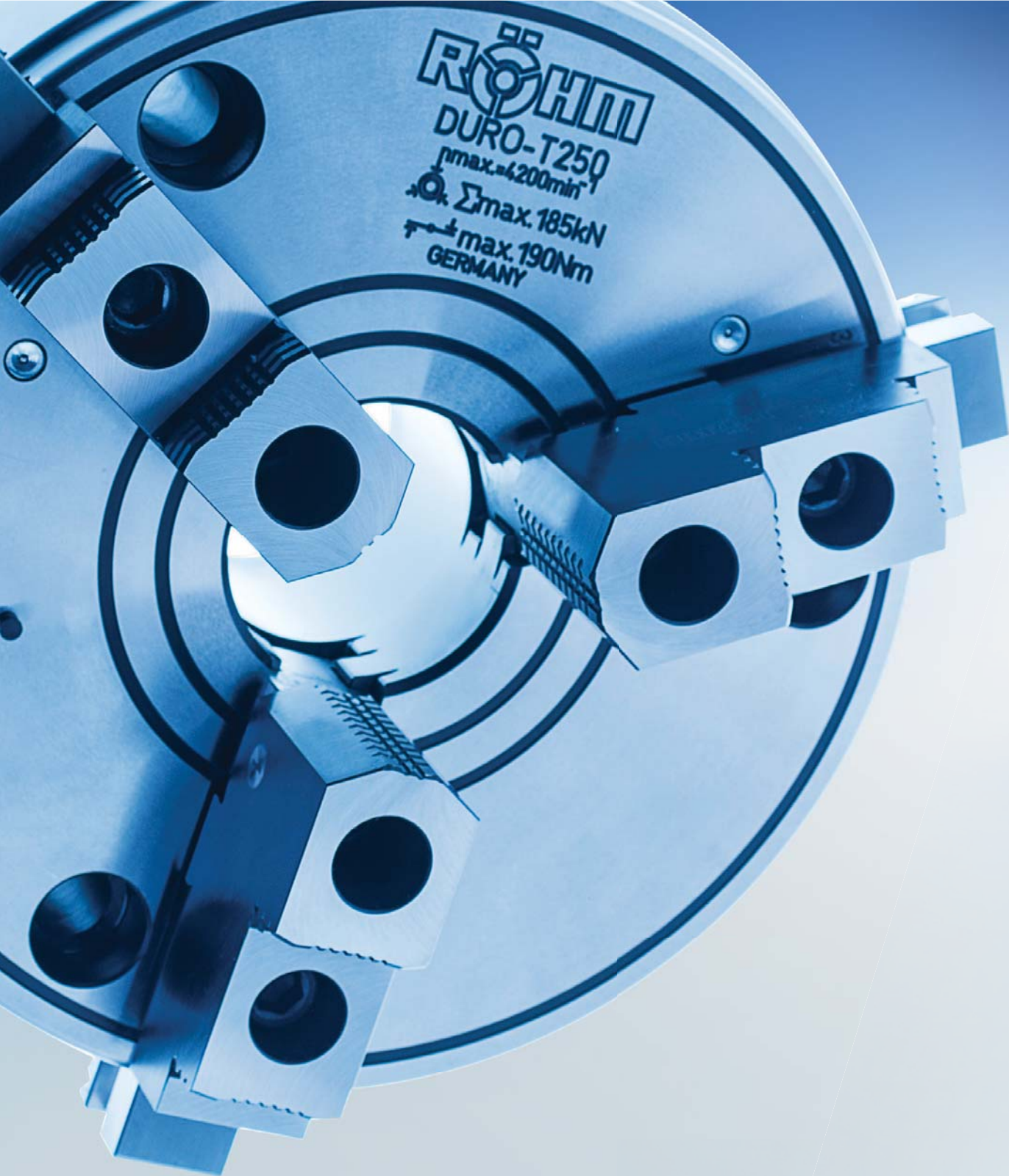




RÖHM
DURO-T250
 $n_{max.} = 4200 \text{ min}^{-1}$
 $\Sigma_{max.} 185 \text{ kN}$
 $T_{max.} 190 \text{ Nm}$
GERMANY

LATHE CHUCKS INDEPENDENT CHUCKS

2017

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NEW

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RÖHM
DURO-T200
n_{max} 6000 min⁻¹
F_{max} 11 kN
M_{max} 155 Nm
GERMANY

Achtung
Bei Buchsenverstellung
Futter und Anschlag
widerstehen
2,3 Druckstrom betätigen



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LATHE CHUCKS | INDEPENDENT CHUCKS

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Independent chucks

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Clamping force measurement device

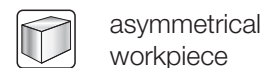
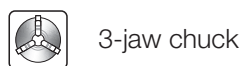
F-senso chuck	3061
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Operation guide



TYPE	DURO-T	DURO-TA	DURO-TA XT	ZS - ZSU	Orange Line
	Key bar chucks with quick jaw change system			Geared scroll chucks	
Chucking capacities	3 - 630 mm	3 - 646 mm	8 - 1190 mm	2 - 1224 mm	3 - 315 mm
Mount	Cylindrical centre mount DIN 6350 ISO 702-3 (DIN 55027)	Cylindrical centre mount DIN 6350	Individual	Cylindrical centre mount DIN 6350 ISO 702-2 (DIN 55029) ISO 702-3 (DIN 55027) DIN 6350 BVV (mounting from front)	Cylindrical centre mount DIN 6350
Through-hole					
Number of jaws					
Types of jaws					
Workpiece					
Machining					
Rotating/ Stationary					
Clamping					
Clamping force					
Speed max.					
Precision					
Feature	quick jaw change system	grinding chuck with quick jaw change system	weight reduced	with splash water groove and control edge	with splash water groove and control edge
Page	3009	3020	3027	3034	3042



Operation guide



TYPE	ZS Hi-Tru	ES	KRF	USE - USU
	Geared scroll chucks			Independent chucks
Chuck capacities	2 - 315 mm	3 - 630 mm	2 - 200 mm	20 - 1270 mm
Mount	Cylindrical centre mount DIN 6350	Cylindrical centre mount DIN 6351	Cylindrical centre mount DIN 6350	Cylindrical centre mount ISO 702-2 (DIN 55029) ISO 702-3 (DIN 55027)
Through-hole				
Number of jaws				
Types of jaws				
Workpiece	 	 	 	
Machining				
Rotating/ Stationary				
Clamping				
Clamping force				
Speed max.				
Precision				
Feature	radial precision adjustment, with special seal for grinding machines	independently adjustable jaws	keyless clamping, specially for measuring and grinding machines	independently adjustable jaws
Page	3048	3069	3074	3084



inside jaw + outside jaw



reversible jaw



rotating machining



independently adjustable jaws



base jaw



length machining



stationary machining



base and top jaw



side machining

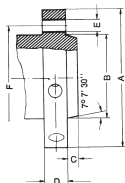


self-centering

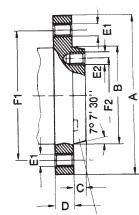
Machine spindle noses for DIN and ASA B 5.9

Machine spindle noses (not included in the scope of delivery)

ISO 702-2 (DIN 55029 and ASA B 5.9 D1)
Camlock fixing (ISO 702-2)



Typ A1-A2, B1-B2



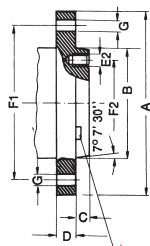
A1: Tapped holes in flange (outer bolt circle) **and** inner bolt circle. From taper size 4 with driver.

A2: Tapped holes in flange (outer bolt circle) **without** inner bolt circle.



B1: Through-holes in flange (outer bolt circle), tapped holes in **inner** bolt circle - from taper size 4 with driver.

B2: Through-holes in flange (outer bolt circle) **without** inner bolt circle.



* From taper size 4 with driver

Spindle nose size	A	B	C	D	E	F
3	92,1	53,985	11,1	31,8	3x15,1	70,66
4	117,5	63,525	11,1	33,3	3x16,7	82,55
5	146	82,575	12,7	38,1	6x19,8	104,8
6	181	106,390	14,3	44,5	6x23	133,4
8	225,4	139,735	15,9	50,8	6x26,2	171,4
11	298,5	196,885	17,5	60,3	6x31	235
15	403	285,800	19	69,9	6x35,7	330,2
20	546	412,800	21	82,5	6x42,1	463,6

Latest edition of relevant DIN standard applies in each case

Spindle nose size	A	B	C-0,025	D	Holes on outer bolt circle (F1)	Outer bolt circle	Holes on inner bolt circle (F2)	Inner bolt circle
	A	B	C-0,025	D	E1	F1	E2	F2

A1 (corresponds ISO 702-1)

5	133,4	82,575	14,288	22,2	11x 7/16-14 UNC	104,8	8x 7/16-14 UNC	61,9
6	165,1	106,390	15,875	25,4	11x 1/2-13 UNC	133,4	8x 1/2-13 UNC	82,6
8	209,5	139,735	17,462	28,6	11x 5/8-11 UNC	171,4	8x 5/8-11 UNC	111,1
11	279,4	196,885	19,05	34,9	11x 3/4-10 UNC	235	8x 3/4-10 UNC	165,1
15	381	285,800	20,638	41,3	12x 7/8-9 UNC	330,2	11x 7/8-9 UNC	247,6
20	520	412,800	22,225	47,6	12x 1-8 UNC	463,6	12x 1-8 UNC	368,3

Spindle nose size	A	B	C	D	Holes on outer bolt circle (F1)	Outer bolt circle
	A	B	C	D	E1	F1

A2 (corresponds ISO 702-1)

3	92,1	53,985	11,1	15,9	3x 7/16-14 UNC	70,66
4	108	63,525	11,1	19	11x 7/16-14 UNC	82,55
5	133,4	82,575	12,7	22,2	11x 7/16-14 UNC	104,8
6	165,1	106,390	14,3	25,4	11x 1/2-13 UNC	133,4
8	209,5	139,735	15,9	28,6	11x 5/8-11 UNC	171,4
11	279,4	196,885	17,5	34,9	11x 3/4-10 UNC	235
15	381	285,800	19	41,3	12x 7/8-9 UNC	330,2
20	520	412,800	20,6	47,6	12x 1-8 UNC	463,6

Spindle nose size	A	B	C-0,025	D	F1 G	Outer bolt circle	Holes on inner bolt circle (F2)	Inner bolt circle
	A	B	C-0,025	D	F1 G	F1	E2	F2

B1

5	133,4	82,575	14,288	22,2	11x11,9	104,8	8x 7/16-14 UNC	61,9
6	165,1	106,390	15,875	25,4	11x13,5	133,4	8x 1/2-13 UNC	82,6
8	209,5	139,735	17,462	28,6	11x16,7	171,4	8x 5/8-11 UNC	111,1
11	279,4	196,885	19,05	34,9	11x20,2	235	8x 3/4-10 UNC	165,1
15	381	285,800	20,638	41,3	12x23,4	330,2	11x 7/8-9 UNC	247,6
20	520	412,800	22,225	47,6	12x26,6	463,6	12x 1-8 UNC	368,3

Spindle nose size	A	B	C	D	G	Outer bolt circle
	A	B	C	D	G	F1

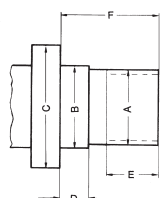
B2

3	92,1	53,985	11,1	15,9	3x11,9	70,66
4	108	63,525	11,1	19	11x11,9	82,55
5	133,4	82,575	12,7	22,2	11x11,9	104,8
6	165,1	106,390	14,3	25,4	11x13,5	133,4
8	209,5	139,735	15,9	28,6	11x16,7	171,4
11	279,4	196,885	17,5	34,9	11x20,2	235
15	381	285,800	19	41,3	12x23,4	330,2
20	520	412,800	20,6	47,6	12x26,6	463,6

Machine spindle noses for DIN and ASA B 5.9

Machine spindle noses (not included in the scope of delivery)

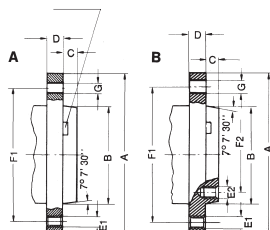
DIN 800, with thread



Mean tol. A	Bg5	Minimum C	D	E	F
M20	21	30	6,3	10	20
M24	25	36	8	12	24
M33	34	50	9	14	30
M39	40	56	10	16	35
M45	46	67	11	18	40
M52	55	80	12	20	45
M60	62	90	14	22	50
M76x6	78	112	16	30	63
M105x6	106	150	20	40	80

DIN 55021

From taper size 4 with driver



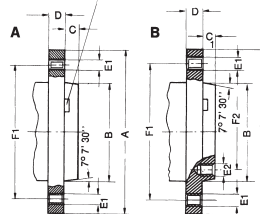
Spindle nose size					Holes on outer bolt circle (F1)		Outer bolt circle	Holes on inner bolt- circle	Inner bolt circle
	A	B	C	D	E1	G	F1	(F2) E2	F2
3	102	53,985	11	16	3xM10	3x10,5	75	-	-
4	112	63,525	11	20	3xM10	3x10,5	85	-	-
5	135	82,575	13	22	7xM10	4x10,5	104,8	8xM10	61,9
6	170	106,390	14	25	7xM12	4x13	133,4	8xM12	82,6
8	220	139,735	16	28	7xM16	4x17	171,4	8xM16	111,1
11	290	196,885	18	35	12xM20	6x21	235	11xM20	165,1
15	380	285,800	20	42	12xM24	6x25	330,2	11xM24	247,6
20	520	412,800	21	48	12xM24	6x25	463,6	11xM24	368,3

Form A: Tapped holes and through-holes in flange (without inner bolt circle)

Form B: Tapped holes and through-holes in flange (outer bolt circle) and tapped holes in inner bolt circle

ISO 702-1 (DIN 55026)

From taper size 4 with driver



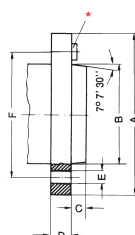
Spindle nose size					Holes on outer bolt circle		Outer bolt circle	Holes on inner bolt circle	Inner bolt circle
	A	B	C	C ₁	D	E1	F1	(F2) E2	F2
3	92	53,983	11	-	16	3xM10	70,6	-	-
4	108	63,521	11	-	20	11xM10	82,6	-	-
5	133	82,573	13	14,288	22	11xM10	104,8	8xM10	61,9
6	165	106,385	14	15,875	25	11xM12	133,4	8xM12	82,6
8	210	139,731	16	17,462	28	11xM16	171,4	8xM16	111,1
11	280	196,883	18	19,05	35	11xM20	235	8xM20	165,1
15	380	285,791	19	20,638	42	12xM24	330,2	11xM24	247,6
20	520	412,795	21	22,225	48	12xM24	463,6	11xM24	368,3

Form A: Tapped holes in flange (outer bolt circle) without inner bolt circle.

Form B: Tapped holes in flange (outer bolt circle) and in inner bolt circle.

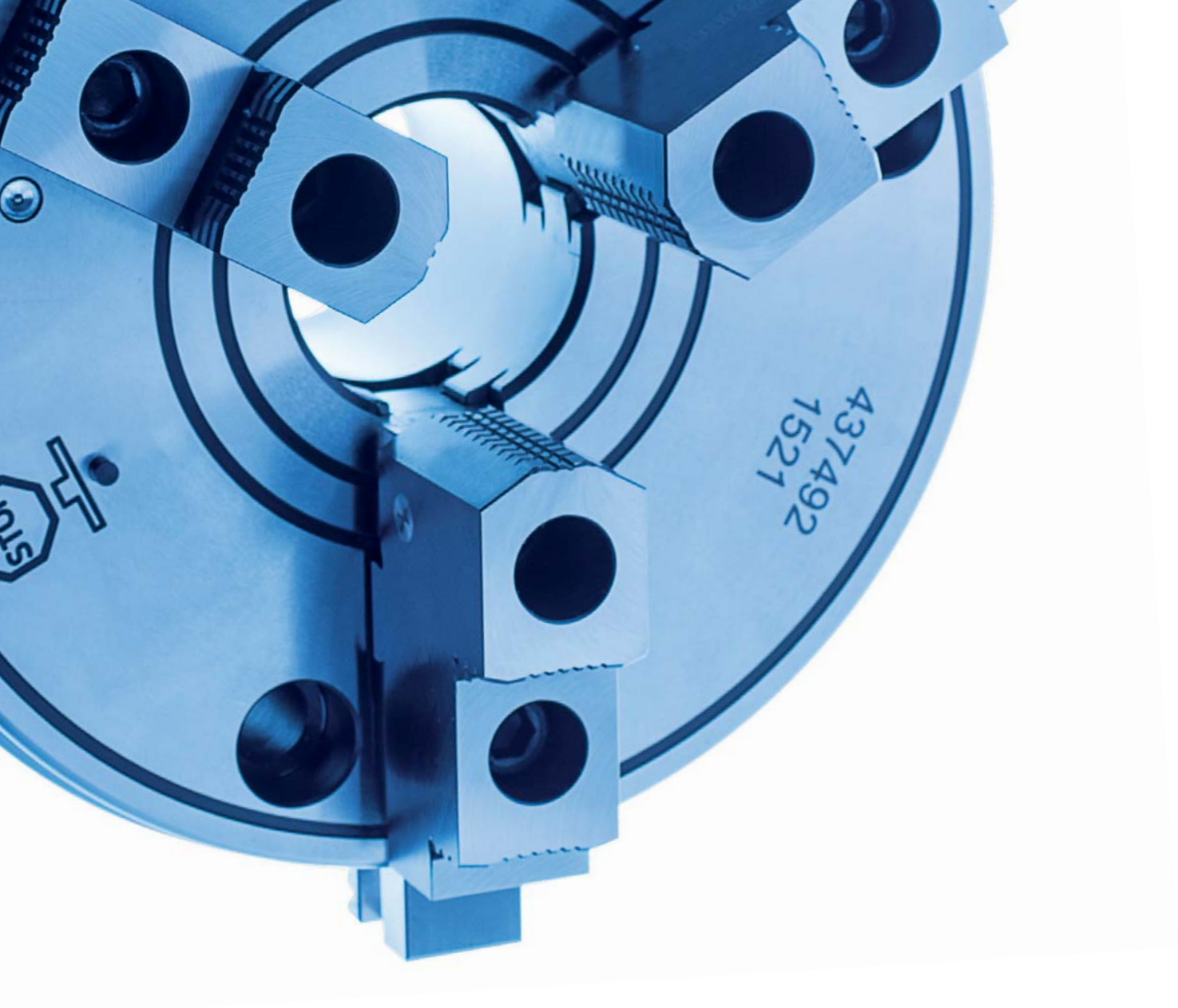
ISO 702-3 (DIN 55027 und 55022)

With bayonet ring fixing (ISO 702/III)



Spindle nose size	A	B	C	D	Number of holes x E	F
3	102	53,985	11	16	3x21	75
4	112	63,525	11	20	3x21	85
5	135	82,575	13	22	4x21	104,8
6	170	106,390	14	25	4x23	133,4
8	220	139,735	16	28	4x29	171,4
11	290	196,885	18	35	6x36	235
15	400	285,800	19	42	6x43	330,2
20	540	412,800	21	48	6x43	463,6

* From taper size 4 with driver



QUICK JAW CHANGE SYSTEM

The RÖHM key bar chucks with quick jaw change system convince in two ways. On the one hand the jaws can be quickly and easily turned, changed or offset over the entire clamping range within a few seconds. On the other the key bar chucks convince with maximum clamping forces and maximum accuracy thanks to direct force transfer via the key bar system. Large, straight surfaces transmitting the force from the key bar to the jaw teeth guarantee long life and produce a very high clamping force combined with an accuracy which is twice as high as required by DIN 6386. The high clamping force is achieved without much physical effort by manually turning the key.



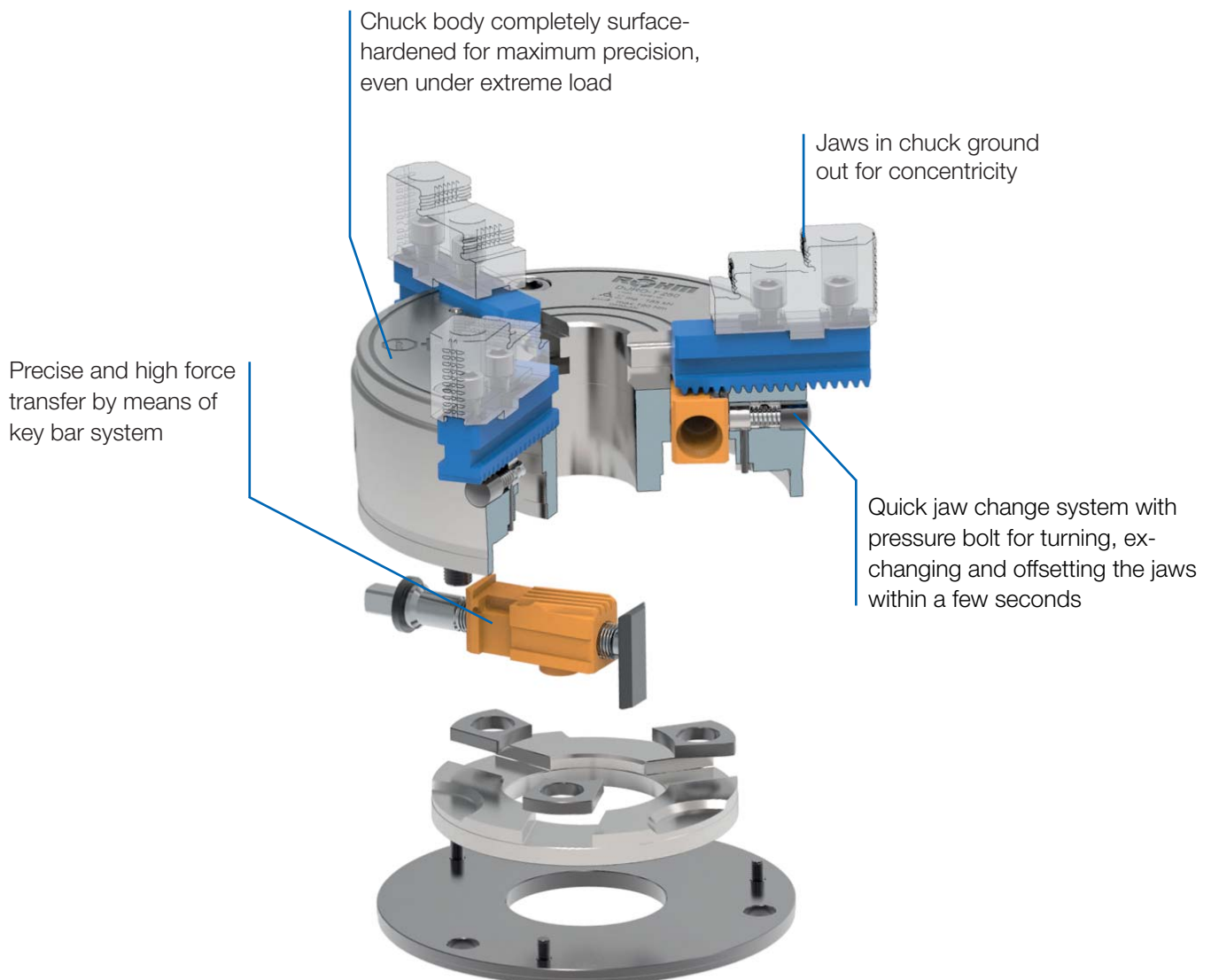
Video DURO-T

KEY BAR CHUCK WITH QUICK JAW CHANGE SYSTEM

The RÖHM key bar chucks with quick jaw change system are used successfully in areas where extremely high clamping forces, high concentricity and reliable long-term repeatability are required. Thanks to the quick jaw change system, the jaws can be quickly and easily turned, changed or offset over the entire clamping range within a few seconds.

ADVANTAGES AT A GLANCE

- ⊕ Maximum clamping forces thanks to direct force transfer via the key bar system
- ⊕ Maximum concentricity and axial run-out tolerance
- ⊕ High user-friendliness thanks to quick jaw change system



DURO-T

The DURO-T key bar chuck guarantees maximum precision, maximum clamping force and is completely balanced ex works

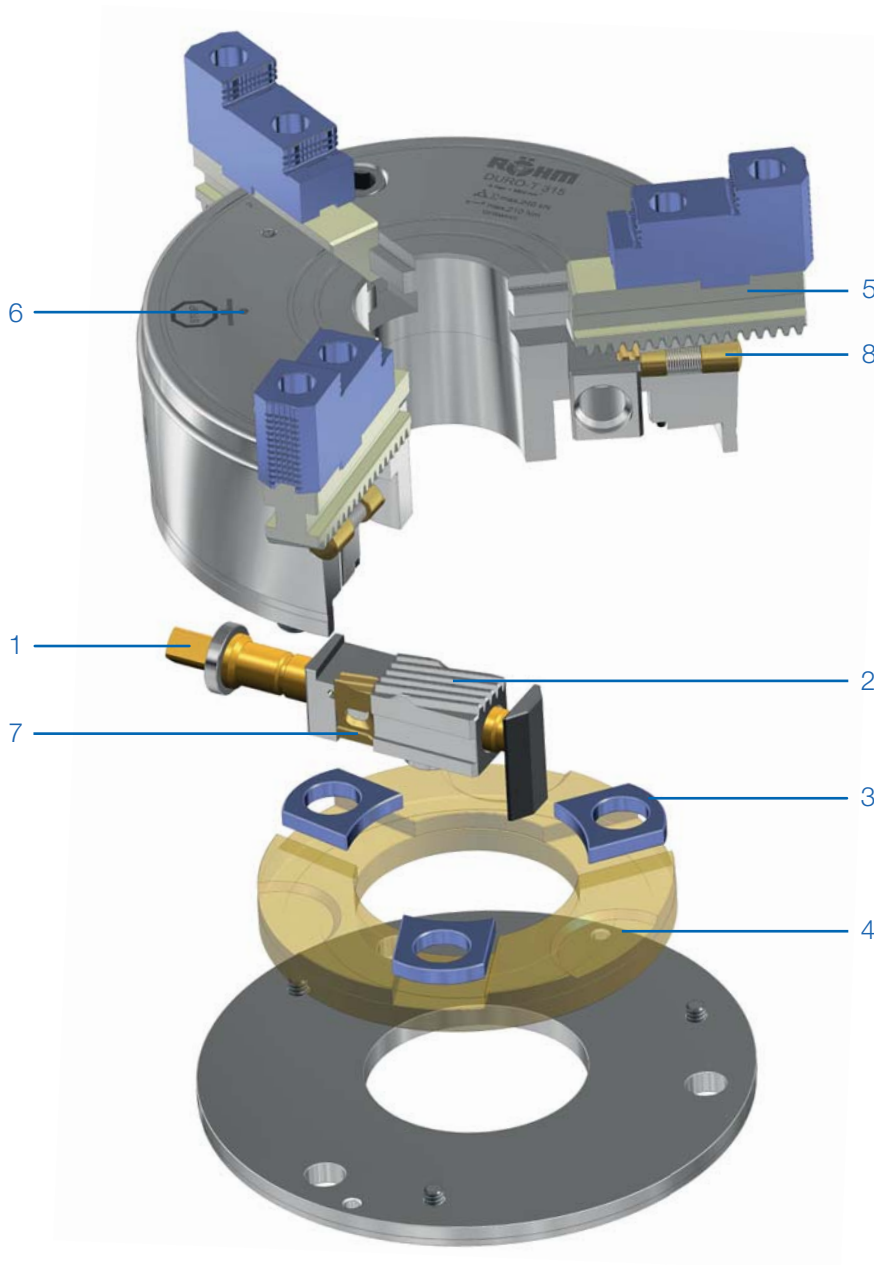
Principle of operation

Thanks to the tangentially arranged threaded spindle (1), the force is transferred via a key bar (2) having an internal thread. The key bar moves the drive ring via a slide (3). Two other slides in the drive ring (4) transfer the forces to the other two key bars. The key bars having an inclined profile engage in the base jaws (5), thereby guaranteeing exact, centric clamping. The jaws can be quickly and easily turned, changed or offset over the entire clamping range within a few seconds. To do this, the key bars must be disengaged by turning the key to the left; the indicator pin (6) will project here. In this position, the jaws are secured against being hurled out in the event the machine spindle is started up unintentionally. Therefore, the gate valve (7) of each jaw must be unlocked via the corresponding pressure bolt (8) on the outer diameter of the chuck.

Large, straight-line force transfer surfaces between the key bar and jaw toothing yield a very high clamping force over a long service life and precision which is twice as high as prescribed by DIN 6386. The high clamping force is achieved without exerting any special amount of force by manually turning the key.

Lubrication

To maintain the clamping force, key bar chucks must be lubricated regularly. You will find corresponding information in the operating instructions which are enclosed with every chuck. For easy maintenance, DURO-T chucks are equipped with three additional grease nipples on the front side.



DURO-T - with quick jaw change system



APPLICATION

Optimized for turning applications, which require extremely high clamping forces, maximum concentricity, as well as reliable long-term repeatability. In combination with a base plate, stationary use on milling machines, dividing units and machining centers.

TYPE

Key bar chuck with quick jaw change system. Guaranteed maximum jaw precision as far as these are only used on the same chuck, and base and top jaws are kept screwed on for recurring work.

CUSTOMER BENEFITS

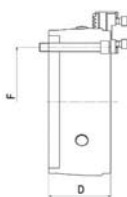
- Maximum clamping force thanks to key bar system
- Concentricity and axial run-out tolerance twice as exact as required in DIN precision class 1
- Very high jaw change repeatability
- Balanced and jaws in chuck ground out for concentricity

TECHNICAL FEATURES

- With jaw safeguard
- Chuck body completely surface-hardened
- Visual marking for quick jaw adjustment
- External shape incl. splash-water edge
- Fastening options for strongly stressed sliding surfaces
- Incl. safety key
- High corrosion protection



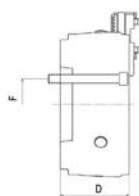
A08
Cylindrical centre mount



Size	Inch	Through-hole mm	With one-piece reversible jaws	With base jaws	With base jaws and reversible top jaws	D mm	F mm	Speed max. min ⁻¹	Max. Torque Nm	Max. total clamping force kN
125	5	32	437475	437482▲	-	46,5	100	6000	40	23
160	6 1/4	42	437476▲	437483▲	437490	63	125	5400	120	73
200	8	52	437477	437484▲	437491	81	160	4600	155	114
250	10	62	437478▲	437485▲	437492	92	200	4200	190	185
315	12 1/2	87	437479▲	437486▲	437493	111	250	3300	210	240
400	15 3/4	102	437480	437487▲	437494▲	118	315	2200	260	260
500	20	162	437481	437488▲	437495▲	118	400	1900	320	290
630	25	252	-	437489▲	437496▲	143	520	1100	350	320

At size 630 chuck body without convex outer contours
Further sizes and mountings available on request

A08
ISO 702-1 (DIN 55026), DIN 55021, ASA B 5.9, mounting from front



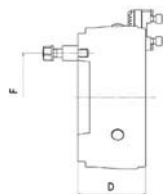
Size	Mount short taper	Through-hole mm	With one-piece reversible jaws	With base jaws	With base jaws and reversible top jaws	D mm	F mm	Speed max. min ⁻¹	Max. Torque Nm	Max. total clamping force kN
160	4	42	437570▲	437580▲	437591▲	76	82,62	5400	120	73
160	5	42	437571▲	437581▲	437592▲	79	104,8	5400	120	73
200	5	52	437572▲	437582▲	437593▲	93	104,8	4600	155	114
200	6	52	437573▲	437583▲	437594▲	97	133,4	4600	155	114
250	6	62	437574▲	437584▲	437595▲	108	133,4	4200	190	185
315	6	87	437575▲	437585▲	437596▲	124	133,4	3300	210	240
315	8	87	437576▲	437586▲	437597▲	130	171,4	3300	210	240
400	8	102	437577▲	437587▲	437598▲	135	171,4	2200	260	260
500	11	162	437578▲	437588▲	437599▲	138	235	1900	320	290
630	15	252	-	437590 ¹⁾ ▲	437601▲	167	330,2	1100	350	320

¹⁾ By conserving the precision
At size 630 chuck body without convex outer contours
Further sizes and mountings available on request

DURO-T - with quick jaw change system

A08

ISO 702-3 (DIN 55027), with studs and locknuts



Size	Mount short taper	Through-hole mm	With one-piece reversible jaws	With base jaws	With base jaws and reversible top jaws	D mm	F mm	Speed max. min ⁻¹	Max. Torque Nm	Max. total clamping force kN
125	5	32	437499	437523 ▲	-	67	104,8	6000	40	23
160	5	42	437501	437525 ▲	437548	78	104,8	5400	120	73
160	6	42	437502	437526 ▲	437549	85	133,4	5400	120	73
200	5	52	437504 ▲	437528 ▲	437551	96	104,8	4600	155	114
200	6	52	437505	437529 ▲	437552	97	133,4	4600	155	114
250	6	62	437509 ▲	437533 ▲	437556	108	133,4	4200	190	185
250	8	62	437510 ▲	437534 ▲	437557 ▲	110	171,4	4200	190	185
315	8	87	437512 ▲	437536 ▲	437559	129	171,4	3300	210	240
315	11	87	437513 ▲	437537 ▲	437560 ▲	131	235	3300	210	240
400	8	102	437515 ▲	437539 ▲	437562 ▲	138	171,4	2200	260	260
400	11	102	437516 ▲	437540 ▲	437563 ▲	138	235	2200	260	260
500	11	162	437519 ▲	437543 ▲	437566 ▲	156	235	1900	320	290
500	15	162	437520 ▲	437544 ▲	437567 ▲	163	330,2	1900	320	290
630	11	192	-	437545 ¹⁾ ▲	437568 ▲	165	235	1100	350	320
630	15	252	-	437546 ¹⁾ ▲	437569 ▲	167	330,2	1100	350	320

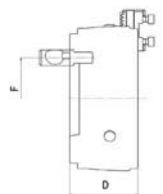
¹⁾ By conserving the precision

At size 630 chuck body without convex outer contours

Further mountings available on request.

A08

ISO 702-2 (DIN 55029), stud for Camlock



Size	Mount short taper	Through-hole mm	With one-piece reversible jaws	With base jaws	With base jaws and reversible top jaws	D mm	F mm	Speed max. min ⁻¹	Max. Torque Nm	Max. total clamping force kN
125	3	32	437602 ▲	437625 ▲	-	67	70,66	6000	40	23
125	4	32	437603 ▲	437626 ▲	-	68	82,6	6000	40	23
160	4	42	437604 ▲	437627 ▲	437650 ▲	83,5	82,6	5400	120	73
160	5	42	437605 ▲	437628 ▲	437651 ▲	87	104,8	5400	120	73
160	6	42	437606 ▲	437629 ▲	437652 ▲	104	133,4	5400	120	73
200	4	52	437607 ▲	437630 ▲	437653 ▲	97,5	82,6	4600	155	114
200	5	52	437608 ▲	437631 ▲	437654 ▲	101	104,8	4600	155	114
200	6	52	437609 ▲	437632 ▲	437655 ▲	106	133,4	4600	155	114
200	8	52	437610 ▲	437633 ▲	437656 ▲	125	171,4	4600	155	114
250	4	60	437611 ▲	437634 ▲	437657 ▲	118,5	82,6	4200	190	185
250	5	62	437612 ▲	437635 ▲	437658 ▲	112	104,8	4200	190	185
250	6	62	437613 ▲	437636 ▲	437659 ▲	117	133,4	4200	190	185
250	8	62	437614 ▲	437637 ▲	437660 ▲	120	171,4	4200	190	185
315	6	87	437615 ▲	437638 ▲	437661 ▲	145	133,4	3300	210	240
315	8	87	437616 ▲	437639 ▲	437662 ▲	136	171,4	3300	210	240
315	11	87	437617 ▲	437640 ▲	437663 ▲	143	235	3300	210	240
400	6	102	437618 ▲	437641 ▲	437664 ▲	153	133,4	2200	260	260
400	8	102	437619 ▲	437642 ▲	437665 ▲	141	171,4	2200	260	260
400	11	102	437620 ▲	437643 ▲	437666 ▲	148	235	2200	260	260
400	15	102	437621 ▲	437644 ▲	437667 ▲	168	330,2	2200	260	260
500	8	135	437622 ▲	437645 ▲	437668 ▲	143	171,4	1900	320	290
500	11	162	437623 ▲	437646 ▲	437669 ▲	148	235	1900	320	290
500	15	162	437624 ▲	437647 ▲	437670 ▲	153	330,2	1900	320	290
630	11	192	-	437648 ¹⁾ ▲	437671 ▲	170	235	1100	350	320
630	15	252	-	437649 ¹⁾ ▲	437672 ▲	175	330,2	1100	350	320

¹⁾ By conserving the precision

At size 630 chuck body without convex outer contours

Jaws DURO-T

A28

One-piece jaw EB, 3-jaw set, diagonally toothing, hardened



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
212121 ▲	125	3	set	50	34	14
094000	160	3	set	77,7	45	20
094001	200	3	set	94,7	60	22
094002	250	3	set	114	70	26
094003	315	3	set	130	79	32
094043	400/500	3	set	167	93	45

Additionally or later applied, hardened stepped jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.

A28

Unstepped jaw BL, 3-jaw set, diagonally toothing, unstepped, soft, material 16MnCr5



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
304864	125	3	set	53	34	14
241699	160	3	set	84,4	45	20
249678	200	3	set	98,4	60	22
249679	250	3	set	118,7	70	26
249680	315	3	set	136,6	79	32
249681	400/500	3	set	173,6	93	45

A28

Reversible top jaw UB, 3-jaw set, hardened tongue and groove for external and internal clamping, material 16 MnCr5



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
094012	160	3	set	61,5	32,5	20,4
094013	200	3	set	70,5	38	24,4
094014	250	3	set	92	50	34,4
094015	315	3	set	107	56	35,7
094045	400/500	3	set	130	72	50,4
140715	630	3	set	185	102	68

Additionally or later applied hardened jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.

A28

Unstepped top jaw AB, 3-jaw set, standard design, soft, material 16 MnCr5



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
212123	125	3	set	55	25,5	20,7
094008	160	3	set	85	36,5	20,3
094009	200	3	set	105	40	22
094010	250	3	set	125	50	30,4
094011	315	3	set	145	50	34,3
094046	400/500	3	set	180	73	50,5
140716	630	3	set	260	102	68

A28

Unstepped top jaw AB, 3-jaw set, extendend design, soft, material 16MnCr5



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
137055	160	3	set	85	42,5	24,4
137056	200	3	set	105	51	34,3
137057	250	3	set	125	75	50,5
137058	315	3	set	145	74	50,5

Jaws DURO-T

A28

Base jaw GB, 3-jaw set, diagonally toothing, with mounting bolts



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw width mm
212119	125	3	set	47	14
094004	160	3	set	74	20
094005	200	3	set	90	22
094006	250	3	set	110	26
094007	315	3	set	125	32
094044	400/500	3	set	160	45
140194	630	3	set	230	65

C 21

Reversible claw-type top jaws, standard design, tongue and groove, large clamping range, 1 piece, hardened



Item no.	Chuck Size	Jaw length mm	Jaw height mm	Jaw width mm
137060	160	66	37,5	24
137119	400/500	124	62	50
151289	630	144	78	70

C 21

Reversible claw-type top jaws, standard design, tongue and groove, small clamping range, 1 piece, hardened



Item no.	Chuck Size	Jaw length mm	Jaw height mm	Jaw width mm
137061	160	66	37,5	20
137064	200	81	43	24
137108	250	90	55	34
137114	315	100	62	34
137120	400/500	124	62	50

C 21

Reversible claw-type top jaws, standard design, tongue and groove, medium clamping range, 1 piece, hardened



Item no.	Chuck Size	Jaw length mm	Jaw height mm	Jaw width mm
137062	160	56	37,5	20
137065	200	66	43	24
137109	250	72	55	34
137115	315	86	62	34
137121	400/500	100	62	50

C 21

Reversible claw-type top jaws, large design, tongue and groove, small clamping range, 1 piece, hardened



Item no.	Chuck Size	Jaw length mm	Jaw height mm	Jaw width mm
137066	160/200	79	43	34
137110	250	80	55	50
137116	315	93	62	50

Jaws DURO-T

C 21

Reversible claw-type top jaws, large design, tongue and groove, **large clamping range**, 1 piece, hardened


Item no.	Chuck Size	Jaw length mm	Jaw height mm	Jaw width mm
137067	160/200	81	43	34
137111	250	90	55	50
137117	315	106	62	50

C 21

Reversible claw-type top jaws, large design, tongue and groove, **medium clamping range**, 1 piece, hardened


Item no.	Chuck Size	Jaw length mm	Jaw height mm	Jaw width mm
137068	160/200	66	43	34
137112	250	72	55	50
137118	315	86	62	50

C 21

Draw-down jaws, for interchangeable clamping inserts, **diagonally toothing**, 1 piece, without clamping inserts


Item no.	Chuck Size	Jaw length mm	Jaw height mm	Jaw width mm
141037	160	84,4	43,5	20
141039	200	98,4	47,5	22
141041	250	118,7	58,5	26
141043	315	136,4	63,9	32
141045	400/500	173,6	73,4	45

C 21

Draw-down jaws, additional clamping range, for interchangeable clamping inserts, **diagonally toothing**, 1 piece, without clamping inserts


Item no.	Chuck Size	Jaw length mm	Jaw height mm	Jaw width mm
141038	160	84,4	43,5	20
141040	200	98,4	47,5	22
141042	250	118,7	58,5	26
141044	315	136,4	63,9	32
141046	400	173,6	73,4	45
141048	500	173,6	73,4	45

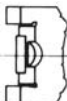
Jaws DURO-T

C 15
Interchangeable clamping inserts, 1 piece, with claws



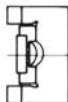
Item no.	Chuck Size
141049	160/200
141052	250/315
141055 ▲	400/500/630

C 15
Interchangeable clamping inserts, 1 piece, with serrated toothing



Item no.	Chuck Size
141050	160/200
141053	250/315
141056 ▲	400/500

C 15
Interchangeable clamping inserts, 1 piece, with heat treatable surface



Item no.	Chuck Size
141051	160/200
141054	250/315
141057 ▲	400/500

C15
Jaw mounting bolt, piece



Item no.	Size	Thread	Contents of delivery
243893	125	M6x10	piece
200182	160/200	M8x22	piece
200183	250	M12x30	piece
202402	315	M12x35	piece
227618	400/500	M16x40	piece
249388	630	M20x50	piece

Accessories DURO-T

A08 Base plate with fixing slots

Complete with mounting screws and fixed T-slot nuts.
Other sizes available on request.



Item no.	Size
143163 ▲	160
143165 ▲	200
143167 ▲	250

A08 Key



Item no.	Size	Square	L mm
212124 ▲	125	8	85
094016	160	10	140
094017	200	12	160
094018	250	14	220
094019	315	17	230
094047 ▲	500	19	250
332938 ▲	630	24	410

Only for stationary used chucks

A08 Safety key



Item no.	Size	Square	L mm
242172 ▲	125	8	85
242173	160	10	140
242174	200	12	160
242175	250	14	220
242176	315	17	230
242177	500	19	250
332939 ▲	630	24	410

Corresponding with DIN 1550 for rotating chucks

A08 Torque wrench



Item no.	Torque Nm	Length mm	Output	Working accuracy
10004116	20-120	435	12,7=1/2"	3%
10004117	60-320	659	12,7=1/2"	3%

A08 Chip guard set



Item no.	Size	Contents of delivery
212122 ▲	125	set
236439 ▲	160	set
236440	200	set
236441	250	set
236442	315	set
236443	500	set

A08 Safety adapter



Item no.	Size	Square	Length mm	Mount
1333585	125	8	85	1/2"
1333587	160	10	120	1/2"
1293349	200	12	132	1/2"
1129759	250	14	186	1/2"
1129449	315	17	192	1/2"
1111583	400/500	19	220	1/2"
1162787	630	24	250	1/2"

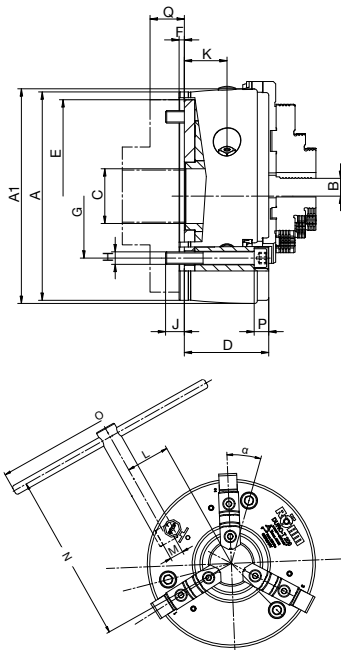
A08 Special grease F80 for lathe chucks

for lubrication and conservation of chucking power



Item no.	Design	Contents
308555	Cartridge	0,5 kg
028975	Tin	1 kg

Technical Data DURO-T



Chuck size A		125	160	200	250	315	400	500	630
Outer diameter	A1	128	164	206	256	322	407	507	630
Jaw movement	B	4,8	6,2	6,8	8	10,2	12,5	12,5	14
Bore	C	32	42	52	62	87	102	162	252
Bore can be enlarged	C max.	35	45	55	75	102	130	180	270
	D	46,5	63	81	92	111	118	118	143
	EH6	115	145	185	235	300	380	460	580
	F	4	5	5	6	6	6	6	6
	G	100	125	160	200	250	315	400	520
	H	3xM8	3xM10	3xM12	3xM16	3xM20	3xM24	3xM24	3xM24
	J	12	15	18	25	30	37	37	37
	K	22,5	31,5	43	47	59	57,7	57,5	72
	L	32,5	42	53,5	66,5	86	110	152,5	196
	M	SW8	SW10	SW12	SW14	SW17	SW19	SW19	SW24
	N	117	182	211	284	309	359	356	570
	O	180	210	270	450	500	600	600	600
	P	8,5	13	14	17	21	25	25	29
	Q	17	30	30	35	35	40	45	55
Min. thickness of flange									
Moment of inertia GD2 ¹⁾	kgm ²	0,01	0,03	0,10	0,29	0,87	2,37	5,78	17,04
	α	21° 35'	22°	18°	19°	17°	20°	42°	69° 30'
approx. kg	kg	4,0	9,3	18,6	34,5	64	112	166	300

1) The moment of inertia was measured with base jaws but without top jaws or back plate

The bore could be enlarged (measure C, at surcharge)

■ Enlarged bore max.

Max. permissible speed

The maximum permissible speed has been fixed so that 1/3 of the gripping force is still available as residual gripping force if the maximum gripping is applied and the chuck is fitted with its heaviest jaws. The jaws may not project beyond the outside diameter of the chuck. The chuck must be in perfect condition. The specification DIN 6386 Part 1 shall be observed.

Chuck size		125	160	200	250	315	400	500	630
Max. speed	min ⁻¹	6000	5400	4600	4200	3300	2200	1900	1100

Gripping force

The gripping force is the sum total of all jaw forces acting radially on the stationary workpiece.

The specified gripping forces are standard values.

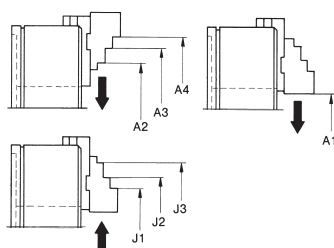
They apply to chucks in a perfect condition which have been lubricated with RÖHM grease F79 and F80.

Chuck size		125	160	200	250	315	400	500	630
Torque applied on key 1)	Nm	10	40	60	70	80	90	100	100
Total gripping force 1)	kN	8,5	30	48	66	80	95	102	102
Torque applied on key	Nm	40	120	155	190	210	260	320	350
Max. total gripping force	kN	23	73	114	185	240	260	290	320

1) Maintaining the accuracy

At this torque the clamping jaws have been ground at the factory; for testing the chuck must be clamped with this torque

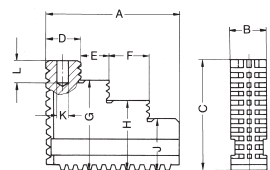
Chuck capacities of jaw steps



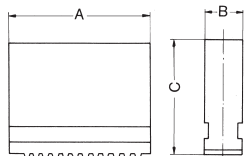
Chuck size		125	160	200	250	315	400	500	630
External chucking	Jaw position	A1	3-30	5-51	7-70	8-97	12-131	16-168	40-256
		A2	31-65	45-91	58-123	82-172	93-216	119-278	167-360
		A3	63-97	89-135	114-179	-	-	-	-
		A4	95-129	115-161	142-207	163-253	201-323	260-413	308-501
Internal chucking	Jaw position	J1	26-59	67-105	71-131	99-182	102-213	120-272	166-360
		J2	57-91	93-132	99-159	-	-	-	-
		J3	89-123	135-174	154-214	178-261	207-319	260-412	306-500
		J4	-	-	-	-	-	-	-

Jaw dimensions DURO-T

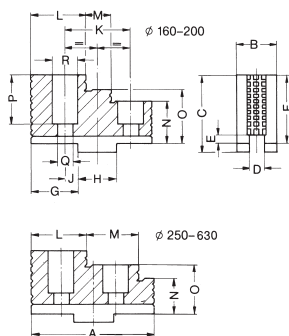
Reversible one-piece jaw **EB**,
hardened and ground,
jaw steps not ground



Block jaw **BL**, unstepped, soft, thread
and jaw guides hardened and ground



Reversible top jaw **UB**,
completely hardened, cross tenon ground,
jaw steps not ground



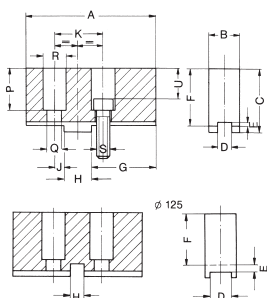
Chuck size	125	160	200	250	315	400+500
A	50	77,7	94,7	114	130	167
B	14	20	22	26	32	45
C	34	45	60	70	79	93
D	10,7	20,6	23	41,5	40,2	50,5
E	16	18,9	19,5	40,3	54	71
F	16	22	28	-	-	-
G	29	37,5	50	56	64	73
H	24	30	40	-	-	-
J	19	22,5	30	42	49	53
K	-	8	10	13	13	20
L	-	16	15	19,5	19,5	30
Jaw approx. kg	0,400	0,500	0,635	1,135	1,835	3,665

Chuck size	125	160	200	250	315	400+500
A	53	84,4	98,4	118,7	136,6	173,6
B	14	20	22	26	32	45
C	34	45	60	70	79	93
Jaw approx. kg	0,435	0,500	0,900	1,535	2,400	5

Chuck size	160	200	250	315	400+500	630
A	61,5	70,5	92	107	130	185
B	20,4	24,4	34,4	35,7	50,4	68
C	37	43	55	62	79	110
D	8	10	12	12	18	24
E	3	3,5	3,5	3,5	4,5	4,5
F	32,5	38	50	56	72	102
G	22,5	25,5	30	35,5	41,4	59
H	18	20	20	26	30	40
J	7	10	10	14	15	21
K	32	40	40	54	60	82
L	26,5	28,5	41	40	51	80
M	13	14	40,5	54	71	80
N	17,5	18	22	26	32	42
O	25	28	36	41	52	72
P	23,5	29	39	40	57	82
Q	9	9	14	14	18	22
R	15	15	20	20	26	33
T ¹⁾	38,5	45	57	63,6	80,6	114
Jaw approx. kg	0,200	0,335	0,800	1,135	2,535	6,350

1) Dimension marked on base jaw

Unstepped soft top jaw **AB**,
for turning out special chucking diameters

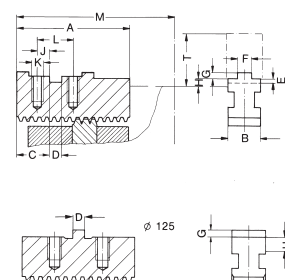


Dimensions for extendend design

Chuck size	125	160	200	250	315	400+500	630
A	55	85	105	125	145	180	260
B	20,7	20,3	22	30,4	34,3	50,5	68
C	31,3	41	45	55	56	80	110
D	14	8	10	12	12	18	24
E	3,3	3	3,5	3,5	3,5	4,5	4,5
F	25,5	36,5	40	50	50	74	102
G	25	42	50	70	74	100	150
H	5	18	20	20	26	30	40
J	7,5	7	10	10	14	15	21
K	20	32	40	40	54	60	82
P	24	27,5	31	39	34	48	83
Q	6,5	9	9	14	14	18	22
R	11	15	15	20	20	26	33
S	M6	M8x1	M8x1	M12x1,5	M12x1,5	M12x1,5	M16x1,5
T ¹⁾	32	42,5	47	58	57,6	71,6	81,6
U	18	19,5	23	27	22	36	42
Jaw approx. kg	0,200	0,435	0,735	1,400	1,500	3,700	2,265

1) Dimension marked on base jaw

Base jaws **GB**,
hardened and ground



Chuck size	125	160	200	250	315	400+500	630
A	47	74	90	110	125	160	230
B	14	20	22	26	32	45	65
C	21	19	23	26	30	35	52
D	5	18	20	20	26	30	40
E	-	5	5,5	5,5	6,5	7,5	9
F	-	8	10	12	12	18	24
G	2,8	2,5	3	3	3	4	4
H	3,55	6	7	7	7,6	8,6	12
J	7,5	7	10	10	14	15	21
K	M6	M8x1	M8x1	M12x1,5	M12x1,5	M16x1,5	M20
L	20	32	40	40	54	60	82
M	72	103	129	163	196	250	399
Jaw approx. kg	0,200	0,265	0,365	0,700	1,065	2,350	5,665

Chuckling capacities DURO-T

Reversible claw-type top
jaws KB, standard design

	Reversible claw-type top jaw, large clamping range			
Chuck size	160	400	500	630
Item no.	137060	137119	137119	151289
Capacities external Ø min. - max.	142,5 - 187,5	314 - 446	311 - 534	391 - 670
Capacities internal Ø min. - max.	22,5 - 67,5	99 - 231	95 - 317	176 - 456
Interfering contour	224	528	592	800

	Reversible claw-type top jaw, small clamping range					
Chuck size	160	200	250	315	400	500
Item no.	137061	137064	137108	137114	137120	137120
Capacities external Ø min. - max.	37,5 - 82,5	56 - 116	90 - 170	82 - 210	142 - 274	139 - 360
Capacities internal Ø min. - max.	133 - 178	160 - 220	177 - 257	242 - 370	301 - 433	266 - 488
Interfering contour	209	264	330	446	535	592

	Reversible claw-type top jaw, medium clamping range					
Chuck size	160	200	250	315	400	500
Item no.	136062	137065	137109	137115	137121	137121
Capacities external Ø min. - max.	103 - 148	117 - 181	167 - 248	178 - 306	270 - 402	267 - 489
Capacities internal Ø min. - max.	71 - 116	91 - 155	100 - 184	97 - 225	142 - 274	139 - 361
Interfering contour	209	264	330	396	504	592

DURO-TA - sealed design

Key bar chucks
DURO-TA



APPLICATION

Specially for grinding machines.
Optimized for extremely high clamping forces, maximum concentricity, as well as reliable long-term repeatability.

TYPE

Key bar chuck with quick jaw change system.
Guaranteed maximum jaw precision as far as these are only used on the same chuck, and base and top jaws are kept screwed on for recurring work.

CUSTOMER BENEFITS

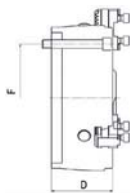
- Maximum clamping force thanks to key bar system
- With cover for protection against dust on the face
- Very high jaw change repeatability

TECHNICAL FEATURES

- With jaw safeguard
- Chuck body completely surface-hardened
- Visual marking for quick jaw adjustment
- External shape incl. splash-water edge
- Fastening options for strongly stressed sliding surfaces
- Incl. safety key
- High corrosion protection



A08
Cylindrical centre mount



Size	Inch	With base jaws	With inside and outside jaw	D mm	Speed max. min ⁻¹	Max. Torque Nm	Max. total clamping force kN
160	6 1/4	439606 ▲	439605	63	5400	120	73
200	8	439608	439607	81	4600	155	114
250	10	439610	439609	92	4200	190	185

Further sizes and mountings available on request

Jaws DURO-TA

A28

Outside jaw DB, set, inward stepped jaw, hardened


Item no.	Chuck Size	Contents of delivery	Jaw width mm
329041	160	set	20
329042	200	set	22
329043	250	set	26

Additionally or later applied, hardened stepped jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.

A28

Inside jaw BB, set, outward stepped jaw, hardened


Item no.	Chuck Size	Contents of delivery	Jaw width mm
329038	160	set	20
329039	200	set	22
329040	250	set	26

Additionally or later applied, hardened stepped jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.

A28

Unstepped top jaw AB, 3-jaw set, soft, material 16MnCr5


Item no.	Chuck Size	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
329044	160	set	90	36,5	20,3
329045	200	set	100	40	22
094010	250	set	125	50	30,4

A28

Base jaw GB, 3-jaw set, hardened, with mounting bolts


Item no.	Chuck Size	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
329047	160	set	74	8	20
329048	200	set	90	10	22
329049	250	set	110	12	26

C15

Jaw mounting bolt, piece


Item no.	Size	Thread	Contents of delivery
200182	160/200	M8x22	piece
200183	250	M12x30	piece

Accessories DURO-TA

A08 Base plate with fixing slots

Complete with mounting screws and fixed T-slot nuts.
Other sizes available on request.



Item no.	Size
143163 ▲	160
143165 ▲	200
143167 ▲	250

A08 Key



Item no.	Size	Square	L mm
094016	160	10	140
094017	200	12	160
094018	250	14	220

Only for stationary used chucks

A08 Safety key



Item no.	Size	Square	L mm
242173	160	10	140
242174	200	12	160
242175	250	14	220

Corresponding with DIN 1550 for rotating chucks

A08 Torque wrench



Item no.	Torque Nm	Length mm	Output	Working accuracy
10004116	20-120	435	12,7=1/2"	3%
10004117	60-320	659	12,7=1/2"	3%

A08 Chip guard set



Item no.	Size	Contents of delivery
236439 ▲	160	set
236440	200	set
236441	250	set

A08 Safety adapter



Item no.	Size	Square	Length mm	Mount
1333587	160	10	120	1/2"
1293349	200	12	132	1/2"
1129759	250	14	186	1/2"

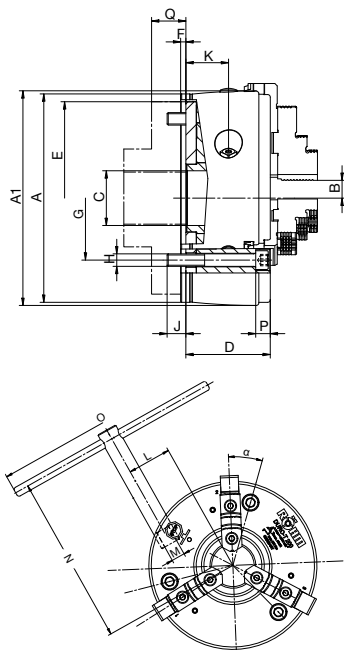
A08 Special grease F80 for lathe chucks

For lubrication and conservation of chucking power



Item no.	Design	Contents
308555	Cartridge	0,5 kg
028975	Tin	1 kg

Technical data DURO-TA



Chuck size		160	200	250
Outer diameter	A	160	206	255
Jaw movement	B	6,2	6,8	8
Bore	C	42	52	62
Bore can be enlarged	C max.	45	55	75
	D	63	81	92
	E ^{H6}	145	185	235
	F	5	5	6
	G	125	160	200
	H	3xM10	3xM12	3xM16
	J	15	18	25
	K	31,5	43	47
	L	42	53,5	66,5
	M	SW10	SW12	SW14
	N	182	211	284
	O	210	270	450
	P	13	14	17
Min. thickness of flange	Q	30	30	35
Moment of inertia ¹⁾	kgm ²	0,03	0,10	0,29
	α	22°	18°	19°
Weight approx	kg	9,5	20°	35

1) The moment of inertia was measured with base jaws but without top jaws or back plate
The bore could be enlarged (measure C, at surcharge)

Enlarged bore max.

Max. permissible speed

The maximum permissible speed has been fixed so that 1/3 of the gripping force is still available as residual gripping force if the maximum gripping is applied and the chuck is fitted with its heaviest jaws. The jaws may not project beyond the outside diameter of the chuck. The chuck must be in perfect condition. The specification DIN 6386 Part 1 shall be observed.

Chuck size		160	200	250
Max. speed	min ⁻¹	5400	4600	4200

Gripping force

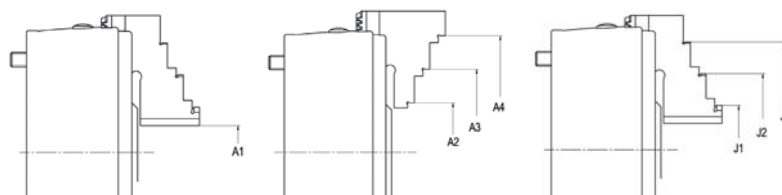
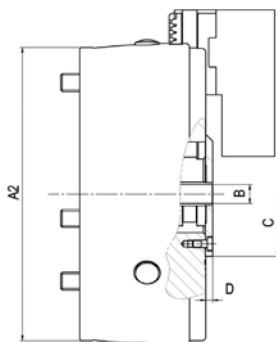
The gripping force is the sum total of all jaw forces acting radially on the stationary workpiece. The specified gripping forces are standard values. They apply to chucks in a perfect condition which have been lubricated with RÖHM grease F79 and F80.

Chuck size		160	200	250
Torque applied on key in 1)	Nm	20	30	35
Total gripping force 1)	kN	15	24	33
Torque applied on key in	Nm	120	155	190
Max. total gripping force	kN	73	114	185

1) Maintaining the accuracy

Chucking capacities of jaw steps

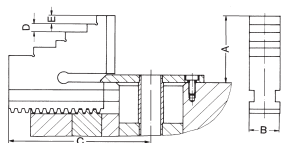
Chuck size		160	200	250
External chucking		A1 5-51	7-70	8-97
		A2 45-91	58-123	82-172
		A3 89-135	114-179	-
		A4 115-161	142-207	163-253
Internal chucking		J1 67-105	71-131	99-182
		J2 93-132	99-159	-
		J3 135-174	154-214	178-261



Chuck dimensions DURO-TA - Main dimensions (other dimensions on the table on the top)

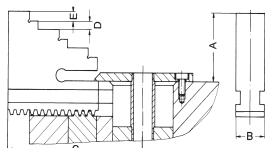
Chuck size		160	200	250
Outer diameter	A	160	206	255
External chucking with BB-jaws		3-46	3-60	5-66
External chucking with DB-jaws		23-160	32-200	65-243
Internal chucking with BB-jaws		28-156	32-195	47-225
Central bor for coolant	B	13	13	13
	C	70	85	92
	D	5	6	5

Jaw dimensions and chucking capacity DURO-TA



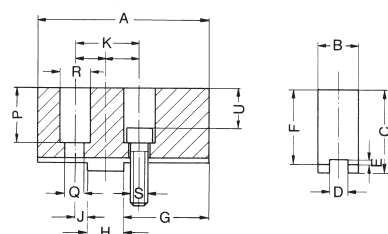
Outward stepped
jaw **BB**

Chuck size	160	200	250
A	46	55	60
B	20	22	26
C max.	95	120	143,5
C min.	72	91	113
D	5	7	6
E	6	6	8
Jaw approx. kg	0,465	0,643	1,065



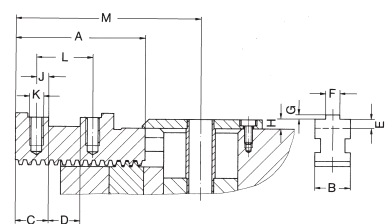
Inward stepped
jaw **DB**

Chuck size	160	200	250
A	43	50	50
B	20	22	26
C max.	95	120	143,5
C min.	72	91	113
D	5	7	6
E	6	6	8
Jaw approx. kg	0,435	0,600	1,065



Unstepped soft top
jaw **AB**

Chuck size	160	200	250
A	90	100	125
B	20,3	22	30
C	41	45	55
D	8	10	12
E	3	3,5	3,5
F	36,5	40	50
G	55	61	70
H	18	20	20
J	6	6	10
K	30	32	40
P	27,5	31	39
Q	9	9	14
R	15	15	20
S	M8x1	M8x1	M12x1,5
U	19,5	23	27
Jaw approx. kg	0,435	0,800	1,500



Base jaw **GB**

Chuck size	160	200	250
A	74	90	110
B	20	22	26
C	17	19	26
D	18	20	20
E	5	5,5	5,5
F	8	10	12
G	2,5	7	7
H	6	20	20
J	7	6	10
K	M8x1	M8x1	M12x1,5
L	32	32	40
M max.	105	127	148,5
M min.	91	103	125
Jaw approx. kg	0,335	0,365	0,700

DURO-TA XT

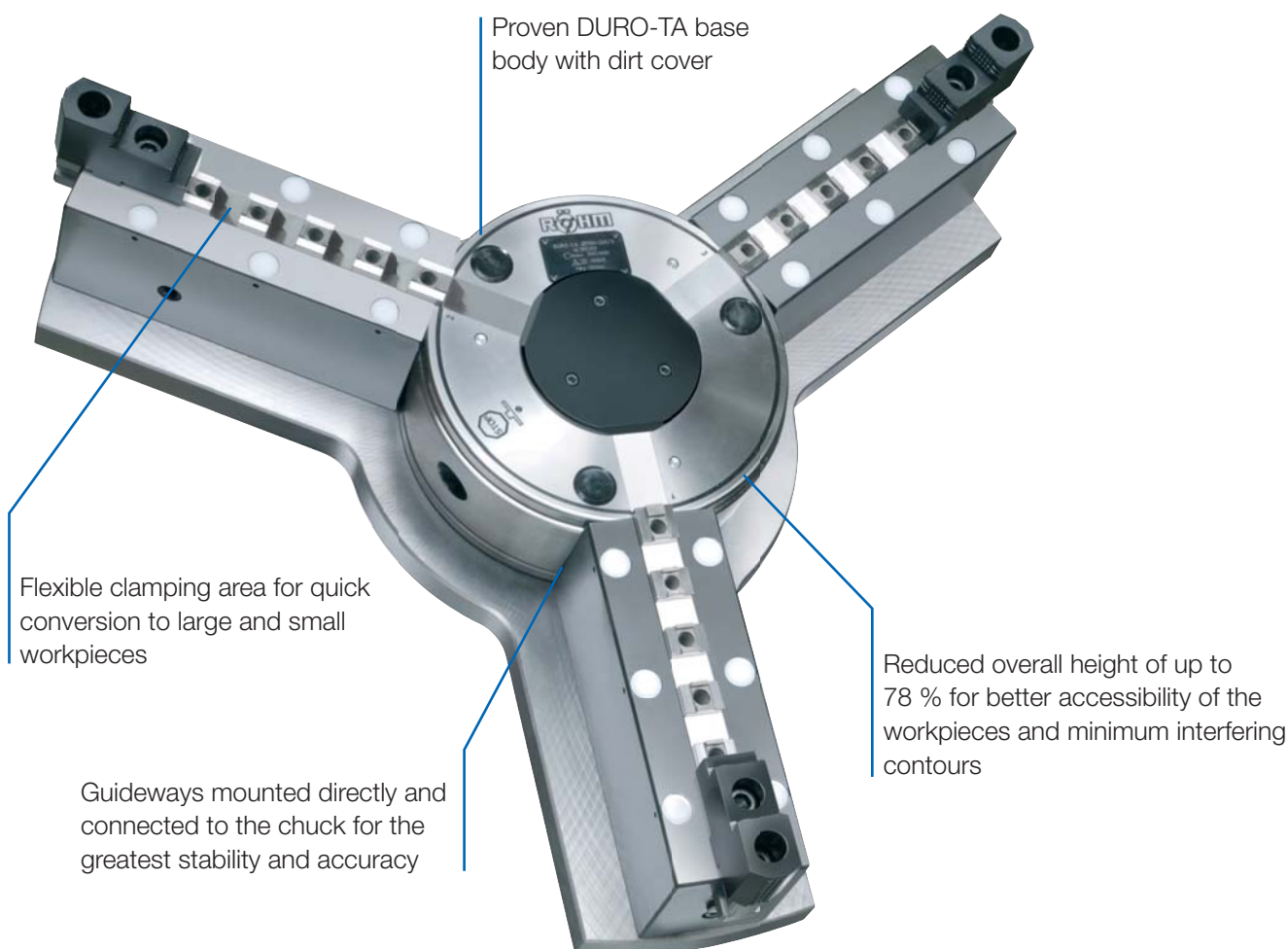
Equipped with extended and easy to assemble guideways the new lightweight DURO-TA XT is convincing with a flexible clamping area for machining large and small workpieces. Weight-reducing by up to 75 % makes maximum utilisation of the machine's potential possible.

Guideways

The new DURO-TA XT has an innovative concept for guideways that guarantees flexible and weight-reducing use. In contrast to other large chucks, the DURO-TA XT is up to 75 % lighter and that way makes maximum utilisation of the machine's potential possible and clamping of higher workpiece weights. Through the extended and easy to assemble guideways, the clamping area can be set flexibly and hence converted quickly to large and small workpieces. Through the direct mount on the base body, the guideways guarantee extremely high rigidity, stability and protection against penetration by dirt and dust.

Principle of operation

Thanks to the tangentially arranged threaded spindle, the force is transferred via a key bar having an internal thread. The key bar moves the drive ring via a slide. Two other slides in the drive ring transfer the forces to the other two key bars. The key bars having an inclined profile engage in the base jaws, thereby guaranteeing exact, centric clamping.



DURO-TA XT - with removable guideways



APPLICATION

On turning and milling machines.

TYPE

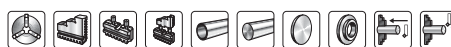
Key bar chuck (DURO-TA) with removable guideways.

CUSTOMER BENEFITS

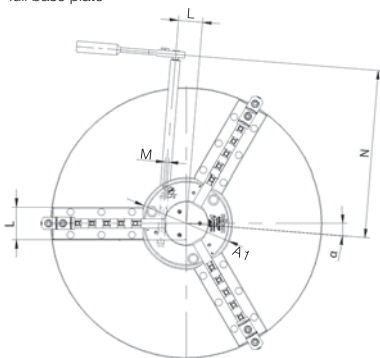
- Weight reduction by up to 75%
- Maximum flexibility and faster retrofitting
- Innovative design with minimum interference contour and maximum stability

TECHNICAL FEATURES

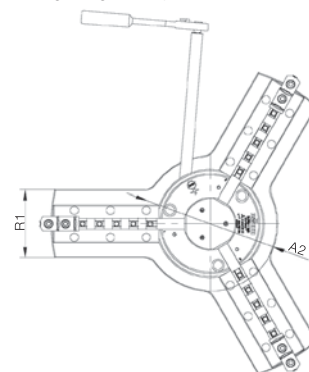
- Weight reduction by up to 75% allows maximum utilization of the machine potential and the clamping of heavier workpieces
- Flexible clamping range thanks to elongated guideways for faster conversion between large and small workpieces
- Easy dismounting of the guideways for clamping smaller workpieces
- Minimum interference contour and better workpiece accessibility thanks to compact design and a reduced design height by up to 78%
- High stability thanks to direct support of the permanently screwed guideways



full base plate



max. lightweight base plate



A08

DURO-TA XT key bar chuck with complete base plate

Item no.	Size	Clamping range external with extended jaws *	Clamping range external with standard jaws **	Interfering contour mm	Jaw travel mm	Weight kg	Speed max. min ⁻¹	Max. Torque Nm	Max. total clamping force kN	Weight reduction compared to a standard chuck %
180312▲	750 (250)	145-715	8-253	804 / 769	8	183	800	190	185	75
180313▲	1000 (315)	220-995	12-323	1082 / 1014	10,2	365	570	210	190	68
180314	1250 (500)	220-1190	40-501	1305	12,5	640	570	320	290	65

Customized adaptations of the base plate for further weight reduction on the machine table on request

* By dismounting of the stripping cap and use of standard reversible jaws

** By shortening of the base jaws. Please consider shorter clamping ranges

Further sizes and mountings available on request

Jaws DURO-TA XT

A28

One-piece jaw EB, 3-jaw set, diagonally toothing, hardened



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
094002	750 (250)	3	set	114	70	26
094003	1000 (315)	3	set	130	79	32
094043	1250 (500)	3	set	167	93	45

Additionally or later applied, hardened stepped jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.
Jaws only usable in basic chuck.

A28

Unstepped jaw BL, 3-jaw set diagonally toothing, unstepped, soft, material 16MnCr5



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
249679	750 (250)	3	set	118,7	70	26
249680	1000 (315)	3	set	136,6	79	32
249681	1250 (500)	3	set	173,6	93	45

Jaws only usable in basic chuck.

A28

Reversible top jaw UB, 3-jaw set, hardened tongue and groove for external and internal clamping, material 16 MnCr5



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
094014	750 (250)	3	set	92	50	34,4
094015	1000 (315)	3	set	107	56	35,7
094045	1250 (500)	3	set	130	72	50,4

Additionally or later applied hardened jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.
Jaws only usable in basic chuck.

A28

Base jaw GB, 3-jaw set, diagonally toothing, with mounting bolts



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw width mm
094006	750 (250)	3	set	110	26
094007	1000 (315)	3	set	125	32
094044	1250 (500)	3	set	160	45

Jaws only usable in basic chuck.

C 21

Draw-down jaws, for interchangeable clamping inserts, diagonally toothing, 1 piece, without clamping inserts



Item no.	Chuck Size	Jaw length mm	Jaw height mm	Jaw width mm
141041	750 (250)	118,7	58,5	26
141043	1000 (315)	136,4	63,9	32
141045	1250 (500)	173,6	73,4	45

Jaws only usable in basic chuck.

C 21

Draw-down jaws, additional clamping range, for interchangeable clamping inserts, diagonally toothing, 1 piece, without clamping inserts



Item no.	Chuck Size	Jaw length mm	Jaw height mm	Jaw width mm
141042	750 (250)	118,7	58,5	26
141044	1000 (315)	136,4	63,9	32
141048	1250 (500)	173,6	73,4	45

Jaws only usable in basic chuck.

Jaws DURO-TA XT

C 15

Interchangeable clamping inserts, 1 piece, with claws

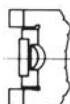


Item no.	Chuck Size
141052	750 (250)/1000 (315)
141055 ▲	1250 (500)

Jaws only usable in basic chuck.

C 15

Interchangeable clamping inserts, 1 piece, with serrated toothing

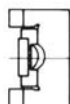


Item no.	Chuck Size
141053	750 (250)/1000 (315)
141056 ▲	1250 (500)

Jaws only usable in basic chuck.

C 15

Interchangeable clamping inserts, 1 piece, with heat treatable surface



Item no.	Chuck Size
141054	750 (250)/1000 (315)
141057 ▲	1250 (500)

Jaws only usable in basic chuck.

A28

Reversible top jaw UB, 3-jaw set, hardened tongue and groove for external and internal clamping, material 16 MnCr5



Item no.	Number of jaws	Contents of delivery	Jaw length mm	Jaw width mm
180410 ▲	3	set	92	34,4
180411 ▲	3	set	107	35,7
180412 ▲	3	set	130	50,4

Additionally or later applied hardened jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.

A28

Unstepped top jaw AB, 3-jaw set, standard design, soft, material 16 MnCr5



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
094010	750 (250)	3	set	125	50	30,4
094011	1000 (315)	3	set	145	50	34,3
094046	1250 (500)	3	set	180	73	50,5

C 21

Reversible claw-type top jaws, standard design, tongue and groove, large clamping range, 1 piece, hardened



Item no.	Chuck Size	Jaw length mm	Jaw height mm	Jaw width mm
137119	1250 (500)	124	62	50

Jaws DURO-TA XT

C 21

Reversible claw-type top jaws, standard design, tongue and groove, medium clamping range, 1 piece, hardened



Item no.	Chuck Size	Jaw length mm	Jaw height mm	Jaw width mm
137109	750 (250)	72	55	34
137115	1000 (315)	86	62	34
137121	1250 (500)	100	62	50

C 21

Reversible claw-type top jaws, standard design, tongue and groove, small clamping range, 1 piece, hardened



Item no.	Chuck Size	Jaw length mm	Jaw height mm	Jaw width mm
137108	750 (250)	90	55	34
137114	1000 (315)	100	62	34
137120	1250 (500)	124	62	50

C 21

Reversible claw-type top jaws, large design, tongue and groove, small clamping range, 1 piece, hardened



Item no.	Chuck Size	Jaw length mm	Jaw height mm	Jaw width mm
137110	750 (250)	80	55	50
137116	1000 (315)	93	62	50

C 21

Reversible claw-type top jaws, large design, tongue and groove, medium clamping range, 1 piece, hardened



Item no.	Chuck Size	Jaw length mm	Jaw height mm	Jaw width mm
137112	750 (250)	72	55	50
137118	1000 (315)	86	62	50

C 21

Reversible claw-type top jaws, large design, tongue and groove, large clamping range, 1 piece, hardened



Item no.	Chuck Size	Jaw length mm	Jaw height mm	Jaw width mm
137111	750 (250)	90	55	50
137117	1000 (315)	106	62	50

Accessories DURO-TA XT

C15 Special grease F80 for lathe chucks

For lubrication and conservation of chucking power



Item no.	Design	Contents
308555	Cartridge	0,5 kg
028975	Tin	1 kg

C15 Torque wrench



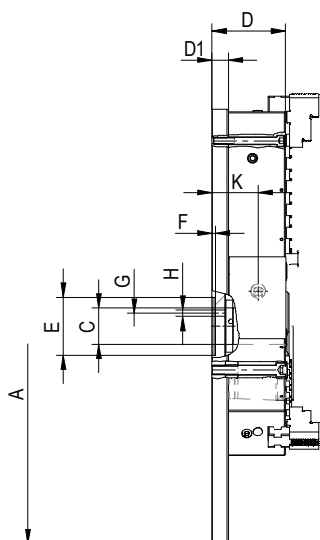
Item no.	Torque Nm	Length mm	Output	Working accuracy
10004116	20-120	435	12,7=1/2"	3%
10004117	60-320	659	12,7=1/2"	3%

A08 Safety adapter



Item no.	Size	Square	Length mm	Mount
1129759	750 (250)	14	186	1/2"
1129449	1000 (315)	17	192	1/2"
1111583	1250 (500)	19	220	1/2"

Technical data DURO-TA XT

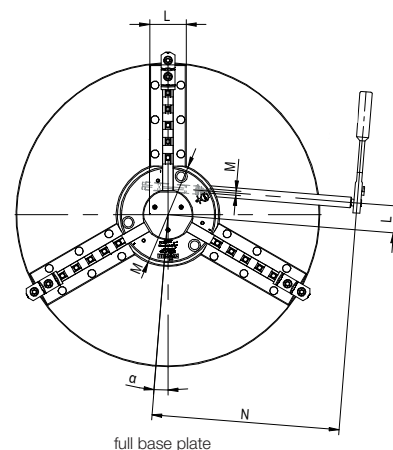


Chuck size A		750	1000	1250
Outer diameter Chuck	A1	256	322	507
Outer diameter Base plate	A2	320	400	590
Jaw movement	B	8	10,2	12,5
Bore ¹⁾	C	62	87	162
	D	127	152	160
	D ¹	28	34	35
	EH6	100	100	100
	F	6	6	6
	G	45	45	45
	H	11	11	11
	K	79,5	98,0	97,5
	L	66,5	86	152,5
	M	SW14	SW17	SW19
	N	464	565	724
	R	90	100	130
	R1	160	180	210
	S	370	495	615
Moment of inertia GD2 ²⁾	kgm ²	10,52	37,92	98,70
Moment of inertia GD2 ^{2) 3)}	kgm ²	5,66	18,10	48,93
	α	4,6°	4,6°	4,5°
approx. kg	kg	183	365	640
approx. kg ³⁾	kg	127	233	436

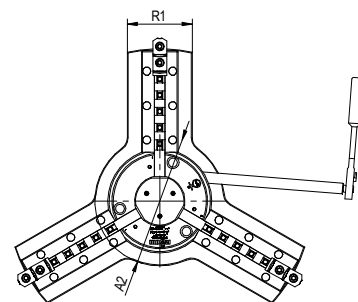
1) With dirt cover

2) The moment of inertia was measured with base jaws but without top jaws

3) With max. lightweight base plate



full base plate



max. lightweight base plate

Technical data
DURO-TA XT

Max. permissible speed

The maximum permissible speed has been fixed so that 1/3 of the gripping force is still available as residual gripping force if the maximum gripping is applied and the chuck is fitted with its heaviest jaws. The jaws may not project beyond the outside diameter of the chuck. The chuck must be in perfect condition. The specification DIN 6386 Part 1 shall be observed.

Chuck size		750	1000	1250
Max. speed	min ⁻¹	800	570	450

Gripping force

The gripping force is the sum total of all jaw forces acting radially on the stationary workpiece. The specified gripping forces are standard values. They apply to chucks in a perfect condition which have been lubricated with RÖHM grease F79 and F80.

Chuck size		750	1000	1250
Torque applied on key 1)	Nm	70	80	100
Total gripping force 1)	kN	66	80	102
Torque applied on key	Nm	190	210	320
Max. total gripping force	kN	185	240	290

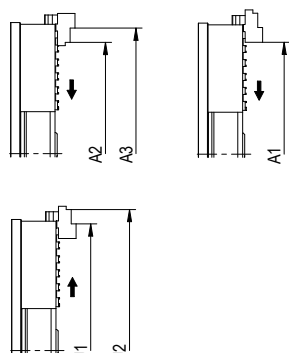
1) Maintaining the accuracy

At this torque the clamping jaws have been ground at the factory; for testing the chuck must be clamped with this torque

Chuck capacities of jaw steps

Chuck size		750	1000	1250
External chucking	A1	144-618	215-864	215-1140
	A2	144-638	330-890	199-1159
	A3	224-719	223-995	340-1200
Internal chucking	J1	227-700	298-946	318-1141
	J2	307-780	404-1052	459-1282
max. interfering contour		808/**773	1086/**1018	1309

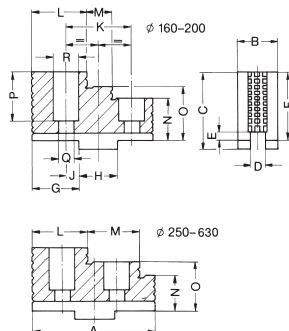
** By shortening of the base jaws. Please consider shorter clamping ranges.



Jaw dimensions DURO-TA XT

Reversible top jaw **UB**, completely hardened, cross tenon ground, jaw steps not ground

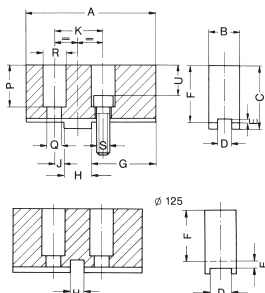
Jaws only usable in basic chuck.



Chuck size	750	1000	1250
A	92	107	130
B	34,4	35,7	50,4
C	55	62	79
D	12	12	18
E	3,5	3,5	4,5
F	50	56	72
G	30	35,5	41,4
H	20	26	30
J	10	14	15
K	40	54	60
L	41	40	51
M	40,5	54	71
N	22	26	32
O	36	41	52
P	39	40	57
Q	14	14	18
R	20	20	26
T ¹⁾	57	63,6	80,6
Jaw approx. kg	0,800	1,135	2,535

1) Dimension marked on base jaw

Unstepped soft top jaw **AB**, for turning out special chucking diameters

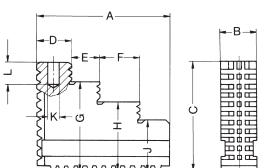


Dimensions for extendend design

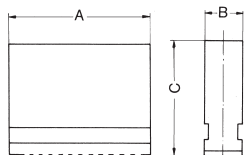
Chuck size	750		1000		1250
A	125	125	145	145	180
B	30,4	50,5	34,3	50,5	50,5
C	55	80	56	80	80
D	12	12	12	12	18
E	3,5	3,5	3,5	3,5	4,5
F	50	75	50	74	73
G	70	70	74	74	100
H	20	20	26	26	30
J	10	10	14	14	15
K	40	40	54	54	60
P	39	54	34	48	58
Q	14	14	14	14	18
R	20	20	20	20	26
S	M12x1,5	M12x1,5	M12x1,5	M12x1,5	M16x1,5
T ¹⁾	57	72	57,6	71,6	81,6
U	27	42	22	36	42
Jaw approx. kg	1,500	3,700	2,265	4,800	4,500

1) Dimension marked on base jaw

Reversible one-piece jaw **EB**, hardened and ground, jaw steps not ground
Jaws only usable in basic chuck.



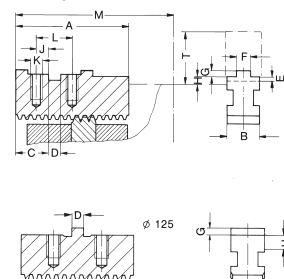
Blockbacken **BL**, ungestuft, ungehärtet, Verzahnung und Führung gehärtet und geschliffen. Jaws only usable in basic chuck.



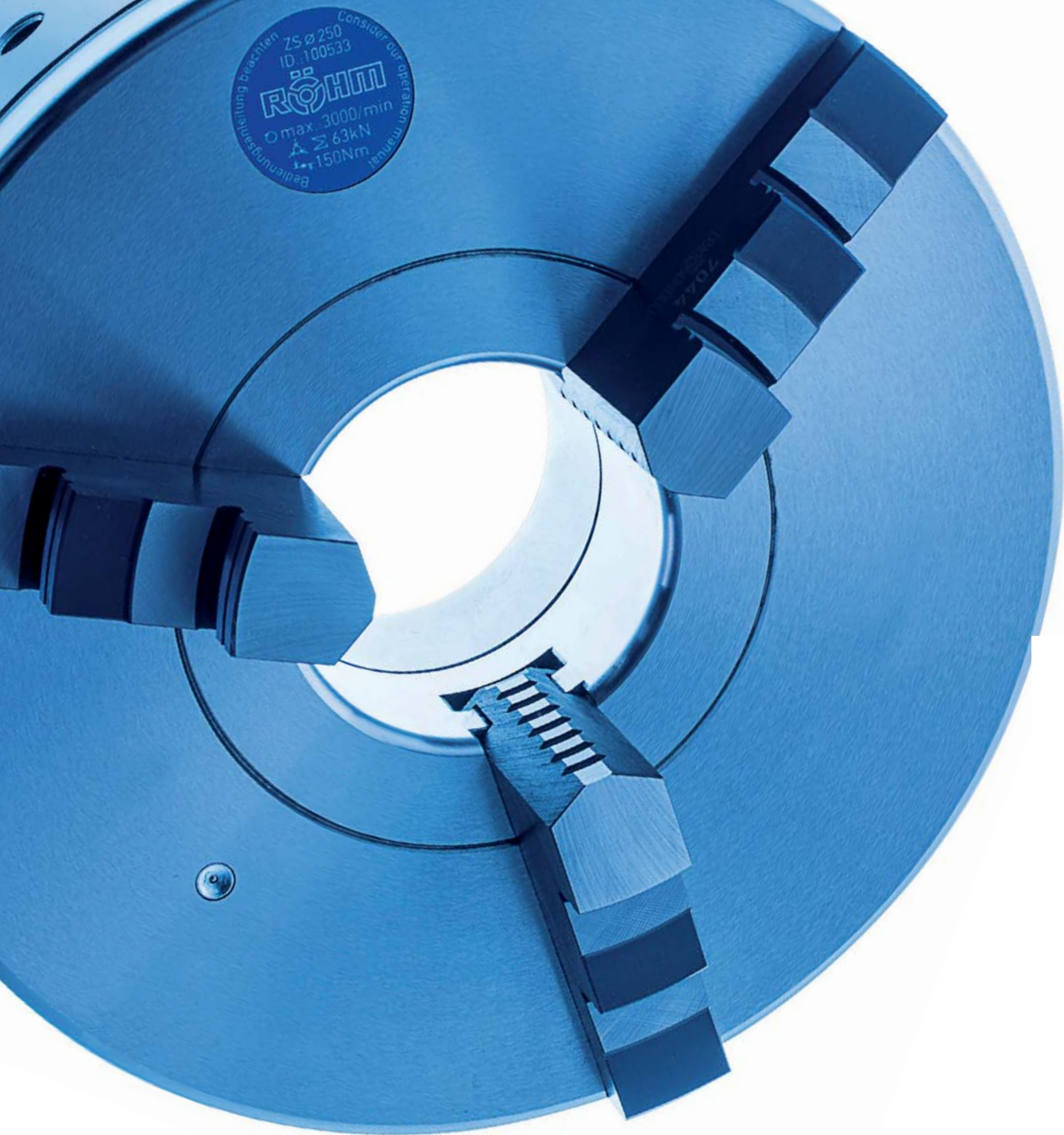
Chuck size	750	1000	1250
A	114	130	167
B	26	32	45
C	70	79	93
D	41,5	40,2	50,5
E	40,3	54	71
F	-	-	-
G	56	64	73
H	-	-	-
J	42	49	53
K	13	13	20
L	19,5	19,5	30
Jaw approx. kg	1,135	1,835	3,665

Chuck size	750	1000	1250
A	118,7	136,6	173,6
B	26	32	45
C	70	79	93
Jaw approx. kg	1,535	2,400	5

Base jaws **GB**, hardened and ground
Jaws only usable in basic chuck.



Chuck size	750	1000	1250
A	110	125	160
B	26	32	45
C	26	30	35
D	20	26	30
E	5,5	6,5	7,5
F	12	12	18
G	3	3	4
H	7	7,6	8,6
J	10	14	15
K	M12x1,5	M12x1,5	M16x1,5
L	40	54	60
M	163	196	250 294
Jaw approx. kg	0,700	1,065	2,350



PROVEN CHUCK WITH SPIRAL RING

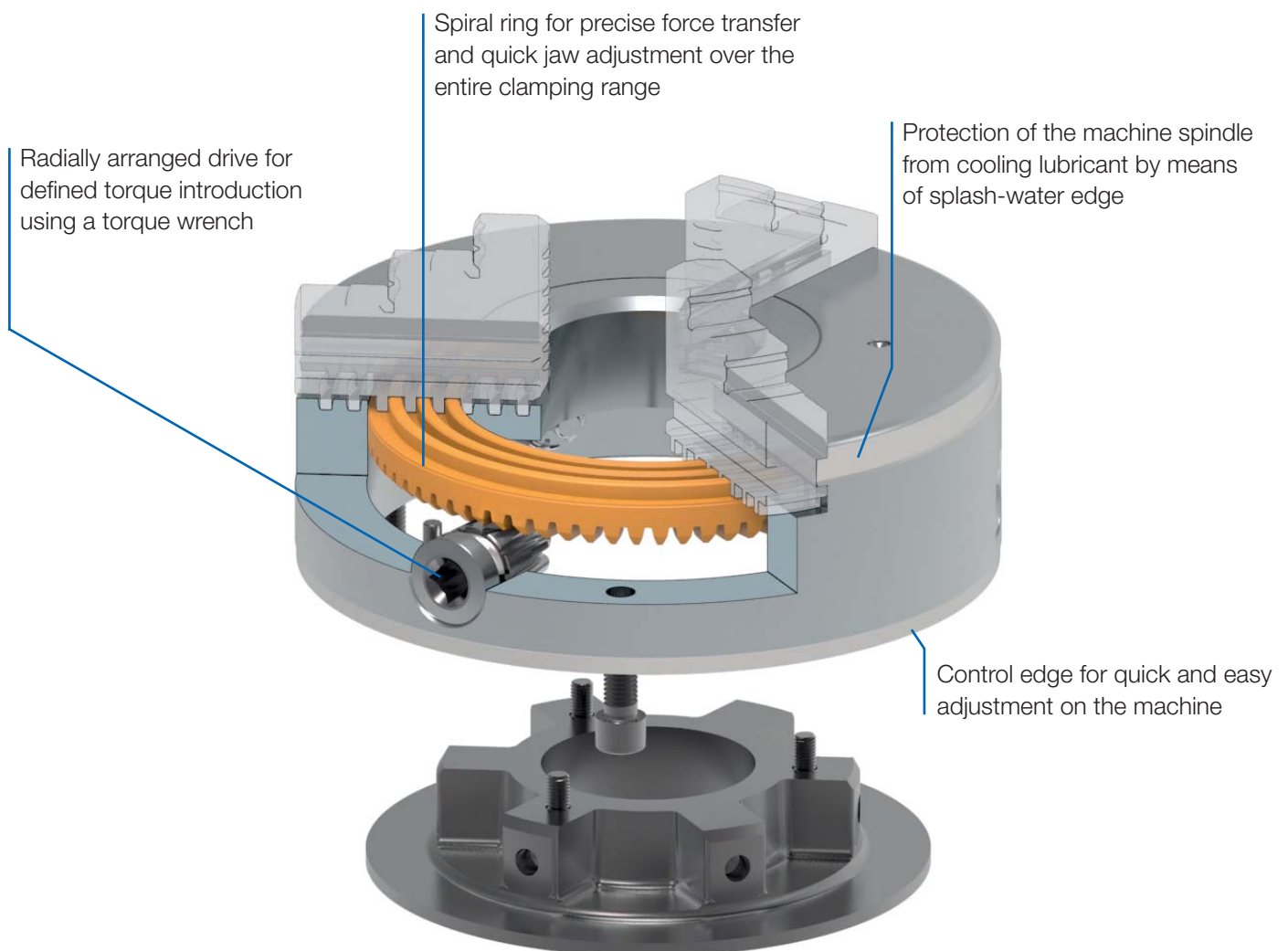
The RÖHM geared scroll chucks have already been in use for decades and have proven themselves a thousand times over. The jaws can be quickly adjusted over the entire clamping range by means of the spiral ring. Using the radially arranged drive, the force is transferred to the hardened spiral ring via a bevel gearing and further conducted to the clamping jaws via the spiral.

GEARED SCROLL CHUCKS

The RÖHM geared scroll chucks have proven themselves a thousand times over and have already been used successfully on lathes, rotary tables and dividing attachments for decades. The jaws can be adjusted over the entire clamping range in order to be able to very quickly clamp workpieces with a wide clamping diameter range without offsetting the jaws.

ADVANTAGE AT A GLANCE

- ⊕ Quick jaw adjustment over the entire clamping range
- ⊕ Proven chuck with optimal price/performance ratio
- ⊕ Protection of the machine spindle by means of splash-water edge



ZS - ZSU - centric clamping

APPLICATION

Proven geared scroll chuck for use in areas requiring high clamping forces, high concentricity as well as reliable long-term repeatability. For universal use on lathes, rotary tables, dividing units, etc.

TYPE

Geared scroll chucks in steel design.
3-jaw and 4-jaw version.

CUSTOMER BENEFITS

- High clamping force
- Special flat design for minimum interfering contours
- The jaws can be adjusted over the entire clamping range by turning the key. This allows workpieces with different clamping diameters to be quickly clamped
- Jaws in chuck ground out for concentricity

TECHNICAL FEATURES

- With one-piece jaws or with base and top jaws
- Steel body and spiral ring die-forged
- Series-balanced and hardened

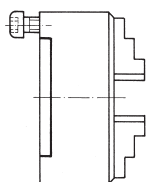
ZS = centric clamping, steel

ZSU = centric clamping, steel, reversible top jaws



A09

DIN 6350, cylindrical centre mount, form A



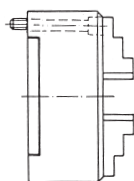
Size	ZA	Through-hole mm	3-jaw chuck with inside and outside jaw	4-jaw chuck with inside and outside jaw	3-jaw chuck with base and reversible top jaw	4-jaw chuck with base and reversible top jaw	Speed max. min ⁻¹	Torque Nm	Total clamping force kN
80	56	19	102513	102505	-	-	7000	30	13
100	70	20	101782	102130	101788	102136 ▲	6300	60	27
125	95	32	101672	106075	101678	106081	5500	80	31
160	125	42	100717	101164	100725	101170 ▲	4600	110	47
200	160	55	100186	100466	100189	100484 ▲	4000	140	55
250	200	76	100533	101030	100541	101036 ▲	3000	150	63
315	260	103	101344	101598	101350	101901 ▲	2300	180	69
400	330	136	102062	102330 ▲	102068 ▲	102336	1800	240	92
500	420	190	102555 ▲	103340	102585 ▲	103346	1300	260	100
630	545	240	102720 ▲	102856	102726	102862	850	280	105
800	710	380	-	-	104913 ▲	104917 ▲	700	300	110
1000	910	460	-	-	104925	104929 ▲	560	450	115
1250	910	550	-	-	104941	104945	450	450	115

Further sizes and mountings available on request

Geared scroll chucks in 6-jaw design available on request

A09

Mounting from front, DIN 6350, cylindrical centre mount



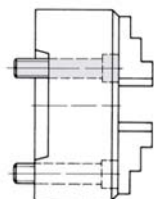
Size	ZA	Through-hole mm	3-jaw chuck with inside and outside jaw	4-jaw chuck with inside and outside jaw	Speed max. min ⁻¹	Torque Nm	Total clamping force kN
125	95	32	120155	124447 ▲	5500	80	31
160	125	42	115568	125802 ▲	4600	110	47
200	160	55	113158	113160	4000	140	55
250	200	76	114304	114306 ▲	3000	150	63
315	260	103	120270	129946 ▲	2300	180	69
400	330	136	123475 ▲	134401 ▲	1800	240	92
500	420	190	127616 ▲	123465 ▲	1300	260	100
630	545	240	128545 ▲	135061 ▲	850	280	105

Further sizes and mountings available on request

ZS - ZSU - centric clamping

A09

ISO 702-1 (DIN 55026), DIN 55021, ASA B 5.9, A1/A2 metr.; mounting from front

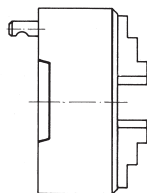


Size	Mount short taper	Through-hole mm	3-jaw chuck with inside and outside jaw	4-jaw chuck with inside and outside jaw	3-jaw chuck with base and reversible top jaw	4-jaw chuck with base and reversible top jaw	Speed max. min ⁻¹	Torque Nm	Total clamping force kN
160	5	42	100753 ¹⁾ ▲	101196▲	100757▲	101199▲	4600	110	47
200	5	42	100168 ¹⁾ ▲	101446▲	100172▲	101452▲	4000	140	55
200	6	55	100173 ¹⁾ ▲	101454▲	100177▲	101460▲	4000	140	55
250	5	76	100571▲	101064▲	100580▲	101073▲	3000	150	63
250	6	55	100567 ¹⁾ ▲	101062▲	100578▲	101071▲	3000	150	63
250	8	76	100569 ¹⁾ ▲	101063▲	100579▲	101072▲	3000	150	63
315	6	103	101376▲	101931▲	101385▲	101937▲	2300	180	69
315	8	76	101377 ¹⁾ ▲	101939▲	101386▲	101945▲	2300	180	69
350	6	103	114643▲	127557▲	127848▲	127850▲	1900	210	74
350	8	76	117319 ¹⁾ ▲	117320▲	127847▲	127849▲	1900	210	74
400	8	136	102226▲	102353▲	102232▲	102359▲	1800	240	92
400	11	125	102234 ¹⁾ ▲	102361▲	102240▲	102367▲	1800	240	92
500	11	190	102562▲	102979▲	102568▲	102985▲	1300	260	100
630	11	190	102768▲	102896▲	102774▲	103002▲	850	280	105
630	15	190	102784 ¹⁾ ▲	103012▲	102790▲	103018▲	850	280	105

¹⁾ Mounting from front in the inner bolt circle

A09

ISO 702-2 (DIN 55029), ASA B 5.9, type D, with studs for Camlock

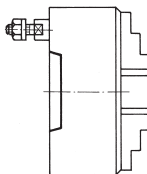


Size	Mount short taper	Through-hole mm	3-jaw chuck with inside and outside jaw	4-jaw chuck with inside and outside jaw	3-jaw chuck with base and reversible top jaw	4-jaw chuck with base and reversible top jaw	Speed max. min ⁻¹	Torque Nm	Total clamping force kN
125	4	32	108895	109208	105870	105872	5500	80	31
160	4	42	108897	109210▲	105882▲	105886▲	4600	110	47
160	5	42	109150▲	109213▲	105898	106302	4600	110	47
200	5	55	109151	109214	106330	106334	4000	140	55
200	6	55	109154	109217	106346▲	106350	4000	140	55
250	6	76	109155	109218	106386▲	106390▲	3000	150	63
250	8	76	109159	109222▲	106402	106406	3000	150	63
315	6	103	109156▲	109219	106442	106446▲	2300	180	69
315	8	103	109160	109223▲	106458▲	106462	2300	180	69
315	11	103	109165	109228	106474	106478	2300	180	69
400	8	136	109161▲	109224	106498	106602	1800	240	92
400	11	136	109166▲	109229	106614	106618	1800	240	92
500	11	190	109167▲	109230▲	103274▲	106646▲	1300	260	100
500	15	190	109170▲	109233▲	103275▲	103271▲	1300	260	100
630	11	192,7	109168▲	109231▲	106658▲	106662▲	850	280	105
630	15	240	109171▲	109234▲	103328▲	106251▲	850	280	105

Further sizes and mountings available on request

A09

ISO 702-3 (DIN 55027), with studs and locknuts, optional DIN 55021 with set screw and nut



Size	Mount short taper	Through-hole mm	3-jaw chuck with inside and outside jaw	4-jaw chuck with inside and outside jaw	3-jaw chuck with base and reversible top jaw	4-jaw chuck with base and reversible top jaw	Speed max. min ⁻¹	Torque Nm	Total clamping force kN
125	4	32	101692	107015	101695	107021	5500	80	31
160	4	42	100740	101184	100743▲	101187	4600	110	47
160	5	42	100744	101188	100747▲	101191	4600	110	47
200	5	55	100152	100472	100155▲	101420▲	4000	140	55
200	6	55	100156	101422	100159	101428▲	4000	140	55
250	6	76	100555	101050	100564	101059	3000	150	63
250	8	76	100556	101051	100565▲	101060▲	3000	150	63
315	6	103	101364	101919▲	101373▲	101922	2300	180	69
315	8	103	101365	101923▲	101374▲	101926	2300	180	69
315	11	103	101366▲	101927▲	101375▲	101930▲	2300	180	69
400	8	136	102202	101876▲	102208	101882	1800	240	92
400	11	136	102210▲	101884▲	102216▲	101890	1800	240	92
500	11	190	102548▲	102971▲	102554▲	102977▲	1300	260	100
500	15	190	102915▲	103227▲	102921▲	103233▲	1300	260	100
630	11	192,7	102752▲	102888▲	102758▲	102894▲	850	280	105
630	15	240	102760▲	103084▲	102766▲	103090▲	850	280	105

Further sizes and mountings available on request

Jaws ZS - ZSU

A09

Inside jaw BB, DIN 6350, outward stepped jaw, hardened



Chuck Size	3-jaw set	4-jaw set	Jaw length mm	Jaw height mm	Jaw width mm
80	110155	110063	37	26	12
100	110156	110064	48	33,5	14
125	110157	110065	52	41,5	18
160	110159	110067	61	47,5	18
200	110160	110068	69	53,5	20
250	110161	110069	90	67,5	24
315	110162	110070	130	79,5	34

Additionally or later applied, hardened stepped jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.

Jaws ZS - ZSU

A09

Outside jaw DB, DIN 6350, inward stepped jaw, hardened



Chuck Size	3-jaw set	4-jaw set	Jaw length mm	Jaw height mm	Jaw width mm
80	110165	110073	37	26	12
100	110166	110074	48	33,5	14
125	110167	110075	52	41,5	18
160	110169	110077	61	47,5	18
200	110170	110078	69	53,5	20
250	110171	110079	90	67,5	24
315	110016	110080	130	79,5	34
350/400	110017	110081	130	79,5	34
500/630	110018	110082	190	95	42

Additionally or later applied, hardened stepped jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.

A09

Unstepped jaw BL, DIN 6350, unstepped, soft, material 16MnCr5



Chuck Size	3-jaw set	4-jaw set	Jaw length mm	Jaw height mm	Jaw width mm
80	107588	107598	37	26	12
100	107589	107599	48	33,5	14
125	107590	107600	52	41,5	18
160	107592	107602	61	47,5	18
200	107593	107603	69	53,5	20
250	107594	107604	90	67,5	24
315	107595	107605	130	79,5	34
350/400	107596	107644	130	79,5	34
500/630	107597	107645	190	95	42

Jaws ZS - ZSU

A09

Base jaw GB, DIN 6350, with fixing screw



Chuck Size	3-jaw set	4-jaw set	Jaw length mm	Jaw width mm
100	107500	107542	46	14
125	107501	107543	55	18
160	107503	107545	65	18
200	107504	107546	78	20
250	107505	107547	92	24
315	107506	107548	108	34
350/400	107507	107549	127	34
500	107508	107550	165	42
630	107509	107551	203	42
800	105272	141616	291	55
1000	105274	141611	329	55
1250	105275	141614	367	55

A09

Reversible top jaws UB, DIN 6350, hardened tongue and groove for external and internal clamping, material 16 MnCr5



Chuck Size	3-jaw set	4-jaw set	Jaw length mm	Jaw height mm	Jaw width mm
100	108045	108053	47	29,5	22
125	108046	108054	56	37,5	26
160	107936	107938	66,7	41,5	28
200	107937	107939	79,5	42,5	30
250	108049	108057	95,3	52,5	36
315	108050	108058	109,5	57,5	42
350/400	108051	108059	127	64,5	42
500/630	108052	108060	127	79,5	50
800	105081	105085	210	89	68
1000/1250	105098	105101	210	110	68

Additionally or later applied, hardened stepped jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.

A09

Unstepped top jaw AB, DIN 6350, soft, material 16MnCr5



Chuck Size	3-jaw set	4-jaw set	Jaw length mm	Jaw height mm	Jaw width mm
100	107633	107641	53	30	22,5
125	107634	107642	62	38	26,5
160	108581	108583	74	42	28,5
200	108582	108584	87	43	30,5
250	107637	107579	103	53	36,5
315	107638	107580	120	58	42,5
350/400	107639	107581	137	65	42,5
500/630	107640	107582	140	80	50,5
800	105103	105105	210	89	68
1000/1250	105107	105109	210	110	68

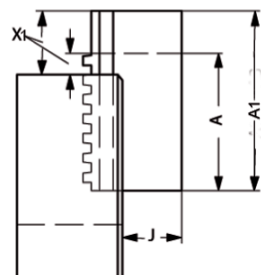
Jaws ZS - ZSU

A09

Unstepped jaw BL, special length, soft, material 16MnCr5, DIN 6350



Chuck Size	3-jaw set	4-jaw set	A1 mm	X1 max.	A mm	J mm	X max. mm
200	130031	137073	100	50	69	32,5	19
250	132658	137074	120	56	90	41	26
315	132184	129894	160	70	130	46	40
350/400	137075	130442	160	70	130	42	40
500/630	131540	137076	220	80	190	55	50
200	130033	137077	120	70	69	32,5	19
250	128880	130610	140	76	90	41	26
315	118908	137078	200	110	130	46	40
350/400	137079	137080	200	110	130	42	40
500/630	137081	137082	280	140	190	55	50
315	121367	133691	250	160	130	46	40
350/400	137087	137088	250	160	130	42	40



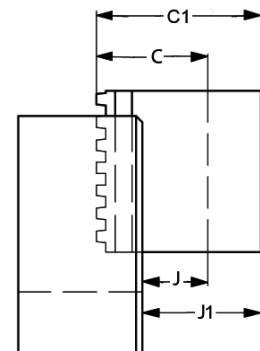
Jaws ZS - ZSU

A09

Unstepped jaw BL, special height, soft, material 16MnCr5, DIN 6350



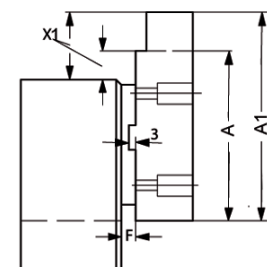
Chuck Size	3-jaw set	4-jaw set	C1 mm	J1 mm	C mm	J mm
200	125710	132972	80	58,5	54	32,5
250	122188	134796	100	73	68	41
315	132186	137091	110	76	80	46
350/400	137092	131655	110	72	80	42
500/630	137093	137094	150	110	95	55
200	125712	137095	120	98,5	54	32,5
250	122189	130630	130	103	68	41
315	137096	137097	140	106	80	46
350/400	137098	137099	140	102	80	42
500/630	125117	137100	200	160	95	55
200	125714	137101	150	128,5	54	32,5
250	137102	137103	150	123	68	41
315	137104	130340	160	126	80	46
350/400	132879	110109	160	122	80	42



Jaws ZS - ZSU

A09

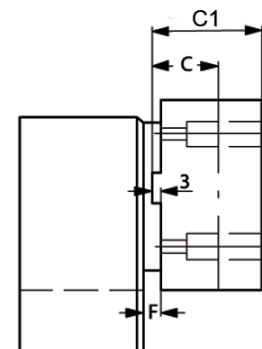
Top jaw AB, special length, soft, material 16MnCr5, DIN 6350



Chuck Size	3-jaw set	4-jaw set	A1 mm	X1 max.	F mm	A mm	X max. mm
200	110086	148139	100	43	6,8	87	30
250	112122	129289	130	63	8	103	36
315	110624	143764	160	76	5,5	120	36
350/400	110626	141277	160	53	8,5	137	30
500/630	103014	103393	170	75	8,5	140	45
200	112120	148657	120	63	6,8	87	30
250	125428	128700	150	83	8	103	36
315	112091	147754	200	116	5,5	120	36
350/400	112118	141263	200	93	8,5	137	30
500/630	110632 ▲	148234	220	125	8,5	140	45
250	104710	146013	180	113	8	103	36
315	112089	147860	250	166	5,5	120	36
350/400	103654	149974	260	153	8,5	137	30
500/630	112127	148235	280	185	8,5	140	45

A09

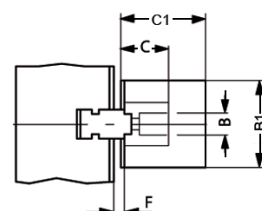
Top jaw AB, special height, soft, material 16MnCr5, DIN 6350



Chuck Size	3-jaw set	4-jaw set	C1 mm	C mm	F mm
200	132155	132181	60	43	6,8
250	119645	135867	70	53	8
315	110435	149975	80	58	5,5
350/400	126385	118373	90	65	8,5
500/630	128590	149985	100	80	8,5
200	128564	149976	80	43	6,8
250	128571	134999	100	53	8
315	110437	129691	110	58	5,5
350/400	110628	135426	120	65	8,5
500/630	110630	149977	130	80	8,5
250	128573	149978	150	53	8
315	128569	141671	150	58	5,5
350/400	128567	139591	160	65	8,5
500/630	128588	140427	160	80	8,5

A09

Top jaw AB, special width and height, soft, material 16MnCr5, DIN 6350



Chuck Size	3-jaw set	4-jaw set	B1 mm	C1 mm	B mm	C mm
200	105057	105061	40	70	30,5	43
250	137090	141338	50	80	36,5	53
315	143053	149979	60	90	42	58
350/400	131567	149980	60	90	42,5	65
500/630	137084	149981	80	110	50,5	80
200	133259	149982	50	80	30,5	43
250	133653	137526	60	90	36,5	53
315	143057	149983	80	110	42	58
350/400	137086	149984	80	110	42,5	65

Jaws ZS - ZSU

C15

Mounting bolt for top jaws, bolt 1



Item no.	Size	Thread	Contents of delivery
249299	100	M6x20	piece
236949	125	M8x25	piece
334571	160/200	M8x30	piece
233025	250	M12x40	piece
233026	315	M12x45	piece
220565	350/400	M16x50	piece
249003	500/630	M20x80	piece

C15

Mounting bolt for top jaws, bolt 2



Item no.	Size	Thread	Contents of delivery
216528	100	M6x16	piece
233058	125/160/200	M8x20	piece
227692	250	M12x25	piece
233030	315	M12x30	piece
220564	350/400	M16x35	piece
233047	500/630	M20x40	piece

Accessories ZS - ZSU

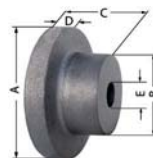
A09 Base plates for lathe chucks with cylindrical centre mount, DIN 6350



Item no.	Size	Thread
162793	160	6xM10
162401	200	6xM10
163036	250	6xM12
133705	315	6xM16

A09 Unfinished adapter plates for cylindrical mount

The unfinished back plate must be machined and fitted on both machine and chuck side



Item no.	Size	Inch	A mm	B mm	C mm	D mm	E mm
017123▲	74	3	80	56	45	15	-
017113▲	80	3 ¼	92	56	47	15	20
017114	100	4	120	80	58	20	25
017115	125	5	135	80	58	20	25
017125▲	140	5 ½	150	80	58	20	25
017116	160	6 ¼	170	80	58	20	30
017117	200	8	210	92	66	22	40
017118▲	250	10	260	105	92	25	50
017119▲	315	12 ½	330	165	100	30	50
017124▲	350	14	365	180	120	30	60

A09 Chip guard, piece



Item no.	Size	Contents of delivery
108500	80/85	piece
108501	100/110	piece
108502	125	piece
108503	140/160	piece
108504	200	piece
108505	250	piece
108506	315/350/400	piece
108508	500/630	piece

A09 Special grease F80 for lathe chucks

For lubrication and conservation of chucking power



Item no.	Design	Contents
308555	Cartridge	0,5 kg
028975	Tin	1 kg

A09 Scroll



Item no.	Size
102521	74
102183	80/85
101754	100
112660	110
101721	125
105827	140
100303	160
100003	200
100203	250
101552	315
105228	350
102497	400
162973	500
162964	630

A09 Driving pinion



Item no.	Size	Square
102522	74	6
102184	80	6
113198	85	6
101755	100	8
112662	110	8
101722	125	9
105828	140	9
100304	160	10
100005	200	11
100204	250	12
112267	270	12
101553	315	14
105229	350	14
102498	400	17
162974	500	19
162965	630	19

A09 Pinion holder screw



Item no.	Size
102523	74
102185	85
100305	100/125/160
100006	200/250
101554	315
102499	400
103300	500/630

A09 Standard key



Item no.	Size	Square	Hexagon	Length mm
006325	74	-	6	55
107426	80/85	6	-	62
107427	100/110	8	-	75
107428	125/140	9	-	80
107429	160	10	-	90
107430	200/230	11	-	100
107431	250/270	12	-	100
107432	315	14	-	110
107433	350	14	-	140
107434	400	17	-	140
107435	500/630	19	-	150

Accessories ZS - ZSU

A09 Safety key with ejector



Item no.	Size	Square	Length mm
154370 ▲	80/85	6	110
154371	100/110	8	130
154372	125/140	9	130
154373	160	10	160
154374	200/230	11	160
154375	250/270	12	160
154376	315	14	200
154377	350	14	200
154378	400	17	250
154379 ▲	500/630	19	250

A09 Elongated safety key with ejector



Item no.	Size	Square	Length mm
154683	125/140	9	170
154685	160	10	180
154687	200/230	11	200
154689	250/270	12	200
154695	315	14	250

A09 Safety adapter with ejector

For actuating the chuck with torque (defined torque introduction)



Item no.	Size	Square	Inch
178566 ▲	80/85	6	3/8
178567 ▲	100/110	8	1/2
178568 ▲	125/140	9	1/2
178569 ▲	160	10	1/2
178570	200/230	11	1/2
178571 ▲	250/270	12	1/2
178572	315/350	14	1/2
178573 ▲	400	17	1/2
178574 ▲	500/630/700/800	19	3/4
178575 ▲	1000/1250	24	3/4

A09 Torque wrench



Item no.	Torque Nm	Length mm	Output	Working accuracy
10004116	20-120	435	12,7=1/2"	3%
10004117	60-320	659	12,7=1/2"	3%

C15 Mounting screws

For cylindrical centre rim



Item no.	Size	Thread	Contents of delivery
249299	74-85	M6x20	piece
334571	100-140	M8x30	piece
249301	160-230	M10x35	piece
233025	250-270	M12x40	piece
220565	315-350	M16x50	piece
229183	400-630	M16x60	piece

C15 Mounting screws

For lathe chucks with direct short-taper, for front mounting



Item no.	Size	Thread	Contents of delivery	Chuck Size	Taper size
302195	74	M10x55	piece	160	5
200184	80	M10x65	piece	200	5
233006	85	M12x65	piece	200	6
233075	100	M10x90	piece	250	5
216549	110	M12x70	piece	250	6
302194	125	M16x70	piece	250	8
242954	140	M12x100	piece	315	6
358816	160	M16x85	piece	315	8
243665	200/230	M12x130	piece	350	6
236516	315	M16x110	piece	400	8
615744	350	M20x95	piece	400	11
010210	400	M20x130	piece	500	11
328925	500	M20x145	piece	630	11
367648	630	M24x125	piece	630	15

A09 Set screw with nut, DIN 55021



Item no.	Thread	For taper	Quantity
107453	M10x30	4	3
107455 ▲	M10x35	5	4
107456 ▲	M12x40	6	4
107457 ▲	M16x45	8	4
107458 ▲	M20x55	11	6
127618 ▲	M24x65	15	6

A09 Stud for Camlock ISO 702-2 (DIN 55029) and cylindrical studs



Item no.	Thread	For taper	Quantity
178364 ▲	M10x1	3	3
178365	M10x1	4	3
178366 ▲	M12x1	5	6
178367	M16x1,5	6	6
178368 ▲	M20x1,5	8	6
178369 ▲	M22x1,5	11	6
178370 ▲	M24x1,5	15	6
178371	M27x2	20	6

Accessories ZS - ZSU

A09 Stud and locknut ISO 702-3 (DIN 55027)



Item no.	Thread	Contents of delivery	For taper	Quantity
107447	M10x34	piece	3	3
107448	M10x39	piece	4	3
107449	M10x43	piece	5	4
107450	M12x50	piece	6	4
107451	M16x60	piece	8	4
107452	M20x75	piece	11	6
125650	M24x90	piece	15	6
130636	M24x100	piece	20	6

A09 Stud for Camlock ASA B 5.9 (DIN 55029) and cylindrical studs



Item no.	Thread	For taper	Quantity
107465 ▲	7/16-20x35	3	3
107466	7/16-20x37	4	3
107467	1/2-20x43	5	6
107468	5/8-18x49	6	6
107469	3/4-16x55,5	8	6
107470	7/8-14x67	11	6
127621 ▲	1-14x76	15	6
130637 ▲	1 1/2-12x89	20	6

Orange Line - centric clamping

APPLICATION

Proven geared scroll chuck made of special cast iron for use in areas requiring high clamping forces, high concentricity as well as reliable long-term repeatability. For universal use on lathes, rotary tables, dividing units, etc.

TYPE

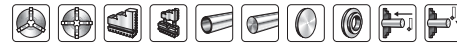
Geared scroll chucks in cast iron design.
Special flat design with direct mounting.
3-jaw and 4-jaw version.

CUSTOMER BENEFITS

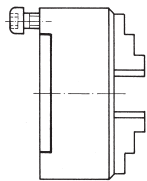
- Optimal price/performance ratio
- Special flat design for minimum interfering contours
- The jaws can be adjusted over the entire clamping range by turning the key. This allows workpieces with different clamping diameters to be quickly clamped
- Jaws in chuck ground out for concentricity

TECHNICAL FEATURES

- With one set each of one-piece outward- and inward stepped jaws
- Vibration-damping body made of special cast iron
- Spiral ring die-forged as well as balanced and hardened

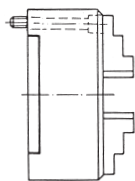


A09
DIN 6350, cylindrical centre mount, form A



Size	ZA	Through-hole mm	3-jaw chuck with inside and outside jaw	4-jaw chuck with inside and outside jaw	Speed max. min ⁻¹	Torque Nm	Total clamping force kN
100	70	20	101781	102129	4500	60	27
125	95	32	101628	106074	4000	80	31
160	125	42	100300	100325	3600	110	47
200	160	55	100000	100465	3000	140	55
250	200	76	100200	100834	2500	150	63
315	260	103	101248	101567	2000	180	69

A09
Mounting from front, DIN 6350, cylindrical centre mount



Size	ZA	Through-hole mm	3-jaw chuck with inside and outside jaw	4-jaw chuck with inside and outside jaw	Speed max. min ⁻¹	Torque Nm	Total clamping force kN
125	95	32	116304 ▲	103053 ▲	4000	80	31
160	125	42	115566 ▲	115570 ▲	3600	110	47
200	160	55	109127 ▲	111339 ▲	3000	140	55
250	200	76	114301 ▲	127916 ▲	2500	150	63
315	260	103	109128 ▲	120743 ▲	2000	180	69

Jaws Orange Line

A09

Inside jaw BB, DIN 6350, outward stepped jaw, hardened


Chuck Size	3-jaw set	4-jaw set	Jaw length mm	Jaw height mm	Jaw width mm
100	110156	110064	48	33,5	14
125	110157	110065	52	41,5	18
160	110159	110067	61	47,5	18
200	110160	110068	69	53,5	20
250	110161	110069	90	67,5	24
315	110162	110070	130	79,5	34

Additionally or later applied, hardened stepped jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.

A09

Outside jaw DB, DIN 6350, inward stepped jaw, hardened


Chuck Size	3-jaw set	4-jaw set	Jaw length mm	Jaw height mm	Jaw width mm
100	110166	110074	48	33,5	14
125	110167	110075	52	41,5	18
160	110169	110077	61	47,5	18
200	110170	110078	69	53,5	20
250	110171	110079	90	67,5	24
315	110016	110080	130	79,5	34

Additionally or later applied, hardened stepped jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.

A09

Unstepped jaw BL, DIN 6350, unstepped, soft, material 16MnCr5


Chuck Size	3-jaw set	4-jaw set	Jaw length mm	Jaw height mm	Jaw width mm
100	107589	107599	48	33,5	14
125	107590	107600	52	41,5	18
160	107592	107602	61	47,5	18
200	107593	107603	69	53,5	20
250	107594	107604	90	67,5	24
315	107595	107605	130	79,5	34

A09

Base jaw GB, DIN 6350, with fixing screw


Chuck Size	3-jaw set	4-jaw set	Jaw length mm	Jaw width mm
100	107500	107542	46	14
125	107501	107543	55	18
160	107503	107545	65	18
200	107504	107546	78	20
250	107505	107547	92	24
315	107506	107548	108	34

A09

Reversible top jaws UB, DIN 6350, hardened tongue and groove for external and internal clamping, material 16 MnCr5


Chuck Size	3-jaw set	4-jaw set	Jaw length mm	Jaw height mm	Jaw width mm
100	108045	108053	47	29,5	22
125	108046	108054	56	37,5	26
160	107936	107938	66,7	41,5	28
200	107937	107939	79,5	42,5	30
250	108049	108057	95,3	52,5	36
315	108050	108058	109,5	57,5	42

Additionally or later applied, hardened stepped jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.

Jaws Orange Line

A09

Unstepped top jaw AB, DIN 6350 soft, material 16MnCr5



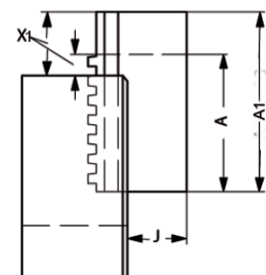
Chuck Size	3-jaw set	4-jaw set	Jaw length mm	Jaw height mm	Jaw width mm
100	107633	107641	53	30	22,5
125	107634	107642	62	38	26,5
160	108581	108583	74	42	28,5
200	108582	108584	87	43	30,5
250	107637	107579	103	53	36,5
315	107638	107580	120	58	42,5

A09

Unstepped jaw BL, special length, soft, material 16MnCr5, DIN 6350



Chuck Size	3-jaw set	4-jaw set	A1 mm	X1 max.	A mm	J mm	X max. mm
200	130031	137073	100	50	69	32,5	19
250	132658	137074	120	56	90	41	26
315	132184	129894	160	70	130	46	40
200	130033	137077	120	70	69	32,5	19
250	128880	130610	140	76	90	41	26
315	118908	137078	200	110	130	46	40
315	121367	133691	250	160	130	46	40

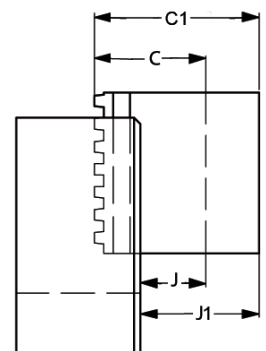


A09

Unstepped jaw BL, special height, soft, material 16MnCr5, DIN 6350



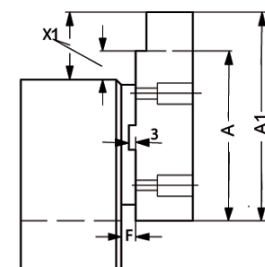
Chuck Size	3-jaw set	4-jaw set	C1 mm	J1	C mm	J mm
200	125710	132972	80	58,5	54	32,5
250	122188	134796	100	73	68	41
315	132186	137091	110	76	80	46
200	125712	137095	120	98,5	54	32,5
250	122189	130630	130	103	68	41
315	137096	137097	140	106	80	46
200	125714	137101	150	128,5	54	32,5
250	137102	137103	150	123	68	41
315	137104	130340	160	126	80	46



Jaws Orange Line

A09

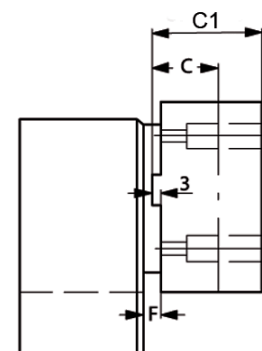
Top jaw AB, special length, soft, material 16MnCr5, DIN 6350



Chuck Size	3-jaw set	4-jaw set	A1 mm	X1 max.	F mm	A mm	X max. mm
200	110086	148139	100	43	6,8	87	30
250	112122	129289	130	63	8	103	36
315	110624	143764	160	76	5,5	120	36
200	112120	148657	120	63	6,8	87	30
250	125428	128700	150	83	8	103	36
315	112091	147754	200	116	5,5	120	36
250	104710	146013	180	113	8	103	36
315	112089	147860	250	166	5,5	120	36

A09

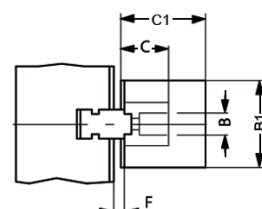
Top jaw AB, special height, soft, material 16MnCr5, DIN 6350



Chuck Size	3-jaw set	4-jaw set	C1 mm	C mm	F mm
200	132155	132181	60	43	6,8
250	119645	135867	70	53	8
315	110435	149975	80	58	5,5
200	128564	149976	80	43	6,8
250	128571	134999	100	53	8
315	110437	129691	110	58	5,5
250	128573	149978	150	53	8
315	128569	141671	150	58	5,5

A09

Top jaw AB, special width and height, soft, material 16MnCr5, DIN 6350



Chuck Size	3-jaw set	4-jaw set	B1 mm	C1 mm	B mm	C mm
200	105057	105061	40	70	30,5	43
250	137090	141338	50	80	36,5	53
315	143053	149979	60	90	42	58
200	133259	149982	50	80	30,5	43
250	133653	137526	60	90	36,5	53
315	143057	149983	80	110	42	58

Jaws Orange Line

C15

Mounting bolt for top jaws, bolt 1



Item no.	Size	Thread	Contents of delivery
249299	100	M6x20	piece
236949	125	M8x25	piece
334571	160/200	M8x30	piece
233025	250	M12x40	piece
233026	315	M12x45	piece

C15

Mounting bolt for top jaws, bolt 2



Item no.	Size	Thread	Contents of delivery
216528	100	M6x16	piece
233058	125/160/200	M8x20	piece
227692	250	M12x25	piece
233030	315	M12x30	piece

Accessories Orange Line

A09 Base plates for lathe chucks with cylindrical centre mount, DIN 6350



Item no.	Size	Thread
162793	160	6xM10
162401	200	6xM10
163036	250	
133705	315	

A09 Unfinished adapter plates for cylindrical mount

The unfinished back plate must be machined and fitted on both machine and chuck side



Item no.	Size	Inch	A mm	B mm	C mm	D mm	E mm
017114	100	4	120	80	58	20	25
017115	125	5	135	80	58	20	25
017116	160	6 1/4	170	80	58	20	30
017117	200	8	210	92	66	22	40
017118▲	250	10	260	105	92	25	50

A09 Chip guard, piece



Item no.	Size	Contents of delivery
108501	100/110	piece
108502	125	piece
108503	140/160	piece
108504	200	piece
108505	250	piece
108506	315/350/400	piece

A09 Special grease F80 for lathe chucks

For lubrication and conservation of chucking power



Item no.	Design	Contents
308555	Cartridge	0,5 kg
028975	Tin	1 kg

A09 Scroll



Item no.	Size
101754	100
112660	110
101721	125
105827	140
100303	160
100003	200
100203	250
101552	315

A09 Driving pinion



Item no.	Size	Square
101755	100	8
112662	110	8
101722	125	9
105828	140	9
100304	160	10
100005	200	11
100204	250	12
112267	270	12
101553	315	14
105229	350	14

A09 Pinion holder screw



Item no.	Size
100305	100/125/160
100006	200/250
101554	315

A09 Standard key



Item no.	Size	Square	Length mm
107427	100/110	8	75
107428	125/140	9	80
107429	160	10	90
107430	200/230	11	100
107431	250/270	12	100
107432	315	14	110

Accessories Orange Line

A09 Safety key with ejector



Item No.	Size	Square	Length mm
154371	100/110	8	130
154372	125/140	9	130
154373	160	10	160
154374	200/230	11	160
154375	250/270	12	160
154376	315	14	200

A09 Elongated safety key with ejector



Item No.	Size	Square	Length mm
154683	125/140	9	170
154685	160	10	180
154687	200/230	11	200
154689	250/270	12	200
154695	315	14	250

A09 Safety adapter with ejector

For actuating the chuck with torque (defined torque introduction)



Item No.	Size	Square	Inch
178567 ▲	100/110	8	1/2
178568 ▲	125/140	9	1/2
178569 ▲	160	10	1/2
178570	200/230	11	1/2
178571 ▲	250/270	12	1/2
178572	315/350	14	1/2

A09 Torque wrench



Item No.	Torque Nm	Length mm	Output	Working accuracy
10004116	20-120	435	12,7=1/2"	3%
10004117	60-320	659	12,7=1/2"	3%

C15 Mounting screws

For cylindrical centre rim



Item No.	Size	Thread	Contents of delivery
334571	100-140	M8x30	piece
249301	160-230	M10x35	piece
233025	250-270	M12x40	piece
220565	315-350	M16x50	piece

C15 Mounting screws

For lathe chucks with direct short-taper, for front mounting



Item No.	Size	Thread	Contents of delivery	Chuck Size	Taper size
233075	100	M10x90	piece	250	5
216549	110	M12x70	piece	250	6
302194	125	M16x70	piece	250	8
242954	140	M12x100	piece	315	6
358816	160	M16x85	piece	315	8
243665	200/230	M12x130	piece	350	6
236516	315	M16x110	piece	400	8

A09 Set screw with nut DIN 55021



Item No.	Thread	For taper	Quantity
107453	M10x30	4	3
107455 ▲	M10x35	5	4
107456 ▲	M12x40	6	4
107457 ▲	M16x45	8	4
107458 ▲	M20x55	11	6
127618 ▲	M24x65	15	6

A09 Stud for Camlock ISO 702-2 (DIN 55029) and cylindrical studs



Item No.	Thread	For taper	Quantity
178364 ▲	M10x1	3	3
178365	M10x1	4	3
178366 ▲	M12x1	5	6
178367	M16x1,5	6	6
178368 ▲	M20x1,5	8	6
178369 ▲	M22x1,5	11	6
178370 ▲	M24x1,5	15	6
178371	M27x2	20	6

A09 Stud and locknut ISO 702-3 (DIN 55027)



Item No.	Thread	Contents of delivery	For taper	Quantity
107447	M10x34	piece	3	3
107448	M10x39	piece	4	3
107449	M10x43	piece	5	4
107450	M12x50	piece	6	4
107451	M16x60	piece	8	4
107452	M20x75	piece	11	6
125650	M24x90	piece	15	6
130636	M24x100	piece	20	6

A09 Stud for Camlock ASA B 5.9 (DIN 55029) and cylindrical studs



Item No.	Thread	For taper	Quantity
107465 ▲	7/16-20x35	3	3
107466	7/16-20x37	4	3
107467	1/2-20x43	5	6
107468	5/8-18x49	6	6
107469	3/4-16x55,5	8	6
107470	7/8-14x67	11	6
127621 ▲	1-14x76	15	6
130637 ▲	1 1/2-12x89	20	6

ZS Hi-Tru - with fine adjustment



APPLICATION

Optimized for machining workpieces which must be produced with **maximum concentricity**. Can be universally used, but is especially advantageous on turning and grinding machines as well as dividing units.

TYPE

Lathe and grinding chuck in steel design with which the workpiece can be adjusted very sensitively to the desired concentricity via 3 tangentially arranged adjusting spindles.

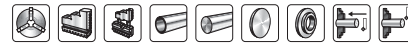
CUSTOMER BENEFITS

- ⊕ Radial fine adjustment for maximum concentricity
- ⊕ Repeatability 0.015 mm
- ⊕ Adjusting accuracy within 0.005 mm
- ⊕ Precision adjustment without opening the mounting screws
- ⊕ Jaws in chuck ground out for concentricity

TECHNICAL FEATURES

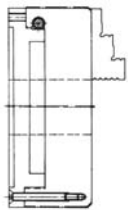
- With one set outside jaws and one set inside jaws
- Hardened adjusting spindles as well as their support surfaces
- Hardened spiral ring
- Steel take-up flange

ZS Hi-Tru = centric clamping, steel, maximum precision



A09

ZS Hi-Tru, with one set outward stepped jaws and one set inward stepped jaws, DIN 6350, cylindrical centre mount, form A

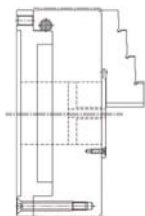


Item no.	Size	ZA	Through-hole mm	Speed max. min ⁻¹	Torque Nm	Total clamping force kN
180259 ▲	80	56	19	7000	30	13
180261	100	70	20	6300	60	27
180263	125	95	32	5500	80	31
180265	160	125	42	4600	110	47
180267	200	160	55	4000	140	55
180269	250	200	76	3000	150	63
180271	315	260	103	2300	180	69

On request from size 125 with 6-jaws or with short-taper mount to ISO 702-3 (DIN 55027) or ISO 702-2 (DIN 55029) Camlock
Further sizes and mountings available on request

A09

ZS Hi-Tru, with special seal for grinding machines, DIN 6350, cylindrical centre mount, form A

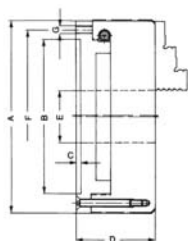


Item no.	Size	ZA	Through-hole mm	Speed max. min ⁻¹	Torque Nm	Total clamping force kN
180273 ▲	80	56		5000	30	13
180275 ▲	100	70		4500	60	27
180277 ▲	125	95	7	4000	80	31
180279 ▲	160	125	7	3600	110	47
180281 ▲	200	160	8	3000	140	55
180283 ▲	250	200	10	2500	150	63
180285 ▲	315	260	16	2000	180	69

On request from size 125 with 6-jaws or with short-taper mount to ISO 702-3 (DIN 55027) or ISO 702-2 (DIN 55029) Camlock

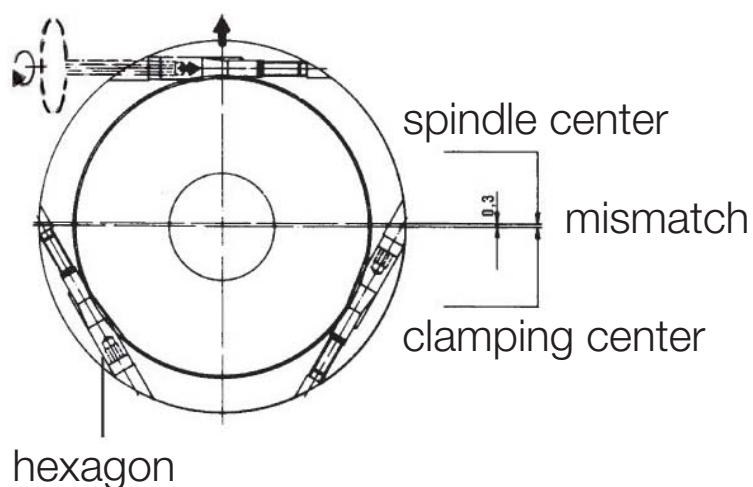
ZS Hi-Tru - with fine adjustment

Dimensions ZS Hi-Tru, DIN 6350, cylindrical centre mount, Form A



Size A	Inch	B+0,02	C	D	F	G	SW	Weight
ZS Hi-Tru, with 1 set each outward or inward stepped jaws								
80	3 ^{1/4}	56	3	50,5	67	3xM6	4	1,7
100	4	70	3	63	83	3xM8	5	3,6
125	5	95	4	72	108	3xM8	5	5,6
160	6 ^{1/4}	125	4	81	140	3xM10	6	10
200	8	160	4	89,5	176	3xM10	6	17,2
250	10	200	5	102	224	3xM12	8	34,5
315	12 ^{1/2}	260	5	122	286	3xM16	8	57,5
Size A	Inch	B+0,02	C	D	F	G	SW	Weight
ZS Hi-Tru, with special seal for grinding machines								
80	3 ^{1/4}	56	3	50,5	67	3xM6	4	1,7
100	4	70	3	63	83	3xM8	5	3,6
125	5	95	4	72	108	3xM8	5	5,6
160	6 ^{1/4}	125	4	81	140	3xM10	6	10
200	8	160	4	89,5	176	3xM10	6	17,2
250	10	200	5	102	224	3xM12	8	34,5
315	12 ^{1/2}	260	5	122	286	3xM16	8	57,5

Fine adjustment



Video functioning ZS Hi-Tru

Jaws ZS Hi-Tru

A09

Inside jaw BB, DIN 6350, outward stepped jaw, hardened



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
110155	80	3	set	37	26	12
110156	100	3	set	48	33,5	14
110157	125	3	set	52	41,5	18
110159	160	3	set	61	47,5	18
110160	200	3	set	69	53,5	20
110161	250	3	set	90	67,5	24
110162	315	3	set	130	79,5	34

Additionally or later applied, hardened stepped jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.

A09

Outside jaw DB, DIN 6350, inward stepped jaw, hardened



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
110165	80	3	set	37	26	12
110166	100	3	set	48	33,5	14
110167	125	3	set	52	41,5	18
110169	160	3	set	61	47,5	18
110170	200	3	set	69	53,5	20
110171	250	3	set	90	67,5	24
110016	315	3	set	130	79,5	34

Additionally or later applied, hardened stepped jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.

A09

Unstepped jaw BL, DIN 6350, unstepped, soft, material 16MnCr5



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
107588	80	3	set	37	26	12
107589	100	3	set	48	33,5	14
107590	125	3	set	52	41,5	18
107592	160	3	set	61	47,5	18
107593	200	3	set	69	53,5	20
107594	250	3	set	90	67,5	24
107595	315	3	set	130	79,5	34

A09

Base jaw GB, DIN 6350, with fixing screw



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw width mm
107500	100	3	set	46	14
107501	125	3	set	55	18
107503	160	3	set	65	18
107504	200	3	set	78	20
107505	250	3	set	92	24
107506	315	3	set	108	34

A09

Reversible top jaws UB, DIN 6350, hardened tongue and groove for external and internal clamping, material 16 MnCr5



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
108045	100	3	set	47	29,5	22
108046	125	3	set	56	37,5	26
107936	160	3	set	66,7	41,5	28
107937	200	3	set	79,5	42,5	30
108049	250	3	set	95,3	52,5	36
108050	315	3	set	109,5	57,5	42

Additionally or later applied, hardened stepped jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.

Jaws ZS Hi-Tru

A09

Unstepped top jaw AB DIN 6350, soft, material 16MnCr5



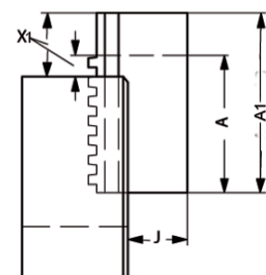
Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
107633	100	3	set	53	30	22,5
107634	125	3	set	62	38	26,5
108581	160	3	set	74	42	28,5
108582	200	3	set	87	43	30,5
107637	250	3	set	103	53	36,5
107638	315	3	set	120	58	42,5

A09

Unstepped jaw BL, special length, soft, material 16MnCr5, DIN 6350



Item no.	Chuck Size	A1 mm	X1 max.	A	J	X max.
130031	200	100	50	69	32,5	19
132658	250	120	56	90	41	26
132184	315	160	70	130	46	40
130033	200	120	70	69	32,5	19
128880	250	140	76	90	41	26
118908	315	200	110	130	46	40
121367	315	250	160	130	46	40

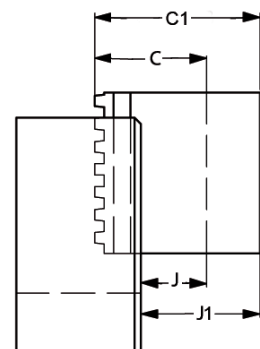


A09

Unstepped jaw BL, special height, soft, material 16MnCr5, DIN 6350

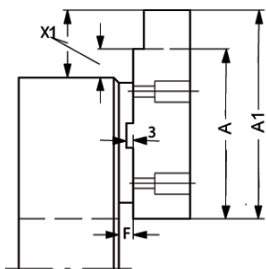


Item no.	Chuck Size	C1	J1	C	J
125710	200	80	58,5	54	32,5
122188	250	100	73	68	41
132186	315	110	76	80	46
125712	200	120	98,5	54	32,5
122189	250	130	103	68	41
137096	315	140	106	80	46
125714	200	150	128,5	54	32,5
137102	250	150	123	68	41
137104	315	160	126	80	46



Jaws ZS Hi-Tru

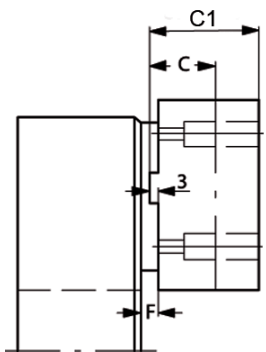
A09
Top jaw AB, special length, soft, material 16MnCr5, DIN 6350



Item no.	Chuck Size	A1 mm	X1 max.	F	A	X max.
110086	200	100	43	6,8	87	30
112122	250	130	63	8	103	36
110624	315	160	76	5,5	120	36
112120	200	120	63	6,8	87	30
125428	250	150	83	8	103	36
112091	315	200	116	5,5	120	36
104710	250	180	113	8	103	36
112089	315	250	166	5,5	120	36

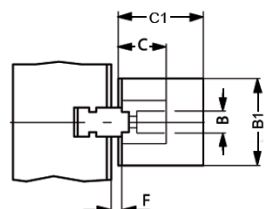
Jaws ZS Hi-Tru

A09
Top jaw AB, special height, soft, material 16MnCr5, DIN 6350



Item no.	Chuck Size	C1	C	F
132155	200	60	43	6,8
119645	250	70	53	8
110435	315	80	58	5,5
128564	200	80	43	6,8
128571	250	100	53	8
110437	315	110	58	5,5
128573	250	150	53	8
128569	315	150	58	5,5

A09
Top jaw AB, special width and height, soft, material 16MnCr5, DIN 6350



Item no.	Chuck Size	B1	C1	B	C
105057	200	40	70	30,5	43
137090	250	50	80	36,5	53
143053	315	60	90	42	58
133259	200	50	80	30,5	43
133653	250	60	90	36,5	53
143057	315	80	110	42	58

Jaws ZS Hi-Tru

C15

Mounting bolt for top jaws, bolt 1



Item no.	Size	Thread	Contents of delivery
249299	100	M6x20	piece
236949	125	M8x25	piece
334571	160/200	M8x30	piece
233025	250	M12x40	piece
233026	315	M12x45	piece

C15

Mounting bolt for top jaws, bolt 2



Item no.	Size	Thread	Contents of delivery
216528	100	M6x16	piece
233058	125/160/200	M8x20	piece
227692	250	M12x25	piece
233030	315	M12x30	piece

Accessories ZS Hi-Tru

A09 Base plates for lathe chucks with cylindrical centre mount, DIN 6350



Item no.	Size	Thread
162793	160	6xM10
162401	200	6xM10
163036	250	
133705	315	

C15 Special grease F80 for lathe chucks

For lubrication and conservation of chucking power



Item no.	Design	Contents
308555	Cartridge	0,5 kg
028975	Tin	1 kg

A09 Chip guard, piece



Item no.	Size	Contents of delivery
108500	80/85	piece
108501	100/110	piece
108502	125	piece
108503	140/160	piece
108504	200	piece
108505	250	piece
108506	315/350/400	piece

C15 Scroll



Item no.	Size
102183	80/85
101754	100
101721	125
100303	160
100003	200
100203	250
101552	315

A09 Driving pinion



Item no.	Size	Hexagon
178473	100	9
178474 ▲	110	9
178475	125	10
178476 ▲	140	10
178477	160	11
178478	200	12
178480	250	14
178482	315	17

A09 Pinion holder screw



Item no.	Size
102185	85
100305	100/125/160
100006	200/250
101554	315

A09 Standard key



Item no.	Size	Square	Length mm
107426	80/85	6	62
107427	100/110	8	75
107428	125/140	9	80
107429	160	10	90
107430	200/230	11	100
107431	250/270	12	100
107432	315	14	110

A09 Safety key with ejector



Item no.	Size	Square	Length mm
154370 ▲	80/85	6	110
154371	100/110	8	130
154372	125/140	9	130
154373	160	10	160
154374	200/230	11	160
154375	250/270	12	160
154376	315	14	200

Accessories ZS Hi-Tru

A09 Elongated safety key with ejector



Item no.	Size	Square	Length mm
154683	125/140	9	170
154685	160	10	180
154687	200/230	11	200
154689	250/270	12	200
154695	315	14	250

A09 Safety adapter with ejector

For actuating the chuck with torque (defined torque introduction)



Item no.	Size	Square	Inch
178566 ▲	80/85	6	3/8
178567 ▲	100/110	8	1/2
178568 ▲	125/140	9	1/2
178569 ▲	160	10	1/2
178570	200/230	11	1/2
178571 ▲	250/270	12	1/2
178572	315/350	14	1/2

A26 Torque wrench



Item no.	Torque Nm	Length mm	Output	Working accuracy
10004116	20-120	435	12,7=1/2"	3%
10004117	60-320	659	12,7=1/2"	3%

A26 Mounting screws

For cylindrical centre rim

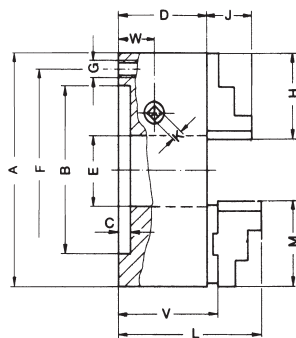


Item no.	Size	Thread	Contents of delivery
249299	74-85	M6x20	piece
334571	100-140	M8x30	piece
249301	160-230	M10x35	piece
233025	250-270	M12x40	piece
220565	315-350	M16x50	piece

Chuck dimensions ZS - ZSU and Orange Line

For mounting on dividing heads and other attachments from the front, the lathe chucks with a cylindrical centre mount can also be supplied pre-drilled (at surcharge) G₁, it is also possible to enlarge the bore (measure E, at surcharge).

Cylindrical centre mount DIN 6350



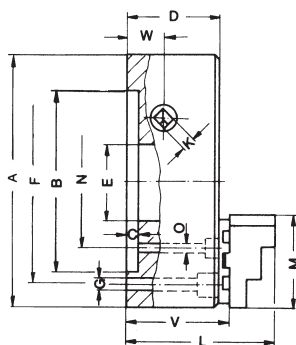
Enlarged bore max.

Size A	74	80	85	100	110	125	140	160	200	250	315	350	400	500	630
B ^{H6}	56	56	60	70	80	95	105	125	160	200	260	290	330	420	545
C	2,5	3	3	3	3	4	4	4	4	5	5	6	5	5	7
D	32,5	39,5	39,5	50	50	56	60	65	73,5	82	95	100	105	120	135
E	15	19	19	20	27	32	40	42	55	76	103	115	136	190	240
E _{max}	-	-	-	21	-	33	43	50	70	92	114	120	150	210	253
F	63	67	72	83	95	108	120	140	176	224	286	318	362	458	586
G	3xM6	3xM6	3xM6	3xM8	3xM8	3xM8	3xM8	3xM10	3xM10	3xM12	3xM16	3xM16	3xM16	6xM16	6xM16
G ₁	-	-	-	-	-	3xØ9*	-	3xØ10,5	3xØ11	3xØ14	3xØ14	-	3xØ18	6xØ18	6xØ18
H	32	37	37	48	48	52	61	61	69	90	130	130	130	190	190
J	14	14	14	18	18	22,5	22,5	26	32,5	40	46	45	43	54,5	54,5
K	6 ¹⁾	6	6	8	8	9	9	10	11	12	14	14	17	19	19
L	-	-	-	80,5	-	95,5	106	108	119,6	139,6	155	168,5	171,5	201,5	216,5
M	-	-	-	47	47	56	66,7	66,7	79,5	95	109,5	127	127	127	127
V	-	-	-	53,6	53,6	61	67,7	69,7	80,2	89,9	100,4	110,4	113,4	128,4	143,3
W	13	14,5	14,5	18	18	20	21	22,45	25,7	26,5	30	34	35	38	48
approx kg.	1	1,3	1,9	2,9	3,4	4,5	5,8	8,2	14,6	25,7	44,2	56	80	126	208

G₁ = Mounting from front

* 4-jaw = 4 x Ø 9

Cylindrical centre mount with front mounting



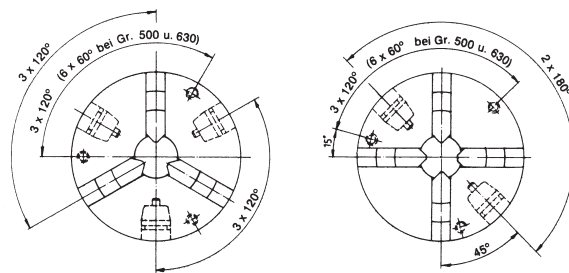
Enlarged bore max.

Size	ØA	700	800	1000	1250
	B	610	710	910	910
	C ²⁾	7 ^{+0,03}	7 ^{+0,03}	7 ^{+0,03}	7 ^{+0,03}
	D	147	147	157	157
	E	310	380	460	550
	E _{max}	330	420	580	580
	F	660	760	950	950
3-Jaw					
4-Jaw	G	6xØ22	6xØ22	6xØ26	6xØ26
		8xØ22	8xØ22	8xØ26	6xØ26
	K	19	19	24	24
	L	240,6	240,6	269,6	269,6
	M	210	210	210	210
	N	360	460	610	610
3-Jaw					
4-Jaw	O	6xØ18	6xØ18	6xØ18	6xØ18
		4xØ18	4xØ18	4xØ18	6xØ18
	V	158	158	166	166
	W	48	48	53	53
	ca. kg	280	350	590	850

1) Hexagon

2) Adaptor plate dimension 7_{0,03}

Position of fixing screws and pinions on lathe chucks with cylindrical centre mount sizes 74-630 (size 350 on request)



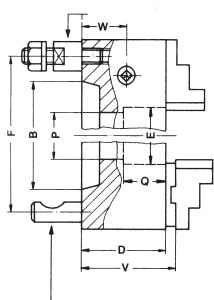
Short taper mount

DIN 55021 with setscrews and locknuts



DIN 55027

with studs and nuts



DIN 55029 with studs for Camlock

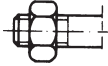
Size	A	100	125		140			160			200			
Taper size		3	3	4	3	4	5	3	4	5	3	4	5	6
	B	53,9	53,9	63,5	53,9	63,5	82,5	53,9	63,5	82,5	53,9	63,5	82,5	106,4
	D	75	69	69	74	74	74	66	66	66	74,5	74,5	74,5	74,5
	E	20	32	32	40	40	40	42	42	42	51,2	55	55	55
DIN	F	75	75	85	75	85		75	85		75	85		
Caml.		70,6	70,6	82,5	70,6	82,5	104,8	70,6	82,5	104,8	70,6	82,5	104,8	133,4
	P	-	-	-	-	-	-	-	-	-	51,2	-	-	-
	Q	-	-	-	-	-	-	-	-	-	33	-	-	-
	V	78,3	73,7	73,7	81,7	81,7	81,7	70,7	70,7	70,7	81,2	81,2	81,2	81,2
	W	43	33	33	35	35	35 ¹⁾	23,45	23,45	23,45	26,7	26,7	26,7	26,7
Mounting holes	DIN	3	3	3	3	3	4	3	3	4	3	3	4	4
		3	3	3	3	3	6	3	3	6	3	3	6	6
	ca. kg	4	5,5		7			8,5			15,5			

1) 50 with Camlock, other dimensions in the table on the top

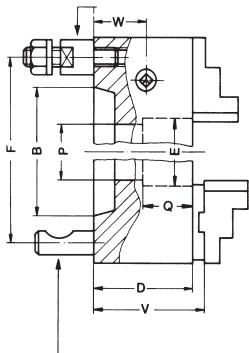
Chuck dimensions ZS - ZSU and Orange Line

Short taper mount

DIN 55021
with setscrews and locknuts



DIN 55027
with studs and nuts



DIN 55029
with studs for Camlock

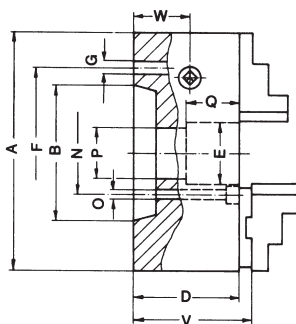
Size A		250				315				350			400		
Taper size		4	5	6	8	5	6	8	11	6	8	11	6	8	11
B		63,5	82,5	106,4	139,7	82,5	106,4	139,7	196,9	106,4	139,7	196,9	106,4	139,7	196,6
D		83	83	83	83	96	96	96	104	122	122	122	106	106	106
E		60,7	76	76	76	79,6	103	103	103	103	115	115	103	136	136
F	DIN Caml.	85 82,5	104,8	133,4	171,4	104,8	133,4	171,4	235	133,4	171,4	235	133,4	171,4	235
P		60,7	-	-	-	79,6	-	-	-	103	-	-	103	-	-
Q		40,5	-	-	-	49	-	-	-	81	-	-	54	-	-
V		90,9	90,9	90,9	90,9	101,4	101,4	101,4	109,4	127,4	127,4	127,4	114,4	114,4	114,4
W		27,5	27,5	27,5	27,5	31	31	31	39	56	56	56	36	36	36
Mounting holes	DIN Caml.	3	4	4	4	4	4	4	6	4	4	6	4	4	6
		3	6	6	6	6	6	6	6	6	6	6	6	6	6
approx. kg		30				50				71			84		

Size A		500			630		700		800		1000		1250	
Taper size		8	11	15	11	15	11	15	15	20	15	20	15	20
B		139,7	196,9	285,8	196,9	285,8	196,9	285,8	285,8	412,8	285,8	412,8	285,8	412,8
D		122	122	122	137	137	149	149	149	149	159	159	159	159
E		136	190	190	192,7	240	310	310	380	380	460	460	550	550
F		171,4	235	330,2	235	330,2	235	330,2	330,2	463,6	330,2	463,6	330,2	463,6
P		136	-	-	192,7	-	192,7	281,2	281,2	-	281,2	407,5	281,2	407,5
Q		61	-	-	63	-	76	76	76	-	85	85	85	85
V		130,4	130,4	130,4	145,3	145,3	160	160	160	160	168	168	168	168
W		40	40	40	50	50	50	50	50	50	55	55	55	55
Mounting holes	DIN Caml.	4	6	6	6	6	6	6	6	6	6	6	6	6
		6	6	6	6	6	6	6	6	6	6	6	6	6
approx. kg		150			225		280		350		590		850	

All other dimensions should be taken from the table about chucks with cylindrical centre mount.

Short taper mount

DIN 55026
Mounting from front



Size A		160	200		250			315		350		400	
Taper size		5	5	6	5	6	8	6	8	6	8	8	11
B		82,5	82,5	106,4	82,5	106,4	139,7	106,4	139,7	106,4	139,7	139,7	196,9
D		66	74,5	74,5	83	83	83	96	96	122	122	106	106
E		42	42	55	76	55	76	103	76	103	76	136	125
F ²⁾		-	-	-	104,8	-	-	133,4	-	133,4	-	171,4	-
G		-	-	-	11 ¹⁾	-	-	14	-	14	-	18	-
N ³⁾		61,9	61,9	82,6	-	82,6	111,1	-	111,1	-	111,1	-	165,1
O		11 ¹⁾	11 ¹⁾	14	-	14	18	-	18	-	18	-	22
V		70,7	81,2	81,2	90,9	90,9	90,9	101,4	101,4	127,4	127,4	114,4	114,4
W		23,45	26,7	26,7	275	275	275	31	31	56	56	36	36
Mounting holes	*	3	3	6	3	6	6	6	6	6	6	6	6
	**	4	4	4	4	4	4	4	4	4	4	4	4
approx. kg		8	14,5		25			44,5		71		82	

Size ØA		500			630			700			800			1000		1250	
Taper Size		11	11	15	11	15	11	15	20	15	20	15	20	15	20		
B		196,9	196,9	285,9	196,9	285,9	196,9	285,9	412,8	285,9	412,8	285,9	412,8	285,9	412,8		
D		122	137	137	149	149	149	149	149	159	159	159	159	159	159		
E		190	190	190	310	285	380	380	380	460	505	550	550	550	550		
F ²⁾		235	235	-	235	330,2	235	330,2	463,6	330,2	463,6	330,2	463,6	330,2	463,6		
G		22	22	-	22	26	22	26	26	26	26	26	26	26	26		
N ³⁾		-	-	247,6	-	-	-	-	-	-	-	-	-	-	-		
O		-	-	26	-	-	-	-	-	-	-	-	-	-	-		
P		-	-	-	193	281,2	193	281,2	-	281,2	407,5	281,2	407,5	281,2	407,5		
Q		-	-	-	76	76	76	76	-	85	85	85	85	85	85		
V		130,4	145,3	145,3	159,9	159,9	159,9	159,9	159,9	168	168	168	168	168	168		
W		40	50	60	50	50	50	50	50	55	55	55	55	55	55		
Mounting holes	*	3	6	6	6	6	6	6	6	8	8	8	8	8	8		
	**	4	8	8	8	8	8	8	8	8	8	8	8	8	8		
approx. kg		139	220			295		350			590			850			

1) 12 with ASA B 5.9 inch thread

2) For DIN 55026 Form A and B: DIN 55021 Form A and B: ASA B 5:9 A1/A2

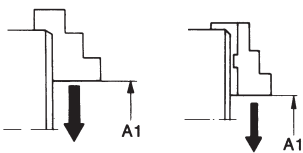
3) For DIN 55026 Form B; ASA B 5.9 A1/B1

* 3-Jaw

★★ 4-Jaw

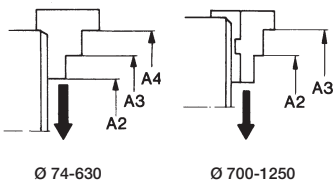
Chuck dimensions ZS - ZSU and Orange Line

External chucking



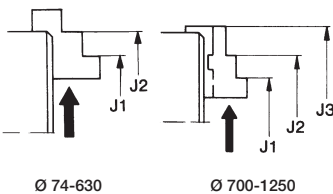
Chucking capacities of jaw steps (standard values)

Size	74	80	85	100	110	125	140	160	200	250
A1 (BB)	2-24	2-30	2-30	3-38	3-42	3-53	3-53	4-72	4-100	5-122
A2 (DB)	2-24	2-30	2-30	3-38	3-42	3-53	3-53	3-72	4-100	5-122
A3 (DB)	23-46	27-55	27-55	38-71	39-77	39-89	47-97	47-116	56-152	73-190
A4 (DB)	45-68	52-80	52-80	70-100	70-100	75-125	91-140	91-160	104-200	131-250
max. swing dia.	88	104	104	128	138	157	174	194	238	302
Jaw movement	11	14	14	15	19	25	25	34	48	58



Size	315	350	400	500	630	700	800	1000	1250
A1	6-135	20-180	20-200	35-260	50-350	110-350	150-450	250-600	320-600
A2	6-135	20-180	20-200	35-260	50-350	280-672	325-853	425-1070	490-1150
A3	96-225	110-270	110-300	140-360	190-490	356-748	400-928	500-1150	564-1224
A4	186-315	200-350	200-400	280-500	330-630	-	-	-	-
max. swing dia.	395	440	480	600	730	1000	1170	1390	1476
Jaw movement	64	80	100	110	150	120	150	175	140

Internal chucking



Size	74	80	85	100	110	125	140	160	200	250
J1	23-46	25-53	26-53	33-66	33-71	37-87	39-89	39-107	44-140	59-165
J2	45-68	50-78	50-78	65-94	65-104	73-123	83-132	83-152	92-186	119-236

Size	315	350	400	500	630	700	800	1000	1250
J1	96-224	100-260	100-300	135-355	150-450	212-648	251-855	356-1080	426-1162
J2	186-305	190-350	190-390	275-460	290-590	290-758	326-930	430-1150	500-1236
J3	-	-	-	-	-	526-922	566-1094	660-1314	740-1400

Clamping ranges for lathe chucks with individual adjustable jaws (ES) are in approximate conformity with the above values. They are valid for 3- and 4-jaw chucks and lathe chucks with reversible jaws.

Do not exceed maximum chucking ranges.

Max. permissible speeds for ZS - ZSU, Orange Line, ZS Hi-Tru to DIN 6350

The maximum permissible speed has been fixed so that 1/3 of the gripping force is still available as residual gripping force if the maximum gripping is applied and the chuck is fitted with its heaviest jaws. The jaws may not project beyond the outside diameter of the chuck. The chuck must be in perfect condition. The speed limit for chucks with cast iron bodies is based on the permissible peripheral speed for cast iron. The specification DIN 6386 Part 1 shall be observed.

Size	3 and 4 jaws	
	Cast iron body	Steel body
74	5000	-
80	5000	7000
100	4500	6300
125	4000	5500
140	3700	5000
160	3600	4600
200	3000	4000
250	2500	3000
315	2000	2300
350	1700	1900
400	1600	1800
500	1000	1300
630	800	850
700	650	800
800	600	700
1000	480	560
1250	380	450

Clamping force 3 jaw chuck ZS - ZSU, Orange Line, ZS Hi-Tru to DIN 6350

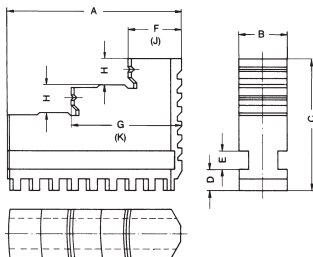
The clamping force is sum total of all jaw forces acting radially on the stationary workpiece. The clamping forces are approximate values. To obtain the specified clamping forces, the chuck must be in a perfect condition and lubricated with F 80 lubricant recommended by RÖHM.

Size	Torque key	Total clamping force
74	30	11
80	30	13
100	60	27
125	80	31
140	90	40
160	11	47
200	140	55
250	150	63
315	180	69
350	210	74
400	240	92
500	260	100
630	280	105
700	280	105
800	300	110
1000	450	115
1250	450	115

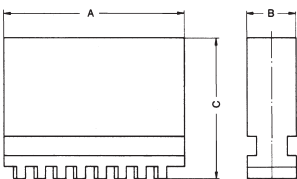
Jaw dimensions ZS - ZSU, Orange Line, ZS Hi-Tru

Dimensions F and G apply to outward stepped jaws **BB**
Dimensions J and K apply to inward stepped jaws **DB**

Outward stepped jaw (inside jaw) **BB**



Unstepped jaw, soft (block jaw) **BL**

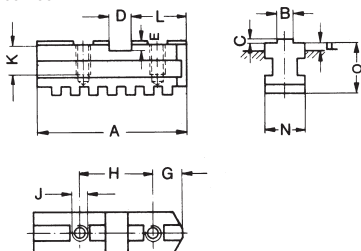


1) Reversible jaws

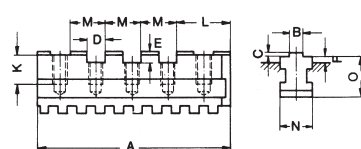
Size	74 ¹⁾	80/85	100/110	125	140	160	200	250	315	300/400	500/630
A	32	37	48	52	61	61	69	90	130	130	190
B	10	12	14	18	18	18	20	24	34	34	42
C	23	26	33,5	41,5	41,5	47,5	53,5	67,5	79,5	79,5	95
D	4,7	4,8	6,3	7,3	8,3	8,3	8,3	10,3	11,3	11,3	14,9
E	4	4,5	6	7	7	7	8	10	15	15	15
F	10	12	15	17	18	18	20	27	41,5	41,5	50
G	21	24,5	31	35	40	40	44	57	86,5	86,5	120
H	5	6	6	8	8	10	10	14	15	15	20
J	-	12	14	16	17	17	19	26	40	40	50
K	-	24,5	30	34	39	39	43	56	85	85	120
Jaw approx. kg	BB	0,03	0,05	0,1	0,2	0,22	0,25	0,3	0,7	1,8	3,8
	BL	0,05	0,08	0,15	0,27	0,32	0,38	0,52	1	2,4	5,2

Base jaw **GB**

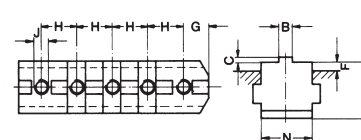
Ø 100-400



Ø 500-630



Ø 700-1250



Size	100/110	125	140	160	200	250	315	350/400	500	630
A	46	55	65	65	78	92	108	127	165	203
B _{0,05}	7,94	7,94	7,94	7,94	7,94	12,7	12,7	12,7	12,7	12,7
C	2,5	3,1	3,1	3,1	3,1	3,1	3,1	3,1	3,1	3,1
D ^{+0,01}	9,5	12,68	12,68	12,68	12,68	19,03	19,03	19,03	19,03	19,03
E	6	7,6	7,6	7,6	7,6	7,6	7,6	10,8	10,8	10,8
F	3,4	4,8	7,8	4,8	6,8	8	5,5	10,5 ²⁾	8,5	8,5
G	12	13	15,8	15,8	19	22,2	25,4	28,5	28,5	28,5
H	24	32	38,1	38,1	44,45	54	63,5	76,2	38,1	38,1
J	metr. UNC	M6 1/4"-20	M8 5/16"-18	M8 3/8"-16	M8 3/8"-16	M12 1/2"-13	M12 1/2"-13	M16 5/8"-11	M20 3/4"-10	M20 3/4"-10
K	12	14,5	16	16	16	20	25	29	33	33
L	19,25	22,6	28,5	28,5	34,9	39,7	47,6	57,1	57,1	57,1
M	-	-	-	-	-	-	-	-	38,1	38,1
N	14	18	18	18	20	24	34	34	42	42
O	19,5	24	27	27	28	35	40	45	49	49
Grooves	1	1	1	1	1	1	1	1	2	3
Tapped holes	2	2	2	2	2	2	2	2	4	5
Jaw approx. kg	0,06	0,12	0,17	0,17	0,22	0,4	0,78	1	1,72	2,1

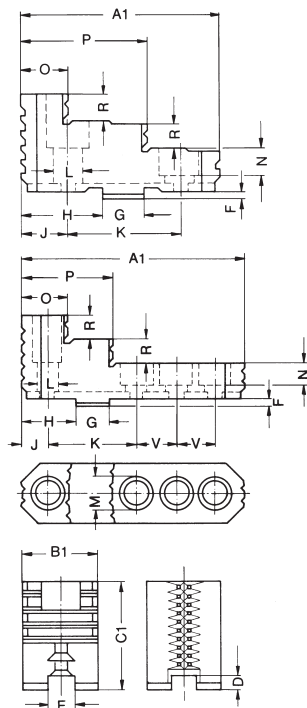
Size	700	800	1000	1250
A	253	291	329	367
B _{0,05}	12,7	12,7	12,7	12,7
C	3,1	3,1	3,1	3,1
D ^{+0,01}	19,03	19,03	19,03	19,03
E	10,8	10,8	10,8	10,8
F	11	11	9	9
G	28,5	28,5	28,5	28,5
H	38,1	38,1	38,1	38,1
J	metr. UNC	M20 3/4"-10	M20 3/4"-10	M20 3/4"-10
K	37	37	37	37
L	57,1	57,1	57,1	57,1
M	38,1	38,1	38,1	38,1
N	55	55	55	55
O	62	62	62	62
Grooves	4	5	6	7
Tapped holes	6	7	8	9
Jaw approx. kg	6,2	7,1	8	9

1) Reversible jaws

2) Size

Jaw dimensions ZS - ZSU, Orange Line, ZS Hi-Tru

Reversible top jaw UB

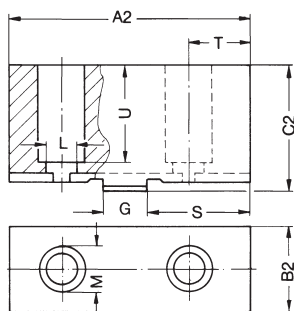


Chuck Size		100 110	125	140 160	200 230	250 270	315	350 400	500 630	700 800	1000 1250
A	1	47	56	66,7	79,5	95,3	109,5	127	127	210	210
	2	53	62	74	87	103	120	137	140	210	210
B	1	22	26	28	30	36	42	42	50	68	68
	2	22,5	26,5	28,5	30,5	36,5	42,5	42,5	50,5	68	68
C	1	29,5	37,5	41,5	42,5	52,5	57,5	64,5	79,5	89	110
	2	30	38	42	43	53	58	65	80	89	110
D		5,5	7,6	7,6	7,6	7,6	7,6	10,8	10,8	10,8	10,8
E		7,96	7,96	7,96	7,96	12,72	12,72	12,72	12,72	12,72	12,72
F		2,5	3,1	3,1	3,1	3,1	3,1	6,35	6,35	6,35	6,35
G		9,50	12,68	12,68	12,68	19,03	19,03	19,03	19,03	19,03	19,03
H		19,25	22,6	28,5	34,9	39,7	47,6	57,1	57,1	57,1	57,1
J		12	13	15,8	19	22,2	25,4	28,5	28,5	28,5	28,5
K		24	32	38,1	44,45	53,95	63,5	76,2	76,2	76,2	76,2
L		6,6	9	9 ¹⁾ 10,5 ²⁾	9 ¹⁾ 10,5 ²⁾	14	14	18	22	22	22
M		11	15	15 ¹⁾ 16 ²⁾	15 ¹⁾ 16 ²⁾	20	20	26	33	33	33
N		7	9	10	10	13,5	13,5	17	21	21,5	21,5
O		12	13	15,8	19	22,2	25,4	28,5	54,6	51	51
P		29,5	35	42,8	51,5	60,2	67,4	77	88,5	89	89
R		6	8	10	10	14	15	15	20	22	25
S		22,25	25,6	32,2	38,7	43,5	52,9	62,1	63,6	70	70
T		15	16	19,5	22,8	26	30,7	33,55	35	41,5	41,5
U		19	27	30	30	41	43	47	61	65	71
V		-	-	-	-	-	-	-	-	38,1	38,1
Jaw approx. kg	UB	0,12	0,19	0,27	0,39	0,66	1,02	1,27	2	4,45	6,1
	AB	0,21	0,34	0,5	0,7	1,2	1,86	2,18	3,04	8	10,8

Saw-tooth standard model

Cross-grooving from size 250 available
from size 700 standard-model

Unstepped top jaw soft AB



Special-design jaws

For non-rotating clamping devices, for symmetrical components, for machine vices and NC-compact vices available in all desired modifications



This chuck is used for aligning irregularly shaped workpieces.

Principle of operation

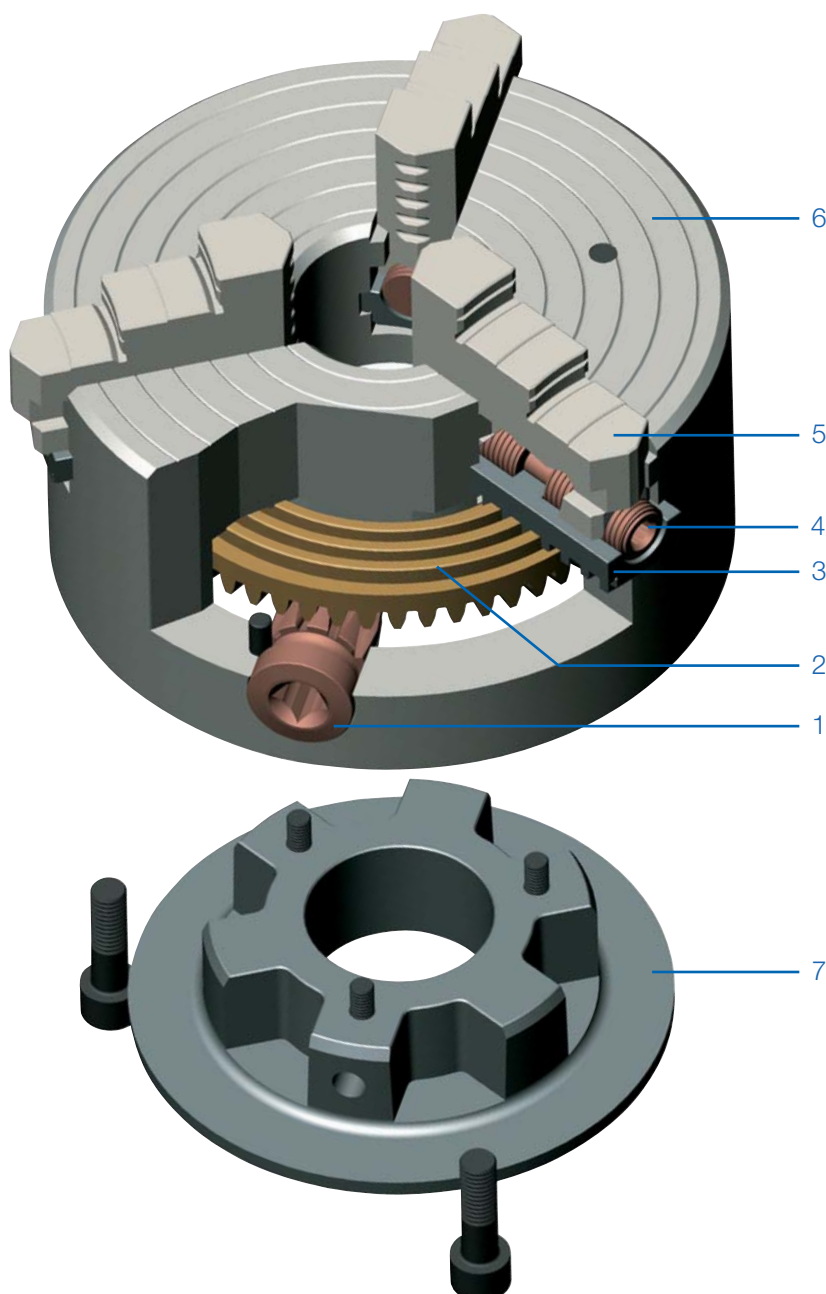
Through a radially arranged drive (1, hardened), the force is transferred via a bevel gearing to a hardened spiral ring (2) and further conducted via the spiral to the base jaws (3, hardened and ground), spindle (4, hardened) and reversible jaws (5, hardened and ground). The position of the workpiece can be adjusted by turning the spindle. Steel body (6), cover (7).

Clamping force transfer system

The jaws can be adjusted over the entire clamping range by turning the key.

Lubrication

To maintain the clamping force, geared scroll chucks must be lubricated regularly. You will find corresponding information in the operating instructions which are enclosed with every chuck. All geared scroll chucks are provided with grease nipples for easy maintenance.



Base jaw GB,
hardened and ground



Reversible top jaw UB,
hardened and ground



Unstepped jaw BL,
unstepped, soft, material 16MnCr5

ES - independently adjustable jaws



APPLICATION

Optimized for the machining of irregularly shaped workpieces.

TYPE

Geared scroll chuck in steel design with which irregularly shaped workpieces can be aligned via adjusting spindles.
3-jaw and 4-jaw version.

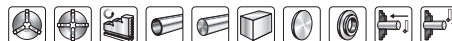
CUSTOMER BENEFITS

- Exact alignment of irregularly shaped workpieces
- Jaws centrally clamping and individually adjustable
- Die-forged spiral ring, series-balanced and hardened
- Jaws in chuck ground out for concentricity

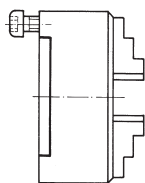
TECHNICAL FEATURES

- With one set each of base and reversible jaws
- Clamping wrench
- Dimensions and mountings to DIN 6351
- Hardened spiral ring
- Die-forged steel body

ES = independently adjustable jaws, steel



A09
DIN 6351, cylindrical centre mount, form A



Size	ZA	Through-hole mm	3-jaw chuck steel	4-jaw chuck steel	Torque Nm	Total clamping force kN
160	125	42	111360 ▲	111789 ▲	110	47
200	160	55	111365	111793	140	55
250	200	76	111370	111797	150	63
315	260	103	111375 ▲	111801	180	69
400	330	136	111380 ▲	111805 ▲	240	92
500	420	190	111385 ▲	111809 ▲	260	100
630	545	240	111390 ▲	111813 ▲	280	105

Further sizes and mountings available on request

Jaws ES

A09

Reversible jaw UB, hardened, tongue and groove for external and internal clamping, material 16 MnCr5



Chuck Size	3-jaw set	4-jaw set	Jaw length mm	Jaw height mm	Jaw width mm
160	110118	110124	69	50	20
200	139666	139670	85	57,5	24
250	139667	139671	90	67,5	24
315/400	139668	139672	130	79,5	34
500/630	139669	139673	190	95	42

A09

Unstepped jaw BL, unstepped, soft



Chuck Size	3-jaw set	4-jaw set	Jaw length mm	Jaw height mm	Jaw width mm
160	107669	107675	69	50	20
200	139674	139678	85	57,5	24
250	139675	139679	90	67,5	24
315/400	139676	139680	130	79,5	34
500/630	139677	139681	190	95	42

A09

Base jaw GB, hardened, tongue and groove for external and internal clamping, material 16 MnCr5



Chuck Size	3-jaw set	4-jaw set	Jaw length mm	Jaw height mm	Jaw width mm
160	107654	107662	62	15,3	26
200	139682	139686	78	17,8	30
250	139683	139687	86	17,8	30
315	139684	139688	118	22,7	44
400	139685	139689	118	22,7	44
500/630	107659	107667	176	25	54

Accessories ES

A09 Base plates for lathe chucks with cylindrical centre mount, DIN 6350



Item no.	Size	Thread
162793	160	6xM10
162401	200	6xM10
163036	250	
133705	315	

A09 Special grease F80 for lathe chucks For lubrication and conservation of chucking power



Item no.	Design	Contents
308555	Cartridge	0,5 kg
028975	Tin	1 kg

A09 Adjusting spindle



Item no.	For chuck size
104251 ▲	125
104271 ▲	160
137735 ▲	200
137643 ▲	250
137701 ▲	400/315
137716	500

A09 Adjusting key



Item no.	For chuck size	Square	Hexagon
107444 ▲	125/160	5,5	-
139695 ▲	200/250/315/400	-	8
139696 ▲	500/630	-	12

A09 Scroll



Item no.	Size
101721	125
100303	160
100003	200
100203	250
101552	315
102497	400
162973	500
162964	630

A09 Driving pinion



Item no.	Size	Square
100304	160	10
100005	200	11
100204	250	12
112267	270	12
101553	315	14
105229	350	14
102498	400	17
162974	500	19
162965	630	19

A09 Pinion holder screw



Item no.	Size
100305	160
100006	270
101554	315
102499	400
103300	630

A09 Standard key



Item no.	Size	Square	Length mm
107427	100/110	8	75
107428	125/140	9	80
107429	160	10	90
107430	200/230	11	100
107431	250/270	12	100
107432	315	14	110
107433	350	14	140
107434	400	17	140
107435	500/630	19	150

Accessories ES

A09 Safety key with ejector



Item no.	Size	Square	Length mm
154371	100/110	8	130
154372	125/140	9	130
154373	160	10	160
154374	200/230	11	160
154375	250/270	12	160
154376	315	14	200
154377	350	14	200
154378	400	17	250
154379 ▲	500/630	19	250

A09 Safety adapter with ejector

For actuating the chuck with torque (defined torque introduction)



Item no.	Size	Square	Inch
178566 ▲	80/85	6	3/8
178567 ▲	100/110	8	1/2
178568 ▲	125/140	9	1/2
178569 ▲	160	10	1/2
178570	200/230	11	1/2
178571 ▲	250/270	12	1/2
178572	315/350	14	1/2

C15 Mounting screws

For lathe chucks with direct short-taper, for front mounting



Item no.	Size	Thread	Contents of delivery	Chuck Size	Taper size
233059	74	M10x70	piece	160	5
308436	80	M10x85	piece	200	5
200186	85	M12x85	piece	200	6
234615	100	M10x110	piece	250	5
302215	110	M12x90	piece	250	6
202439	125	M16x90	piece	250	8
316244	140	M12x120	piece	315	6
308439	160	M16x105	piece	315	8
342701	315	M16x130	piece	400	8
698878	350	M20x115	piece	400	11
011528	400	M20x155	piece	500	11
358815	500	M20x170	piece	630	11
202509	630	M24x150	piece	630	15

A09 Stud and locknut ISO 702-3 (DIN 55027)



Item no.	Thread	Contents of delivery	For taper	Quantity
107447	M10x34	piece	3	3
107448	M10x39	piece	4	3
107449	M10x43	piece	5	4
107450	M12x50	piece	6	4
107451	M16x60	piece	8	4
107452	M20x75	piece	11	6
125650	M24x90	piece	15	6

A09 Elongated safety key with ejector



Item no.	Size	Square	Length mm
154683	125/140	9	170
154685	160	10	180
154687	200/230	11	200
154689	250/270	12	200
154695	315	14	250

A09 Torque wrench



Item no.	Torque Nm	Length mm	Output	Working accuracy
10004116	20-120	435	12,7=1/2"	3%
10004117	60-320	659	12,7=1/2"	3%

C15 Set screw with nut, DIN 55021



Item no.	Thread	For taper	Quantity
107453	M10x30	4	3
107455 ▲	M10x35	5	4
107456 ▲	M12x40	6	4
107457 ▲	M16x45	8	4
107458 ▲	M20x55	11	6
127618 ▲	M24x65	15	6

A09 Stud for Camlock ASA B 5.9 (DIN 55029) and cylindrical studs



Item no.	Thread	For taper	Quantity
107465 ▲	7/16-20x35	3	3
107466	7/16-20x37	4	3
107467	1/2-20x43	5	6
107468	5/8-18x49	6	6
107469	3/4-16x55,5	8	6
107470	7/8-14x67	11	6
127621 ▲	1-14x76	15	6

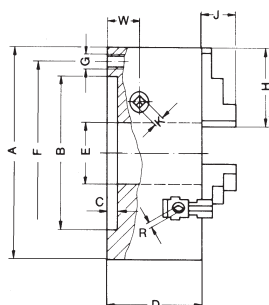
A09 Stud for Camlock ISO 702-2 (DIN 55029) and cylindrical studs



Item no.	Thread	For taper	Quantity
178364 ▲	M10x1	3	3
178365	M10x1	4	3
178366 ▲	M12x1	5	6
178367	M16x1,5	6	6
178368 ▲	M20x1,5	8	6
178369 ▲	M22x1,5	11	6
178370 ▲	M24x1,5	15	6
178371	M27x2	20	6

Chuck dimensions ES

Cylindrical centre mount DIN 6351



The bore (measure E) could be enlarged (at surcharge)

Enlarged bore max.

Size A	100	125	160	200	250	315	400	500	630
BH6	70	95	125	160	200	260	330	420	545
C	3	4	4	4	5	5	5	5	7
D	67	71	80	95,5	100	117	123	145	160
E	20	32	42	55	76	103	136	190	240
E _{max.}	21	33	50	70	92	114	150	210	253
F	83	108	140	176	224	286	362	458	586
G	3xM8	3xM8	3xM10	3xM10	3xM12	3xM16	3xM16	6xM16	6xM16
H	56	56	69	85	90	130	130	190	190
J	22	21	28	32,5	40,6	46,5	47	55	55
K	8	9	10	11	12	14	17	19	19
R*	5,5	5,5	5,5	8	8	8	8	12	12
W	20	20	22,45	25,7	26,5	30	35	38	48
approx. kg	4	6	10	18	29	54	88	145	240

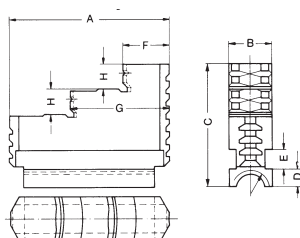
* from Ø 200 hexagon

Max. permissible speeds for chucks ES to DIN 6351

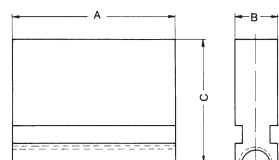
The specified values are only applicable for workpieces not exceeding a specific unbalance of 25 gmm/kg.

Size	3-Jaw Steel body	4-Jaw Steel body
100	-	-
125	-	-
160	3200	2850
200	2650	2350
250	2200	1900
315	1400	1220
400	1400	1220
500	880	770
630	750	660

Reversible jaw UB



Left-hand thread



Size	100	125	160	200	250	315	400	500	630
A	56	56	69	85	90	130	130	190	190
B	18	18	20	24	24	34	34	42	42
C	41,5	41,5	50	57,5	67,5	79,5	79,5	95	95
D	8,7	8,7	9,7	9,7	9,7	11,15	11,15	15	15
E	7	7	8	10	10	15	15	15	15
F	17	17	19	25	26	40	40	50	50
G	35	35	43	54	56	85	85	120	120
H	8	8	10	12	14	15	15	20	20
Thread	Tr14x3	Tr14x3	Tr16x4	Tr18x2	Tr18x2	Tr20x2	Tr20x2	Tr26x3	Tr26x3
approx. kg	0,18	0,18	0,3	0,53	0,7	1,7	1,7	3,7	3,7

KRF - actuation by turning the clamping ring

Lever scroll chuck KRF



APPLICATION

3- and 4-jaw chuck for positioning and conveying workpieces, e.g. on measuring machines.

TYPE

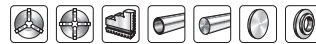
Lever scroll chuck in cast iron version.
3-jaw and 4-jaw version.

CUSTOMER BENEFITS

- Easy clamping of the workpiece by turning the clamping ring
- Sizes 125 - 200: incl. 4 setscrews for fine adjustment
- Cast iron body
- Jaws in chuck ground out for concentricity

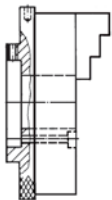
TECHNICAL FEATURES

- 6 jaw chuck for grinding twist drills on request available



A09

Lever scroll chuck KRF, cylindrical centre mount



Size	ZA	Through-hole mm	3-jaw chuck with inside and outside jaw	4-jaw chuck with inside and outside jaw	Torque Nm	Total clamping force kN
70	48	16	148793 ¹⁾	148794 ▲	12	2,5
110	75	26	148757	148772	26	3,2
125	70	35	150757	150758 ▲	36	3,5
160	78,5	52	150759	150760 ▲	50	4
200	115	64	150761	150762 ▲	60	4,5

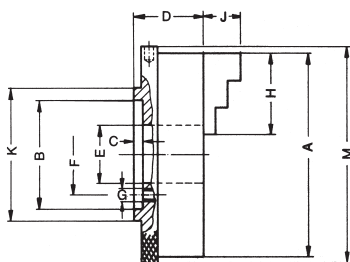
¹⁾ Jaws reversible

Sizes 125 - 200: 4 setscrews for fine adjustment

Further sizes and mountings available on request

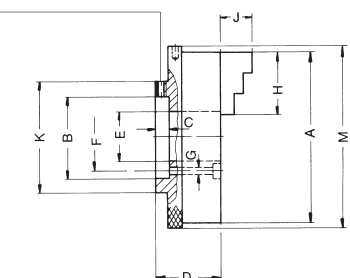
Dimensions KRF, cylindrical centre mount

A	B ^{H6}	C	D	F	3-jaws G	4-jaws G	H	J	K	M	Clamping range external	Clamping range internal	Weight ca. kg 3-jaws	Weight ca. kg 4-jaws
70	48	1,5	33	39	3xM6	3xM6	32	13,6	52	72	2-70	23-70	1	1,4
110	75	2	38	62	3xM8	3xM8	48	19	85	112	3-110	33-104	3	3,4
125	70	8	53	56	3xØ6,6	4xØ6,6	52	22,5	83	129	3-125	37-123	4	4,5
160	78,5	8	52	65	3xØ6,6	4xØ6,6	61	26,6	96	164	3-160	39-152	7	7,5
200	115	13	66	84	3xØ9	4xØ9	69	31	147	205	4-200	44-186	13	14



Size 70-100

4 setscrews for fine adjustment



KRF - on base plate



APPLICATION

3-jaw chuck with base plate for positioning and conveying workpieces, e.g. on measuring machines.

TYPE

Lever scroll chuck in cast iron version.

CUSTOMER BENEFITS

- Easy clamping of the workpiece by turning the clamping ring
- Sizes 125 - 200: incl. 4 setscrews for fine adjustment
- Cast iron body

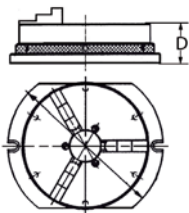
TECHNICAL FEATURES

- Mounted in the chuck with one set of jaws stepped outward (BB)
- One set of jaws stepped inward (DB)
- Size 70 with reversible jaws
- Mounting screws



A09

Lever scroll chucks with base plate, 3-jaw-chuck cast iron body



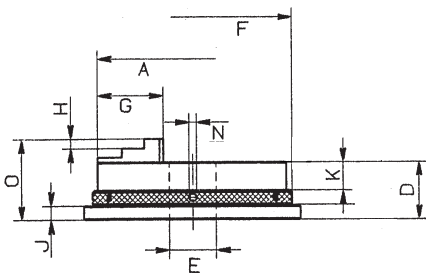
Item no.	Size	Through-hole mm	D mm	Torque Nm	Total clamping force kN
150595 ¹⁾	70	16	46,4	12	2,5
150596	110	26	50	26	3,2
150597▲	125	35	59	36	3,5
150598▲	160	52	59	50	4
150599	200	64	69	60	4,5

¹⁾ Jaws reversible

Further sizes and mountings available on request

Dimensions KRF, cylindrical centre mount

Size	A ₁	B	C	F	G	H	J	K	M	N	O	Clamping range external	Clamping range internal
70	100	70	87	72	32	5	13	21	9	6	60	2-70	23-70
110	140	110	126	112	48	6	13	23	9	8	67,5	3-110	33-104
125	170	125	154	129	52	8	14	32	11	8	81,5	3-125	37-123
160	200	160	184	164	61	10	15	31	11	8	85	3-160	39-152
200	250	200	230	205	69	10	15	39	11	8	100	4-200	44-186



Jaws KRF

A09
Inside jaw BB, DIN 6350, outward stepped jaw, hardened



Chuck Size	3-jaw set	4-jaw set	Jaw length mm	Jaw height mm	Jaw width mm
70	110154 ¹⁾ ▲	149305 ▲	32	23	10
110	110156	110064	48	33,5	14
125	110157	110065	52	41,5	18
160	110159	110067	61	47,5	18
200	110160	110068	69	53,5	20

¹⁾ Reversible for use a turning or inside jaw
Additionally or later applied, hardened stepped jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.

A09
Outside jaw DB, DIN 6350, inward stepped jaw, hardened



Chuck Size	3-jaw set	4-jaw set	Jaw length mm	Jaw height mm	Jaw width mm
70/110	110166	110074	48	33,5	14
125	110167	110075	52	41,5	18
160	110169	110077	61	47,5	18
200	110170	110078	69	53,5	20

Additionally or later applied, hardened stepped jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.

A09
Unstepped jaw BL, DIN 6350, unstepped, soft, material 16MnCr5



Chuck Size	3-jaw set	4-jaw set	Jaw length mm	Jaw height mm	Jaw width mm
70	109114 ¹⁾ ▲	149304 ▲ ¹⁾	32	23	10
110	107589	107599	48	33,5	14
125	107590	107600	52	41,5	18
160	107592	107602	61	47,5	18
200	107593	107603	69	53,5	20

¹⁾ Reversible

Accessories KRF

A09 Chip guard, piece



Item no.	Size	Contents of delivery
108501	100/110	piece
108502	125	piece
108503	140/160	piece
108504	200	piece

A09 Special grease F80 for lathe chucks
For lubrication and conservation of chucking power



Item no.	Design	Contents
308555	Cartridge	0,5 kg
028975	Tin	1 kg

BAV



APPLICATION

For turning out unhardened and grinding out hardened jaws. Adjusting jaws reversible and infinitely variably adjustable.

TYPE

Lightweight design.

CUSTOMER BENEFITS

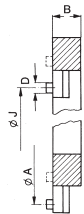
- ③ Using the BAV, the chuck can be put into the status it assumes later during workpiece machining (preclamping) within a few seconds
- ③ The turned clamping surfaces of the chuck jaws are thus form-fit and exactly concentric in the clamped state
- ③ Bypassing a large clamping range

TECHNICAL FEATURES

- Only applicable with base jaws (GB) and top jaws (AB)

A09

Jaw cutting attachment for 3-jaw chucks



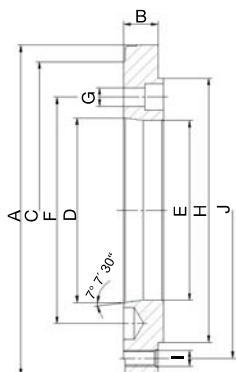
Item no.	Size	For chuck size	Clamping force max. kN	External Ø mm	Inner Ø mm	Overhang distance		B	Thread	Weight approx. kg
						Ø J	Ø A			
220206	0	125	15	153	110	50-115	150-215	20	M5	1,6
220207	1	200	30	176	110	35-125	170-260	31	M8	3,4
220208	2	250	30	215	135	70-140	215-285	31	M8	5
220209	3	250	30	244	162	100-175	240-315	31	M8	5,7
220210	4	315	30	290	208	145-215	290-360	31	M8	6,9
220211 ▲	5	400	40	342	260	160-270	330-440	31	M10	8,5



Adapter plates

A09

Short-taper adapter plate for ISO 702-1 (DIN 55026), finished on both sides (without mounting bolts)



Item no.	Ø A mm	Taper	B mm	C mm	D mm	E mm	F mm	G	H mm	I	J mm
176804▲	125	3	17	102	53,975	51,2	70,6	3xø10,5	95	3x M8	108
176805▲	125	4	17	117	63,513	60,7	82,6	3x ø11	95	3x M8	108
176806▲	125	5	17	146	82,563	79,4	104,8	3x ø11	95	3x M8	108
1349445▲	160	4	18	108	63,513	61	82,6	6xM10	125	6xM10	140
1349447▲	160	5	18	135	82,563	79,6	104,8	6xM10	125	6xM10	140
1349453▲	200	5	18	135	82,563	79,6	104,8	6xM10	160	6xM10	176
1349455▲	200	6	22	165	106,375	103,2	133,4	6xM10	160	6xM12	176
176809▲	200	4	22,5	117	63,513	60,7	82,6	3x ø11	160	3x M10	176
1349457▲	210	8	32	210	139,719	136,2	171,4	6xM10/20	160	3xM16	176
176813▲	250	5	21	146	82,563	79,4	104,8	4x ø11	200	3x M12	224
176814▲	250	6	26	181	106,375	103	133,4	4x ø14	200	3x M12	224
176815▲	250	8	26	225	139,719	136	171,4	4x ø18	200	3x M12	224
176816▲	315	6	31,5	181	106,375	103	133,4	4x ø14	260	3x M12	286
176817▲	315	8	31	225	139,719	136	171,4	4x ø18	260	3x M12	286
176818▲	315	11	31	298	196,869	192,7	235	6x ø22	260	3x M12	286
176819▲	400	6	32,5	181	106,375	103	133,4	4x ø14	330	3x M16	362
176820▲	400	8	32	225	139,719	136	171,4	4x ø18	330	3x M16	362
176821▲	400	11	32,5	298	196,869	192,7	235	6x ø22	330	3x M16	362
176822▲	400	15	36	380	285,775	281,2	330,2	6x ø26	330	3x M16	362
176823▲	500	8	36	225	139,719	136	171,4	4x ø18	420	6x M16	458
176824▲	500	11	36	298	196,869	192,7	235	6x ø22	420	6x M16	458
176825▲	500	15	36	380	285,775	281,2	330,2	6x ø26	420	6x M16	458
159883▲	630	20	42	520	412,775	407,5	463,6	6x ø26	545	6x M16	586
176826▲	630	11	39	298	196,869	192,7	235	6x ø22	545	6x M16	586
176827▲	630	15	39	403	285,775	281,2	330,2	6x ø26	545	6x M16	586

A09

Short-taper adapter plate ISO 702-2 (DIN 55029) and ASA B 5.9 D1, Camlock



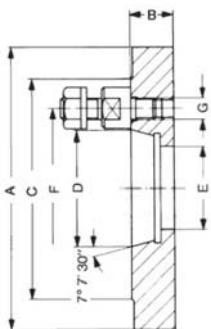
Item no.	Ø A mm	Taper	Inch	B mm	C mm	D mm	E mm	F mm	G	Weight approx. kg
319673▲	125	3	5	27	92,1	53,975	40	70,66	7/16 - 20	2,3
319674▲	125	4	5	28	117,5	63,513	40	82,55	7/16 - 20	2,2
319675▲	160	3	6 ¼	27	92,1	53,975	40	70,66	7/16 - 20	3,9
319676▲	160	4	6 ¼	28	117,5	63,513	40	82,55	7/16 - 20	3,9
319677▲	160	5	6 ¼	31	146	82,563	40	104,8	½ - 20	4,6
319678▲	200	4	8	28	117,5	63,513	50	82,55	7/16 - 20	6,4
319679▲	200	5	8	31	146	82,563	50	104,8	½ - 20	7,4
319680	200	6	8	36	181	106,375	50	133,4	5/8 - 18	8,4
319681▲	250	4	1	28	117,5	63,513	61	82,55	7/16 - 20	10,2
319682▲	250	5	10	31	146	82,563	63	104,8	½ - 20	11,6
319683	250	6	10	36	181	106,375	63	133,4	5/8 - 18	13,3
319684	250	8	10	39	225,4	139,719	63	171,4	¾ - 16	13,8
319685▲	315	5	12 ¼	31	146	82,563	63	104,8	½ - 20	18,6
319686▲	315	6	12 ¼	36	181	106,375	63	133,4	5/8 - 18	21,5
319687▲	315	8	12 ¼	39	225,4	139,719	63	171,4	¾ - 16	22,6
319688▲	315	11	12 ¼	45	298,4	196,869	63	235	7/8 - 14	25,2
319689▲	400	6	15 ¾	36	181	106,375	63	133,4	5/8 - 18	35
319690▲	400	8	15,75	39	225,4	139,719	63	171,4	¾ - 16	37,2
319691▲	400	11	15,75	45	298,4	196,869	63	235	7/8 - 14	42
319692▲	400	15	15,75	50	403	285,775	63	330,2	1 - 14	42,1
319693▲	500	8	20	41	225,4	139,719	80	171,4	¾ - 16	62
319694▲	500	11	20	45	298,4	196,869	80	235	7/8 - 14	67
319695▲	500	15	20	50	403	285,775	80	330,2	1 - 14	68

Further sizes and designs, such as ISO 702-1, available on request!

Adapter plates

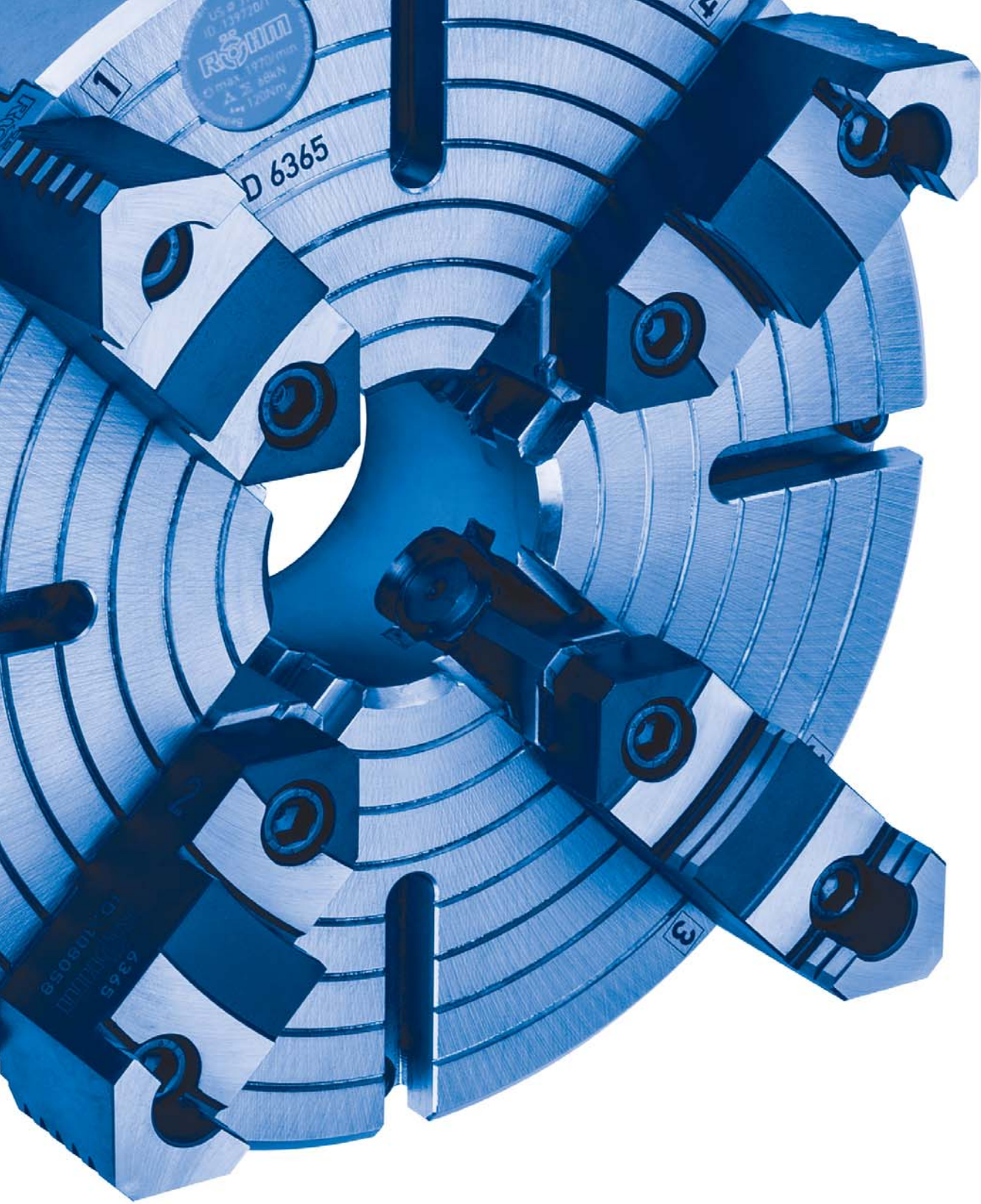
A09

Short-taper adapter plate ISO 702-3 (DIN 55027) and 55022 with studs and locknuts



Item no.	Ø A mm	Taper	Inch	B mm	C mm	D mm	E mm	F mm	G	Weight approx. kg
319650 ▲	125	3	5	19	102	53,975	40	75	M10	2,3
319651 ▲	125	4	5	19	112	63,513	40	85	M10	2,2
319652 ▲	160	3	6 ¼	21	102	53,975	40	75	M10	3,9
319653 ▲	160	4	6 ¼	21	112	63,513	40	85	M10	3,9
319654	160	5	6 ¼	21	135	82,563	40	104,8	M10	4,6
319655 ▲	200	4	8	21	112	63,513	50	85	M10	6,4
319656	200	5	8	21	135	82,563	50	104,8	M10	7,4
319657	200	6	8	23	170	106,375	50	133,4	M12	8,4
319658 ▲	250	4	1	21	112	63,513	61	85	M10	10,2
319659 ▲	250	5	10	21	135	82,563	63	104,8	M10	11,6
319660	250	6	10	23	170	106,375	63	133,4	M12	13,3
319661	250	8	10	26	220	139,719	63	171,4	M16	13,8
319662 ▲	315	5	12 ¼	26	135	82,563	63	104,8	M10	18,6
319663 ▲	315	6	12 ¼	26	170	106,375	63	133,4	M12	21,5
319664	315	8	12 ¼	26	220	139,719	63	171,4	M16	22,6
319665 ▲	315	11	12 ¼	33	290	196,869	63	235	M20	25,2
319666 ▲	400	6	15 ¾	31	170	106,375	63	133,4	M12	35
319667 ▲	400	8	15,75	31	220	139,719	63	171,4	M16	37,2
319668 ▲	400	11	15,75	31	290	196,869	63	235	M20	42
319669 ▲	400	15	15,75	33	400	285,775	63	330,2	M24	42,1
319670 ▲	500	8	20	41	220	139,719	80	171,4	M16	62
319671 ▲	500	11	20	41	290	196,869	80	235	M20	67
319672 ▲	500	15	20	41	400	285,775	80	330,2	M24	68

Further sizes and designs, such as ISO 702-1, available on request!



JAWS INDIVIDUALLY ADJUSTABLE

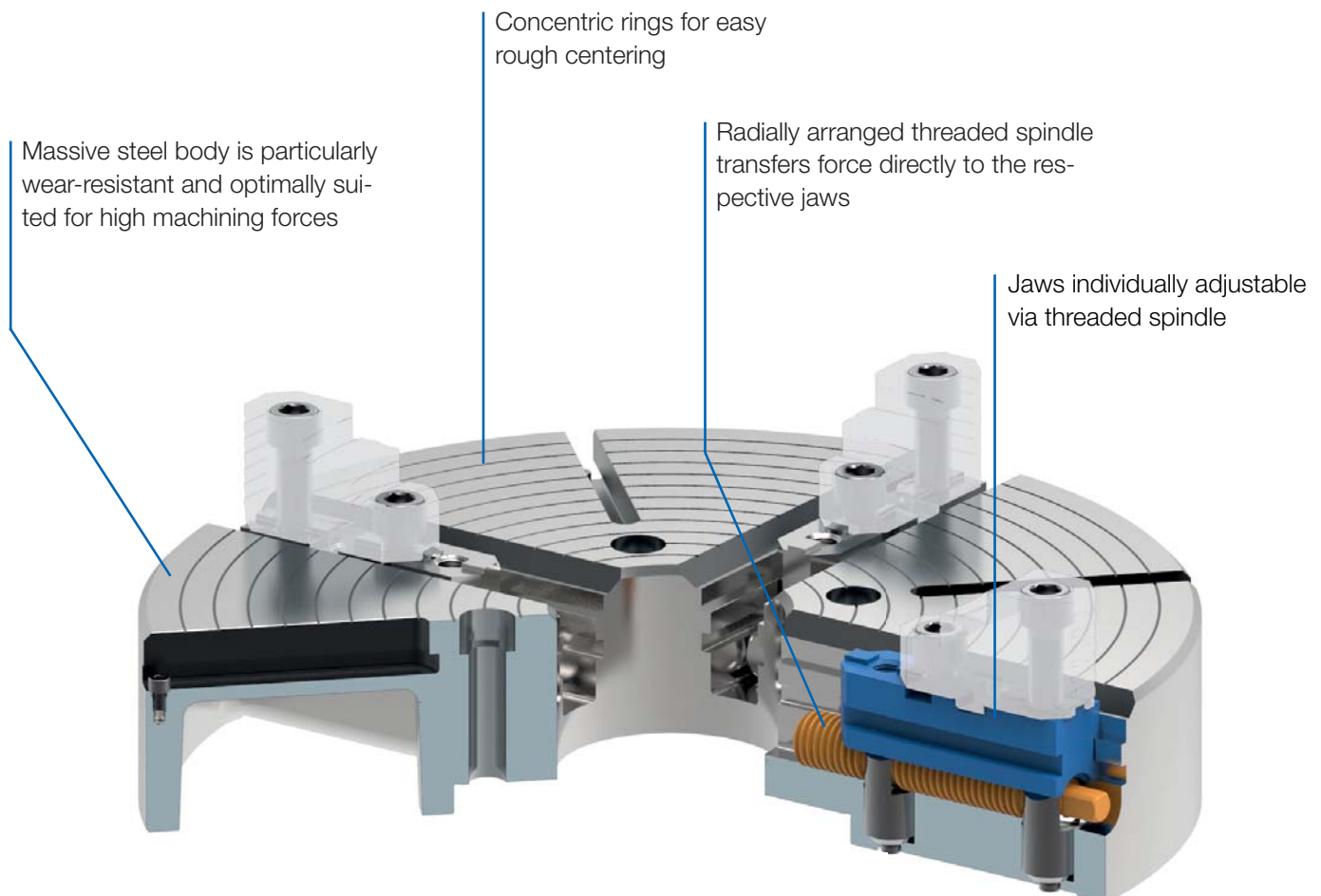
The four jaws can be independently adjusted via the threaded spindle, thereby allowing the safe and secure clamping of irregular, regular, as well as round workpieces.

INDEPENDENT CHUCKS

Independent chucks from RÖHM are particularly successful and effective when force has top priority. Due to the increased rigidity and optimal wear behavior, they are especially suitable for the initial machining of irregular, regular and round workpieces and make high machining forces and a longer machine service life possible.

ADVANTAGES AT A GLANCE

- ⊕ Safe and easy clamping of irregular, regular, as well as round workpieces by four independently adjustable jaws
- ⊕ Easy rough centering by means of concentric rings on the chuck body
- ⊕ Direct force transfer through radially arranged threaded spindles



USE - USU - individually adjustable jaws



APPLICATION

Clamping chucks for lathes on which large, heavy or irregularly shaped workpieces are clamped.

TYPE

Independent 4-jaw chuck in steel design. Jaws individually adjustable via threaded spindle (no central drive). Starting from size 315 with T-slots. Starting from size 1100 with T-slots and set-up slots.

CUSTOMER BENEFITS

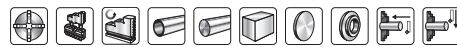
- Concentric rings for visual rough centering, fine centering using dial gauge

TECHNICAL FEATURES

- Steel design incl. clamping wrench and fastening screws, as well as 1 set of reversible or base and top jaws

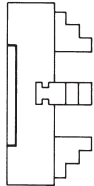
USE = individually adjustable jaws, steel, one-piece jaws

USU = individually adjustable jaws, steel, reversible top jaws



A26

Cylindrical centre mount (without mounting bolts)

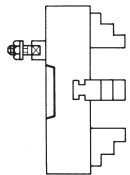


Size	With one-piece reversible jaws	With base jaws and top jaws	Through-hole mm	Speed max. min ⁻¹	Torque Nm	Clamping force/jaw kN
260	139781 ▲	137147 ▲	70	2350	120	17
310	139796 ▲	139720 ▲	75	1970	120	17
400	139827 ▲	135368 ▲	95	1530	170	23
450	139842 ▲	136944 ▲	95	1360	170	23
500	139857 ▲	135631 ▲	95	1220	170	23
630	139887 ▲	139723 ▲	135	970	240	37
710	140800 ▲	141097 ▲	135	860	240	37
800	140801 ▲	141106 ▲	190	765	300	45

Further sizes and mountings available on request

A26

ISO 702-3 (DIN 55027), DIN 55022, with studs and locknuts, optional DIN 55021 with set screw and nut



Size	Mount short taper	With one-piece reversible jaws	With base jaws and top jaws	Through-hole mm	Speed max. min ⁻¹	Torque Nm	Clamping force/jaw kN
260	4	139782 ▲	137163 ▲	61	2350	120	17
260	5	139783 ▲	137164 ▲	70	2350	120	17
260	6	139784 ▲	137165 ▲	70	2350	120	17
310	5	139797 ▲	139724 ▲	75	1970	120	17
310	6	139798 ▲	139725 ▲	75	1970	120	17
310	8	139799 ▲	139726 ▲	75	1970	120	17
400	6	139828 ▲	135371 ▲	95	1530	170	23
400	8	139829 ▲	135372 ▲	95	1530	170	23
400	11	139830 ▲	135358 ▲	95	1530	170	23
450	6	139843 ▲	136947 ▲	95	1360	170	23
450	8	139844 ▲	136948 ▲	95	1360	170	23
450	11	139845 ▲	136957 ▲	95	1360	170	23
500	6	139858 ▲	135632 ▲	95	1220	170	23
500	8	139859 ▲	135633 ▲	95	1220	170	23
500	11	139860 ▲	135696 ▲	95	1220	170	23
630	8	139888 ▲	139767 ▲	136	970	240	37
630	11	139889 ▲	139768 ▲	136	970	240	37
630	15	139890 ▲	139769 ▲	136	970	240	37
710	8	141088 ▲	141098 ▲	136	860	240	37
710	11	141089 ▲	141099 ▲	136	860	240	37
800	8	141092 ▲	600638 ▲	200	765	300	45
800	11	141093 ▲	141107 ▲	192	765	300	45

Further sizes and mountings available on request

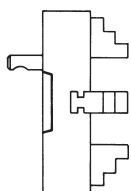
USE - USU - individually adjustable jaws

Size	Mount short taper	With one-piece reversible jaws	With base jaws and top jaws	Through-hole mm	Speed max. min ⁻¹	Torque Nm	Clamping force/ jaw kN
800	15	141094 ▲	141108 ▲	192	765	300	45
900	11	-	600639 ▲	190	680	300	45
900	15	-	600641 ▲	190	680	300	45
1000	11	-	141115 ▲	190	610	320	47
1000	15	-	141116 ▲	190	610	320	47
1000	20	-	600645 ▲	190	610	320	47
1100	11	-	150500 ▲	190	555	320	47
1100	15	-	600642 ▲	190	555	320	47
1100	20	-	600646 ▲	190	555	320	47
1200	11	-	150501 ▲	190	510	450	64
1200	15	-	600643 ▲	190	510	450	64
1200	20	-	600647 ▲	190	510	450	64

Further sizes and mountings available on request

A26

ISO 702-2 (DIN 55029), ASA B 5.9, type D, with studs for Camlock



Size	Mount short taper	With one-piece reversible jaws	With base jaws and top jaws	Through-hole mm	Speed max. min ⁻¹	Torque Nm	Clamping force/ jaw kN
260	4	139791 ▲	137166 ▲	60	2350	120	17
260	5	139792 ▲	137254 ▲	70	2350	120	17
260	6	139793 ▲	137255 ▲	70	2350	120	17
310	5	139806 ▲	139733 ▲	75	1970	120	17
310	6	139807 ▲	139734 ▲	75	1970	120	17
310	8	139808 ▲	139735 ▲	75	1970	120	17
400	6	139837 ▲	135375 ▲	95	1530	170	23
400	8	139838 ▲	135376 ▲	95	1530	170	23
400	11	139839 ▲	135359 ▲	95	1530	170	23
450	6	139852 ▲	136951 ▲	95	1360	170	23
450	8	139853 ▲	136952 ▲	95	1360	170	23
450	11	139854 ▲	136955 ▲	95	1360	170	23
500	6	139867 ▲	135703 ▲	95	1220	170	23
500	8	139868 ▲	135704 ▲	95	1220	170	23
500	11	139869 ▲	135705 ▲	95	1220	170	23
630	8	139897 ▲	139776 ▲	136	970	240	37
630	11	139898 ▲	139777 ▲	136	970	240	37
630	15	139899 ▲	139778 ▲	136	970	240	37
710	8	140804 ▲	141102 ▲	136	860	240	37
710	11	140805 ▲	141103 ▲	136	860	240	37
710	15	-	141418	136	860	240	37
800	11	140810 ▲	141418 ▲	192	765	300	45
800	15	140811 ▲	141112	192	765	300	45
900	11	-	600660 ▲	190	680	300	45
900	15	-	600661 ▲	190	680	300	45
1000	11	-	141119 ▲	190	610	320	47
1000	15	-	141120 ▲	190	610	320	47
1000	20	-	600665 ▲	190	610	320	47
1100	11	-	150504 ▲	190	555	320	47
1100	15	-	600662 ▲	190	555	320	47
1100	20	-	600666 ▲	190	555	320	47
1200	11	-	150505 ▲	190	510	450	64
1200	15	-	600663 ▲	190	510	450	64
1200	20	-	600667 ▲	190	510	450	64

Further sizes and mountings available on request

Jaws USE - USU

A09

Reversible jaw EB, 4-jaw set, hardened tongue and groove for external and internal clamping, material 16 MnCr5



Item no.	Chuck Size	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
022985	260	set	85	64	35
022986	310	set	94	66	35
163108 ▲	400/450	set	112	80	40
163109 ▲	500	set	136	88	40
175358 ▲	630/710	set	172	108	45
247823 ▲	800	set	185	130	60

A09

Base jaw GB, 4-jaw set, with fixing screw



Item no.	Chuck Size	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
304656 ▲	260	set	91	40,1	35
304657 ▲	310	set	107	40,1	35
304658 ▲	400/450	set	126	47,1	40
304659 ▲	500	set	164,4	47,1	40
304660 ▲	630	set	165	51,1	45
304661 ▲	710	set	202	51,1	45
304662 ▲	800/900/1000/1100	set	240	61,1	60
150543 ▲	1200	set	350	92,2	70

A09

Reversible top jaws UB DIN 6350, hardened, tongue and groove for external and internal clamping, material 16 MnCr5



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
108057	260	4	set	95,3	52,5	36
108058	310	4	set	109,5	57,5	42
108059	400/450	4	set	127	64,5	42
108060	500/630/710	4	set	127	79,5	50
105085	800/900	4	set	210	89	68
105101	1000/1100/1200	4	set	210	110	68

Additionally or later applied, hardened stepped jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.

A09

Unstepped top jaw AB DIN 6350, 4-jaw set, soft, material 16MnCr5



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
107579	260	4	set	103	53	36,5
107580	310	4	set	120	58	42,5
107581	400/450	4	set	137	65	42,5
107582	500/630/710	4	set	140	80	50,5
105105	800/900	4	set	210	89	68
105109	1000/1100/1200	4	set	210	110	68

Accessories USE - USU

A26

Adjusting spindle



Item no.	Size	Square	Hexagon
169142 ▲	260	10	-
166565 ▲	310	10	-
162110 ▲	400	13	-
162121 ▲	450	13	-
161629 ▲	500	13	-
161611 ▲	630	16	-
247826 ▲	800	18	-
150544 ▲	900	18	-
150545 ▲	1000	18	-
150546 ▲	1100	18	-
149776 ▲	1200	-	24

A26

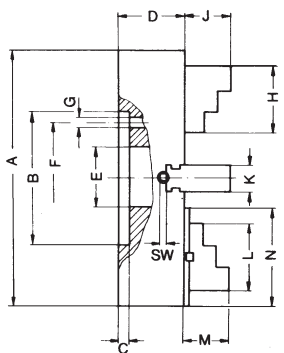
Safety key



Item no.	Size	Square	Hexagon
160096 ▲	260/310	10	-
160097 ▲	400	13	-
160098 ▲	450/500	13	-
160099 ▲	630/710	16	-
160100 ▲	800/900/1000/1100	18	-
150548 ▲	1200	-	24

Chuck dimensions USE - USU

Cylindrical centre mount



Size A	260	310	400	450	500	630	710	800
B ^{H8}	130	130	210	210	210	260	260	370
C	8	8	18	18	18	18	18	18
D	USE - USU	85	95	112,5	112,5	122,5	132,5	145
E	USE - USU	70	75	95	95	135	135	180
F		105	105	175	175	220	220	330
G		4x13,5	4x13,5	4x17	4x17	4x20,5	4x20,5	8x22
H		85	94	112	112	136	172	185
J		34	35	41,5	42	50	55,5	80
K		35	35	40	40	45	45	60
L		80	87	105	114	126	140	210
M		56,5	60,5	54	54	69	69	91
N		100	105	125	135	145	165	240
SW		10	10	13	13	16	16	18
approx. kg		23	32	52	76	91	150	270

1) Outer hexagon

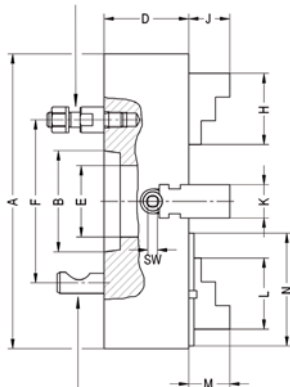
Short taper mount

DIN 55021 with setscrews and locknuts

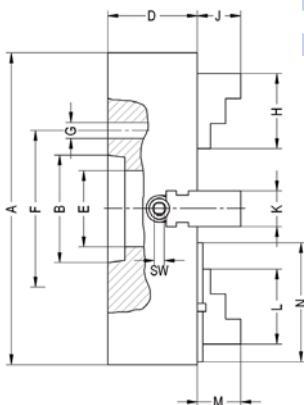


Size A	260			310			400			450			500			630		
Taper size	4 ¹⁾	5 ²⁾	6	5	6	8	6	8	11	6	8	11	6	8	11	8	11	15
B	63,5	82,5	106,4	82,5	106,4	139,7	106,4	139,7	196,9	106,4	139,7	196,9	106,4	139,7	196,9	139,7	196,9	285,8
D		75			82			112,5			112,5			112,5		122,5		
E		61	70	70		75		95			95			95		135		
F		85	104,8	133,4	104,8	133,4	171,4	133,4	171,4	235	133,4	171,4	235	133,4	171,4	235	171,4	235
G		11	11	14	11	14	18	14	18	22	14	18	22	14	18	22	18	22
H		85			94			112			112			136		172		
J		34			35			42			42			50		55,5		
K		35			35			40			40			40		45		
L		36			42			42			42			50		50		
M		95,3			109,5			127			127			127		127		
N		56,5			60,5			54			54			69		69		
SW		10			10			13			13			13		16		
approx. kg		23			32			52			76			91		150		

DIN 55027 with studs and nuts



DIN 55029 with studs for camlock



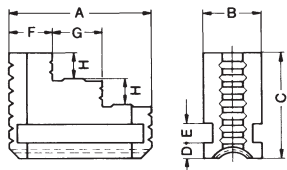
Size A	710			800		
Taper size	8	11	15	8	11	15
B	139,7	196,9	285,8	139,7	196,9	285,8
D		132,5			145	
E		135			180	
F	171,4	235	330,2	171,4	235	330,2
G	18	22	26	18	22	16
H		172			185	
J		55,5			80	
K		45			60	
L		68			68	
M		210			210	
N		69			91	
SW		202			240	
approx. kg		16			18	
		190			270	

DIN 55026 mounting from front

- 1) Not for DIN 55021 or A1/A2 inch
- 2) Not for A1/A2 inch

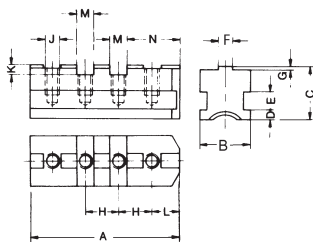
Jaw dimensions USE - USU

Reversible one-piece jaw EB



Size	260	310	400	450	500	630	710	800
A	85	94	112	136	172	185		
B	35	35	40	40	45	60		
C	64	66	80	88	108	130		
D	10	10	10	10	12	14		
E	12	12	14	14	14	18		
F	27	30	36	42	52	55		
G	29	32	38	46	60	65		
H	14	15	19	23	26	30		
approx. kg	0,8	0,9	1,6	2,25	3,5	4,2		

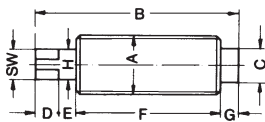
Base jaw GB



Size	260	310	400	450	630	710	800
A	91	107	126	165	202	240	
B	35	35	40	45	45	60	
C	40,1	40,1	47,1	51,1	51,1	61,1	
D	10	10	10	12	12	14	
E	12	12	14	14	14	18	
F	12,7	12,7	12,7	12,7	12,7	12,7	
G	3,1	3,1	3,1	3,1	3,1	3,1	
H	54	63,5	76,2	38,1	38,1	38,1	
J	M12	M12	M16	M20	M20	M20	
K	7,6	7,6	10,8	10,8	10,8	10,8	
L	21,2	24,4	27,5	27,5	27,5	27,5	
M	19,03	19,03	19,03	19,03	19,03	19,03	
N	38,7	46,6	56,1	56,1	56,1	56,1	
Grooves	1	1	1	2	3	4	
Tapped holes	2	2	2	4	5	6	
approx. kg	0,8	0,9	1,1	1,4	2,2	2,8	

Reversible top jaw UB and unstepped top jaw

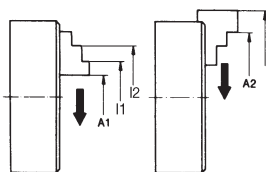
Adjusting spindle



Size	260	310	400	450	500	630	710	800
A	26	26	30	30	30	34	34	40
B	83,5	99	129	167	170	200	200	240
C	14	14	16	-	-	28	28	33
D	13	15	16	16	19	20,5	20,5	24
E	13,5	15	18,5	22	22	21,5	21,5	24
F	45	55	78	132	129	143	143	172
G	12	14	16,5	-	-	13,5	13,5	20
H	14	14	16	16	16	20	20	22
SW	10	10	13	13	13	16	16	18

1) With outer hexagon

Chucking capacities of jaw steps (standard values)



Size mm	260	310	400	450	500	630	710	800
A1 min.	20	20	35	40	40	60	130	190
A2 max.	260	295	400	450	500	585	690	800
I1 min.	75	80	90	100	145	145	245	170
I2 max.	260	310	360	450	520	650	730	820
max. swing. dia.	305	355	465	510	610	675	785	870

F-senso chuck clamping force measuring device

F-senso chuck



APPLICATION

Suitable for 3 jaw chucks and vices.

The F-senso clamping force measurement device enables you to check the clamping force as well as the rotational speed of your clamping tools.

The centrifugal behavior is thus directly related to the accompanying software evaluated.

TYPE

- ④ Broad clamping range of 75 - 175 mm through interchangeable pressure pins
- ④ Broad measuring range from 0 - 100 kN per jaw
- ④ Dynamic clamping force measurement under rotation up to 8250 rpm
- ④ Real-time data transmission via Bluetooth to included tablet
- ④ Delivered in the practical hard-shell case

TECHNICAL FEATURES

- No additional attachments necessary on the machine
- Easy positioning through positioning aid
- Automated switch-off



Video F-senso chuck

ADVANTAGES AT A GLANCE

- ④ Direct output of the centrifugal force behavior through combined measurement of clamping force and speed
- ④ Flexibility through large clamping and measuring range
- ④ Easy handling without additional set-ups on the machine

Included in the scope of delivery:

- Base with foam insert
- Clamping force measuring head, F-senso chuck
- Pressure bolts in lengths 5 mm, 15 mm, 25 mm and 30 mm
- Pressure bolt elongation in length 25 mm
- Practical insertion aid
- Tablet PC with pre-installed measuring and evaluation program



C 15

Clamping force measurement device F-senso chuck

Id.-Nr.	179800
Measuring range / Clamping force kN	2 jaws: 0 - 200; 3 jaws: 0 - 300
Measuring range / Rotation speed min-1	0 - 8250
Accuracy	Force <0.5% / Rotation speed ±10 rpm within the complete measuring range
Clamping Ø mm	75 - 175
Dimensions (base unit)	Ø 75/80 x 130

Power-Grip zero-point clamping system



Palletizing systems, such as the Power-Grip zero-point clamping system from RÖHM, achieve a drastic increase in production. This modular system meets the demands for customized solutions with the best possible utilization of the machine capacity. While the machine tool was stopped for the time of the set-up operation before, now the workpiece can be clamped and positioned on the pallet outside of the machine tool.

The set-up time is now only limited to the changing in and out of the pallet within a few seconds. If several production processes are necessary for machining, the pallet can be used along with the workpiece without a zero-point loss. Due to the sturdy and rust-resistant design, the Power-Grip zero-point clamping system is universally suitable for applications ranging from cutting machining to electrical discharge machining all the way to measuring machines.

ADVANTAGES AT A GLANCE

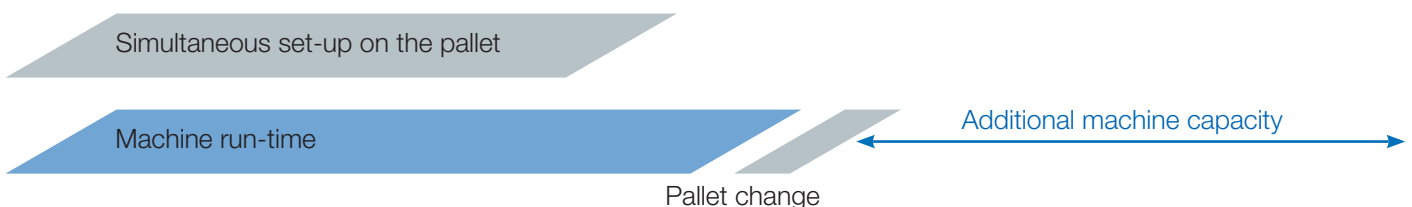
- ⌚ Increase in productivity thanks to set-up time reduction up to 90 %
- ⌚ Maximum precision and repeatability of 0.002 mm
- ⌚ Palletizing and clamping device from one source

SET-UP TIME REDUCTION BY UP TO 90 %

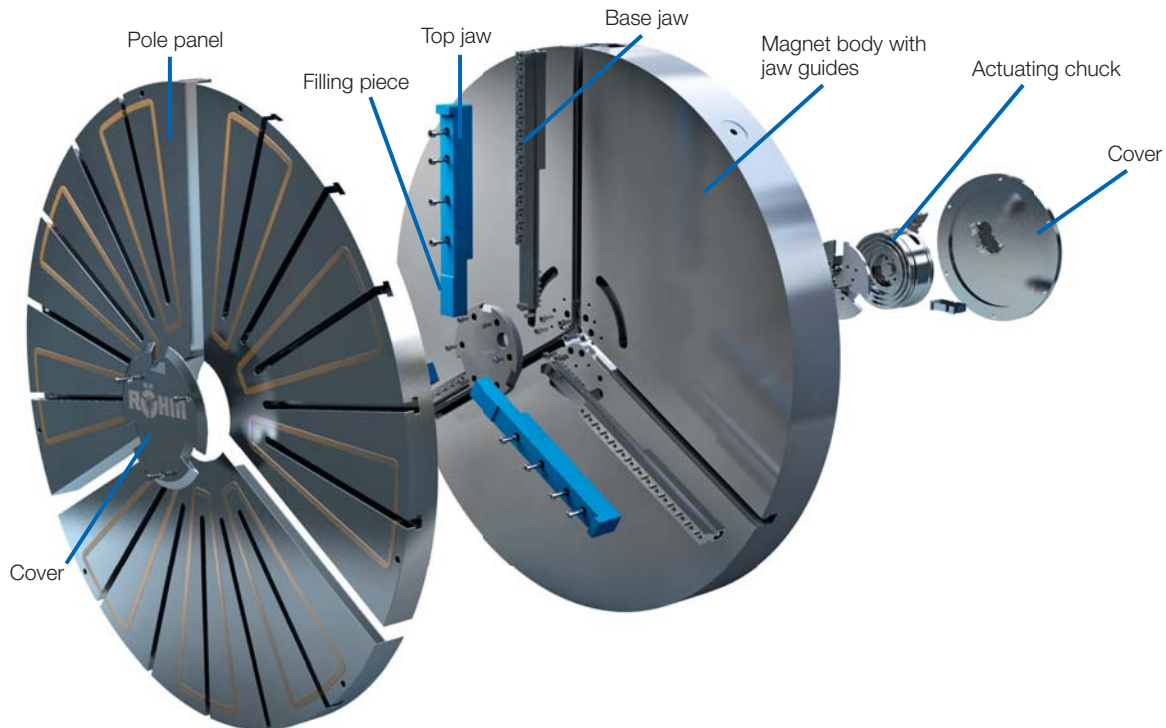
Without palletizing system



With Power-Grip zero-point clamping system



MZMF Hybrid chuck



Combined 2-jaw centering chuck with magnetic clamping plate

A precisely centered and deformation-free setup is of utmost importance, especially for easily deformable workpieces which require turning machining from all three sides within one working operation. Thanks to the combination of magnetic clamping force and deformation-free centering, workpieces, such as rings or other hard-to-grip parts having a wide range of sizes and contours, can be precisely clamped within seconds with the hybrid chuck MZMF.

Technische Merkmale:

- Set-up times reduced by up to 50%
- Machine downtimes reduced to a minimum
- 3-side machining for turning and grinding parts
- 16 individually adjustable adhesion stages
- Uniform and deformation-free setup
- Combined magnetic and centering chuck clamping are possible
- High process reliability for rational series production
- Fast amortization



Other special solutions

For special customer demands, RÖHM offers an individual range of special solutions, which goes far beyond the standard product range. From the smallest „Micro Technology“ clamping chuck for watches and jewelry machining to impressive chucks with a diameter of over 5.5 meters and weight of 25 tons for rail vehicles or the energy sector.



Machining of large bearings and rotary unions

Chuck for turning machining

- Constant clamping force at high speeds by means of centrifugal force compensation
- Integrated quick jaw change system for minimum setup times



Machining of large bearings and rotary unions

Chuck for drilling machining

- Centrally clamping wedge hook chuck
- Quickly adjustable clamping jaws and stops for minimum set-up times



Clamping chucks for rail traffic

- Clamping diameters of up to 1.3 meters with flexible set-up for individually changing workpiece sizes
- Automated jaw adjustment for inner and outer machining



Independent chucks for power plants and steel mills

- Clamping diameter of up to 5 meters
- Safe clamping using power spindles allows up to 50 tons of clamping force per jaw

For further informations of our special solutions in any areas visit our homepage:

<http://www.roehm.biz/downloads/>

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