040-4-WV17	751169	90 – 4
WTS040-4-WV88	751176	90 – 4
WTS045-WV32	751158	80 – 4
WTS045-WV35	751143	80 – 4
WTS045-WV80	751144	80 – 4
WTS050-WK30	751070	85 – 5
WTS050-WK32	751071	85 – 5
WTS050-WK34	751106	85 – 5
WTS050-4-WV19	751170	115 – 5
WTS050-WV39	751127	85 – 5
WTS050-WV85	751056	85 – 5
WTS050-WV86	751150	85 – 5
WTS053-WV40	751072	100 – 5
WTS053-WV41	751125	100 – 5
WTS063-WK35	751075	170 – 6
WTS063-WK37	751076	170 – 6
WTS063-WK38	751116	170 – 6
WTS063-WK40	751077	170 – 6
WTS063-WV42	751094	170 – 6
WTS063-WV90	751051	170 – 6
WTS063-WV92	751074	170 – 6
WTS063-4-WV23	751152	182 – 6

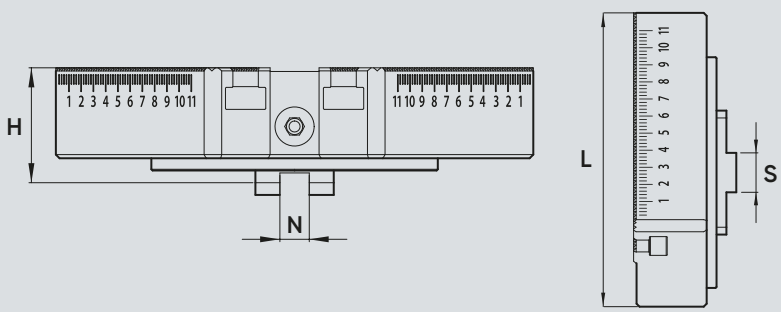
INOZet®



Spitzverzahnung
Serration



Kreuzversatz
Tongue and groove



*siehe Aufbauanleitung
*see Installation Instructions

**bei idealem Aufbau, tatsächlicher Schwingkreis kann abweichen
**with ideal set-up, actual resonant circuit may deviate

INOZet®	Ident-Nr. ident-no.	Spannbereich grip range		Schwing-kreis ohne Backen** swing with-out jaws**	Breite width	Höhe ohne Backen height without jaws	Länge length	Gewicht / Satz weight / set	Aufsatzbacken anschluss top-jaw connection	
		Außenspannung external clamping	Innenspannung internal clamping						Spitzver-zahnung serration	Nutbreite slot width
		min. – max./mm	min. – max./mm	Ø mm	B mm	H mm	L mm	kg	V1 mm	N1 mm
WTS063-4-WV24	751179	182 – 630	270 – 630	670	280	61	205	54,8	3,5 x 60°	16
WTS063-4-WV25	751180	182 – 630	270 – 630	670	280	61	280	54	3,5 x 60°	16
WTS070-4-WV89	751173	250 – 700	294 – 700	745	314	68	234	86	3,5 x 60°	16
WTS080-WK45	751082	250 – 800	362 – 800	880	458	74	288	108,6	3,5 x 60°	25
WTS080-WK47	751102	250 – 800	362 – 800	880	458	74	288	108,6	3,5 x 60°	25
WTS080-WK50	751050	250 – 800	362 – 800	880	458	74	288	108,6	3,5 x 60°	25
WTS080-WK55	751083	250 – 800	362 – 800	880	458	74	288	108,6	3,5 x 60°	25
WTS080-WV45	751081	250 – 800	362 – 800	880	458	77	288	108,6	3,5 x 60°	25
WTS080-WV46	751080	250 – 800	362 – 800	880	458	77	288	108,6	3,5 x 60°	25
WTS080-WV91	751135	250 – 800	362 – 800	880	458	77	288	108,6	3,5 x 60°	25
WTS080-WV94	751079	250 – 800	362 – 800	880	458	77	288	108,6	3,5 x 60°	25
WTS080-WV95	751078	250 – 800	362 – 800	880	458	77	288	108,6	3,5 x 60°	25
WTS080-4-WV42	751165	250 – 800	305 – 800	830	345	74	268	103,6	3,5 x 60°	21
WTS081-4-WV49	751198	260 – 800	344 – 800	830	338	71,5	268	105,6	3,5 x 60°	16
WTS100-WK59	751126	470 – 1000	582 – 1000	1055	558	74	286	138	3,5 x 60°	25
WTS100-WK65	751087	470 – 1000	582 – 1000	1055	558	74	286	138	3,5 x 60°	25
WTS100-WK67	751145	470 – 1000	582 – 1000	1055	558	78	286	138	3,5 x 60°	25
WTS100-WV96	751052	470 – 1000	582 – 1000	1055	558	82	286	138	3,5 x 60°	25
WTS100-WV97	751084	470 – 1000	582 – 1000	1055	558	82	286	138	3,5 x 60°	25
WTS100-4-WV48	751182	470 – 1000	582 – 1000	1055	442	77	270	146,4	3,5 x 60°	25
WTS100-4-WV83	751178	470 – 1000	582 – 1000	1155	442	80	270	146,4	3,5 x 60°	25
WTS120-4-WV48	751183	500 – 1150	612 – 1150	1200	500	80	281	172	3,5 x 60°	25
WTS120-4-WV83	751181	500 – 1200	612 – 1200	1200	500	80	281	172	3,5 x 60°	25
WTS125-WK64	751128	700 – 1250	812 – 1250	1300	695	74	287	177	3,5 x 60°	25
WTS125-WK65	751030	700 – 1250	812 – 1250	1300	695	74	287	177	3,5 x 60°	25
WTS125-WK67	751146	700 – 1250	812 – 1250	1300	695	74	287	177	3,5 x 60°	25
WTS125-WV96	751088	700 – 1250	812 – 1250	1300	695	82	287	177	3,5 x 60°	25
WTS125-WV97	751089	700 – 1250	812 – 1250	1300	695	82	287	177	3,5 x 60°	25

INOZet®

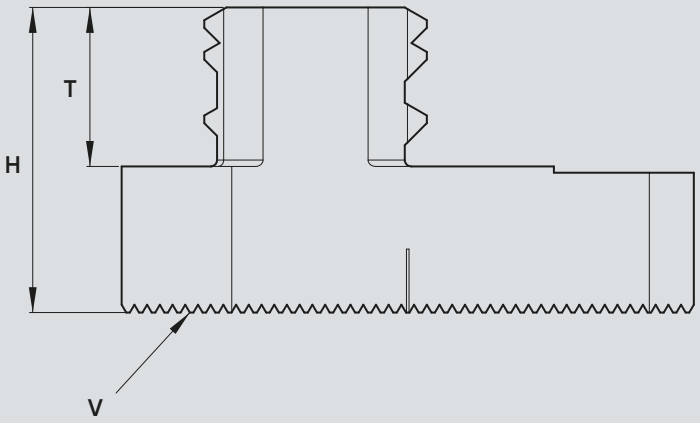
Greiferbacken, hart
Hard adjustagrip-jaws

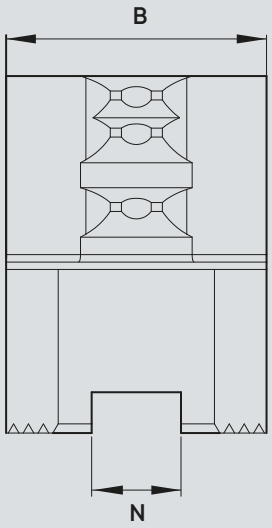
UNIJaws® Nutensteine siehe Seite 81 und Auflagebolzen siehe Seite 82
UNIJaws® *t-Nuts see page 81 and height pins see page 82*

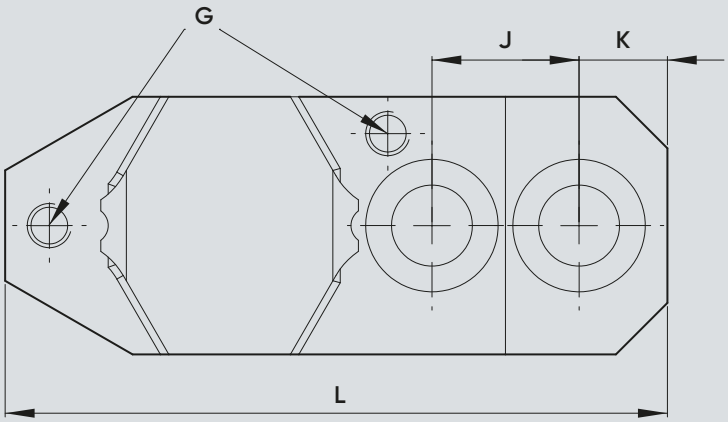
Passend für *compatible to*	**Backentyp** *jaw type*	**Ident-Nr.** *ident-no.*	**Abmaße** *dimensions*			**Bohrungsabstände** *hole spacing*		**Spannbereich** *grip range*	
			Breite *width* B mm	**Höhe** *height* H mm	**Länge** *length* L mm	K mm	J mm	**Außenspannung** *external clamping* min. – max./mm	**Innenspannung** *internal clamping* min. – max./mm
WT(S)021	**WU10**	**760010**	27	35	73,5	10	18	50 – 210	110 – 210
WT(S)022								50 – 225	110 – 225
WT(S)025-4	**WU10-8**	**760011**	27	35	73,5	10	18	63 – 260	123 – 260
WT(S)025	**WU12**	**760012**	35	48	90	12	20	60 – 250	134 – 250
WT(S)031								65 – 315	139 – 315
WT(S)031-21								65 – 315	139 – 315
WT(S)031-4	**WU12-8**	**760013**	35	48	90	12	20	82 – 315	156 – 315
WT(S)038	**WU16***	**760016**	38	50	106	13	30	70 – 380	158 – 380
WT(S)040								70 – 400	158 – 400
WT(S)040-20								80 – 400	168 – 400
WT(S)045								80 – 450	168 – 450
WT(S)038	**WR16**	**760161**	38	50	105	13	30	70 – 380	158 – 380
WT(S)040								70 – 400	158 – 400
WT(S)040-20								80 – 400	168 – 400
WT(S)045								80 – 450	168 – 450
WT(S)040-4	**WR16-8**	**760162**	38	50	105	13	30	90 – 400	178 – 400
WT(S)050-4								115 – 500	203 – 500
WT(S)063-4								182 – 630	270 – 630
WT(S)070-4								250 – 700	294 – 700
WT(S)081-4								260 – 800	344 – 800
WT(S)050	**WR21**	**760121**	48	60	126	18	30	85 – 500	179 – 500
WT(S)053								100 – 530	194 – 530
WT(S)063								170 – 630	264 – 630
WT(S)080-4	**WR21-8**	**760122**	48	60	126	18	30	250 – 800	344 – 800
WT(S)080	**WR25**	**760125**	58	90	175	21	60	250 – 800	362 – 800
WT(S)100								470 – 1000	582 – 1000
WT(S)125								700 – 1250	812 – 1250
WT(S)100-4	**WR25-8**	**760126**	58	90	175	21	60	470 – 1000	582 – 1000
WT(S)120-4								500 – 1150/1200	612 – 1150/1200

INOZet®

Greiferbacken
Adjustagrip-jaws







* bis 2012
** until 2012*

	Werkstoff *material*	**Gewicht pro Satz** *weight per set* kg
	16MnCr5	1,8
	16MnCr5	2,4
	16MnCr5	5,3
	16MnCr5	7,0
	16MnCr5	7,7
	16MnCr5	7,7
	16MnCr5	10,3
	16MnCr5	12,6
	16MnCr5	16,9
	16MnCr5	19,6
	16MnCr5	26,1

INOZet®

Greiferbacken, hart

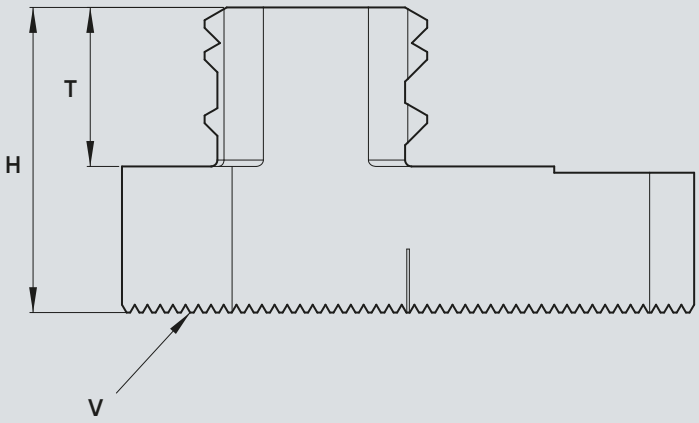
Hard adjustagrip-jaws

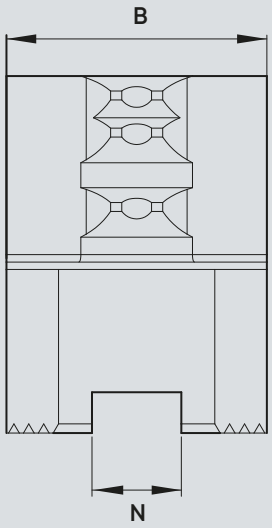
Passend für *compatible to*	Backentyp *jaw type*	Ident-Nr. *ident-no.*
WT(S)021	**WU10**	**760010**
WT(S)022		
WT(S)025-4	**WU10-8**	**760011**
WT(S)025	**WU12**	**760012**
WT(S)031		
WT(S)031-21		
WT(S)031-4	**WU12-8**	**760013**
WT(S)038	**WU16***	**760016**
WT(S)040		
WT(S)040-20		
WT(S)045		
WT(S)038	**WR16**	**760161**
WT(S)040		
WT(S)040-20		
WT(S)045		
WT(S)040-4	**WR16-8**	**760162**
WT(S)050-4		
WT(S)063-4		
WT(S)070-4		
WT(S)081-4		
WT(S)050	**WR21**	**760121**
WT(S)053		
WT(S)063		
WT(S)080-4	**WR21-8**	**760122**
WT(S)080	**WR25**	**760125**
WT(S)100		
WT(S)125		
WT(S)100-4	**WR25-8**	**760126**
WT(S)120-4		

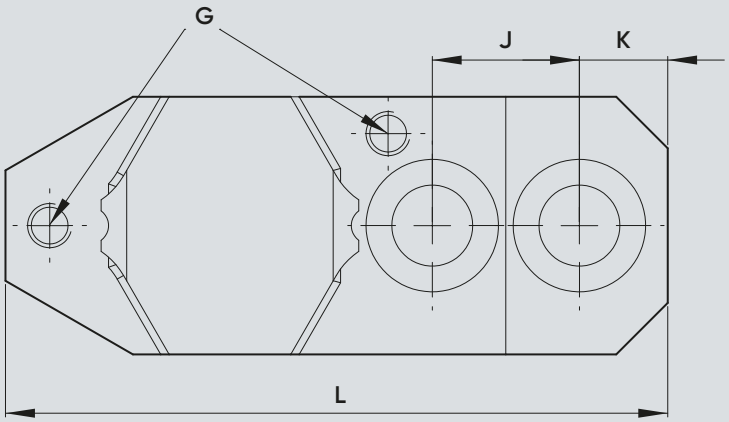
INOZet®

Greiferbacken

Adjustagrip-jaws







* bis 2012
** until 2012*

Spitzverzahnung *serration* V mm	**Nutbreite** *slot width* N mm	**Einspanntiefe** *clamping depth* T mm	**Schwingkreis** *swing diameter* SK Ø mm	**Gewindegröße** *thread size* G mm	**Nutenstein** *t-nut*	**Werkstoff** *material*	**Gewicht pro Satz** *weight per set* kg
2.0mm x 60°	10	15	295	M5	GP05	16MnCr5	1,8
			310				
2.0mm x 60°	10	15	355	M5	GP05	16MnCr5	2,4
2.0mm x 60°	12	25	355	M6	GP07	16MnCr5	5,3
			420				
			420				
2.0mm x 60°	12	25	420	M6	GP07	16MnCr5	7,0
2.0mm x 60°	16	25	490	M6	GP11	16MnCr5	7,7
			510				
			560				
			560				
3.5mm x 60°	16	25	490	M6	GP11	16MnCr5	7,7
			510				
			560				
			560				
3.5mm x 60°	16	25	510	M6	GP11	16MnCr5	10,3
			610				
			740				
			810				
			830				
3.5mm x 60°	21	30	635	M8	GP13	16MnCr5	12,6
			665				
			765				
3.5mm x 60°	21	30	935	M8	GP13	16MnCr5	16,9
3.5mm x 60°	25	30	955	M8	GP21	16MnCr5	19,6
			1155				
			1405				
3.5mm x 60°	25	30	1155	M8	GP21	16MnCr5	26,1
			1355				

INOZet®

Weiche Aufsatzbacken
Soft top-jaws

alle Aufsatzbacken auch als 8er Satz erhältlich
all top jaws also available as set of 8

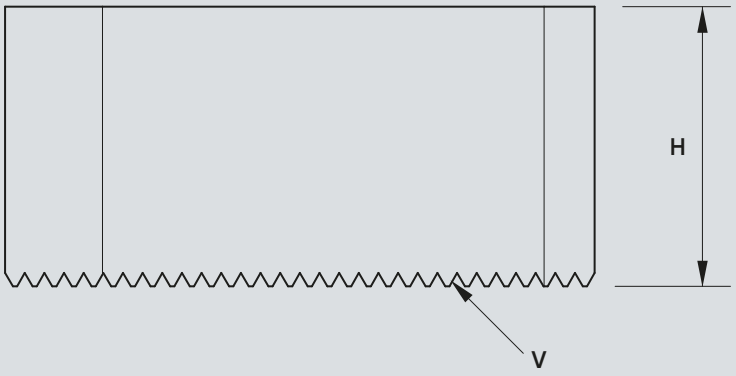
* bis 2012
** until 2012*

Passend für *compatible to*	**Backen-typ** *jaw type*	**Ident-Nr.** *ident-no.*	**Abmaße** *dimensions*			**Bohrungsabstände** *hole spacing*		**Spitzverzahnung** *serration*	**Nut-breite** *slot width*	**Nuten-stein** *t-nut*	**Werkstoff** *material*	**Typ** *type*	**Gewicht pro Satz** *weight per set*
			Breite *width* B mm	**Höhe** *height* H mm	**Länge** *lenght* L mm	K mm	J mm	V mm	N mm				kg
WT(S)021 WT(S)022	**WI10**	**770010**	27	35	80	10	18	2,0mm x 60°	10	GP05	16MnCr5	I	2,6
	WI30	**770030**	27	35	80	10	18	2,0mm x 60°	10	GP05	Aluminium	I	0,9
	WI31	**770031**	27	35	80	31	18	2,0mm x 60°	10	GP05	16MnCr5	I	2,5
	WI32	**770032**	40	35	80	10	18	2,0mm x 60°	10	GP05	Aluminium	I	1,5
	WI33	**770033**	27	50	80	10	18	2,0mm x 60°	10	GP05	Aluminium	I	1,4
WT(S)025-4	**WI10-8**	**770011**	27	35	80	10	18	2,0mm x 60°	10	GP05	16MnCr5	I	3,4
WT(S)025 WT(S)031	**WI12**	**770012**	35	48	90	12	20	2,0mm x 60°	12	GP07	16MnCr5	I	5,3
	WI40	**770040**	35	48	90	12	20	2,0mm x 60°	12	GP07	Aluminium	I	1,8
	WI41	**770041**	35	48	90	35	20	2,0mm x 60°	12	GP07	16MnCr5	I	5,1
	WI42	**770042**	50	48	90	12	20	2,0mm x 60°	12	GP07	Aluminium	I	2,9
	WI43	**770043**	35	70	90	12	20	2,0mm x 60°	12	GP07	Aluminium	I	2,8
WT(S)031-4	**WI12-8**	**770013**	35	48	90	12	20	2,0mm x 60°	12	GP07	16MnCr5	I	7,0
WT(S)038 WT(S)040 WT(S)045	**WI16 ***	**770016**	38	50	106	13	30	2,0mm x 60°	16	GP11	16MnCr5	I	7,8
	WI50 *	**770050**	38	50	106	13	30	2,0mm x 60°	16	GP11	Aluminium	I	2,5
	WI51 *	**770051**	38	50	106	38	30	2,0mm x 60°	16	GP11	16MnCr5	I	6,8
	WI52 *	**770052**	60	50	106	13	30	2,0mm x 60°	16	GP11	16MnCr5	I	12,4
	WI53 *	**770053**	38	75	106	13	30	2,0mm x 60°	16	GP11	16MnCr5	I	10,7
WT(S)038 WT(S)040 WT(S)045	**WP16**	**770116**	38	50	105	13	30	3,5mm x 60°	16	GP11	16MnCr5	I	7,7
	WP50	**770150**	38	50	105	13	30	3,5mm x 60°	16	GP11	Aluminium	I	2,5
	WP51	**770151**	38	50	105	38	30	3,5mm x 60°	16	GP11	16MnCr5	I	6,9
	WP52	**770152**	60	50	105	13	30	3,5mm x 60°	16	GP11	16MnCr5	I	12,3
	WP53	**770153**	38	75	105	13	30	3,5mm x 60°	16	GP11	16MnCr5	I	10,6
WT(S)040-4 WT(S)050-4 WT(S)063-4 WT(S)070-4 WT(S)081-4	**WP16-8**	**770117**	38	50	105	13	30	3,5mm x 60°	16	GP11	16MnCr5	I	10,3
WT(S)050 WT(S)053 WT(S)063	**WP21**	**770121**	48	60	126	18	30	3,5mm x 60°	21	GP13	16MnCr5	I	12,6
	WP60	**770160**	48	60	126	18	30	3,5mm x 60°	21	GP13	Aluminium	I	4,4
	WP61	**770161**	48	60	126	48	30	3,5mm x 60°	21	GP13	16MnCr5	I	12,6
	WP62	**770162**	70	60	126	18	30	3,5mm x 60°	21	GP13	16MnCr5	I	19,0
	WP63	**770163**	48	90	126	18	30	3,5mm x 60°	21	GP13	16MnCr5	I	19,2

INOZet®

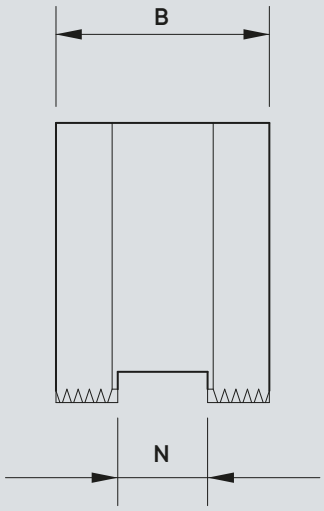
Weiche Aufsatzbacken - Typ I
Soft top-jaws - type I

alle Aufsatzbacken auch als 8er Satz erhältlich
all top jaws also available as set of 8



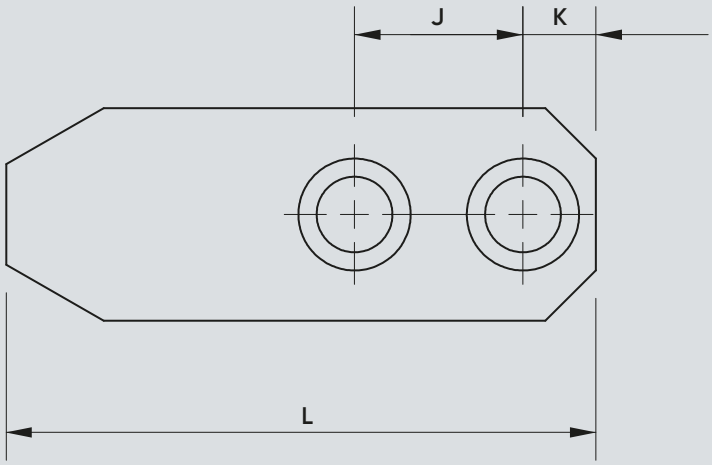
e siehe Seite 81 und Auflagebolzen siehe Seite 82
t-Nuts see pages 81 and height pins see page 82

Nuten-stein *t-nut*	Werkstoff *material*	Typ *type*	Gewicht pro Satz *weight per set* kg
GP13	16MnCr5	II	16,9
GP21	16MnCr5	II	32,5
GP21	Aluminium	II	11,4
GP21	16MnCr5	I	32,3
GP21	16MnCr5	I	51,9
GP21	16MnCr5	II	47,3
GP21	16MnCr5	II	43,3



	Ident-Nr. *ident no.*
	800001
rnippel *ples*	800008

* bis 2012
** until 2012*



Passend für *suitable for*
/G10 | VG12 | VR10 | WU10 | WU10-8
/G16 | VR12 | VR16 | WU12 | WU12-8 /U16* | WR16 | WR16-8
/G21 | VG25 | VR21 | WR21 | WR21-8 /R25 | WR25-8 | LC-Typen | MC-Typen

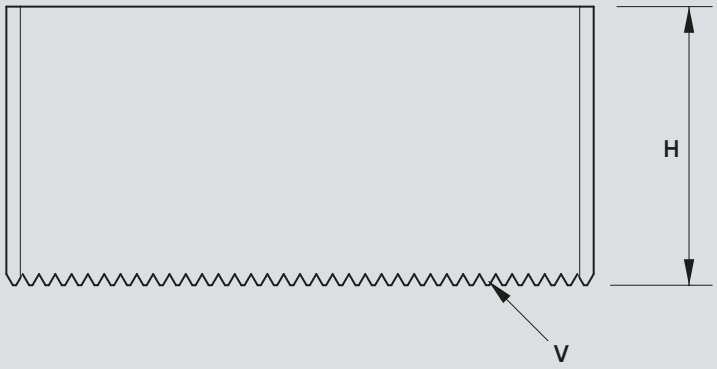
INOZet®

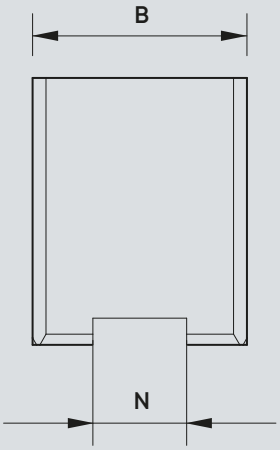
Weiche Aufsatzbacken
Soft top-jaws

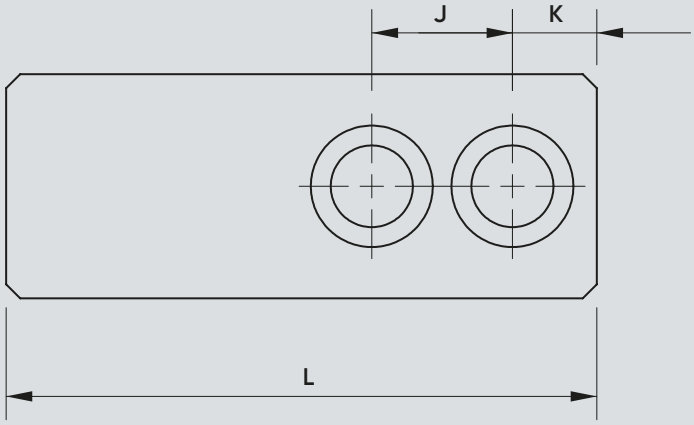
Passend für *compatible to*	Backen-typ *jaw type*	Ident-Nr. *ident-no.*	Abma *dimen* Breite *width* B mm
WT(S)021 WT(S)022	**WI10**	**770010**	27
	WI30	**770030**	27
	WI31	**770031**	27
	WI32	**770032**	40
	WI33	**770033**	27
WT(S)025-4	**WI10-8**	**770011**	27
WT(S)025 WT(S)031	**WI12**	**770012**	35
	WI40	**770040**	35
	WI41	**770041**	35
	WI42	**770042**	50
	WI43	**770043**	35
WT(S)031-4	**WI12-8**	**770013**	35
WT(S)038 WT(S)040 WT(S)045	**WI16 ***	**770016**	38
	WI50 *	**770050**	38
	WI51 *	**770051**	38
	WI52 *	**770052**	60
	WI53 *	**770053**	38
WT(S)038 WT(S)040 WT(S)045	**WP16**	**770116**	38
	WP50	**770150**	38
	WP51	**770151**	38
	WP52	**770152**	60
	WP53	**770153**	38
WT(S)040-4 WT(S)050-4 WT(S)063-4 WT(S)070-4 WT(S)081-4	**WP16-8**	**770117**	38
WT(S)050 WT(S)053 WT(S)063	**WP21**	**770121**	48
	WP60	**770160**	48
	WP61	**770161**	48
	WP62	**770162**	70
	WP63	**770163**	48

INOZet®

Weiche Aufsatzbacken - Typ II
Soft top-jaws - type II







INOZet®

Weiche Aufsatzbacken
Soft top-jaws

alle Aufsatzbacken auch als 8er Satz erhältlich
all top jaws also available as set of 8

UNIJaws® **Nutensteine siehe Seite 81 und Auflagebolzen siehe Seite 82**
UNIJaws® *t-Nuts see pages 81 and height pins see page 82*

Passend für *compatible to*	**Backen-typ** *jaw type*	**Ident-Nr.** *ident-no.*	**Abmaße** *dimensions*			**Bohrungsabstände** *hole spacing*		**Spitzverzah-nung** *serration*	**Nut-breite** *slot width*	**Nuten-stein** *t-nut*	**Werkstoff** *material*	**Typ** *type*	**Gewicht pro Satz** *weight per set*
			Breite *width* B mm	**Höhe** *height* H mm	**Länge** *lenght* L mm	K mm	J mm	V mm	N mm				kg
WT(S)080-4	**WP21-8**	**770122**	48	60	126	18	30	3,5mm x 60°	21	GP13	16MnCr5	II	16,9
WT(S)080 WT(S)100 WT(S)125	**WP25**	**770125**	58	90	175	21	60	3,5mm x 60°	25	GP21	16MnCr5	II	32,5
	WP70	**775025**	58	90	175	21	60	3,5mm x 60°	25	GP21	Aluminium	II	11,4
	WP71	**770128**	58	90	175	57,5	60	3,5mm x 60°	25	GP21	16MnCr5	I	32,3
	WP72	**770172**	85	90	175	21	60	3,5mm x 60°	25	GP21	16MnCr5	I	51,9
	WP73	**770173**	58	130	175	21	60	3,5mm x 60°	25	GP21	16MnCr5	II	47,3
WT(S)100-4 WT(S)120-4	**WP25-8**	**770126**	58	90	175	21	60	3,5mm x 60°	25	GP21	16MnCr5	II	43,3

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*	800001
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

Auflagebolzen *Height pins*

* bis 2012
** until 2012*

Typ *type*	**Identnummer** *ident no.*	**G**	**H**	**SW**	**Passend für** *suitable for*
IR05	**229014**	M5	5	8	VG10 | VG12 | VR10 | WU10 | WU10-8
IR10	**229015**		10		
IR15	**229016**		15		
IR20	**229017**		20		
IT05	**229004**	M6	5	10	VG16 | VR12 | VR16 | WU12 | WU12-8 WU16* | WR16 | WR16-8
IT10	**229005**		10		
IT15	**229006**		15		
IT20	**229007**		20		
IT25	**229003**		25		
IU05	**229008**	M8	5	13	VG21 | VG25 | VR21 | WR21 | WR21-8 WR25 | WR25-8 | LC-Typen | MC-Typen
IU10	**229009**		10		
IU15	**229010**		15		
IU20	**229011**		20		
IU25	**229012**		25		
IU30	**229013**		30		