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LIVE CENTERS - FACE DRIVERS

Revolving tailstock centres

MKS - Tip angle 60° 2004

Revolving tailstock centres - for interchangeable inserts

MKS - interchangeable inserts 2016

Interchangeable inserts 2017

Revolving tailstock centres

MKS heavy 2019

Revolving centering tapers

MZK 2022

Accessories MZK 2022

MZK 2023

Dead centres

FKS 2024

Constant face drivers

CoA 2027

Adapter plate CoA 2030

Accessories CoA 2031

CoA Assortments 2035

CoE NEW PRODUCT!!! 2036

Accessories CoE 2037

CoM 2038

Adapter plate CoM 2038

Driving head CoM 2039

Driving discs CoM 2039

Accessories CoM 2040

CoB 2041

Adapter plate CoB 2041

Driving heads CoB 2042

Accessories CoB 2045

Powerful, extremely capable and exceptionally durable. Plus top marks for processing precision. Simply great - through and through!





LIVE CENTERS - FACE DRIVERS

Revolving tailstock centres		2004
Revolving centering tapers		2022
Dead centres		2024
Constant face drivers CoA		2027
Constant face drivers CoE	NEW PRODUCT!!!	2036
Constant face drivers CoM		2038
Constant face drivers CoB		2041

Please note:
The delivery time specified in the catalogue is valid from 01.01.2012

Operation Guide

Workpiece weight max. kg

MT	50	100	150	200	250	300	350	400	500	600	650	700	750	800
1	604 HM n=7000 RO=0,05	601 N n=7000 RO=0,05												
	624 HZ n=7000 RO=0,05	604 H n=7000 RO=0,05												
		604 HVL n=7000 RO=0,01												
2	614 n=7000 RO=0,01	604 HM n=7000 RO=0,005	600-20 n=7000 RO=0,008	600 n=7000 RO=0,005										
		624 HZ n=7000 RO=0,005	604 HVL n=7000 RO=0,005	601 N n=7000 RO=0,005										
		664 n=12000 RO=0,01	604 HMG n=7000 RO=0,005	604 H n=7000 RO=0,005										
				604 HP n=7000 RO=0,003										
				604 HG n=7000 RO=0,005										
3		664 n=4000 RO=0,01	615 n=8000 RO=0,01		604 HM n=6300 RO=0,005	601 N n=6300 RO=0,005	600-20 n=7000 RO=0,008	600 n=7000 RO=0,005	604 HP n=5000 RO=0,003					
			614 n=5000 RO=0,01		624 HZ n=5000 RO=0,005		604 HMG n=6300 RO=0,005	604 H n=5000 RO=0,005	604 HG n=5000 RO=0,005					
					652 AC VL n=4000 RO=0,01		604 HVL n=5000 RO=0,005							
							652 AC n=4000 RO=0,01							
4					664 n=9000 RO=0,01	615 n=7000 RO=0,01		624 HZ n=3800 RO=0,005	604 HVL n=3800 RO=0,005			600-20 n=6300 RO=0,008	601-N n=3800 RO=0,005	600 n=6300 RO=0,005
					614 n=3800 RO=0,01				604 HM n=3800 RO=0,005					604 H n=3800 RO=0,005
									604 HMG n=3800 RO=0,005					604 HP n=3800 RO=0,003
									652 AC VL n=3500 RO=0,01					604 HG n=3800 RO=0,003
														652 AC n=3500 RO=0,01
5					664 n=9000 RO=0,01					615 n=5000 RO=0,01	614 n=3000 RO=0,01			
6														614 n=2600 RO=0,015

Operation Guide

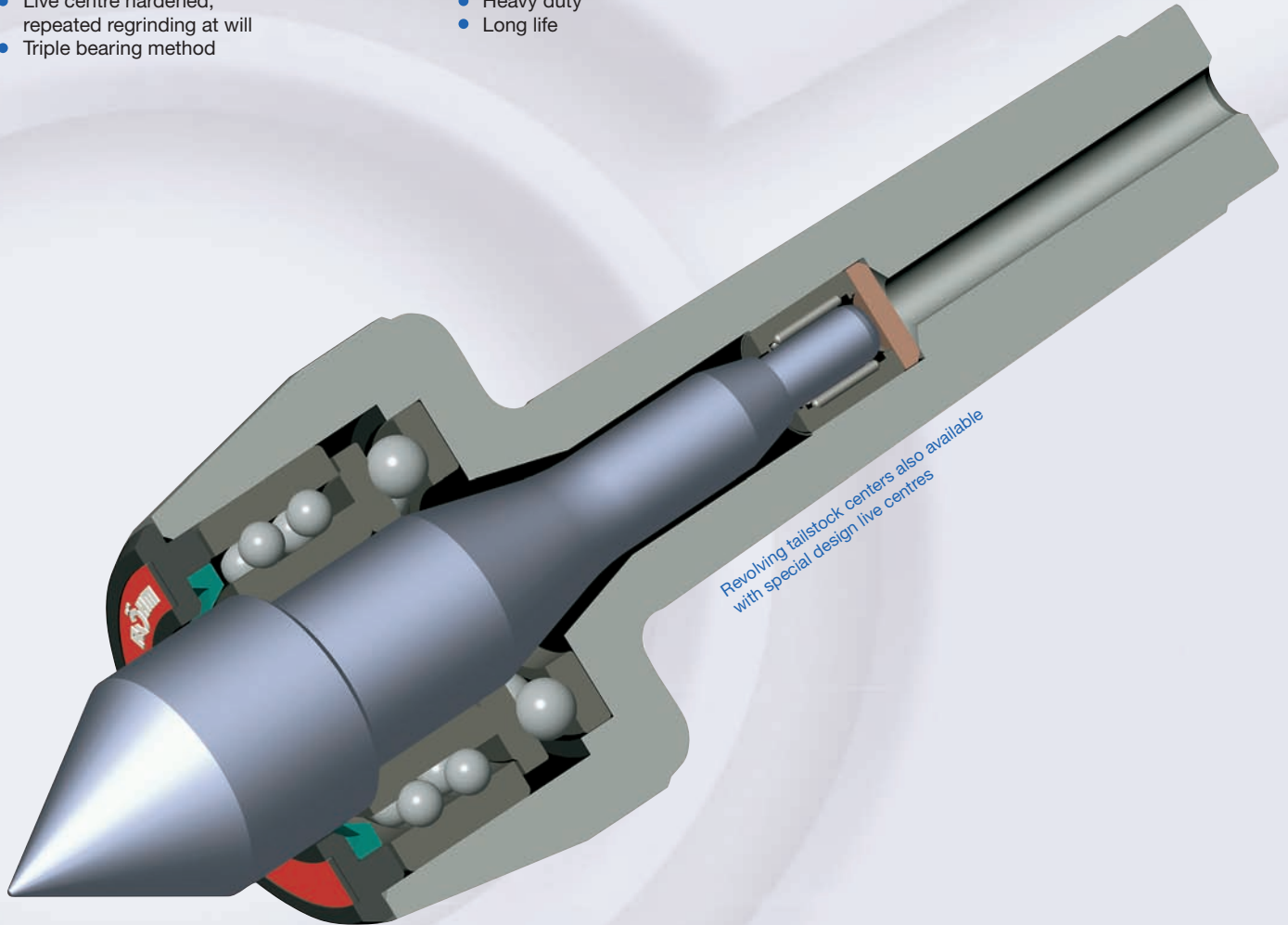
Workpiece weight max. kg

1000	1100	1200	1250	1400	1600	1700	1800	2000	2500	3000	3200	3500	5000	MT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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design</td> </tr> <tr> <td colspan="13">Type 600-20 extended live centre</td> </tr> <tr> <td colspan="13">Type 600-20 profiled centre point</td> <td>2006</td> </tr> <tr> <td colspan="13">VDI shank/DIN 69880, live centre spring loaded (Type 645-00)</td> <td rowspan="2">2012</td> </tr> <tr> <td colspan="13">Type 645-00 standard design</td> </tr> <tr> <td colspan="13">Type 645-20 extended live centre</td> <td>2012</td> </tr> <tr> <td colspan="13">High load, high speed (Type 640)</td> <td rowspan="2">2011</td> </tr> <tr> <td colspan="13">Type 640-20 standard design</td> </tr> <tr> <td colspan="13">Type 640-80 with draw-off nut</td> <td>2011</td> </tr> <tr> <td colspan="13">Pressure display, length compensation (Type 652)</td> <td rowspan="2">2013</td> </tr> <tr> <td colspan="13">Type 652 AC standard design</td> </tr> <tr> <td colspan="13">Type 652 AC-VL extended live centre</td> <td>2014</td> </tr> <tr> <td colspan="13">Other</td> <td rowspan="5">2010</td> </tr> <tr> <td colspan="13">Type 624 HZ with centre bore</td> </tr> <tr> <td colspan="13">Type 615 impact damping</td> </tr> <tr> <td colspan="13">Type 663 for especially high speeds, different head-Ø at same size of shank</td> </tr> <tr> <td colspan="13">Type 664 extended NC-centre with carbide insert</td> </tr> <tr> <td colspan="13">Type 614 for interchangeable inserts</td> <td>2016</td> </tr> <tr> <td colspan="14"> n= speed max. min⁻¹ RO= Concentricity deviation </td> </tr> <tr> <td>640-20 n=7000 RO=0,005</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td rowspan="2">4</td> </tr> <tr> <td>640-80 n=7000 RO=0,005</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td rowspan="4">5</td> </tr> <tr> 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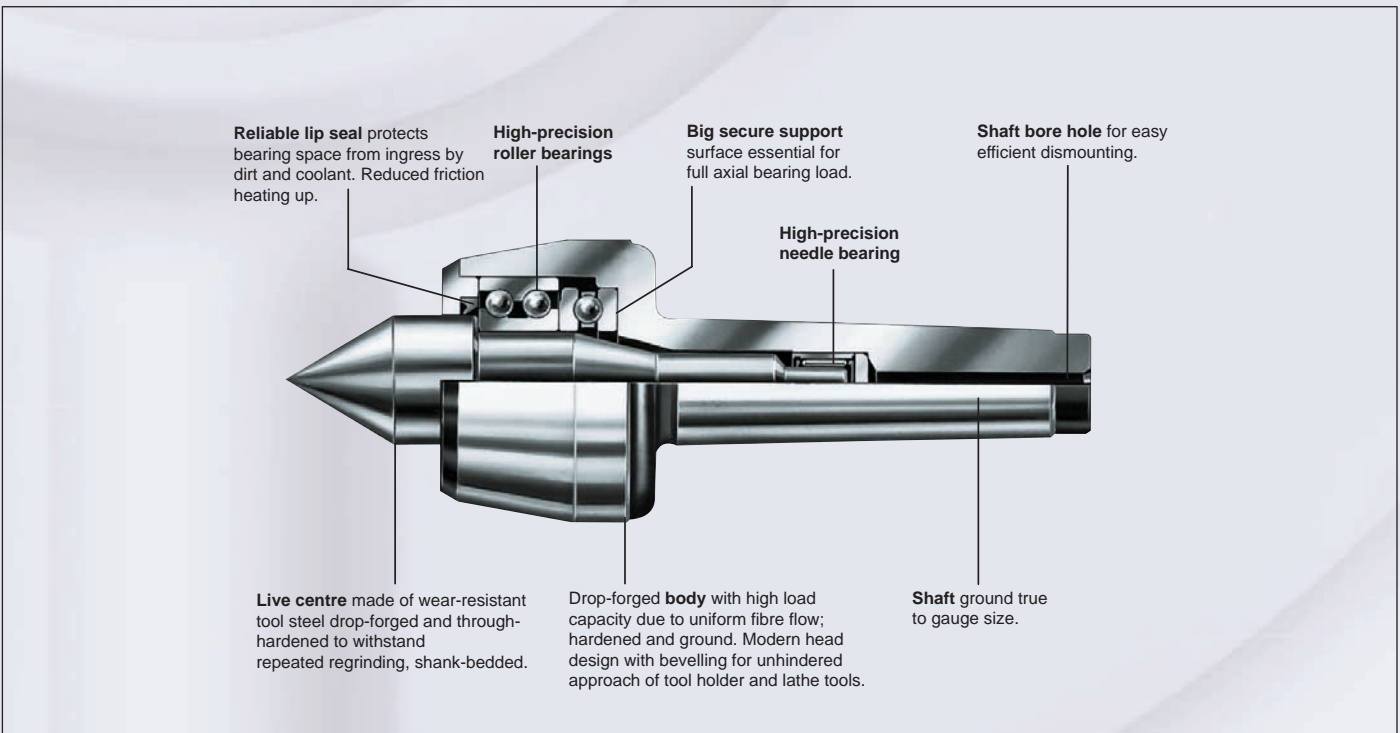
Technical features MKS

Advantages:

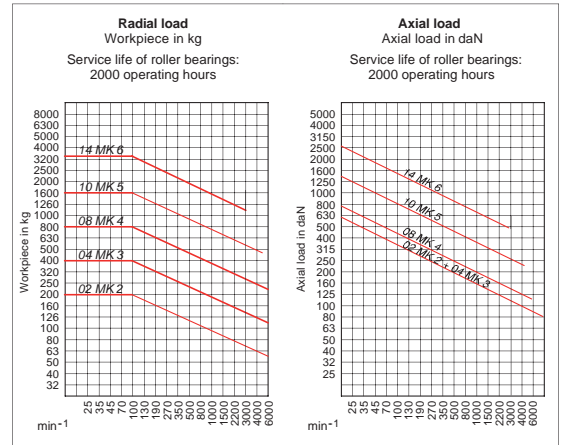
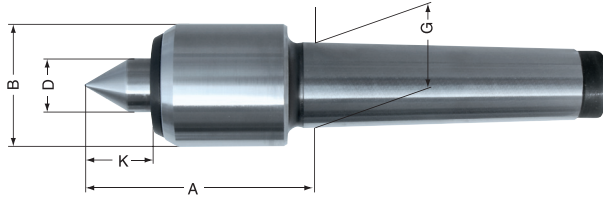
- Different models suitable to various applications
- Body hardened and ground
- Live centre hardened, repeated regrinding at will
- Triple bearing method
- High runout accuracy
- Life-time lubricated
- High speeds
- Heavy duty
- Long life



Revolving tailstock centers also available with special design live centres

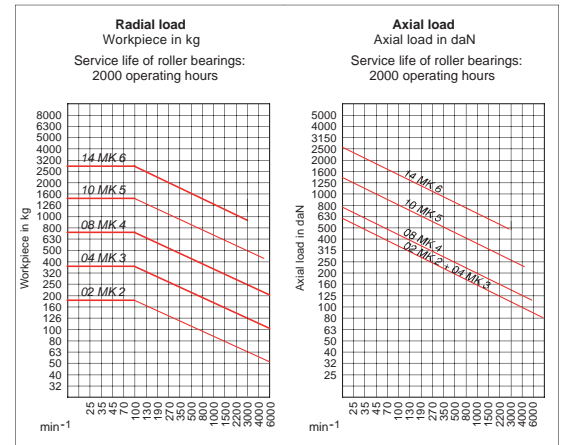
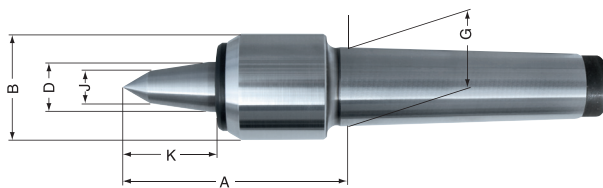


MKS - Tip angle 60°



Tool group A06
Type 600
with **small casing diameter**

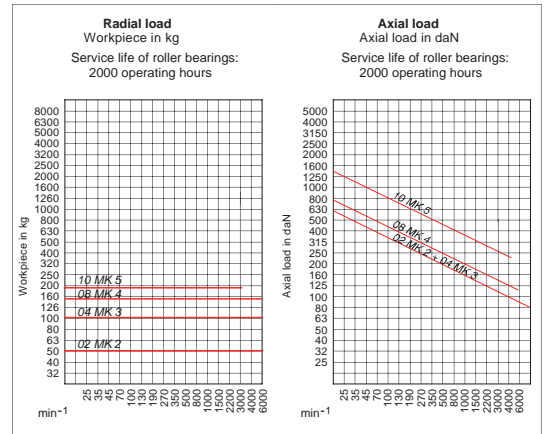
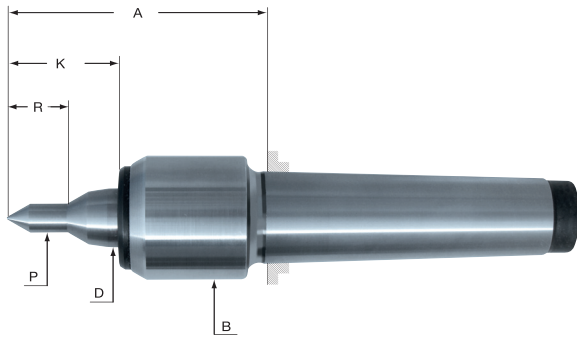
Item no.	005336 ●	005429 ●	005469 ●	005490 ●	005547 ●
Mount MT	2	3	4	5	6
Size	02	04	08	10	14
A	62	62	75,5	104	143
B	32	34	42	58	80
D	15	15	20	30	42
G	17,78	23,825	31,267	44,399	63,348
K	18	18	25	34	49
Weight approx. g	300	400	1000	2600	7100
Workpiece weight max. kg	200	400	800	1600	3500
Concentricity deviation	0,005	0,005	0,005	0,01	0,02
Speed max. min ⁻¹	7000	7000	6300	4300	3000
Spare live centres	005339	005432	005472	005493	005550



Tool group A06
Type 600-20
with **extended live centre**

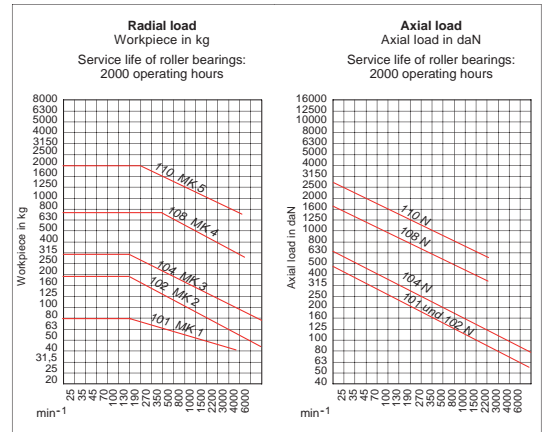
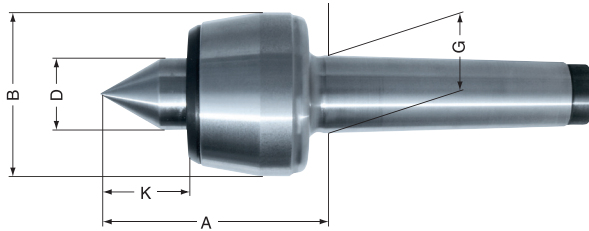
Item no.	362080 ●	362081 ●	362082 ●	362083 ●	362084 ●
Mount MT	2	3	4	5	6
Size	02	04	08	10	14
A	73	74	88,5	119	164
B	32	34	42	58	80
D	15	15	20	30	42
G	17,78	23,825	31,267	44,399	63,348
K	29	30	38	49	70
J	10	11	13	14	18
Weight approx. g	320	460	1000	2600	7100
Workpiece weight max. kg	170	340	700	1400	3000
Concentricity deviation	0,008	0,008	0,008	0,01	0,02
Speed max. min ⁻¹	7000	7000	6300	4300	3000
Spare live centres	362085	362086	362087	362088	362089

MKS - Tip angle 60°



Tool group A06
Type 600-20
with **profiled centre point**

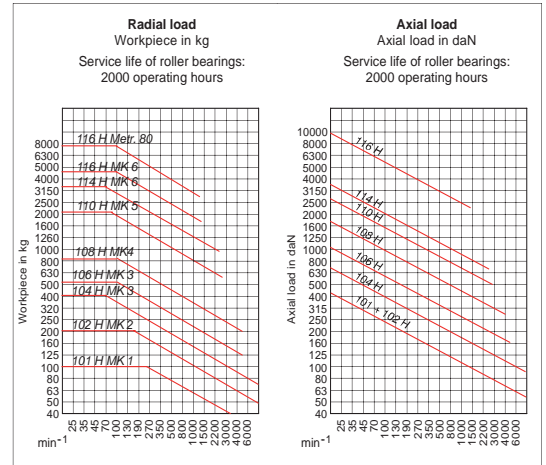
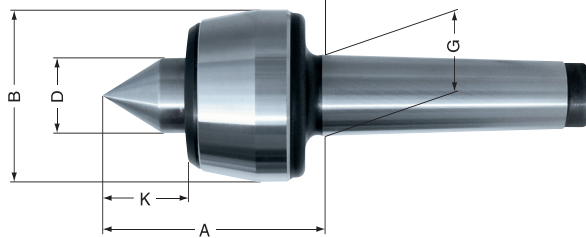
Item no.	552606 ●	552607 ●	552608 ●	552609 ●
Mount MT	2	3	4	5
Size	02	04	08	10
A	73	74	88,5	119
B	32	34	42	58
D	15	15	20	30
K	29	30	38	49
P	6	8	10	12
R	12	16	20	26
Workpiece weight max. kg	50	100	150	180
Speed max. min ⁻¹	7000	7000	6300	4300
Spare live centres	552814	552815	552755	552816



Tool group A06
Type 601 N **standard design**,
body only ground

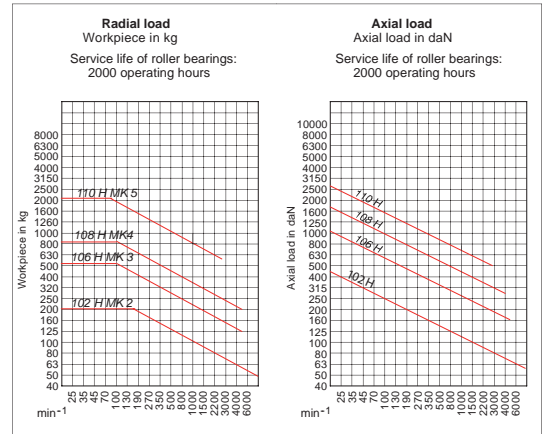
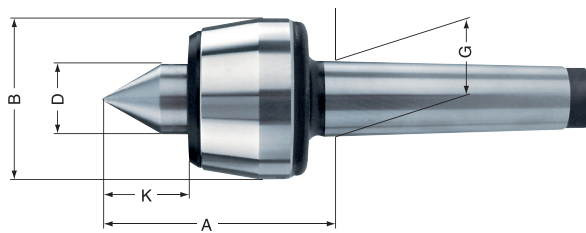
Item no.	061740 ●	043395 ●	043111 ●	042310 ●	042171 ●	042839 ●
Mount MT	0	1	2	3	4	5
Size	100	101	102	104	108	110
A	44	60,5	65	70,5	102,5	129
B	25	36	45	50	70	90
D	10	15	20	22	32	40
G	9,045	12,065	17,78	23,825	31,267	44,399
K	11	17	24	27,5	41	50,5
Weight approx. g	200	400	500	800	2300	4700
Workpiece weight max. kg	10	80	180	300	750	1800
Concentricity deviation	0,01	0,005	0,005	0,005	0,005	0,005
Speed max. min ⁻¹	15000	7000	7000	6300	3800	3000
Spare live centres	005660	043398	005728	005780	005796	005806

MKS - Tip angle 60°



Tool group A06
Type 604 H
body hardened and ground

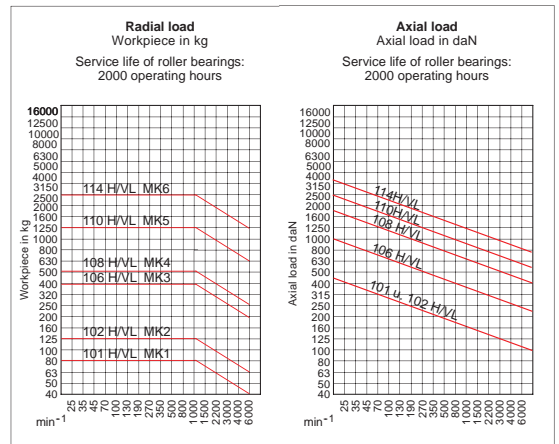
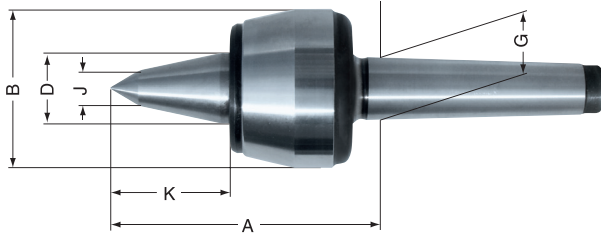
Item no.	043400 ●	043115 ●	042315 ●	042776 ●	042175 ●	042843 ●	043532 ●	093439 ●	093440 ●
Mount MT	1	2	3	3	4	5	6	MK 6	Metr. 80
Size	101	102	104	106	108	110	114	116	116
A	60,5	65	70,5	79,5	102,5	129	152	196	196
B	36	45	50	60	70	90	105	140	140
D	15	20	22	25	32	40	50	60	60
G	12,065	17,78	23,825	23,825	31,267	44,399	63,348	63,348	80
K	17	24	27,5	31	41	50,5	57,5	67	68
Weight approx. g	400	500	800	1300	2300	4700	10200	17800	23000
Workpiece weight max. kg	100	200	400	500	800	2000	3500	5000	8500
Concentricity deviation	0,005	0,005	0,005	0,005	0,005	0,005	0,01	0,01	0,015
Speed max. min ⁻¹	7000	7000	6300	5000	3800	3000	2600	1500	1500
Spare live centres	043398	005728	005780	005896	005796	005806	005911	093458	093464



Tool group A06
Type 604 HP
precision version

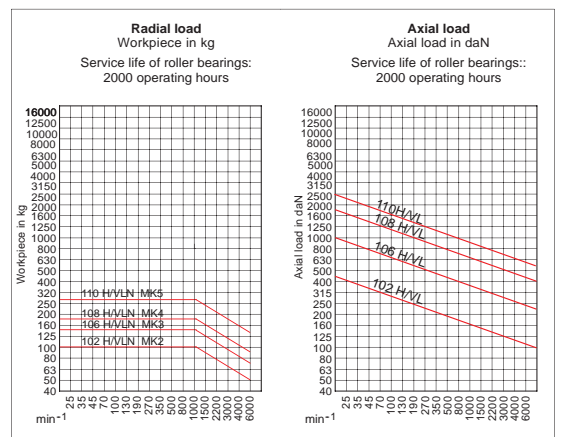
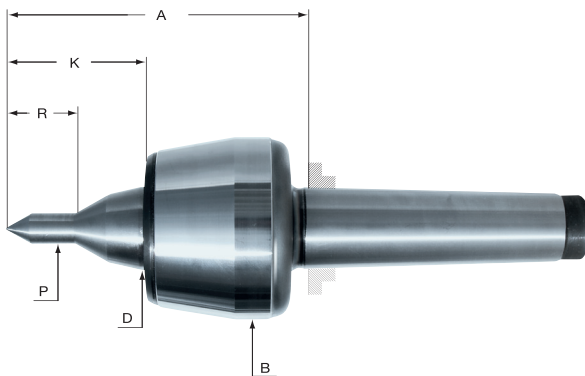
Item no.	082392 ●	318227 ●	082394 ●	082395 ●
Mount MT	2	3	4	5
Size	102	106	108	110
A	65	82	102,5	129
B	45	55	70	90
D	20	25	32	40
G	17,78	23,825	31,267	44,399
K	24	30,5	41	50,5
Weight approx. g	500	1300	2300	4700
Workpiece weight max. kg	200	500	800	2000
Concentricity deviation	0,003	0,003	0,003	0,003
Speed max. min ⁻¹	7000	5000	3800	3000
Spare live centres	005728	324478	005796	005806

MKS - Tip angle 60°



Tool group A06
Type 604 HVL
with **extended live centre**

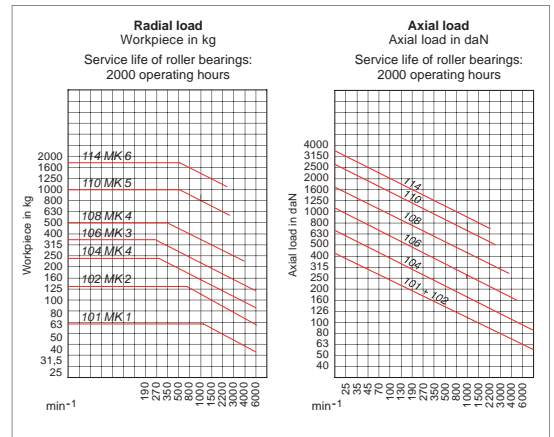
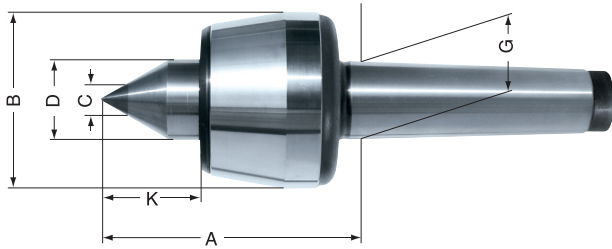
Item no.	058668 ●	058669 ●	058670 ●	058671 ●	058672 ●	058673 ●
Mount MT	1	2	3	4	5	6
Size	101	102	106	108	110	114
A	70,5	75	95,5	114,5	143,5	172,5
B	36	45	60	70	90	105
D	15	20	25	32	40	50
G	12,065	17,78	23,825	31,267	44,399	63,348
K	27	34	47	53	65	78
J	9	10	12	14	16	18
Weight approx. g	400	500	1300	2300	4800	10200
Workpiece weight max. kg	80	140	400	500	1200	2500
Concentricity deviation	0,01	0,005	0,005	0,005	0,005	0,01
Speed max. min ⁻¹	7000	7000	5000	3800	3000	2600
Spare live centres	068722	068723	068724	068725	068727	068728



Tool group A06
Type 604 HVLN
with **profiled centre point**

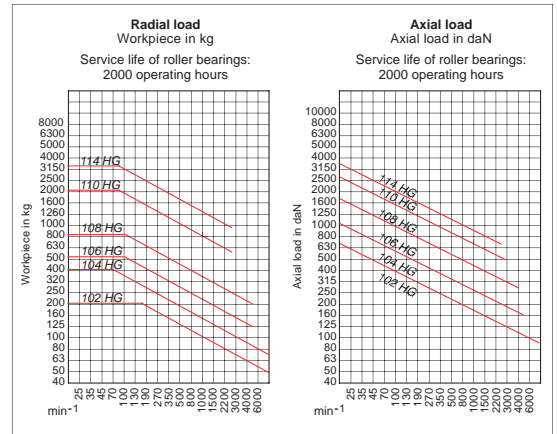
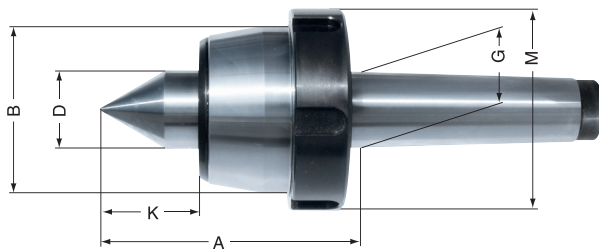
Item no.	552629 ■	552630 ■	552631 ■	552632 ■
Mount MT	2	3	4	5
Size	102	106	108	110
A	75	95,5	114,5	143,5
B	45	60	70	90
D	20	25	32	40
K	34	47	53	65
P	8	10	12	14
R	16	20	26	30
Workpiece weight max. kg	100	150	180	280
Speed max. min ⁻¹	7000	5000	3800	3000
Spare live centres	552817	552818	552792	552819

MKS - Tip angle 60°



Tool group A06
Type 604 HM
with **carbide insert**

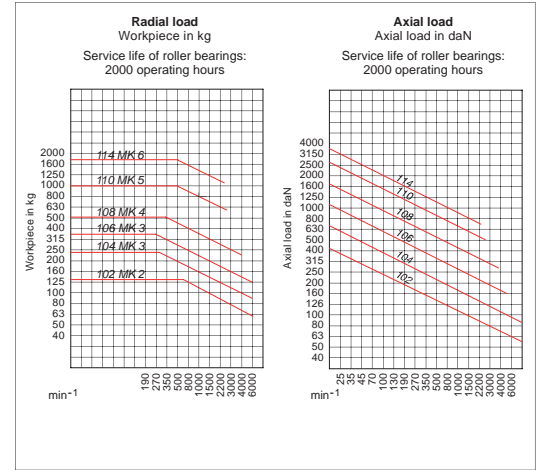
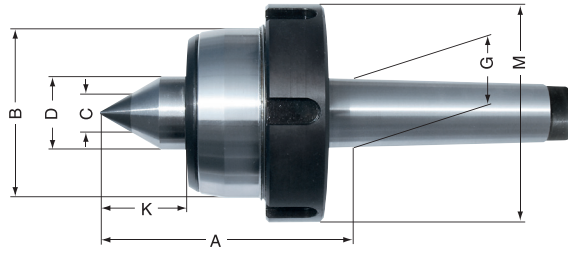
Item no.	225297	032140	090089	237413	093306	221016	221017
Mount MT	1	2	3	3	4	5	6
Size	101	102	104	106	108	110	114
A	60,5	65	70,5	79,5	102,5	129	152
B	36	45	50	60	70	90	105
C	7	11	11	14	14	18	18
D	15	20	22	25	32	40	50
G	12,065	17,78	23,825	23,825	31,267	44,399	63,348
K	17	24	27,5	31	41	50,5	57,5
Weight approx. g	400	600	900	1300	2300	4700	10000
Workpiece weight max. kg	60	120	240	360	500	1000	1800
Concentricity deviation	0,005	0,005	0,005	0,005	0,005	0,005	0,01
Speed max. min ⁻¹	7000	7000	6300	5000	3800	3000	2600
Spare live centres	097545	032141	090090	090330	090214	221033	221034



Tool group A06
Type 604 HG
with **draw-off nut**

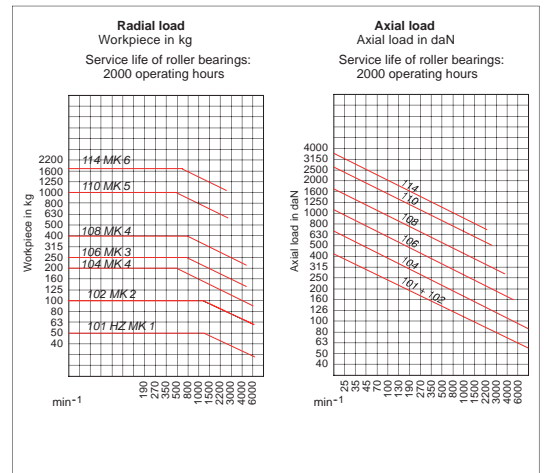
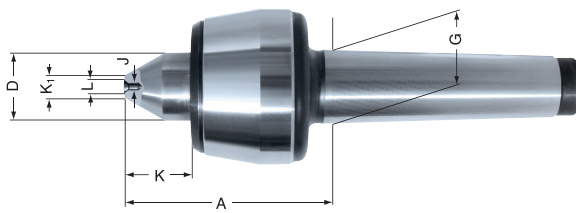
Item no.	221018	221019	205036	207148	074390	221020
Mount MT	2	3	3	4	5	6
Size	102	104	106	108	110	114
A	65	70,5	79,5	102,5	129	152
B	45	50	60	70	90	105
D	20	22	25	32	40	50
G	17,78	23,825	23,825	31,267	44,399	63,348
K	24	27,5	31	41	50,5	57,5
M	56	62	74	82	105	120
Weight approx. g	600	1000	1400	2400	5200	10500
Workpiece weight max. kg	200	400	500	800	2000	3500
Concentricity deviation	0,005	0,005	0,005	0,005	0,005	0,01
Speed max. min ⁻¹	7000	6300	5000	3800	3000	2600
Spare live centres	005728	005780	005896	005796	005806	005911

MKS - Tip angle 60°



Tool group A06
Type 604 HMG
with draw-off nut and carbide insert

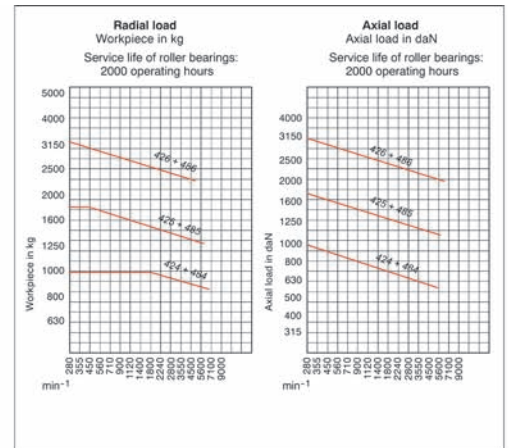
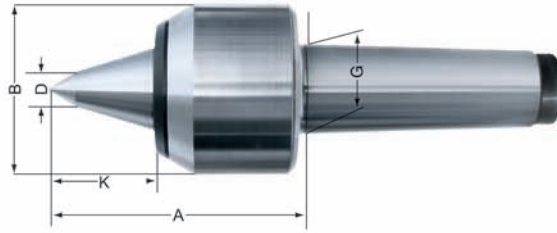
Item no.	221021 ●	221022 ●	221023 ●	221024 ●	221025 ●	221026 ●
Mount MT	2	3	3	4	5	6
Size	102	104	106	108	110	114
A	65	70,5	79,5	102,5	129	152
B	45	50	60	70	90	105
C	11	11	14	14	18	18
D	20	22	25	32	40	50
G	17,78	23,825	23,825	31,265	44,399	63,348
K	24	27,5	31	41	50,5	57,5
M	56	62	74	82	105	120
Weight approx. g	600	1000	1400	2400	5200	10500
Workpiece weight max. kg	120	240	360	500	1000	1800
Concentricity deviation	0,005	0,005	0,005	0,005	0,005	0,01
Speed max. min ⁻¹	7000	6300	5000	3800	3000	2600
Spare live centres	032141	090090	090330	090214	221033	221034



Tool group A06
Type 624 HZ with centre bore

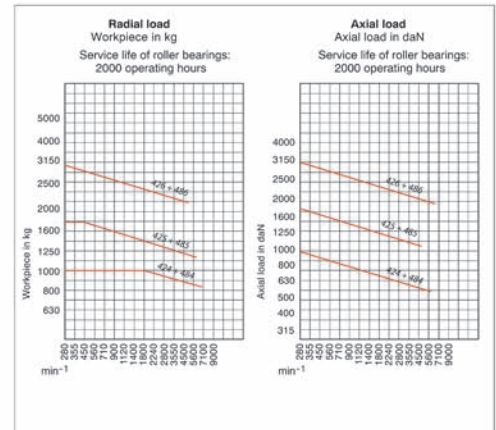
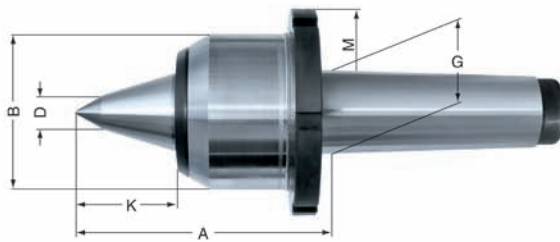
Item no.	221260 ●	221261 ●	221262 ●	221263 ●	221264 ●	221265 ●	221266 ●
Mount MT	1	2	3	3	4	5	6
Size	101	102	104	106	108	110	114
A	56,5	60	65	72	92	115	135
D	15	20	22	25	32	40	50
G	12,065	17,78	23,825	23,825	31,267	44,399	63,348
J	1	1,5	2	2,5	3,15	5	6,3
K	13	19	21,5	23,5	30	36	40,5
K1	5	6	7	9	12	16	20
L	3	4	5	6,5	8	12	16
Weight approx. g	400	500	900	1300	2300	4700	10000
Workpiece weight max. kg	50	100	200	250	400	1000	1700
Concentricity deviation	0,005	0,005	0,005	0,005	0,005	0,005	0,01
Speed max. min ⁻¹	7000	7000	6300	5000	3800	3000	2600
Spare live centres	221267	221268	221269	221270	221271	221272	221273

MKS - Tip angle 60°



Tool group A06
Type 640-20
for **high load** at high speeds

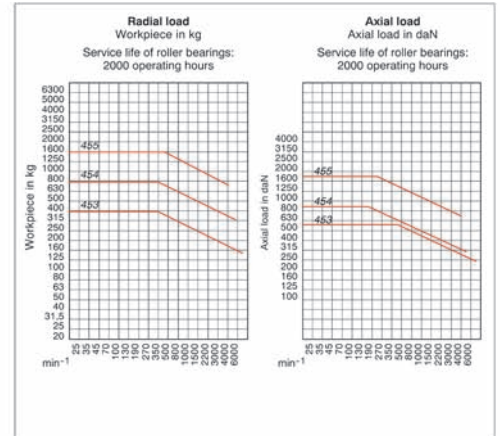
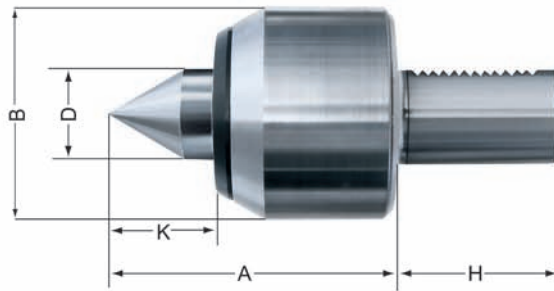
Item no.	303598 ●	303599 ●	301696 ▲
Mount MT	4	5	6
Size	424	425	426
A	122	150	180
B	70	95	120
D	16	20	26
G	31,267	44,399	63,348
K	44	59	77
Weight approx. g	2600	5500	11500
Workpiece weight max. kg	1000	2000	3000
Concentricity deviation	0,005	0,005	0,005
Speed max. min ⁻¹	7000	6000	4800
Spare live centres	306202	306182	301978



Tool group A06
Type 640-80
with **draw-off nut**

Item no.	304521 ●	304522 ●	304523 ●
Mount MT	4	5	6
Size	484	485	486
A	122	150	180
B	70	95	120
D	16	20	26
G	31,267	44,399	63,348
K	44	59	77
M	100	125	155
Weight approx. g	2800	5400	12300
Workpiece weight max. kg	1000	2000	3000
Concentricity deviation	0,005	0,005	0,005
Speed max. min ⁻¹	7000	6000	4800
Spare live centres	306202	306182	301978

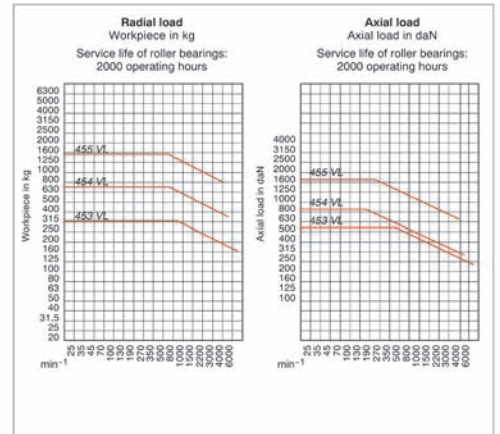
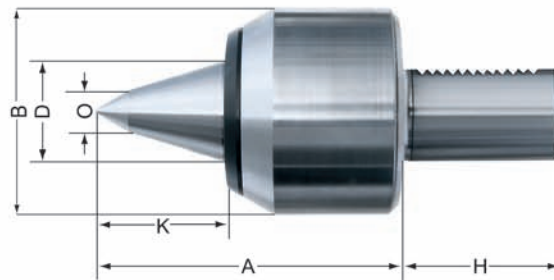
MKS - Tip angle 60°



Tool group A06
Type 645-00
with shank VDI 3425/DIN 69880
live center spring-loaded

Item no.	664630 ■	664631 ■	664632 ▲
Shank-Ø	30	40	50
Size	453	454	455
A	90	102	135
B	68	83	98
D	25	32	40
H	55	63	78
K	31,5	39	49
Weight approx. g	2200	3600	8400
Spring way ¹⁾	1,7	2	2,2
Axial load max.	580	900	1800
Workpiece weight max. kg	400	800	1600
Concentricity deviation	0,01	0,01	0,01
Speed max. min ⁻¹	7000	5500	4000

¹⁾ at max. axial load

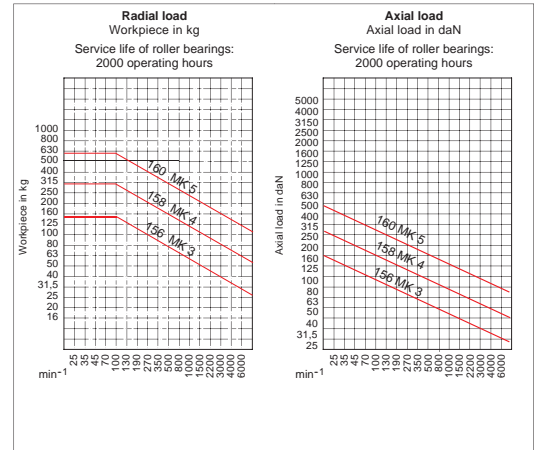
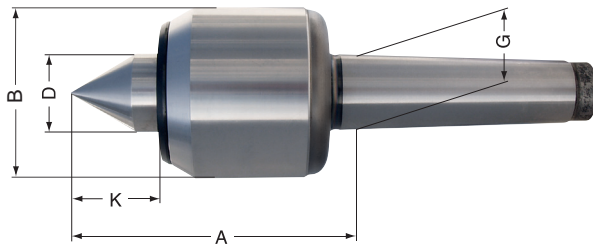


Tool group A06
Type 645-20
with shank VDI 3425/DIN 69880
with extended and spring-loaded
live centre

Item no.	664633 ■	664634 ■	664635 ▲
Shank-Ø	30	40	50
Size	453	454	455
A	105	116	152
B	68	83	98
D	25	32	40
H	55	63	78
O	11	14	15
K	46,5	53	66
Weight approx. g	2300	3700	8500
Spring way ¹⁾	1,7	2	2,2
Axial load max.	580	900	1800
Workpiece weight max. kg	300	650	1400
Concentricity deviation	0,01	0,01	0,01
Speed max. min ⁻¹	7000	5500	4000

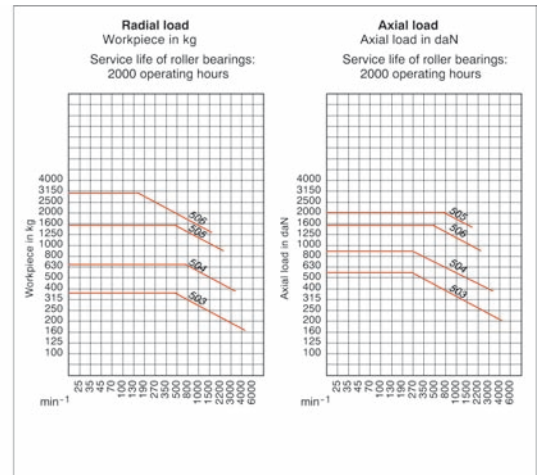
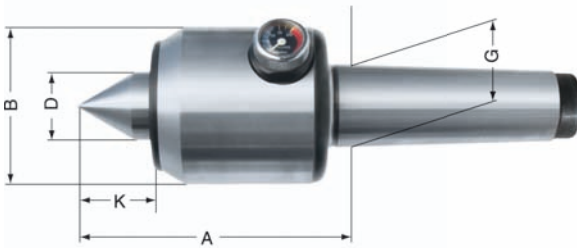
¹⁾ at max. axial load

MKS - Tip angle 60°



Tool group A06
Type 615
with **impact damping**

Item no.	060779 ●	060846 ●	060881 ●
Mount MT	3	4	5
Size	156	158	160
A	97	113,5	148
B	60	70	95
D	25	32	40
G	23,825	31,267	44,399
K	31,5	39,5	49,5
Weight approx. g	1500	2500	7100
Workpiece weight max. kg	150	300	600
Concentricity deviation	0,01	0,01	0,01
Speed max. min ⁻¹	8000	7000	5000
Spare live centres	009841	010175	012677

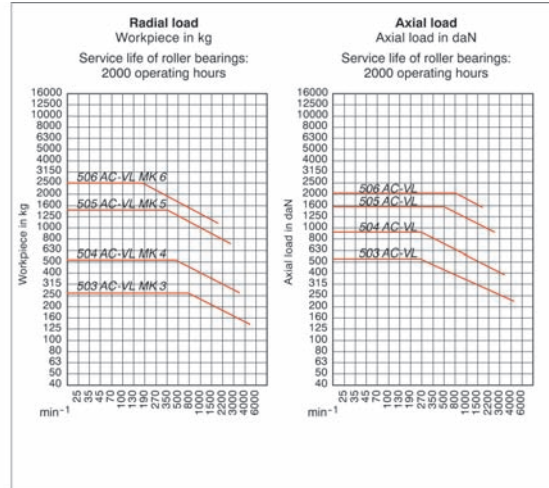
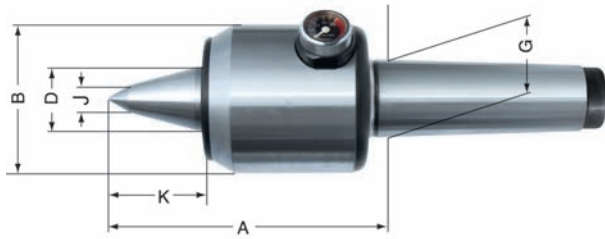


Tool group A06
Type 652 AC
with **pressure display**
and **length compensation**
as counter centre with face drivers

Item no.	060798 ●	060874 ●	060906 ●	060915 ●
Mount MT	3	4	5	6
Size	503	504	505	506
A	105	123,5	160,5	202
B	64	72	95	120
D	25	32	40	52
G	23,825	31,267	44,399	63,348
K	31,5	39	49	59
Weight approx. g	2100	3500	8300	17000
Spring way ¹⁾	1,6	2	1,8	2,7
Axial load max.	550	900	1500	2000
Workpiece weight max. kg	400	800	1600	3200
Concentricity deviation	0,01	0,01	0,01	0,015
Speed max. min ⁻¹	4000	3500	2500	1800
Spare live centres	009192	009205	009325	009413

¹⁾ at max. axial load

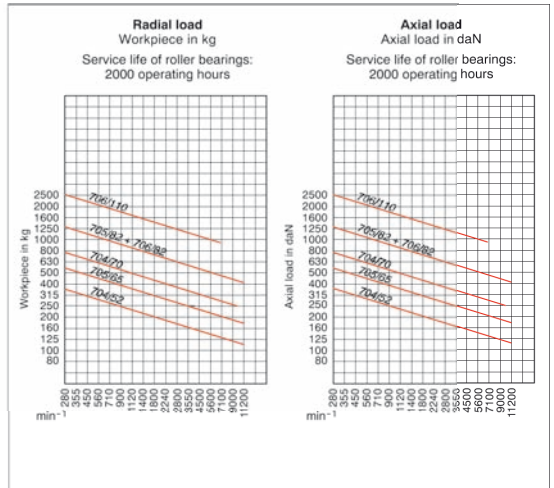
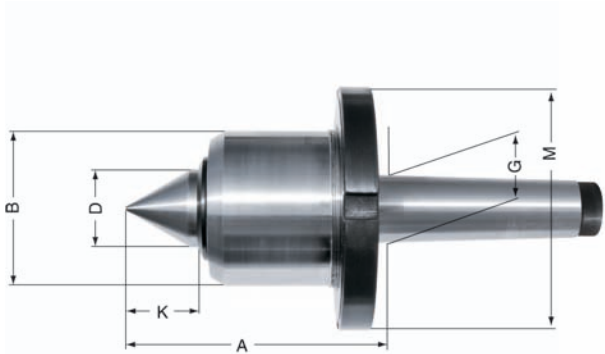
MKS - Tip angle 60°



Tool group A06
Type 652-AC-VL
with extended live centre

Item no.	079920 ●	079921 ●	079922 ●	079923 ●
Mount MT	3	4	5	6
Size	503	504	505	506
A	120	137,5	177,5	223
B	64	72	95	120
D	25	32	40	52
G	23,825	31,267	44,399	63,348
K	46,5	53	66	80
J	11	14	15	24
Weight approx. g	2200	3600	8400	17500
Spring way ¹⁾	1,6	2	1,8	2,7
Axial load max.	550	900	1500	2000
Workpiece weight max. kg	260	550	1100	2500
Concentricity deviation	0,01	0,01	0,01	0,015
Speed max. min ⁻¹	4000	3500	2500	1800
Spare live centres	079924	079925	079926	079927

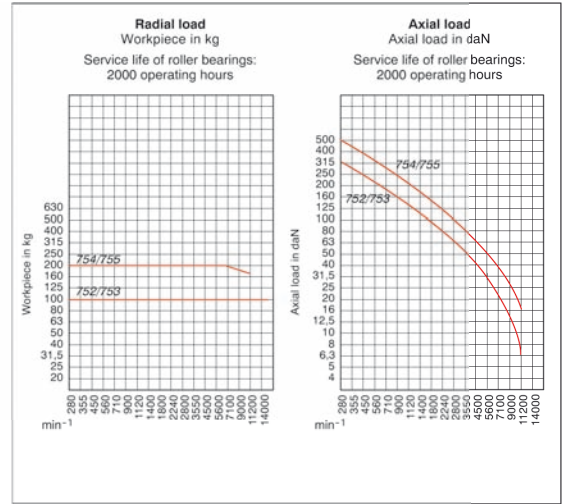
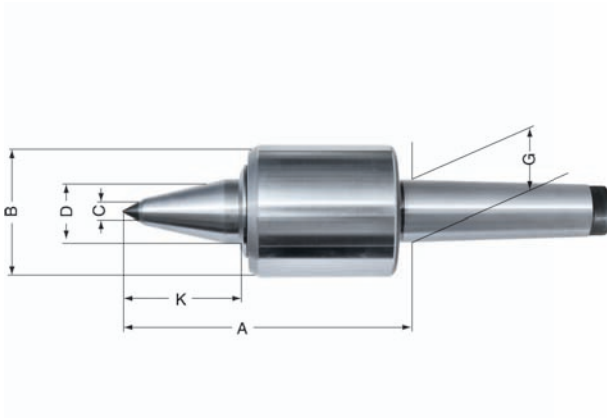
¹⁾ at max. axial load



Tool group A06
Type 663
for especially **high speeds**,
different head diameters at same
size of shank

Item no.	340911 ●	340910 ●	338595 ●	338594 ●	344808 ▲	344809 ▲
Mount MT	4	4	5	5	6	6
Size	704/52	704/70	705/65	705/82	706/110	706/82
A	90	110	100	130	168	133
B	52	70	65	82	110	82
D	25	35	32	40	55	40
G	31,267	31,267	44,399	44,399	63,348	63,348
K	28	38	34	41	58	41
M	80	110	100	115	150	115
Weight approx. g	1900	2300	4000	5200	12000	8400
Workpiece weight max. kg	360	800	560	1250	2500	1250
Concentricity deviation	0,005	0,005	0,005	0,005	0,005	0,005
Speed max. min ⁻¹	15000	10000	12000	10000	7000	10000
Spare live centres	344924	344923	338895	338901	344925	338901

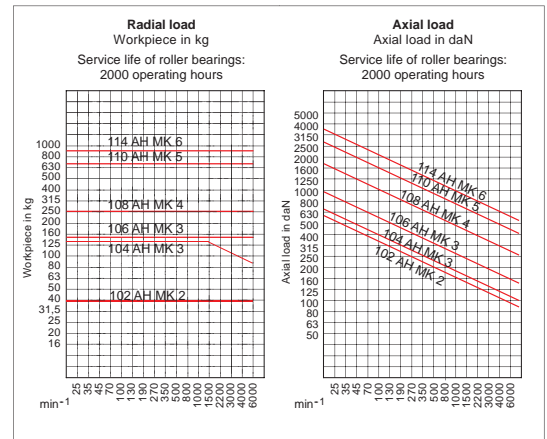
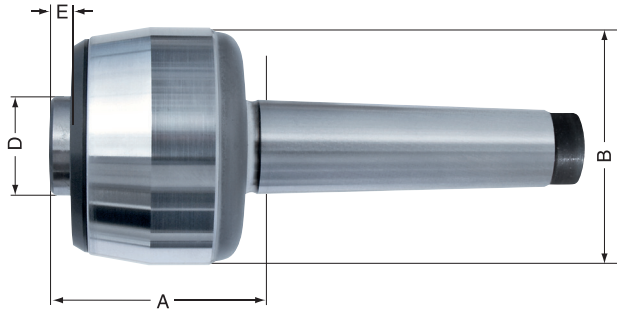
MKS - Tip angle 60°



Tool group A06
Type 664
extended NC-centre
with **carbide insert**,
for high speed, powerful, for small
and medium components

Item no.	772389 ■	772390 ●	772391 ●	772392 ●
Mount MT	2	3	4	5
Size	752	753	754	755
A	99	99	141	141
B	45	45	66	66
C	7	7	11	11
D	20	20	32	32
G	17,78	23,825	31,267	44,399
K	40	40	63	63
Weight approx. g	1200	1600	2600	5000
Workpiece weight max. kg	100	100	250	250
Concentricity deviation	0,01	0,01	0,01	0,01
Speed max. min ⁻¹	12000	12000	9000	9000
Spare live centres	790267	790267	790291	790291

MKS - interchangeable inserts



Tool group A06
Type 614
Revolving tailstock centers 100 A
for interchangeable inserts

Item no.	061030 ●	061031 ●	061032 ●	061038 ●	061039 ●	061040 ●
Mount MT	2	3	3	4	5	6
Size	102	104	106	108	110	114
A	45	48	55	67	85	101
B	45	50	60	70	90	105
D	20	22	25	32	40	50
E	4	4,5	5	5	6	6
Concentricity deviation	0,01	0,01	0,01	0,01	0,01	0,015
Workpiece weight max. kg	40	130	150	250	650	900
Weight without inserts approx. g	440	750	1100	1900	4400	8600
Weight	900	1700	2200	3700	8000	-
Speed max. min ⁻¹	7000	6300	5000	3800	3000	2600
Spare live spindle	009836	009838	009843	009870	009872	009874

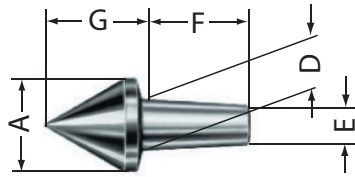


Tool group A06
Type 614-00
complete with all inserts in a sturdy wooden case

Item no.	061702 ●	061703 ●	061704 ●	061705 ●	061706 ●
Mount MT	2	3	3	4	5
Size	102	104	106	108	110
Workpiece weight max. kg	40	130	150	250	650
Weight	900	1700	2200	3700	8000

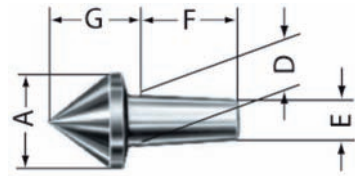
Interchangeable inserts

Tool group A06
Type 616 Interchangeable inserts 60°



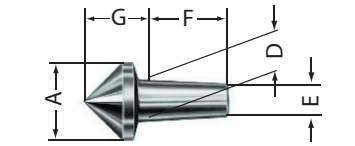
Item no.	Size	A	D	E	F	G
070725 ●	102	16	7	5,2	18	20
070728 ●	104	20	12	9,6	24	24
070731 ●	106	24	12	9,6	24	27,5
070734 ●	108	28	15	12	30	31,5
070737 ●	110	38	22	18,5	35	43
070740 ●	114	50	28	24	40	54

Tool group A06
Type 616 Interchangeable inserts 75°



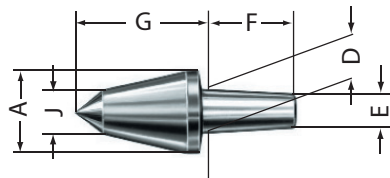
Item no.	Size	A	D	E	F	G
070726 ■	102	16	7	5,2	18	17
070729 ■	104	20	12	9,6	24	19,5
070732 ■	106	24	12	9,6	24	22,5
070735 ■	108	28	15	12	30	25,5
070738 ■	110	38	22	18,5	35	35
070741 ■	114	50	28	24	40	44

Tool group A06
Type 616 Interchangeable inserts 90°



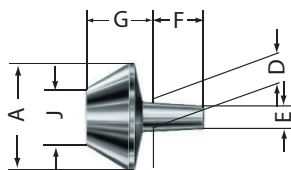
Item no.	Size	A	D	E	F	G
070727 ●	102	16	7	5,2	18	14,5
070730 ●	104	20	12	9,6	24	16,5
070733 ●	106	24	12	9,6	24	19
070736 ●	108	28	15	12	30	21,5
070739 ●	110	38	22	18,5	35	29
070742 ■	114	50	28	24	40	36

Tool group A06
Type 616 Interchangeable inserts 60°VL



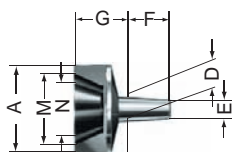
Item no.	Size	A	D	E	F	G	J
070719 ●	102	14	7	5,2	18	25	6
070720 ●	104; 106	18	12	9,6	24	30	8
070721 ●	108	26	15	12	30	43	12
070722 ●	110	32	22	18,5	35	55	13
070723 ●	114	42	28	24	40	70	18,5

Tool group A06
Type 616 Interchangeable inserts for tubular workpieces 60°



Item no.	Size	A	D	E	F	G	J
070700 ●	102	25	7	5,2	18	21	10
070701 ●	104	35	12	9,6	24	26	15
070702 ●	106	45	12	9,6	24	27	25
070703 ●	108	55	15	12	30	31,5	30
070704 ●	110	70	22	18,5	35	39	40
070705 ●	114	100	28	24	40	52	55

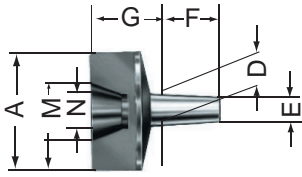
Tool group A06
Type 616 Interchangeable inserts A for centerless workpieces 60°



Item no.	Size	A	D	E	F	G	M	N
070707 ●	102	25	7	5,2	18	18	20	10
070708 ●	104	35	12	9,6	24	24	30	15
070709 ●	106	45	12	9,6	24	25	40	25
070710 ●	108	55	15	12	30	30	48	30
070711 ■	110	70	22	18,5	35	39	63	40
070712 ■	114	100	28	24	40	52	90	55

Interchangeable inserts

Tool group A06
Type 616 Interchangeable inserts **B** for centerless workpieces 60°



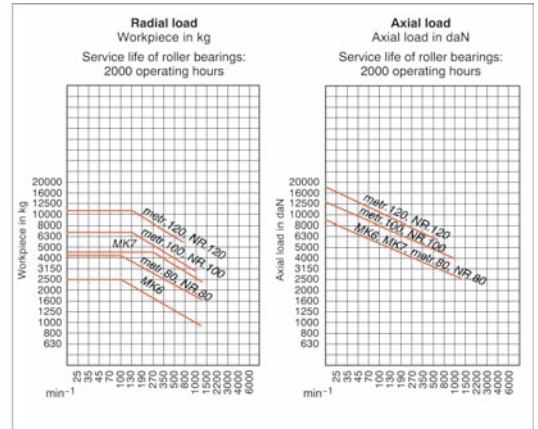
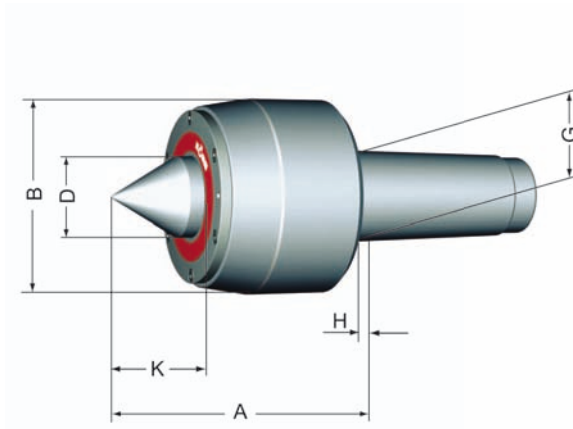
Item no.	Size	A	D	E	F	G	M	N
228620 ●	102	16	7	5,2	18	12	12	6
228621 ●	106	22	12	9,6	24	16	18	10
228622 ●	108	40	15	12	30	25	35	20
308632 ▲	110	52	22	18,5	35	30	45	30

Tool group A06
Type 616 **Extractor**



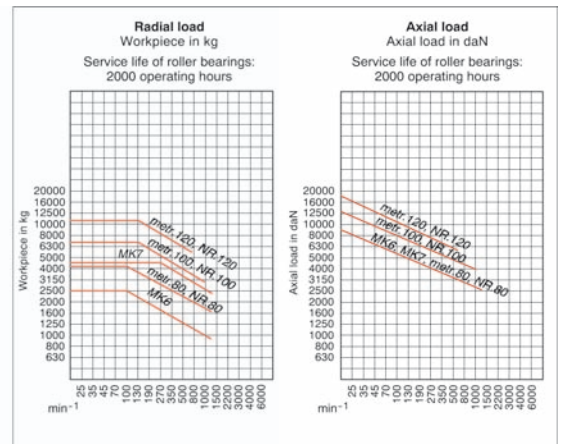
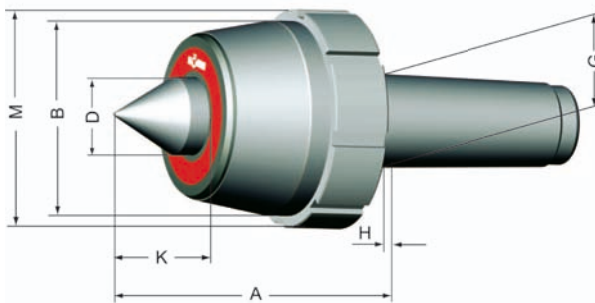
Item no.	For size
061707 ●	102
061708 ●	104/106/108
061709 ●	110/1 14

MKS heavy



Tool group A06
Type 604
without draw-off nut

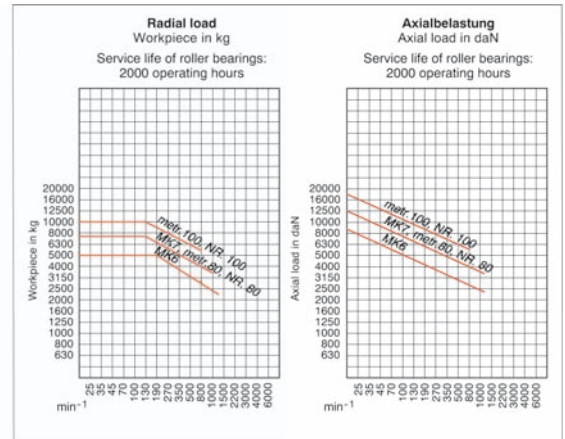
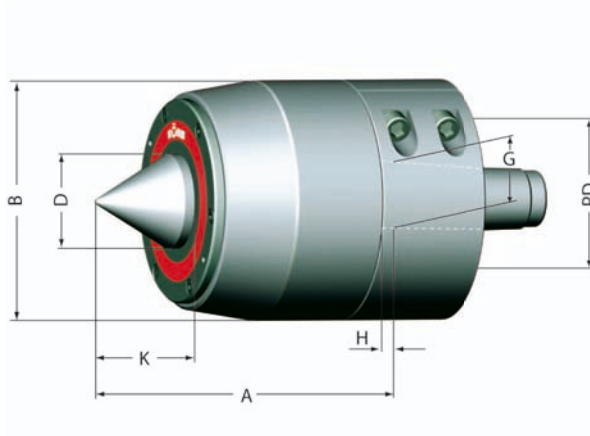
Item no.	093439 ●	466229 ■	093440 ●	058674 ■	018801 ■	093446 ■	058675 ▲	466230 ▲
Mount	MK 6	MK 7	Metr. 80	Metr. 100 (1:20)	Metr. 120 (1:20)	Nr. 80 (1:10)	Nr. 100 (1:10)	Nr. 120 (1:10)
A	196	215	196	257	274	196	257	274
B	140	150	140	200	245	140	200	245
D	60	70	60	85	110	60	85	110
G	63,348	83,061	80	100	120	80	100	120
H	13	15	13	14	15	13	14	15
K	67	77	68	86	102	66	86	102
Workpiece weight max. kg	5000	9000	8500	13000	22000	8500	13000	22000
Concentricity deviation	0,01	0,01	0,015	0,01	0,01	0,01	0,01	0,01



Tool group A06
Type 604 MA
with draw-off nut

Item no.	466231 ■	466232 ■	466233 ■	466234 ■	466235 ▲	466236 ▲	466237 ▲	466238 ▲
Mount	MK 6	MK 7	Metr. 80 (1:20)	Metr. 100 (1:20)	Metr. 120 (1:20)	Nr. 80 (1:10)	Nr. 100 (1:10)	Nr. 120 (1:10)
A	196	215	196	257	274	196	257	274
B	140	150	140	200	245	140	200	245
D	60	70	60	85	110	60	85	110
G	63,348	83,061	80	100	120	80	100	120
H	13	15	13	14	15	13	14	15
K	66	77	66	86	102	66	86	102
M	158	168	158	224	270	158	224	270
Workpiece weight max. kg	5000	9000	8500	13000	22000	8500	13000	22000
Concentricity deviation	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01

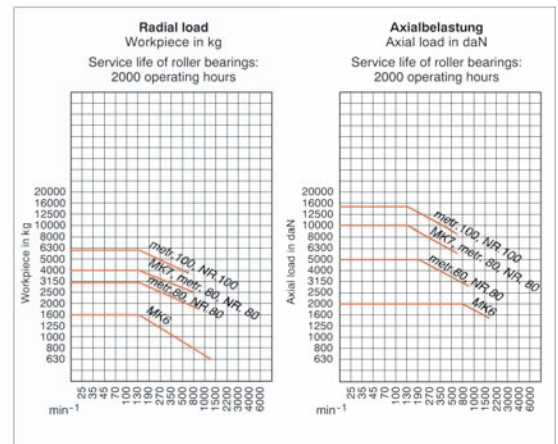
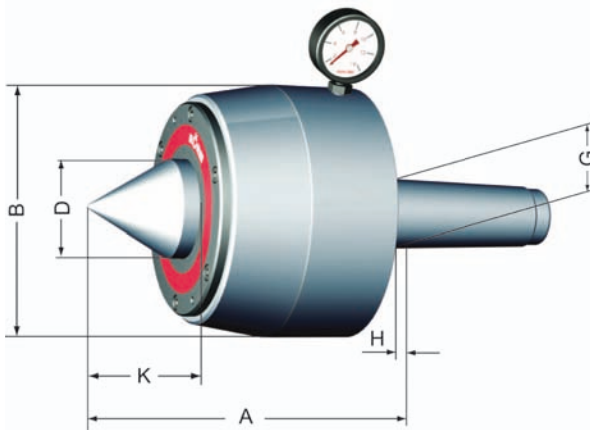
MKS heavy



Tool group A06
Type 604
with tailstock support

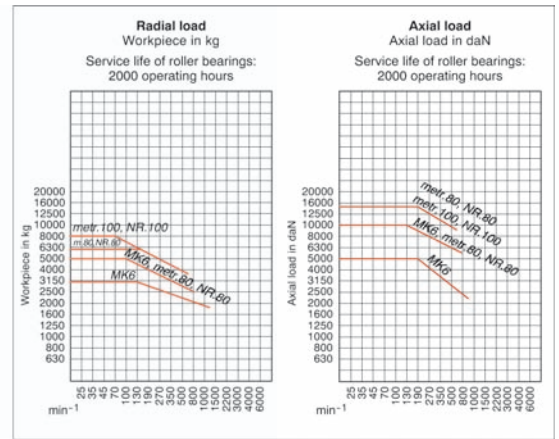
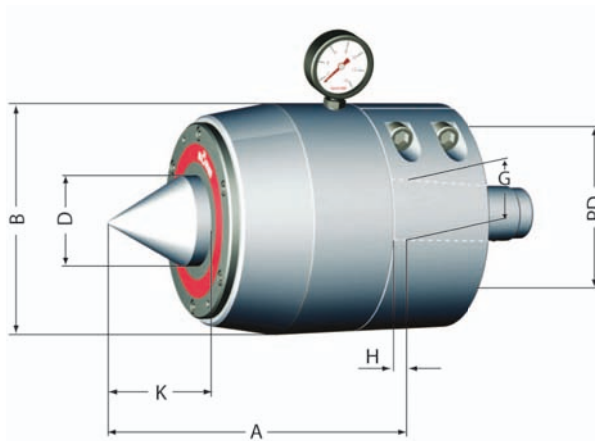
Item no.	466239 ▲	466240 ▲	466241 ▲	466242 ▲	466243 ▲	466244 ▲
Mount	MK 6	MK 7	Metr. 80 (1:20)	Metr. 100 (1:20)	Nr. 80 (1:10)	Nr. 100 (1:10)
A	254	270	269	298	269	298
B	230	240	240	260	240	260
D	85	95	95	108	95	108
G	63,348	83,061	80	100	80	100
H	13	15	13	14	13	14
K	86	92	92	102	92	102
max. PD 1)	170	180	180	200	180	200
Workpiece weight max. kg	10000	15000	15000	20000	15000	20000
Concentricity deviation	0,01	0,01	0,01	0,01	0,01	0,01

1) Tailstock dia. according to customers details



Tool group A06
Type 652
with length compensation
and pressure indicator

Item no.	466245 ▲	466246 ▲	466247 ▲	466248 ▲	466249 ▲	466250 ▲	466251 ▲
Mount	MK 7	Metr. 80 (1:20)	Metr. 80 (1:20)	Metr. 100 (1:20)	Nr. 80 (1:10)	Nr. 80 (1:10)	Nr. 100 (1:10)
A	278	209	276	310	209	276	310
B	195	145	195	230	145	195	230
D	85	60	85	100	60	85	100
G	83,061	80	80	100	80	80	100
H	15	13	13	14	13	13	14
K	88	62	88	96	62	88	96
Workpiece weight max. kg	8000	6000	8000	12000	6000	8000	12000
Concentricity deviation	0,015	0,015	0,015	0,015	0,015	0,015	0,015
Spring way max.	4,5	3,4	4,5	4,5	3,4	4,5	4,5
Axial pressure max.	10000	5000	10000	14000	5000	10000	14000



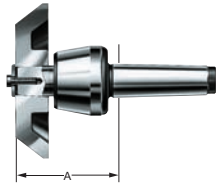
Tool group A06
Type 652
with length compensation,
pressure indicator
and tailstock support

Item no.	466252 ▲	466253 ▲	466254 ▲	466255 ▲	466256 ▲	466257 ▲	466258 ▲	466259 ▲
Mount	MK 6	MK 6	Metr. 80 (1:20)	Metr. 80 (1:20)	Metr. 100 (1:20)	Nr. 80 (1:10)	Nr. 80 (1:10)	Nr. 100 (1:10)
A	209	278	278	310	310	278	310	310
B	210	240	240	290	290	240	290	290
D	60	85	85	100	100	85	100	100
G	63,348	63,348	80	80	100	80	80	100
H	13	13	13	13	14	13	13	14
K	62	88	88	96	96	88	96	96
max. PD 1)	150	180	180	220	220	180	220	220
Workpiece weight max. kg	6000	10000	10000	12000	15000	10000	12000	15000
Concentricity deviation	0,015	0,015	0,015	0,015	0,015	0,015	0,015	0,015
Spring way max.	3,4	4,5	4,5	4,5	4,5	4,5	4,5	4,5
Axial pressure max.	5000	10000	10000	14000	14000	10000	14000	14000

1) Tailstock dia. according to customers details

MZK

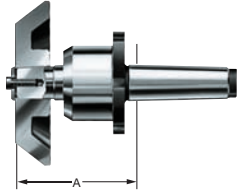
Tool group A06
Type 608-00 Revolving centering tapers



Item no.	Size	Mount MT	A	Workpiece weight max. kg	Weight
304562 ●	108	4	103	800	2200
304563 ●	110	5	128	1600	4800
304564 ●	114	6	159	3000	12000

Including fixing screw and washer, without insert

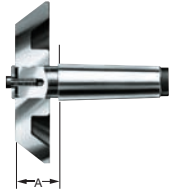
Tool group A06
Type 640-90 Revolving centering tapers **with draw-off nut**, for high load



Item no.	Size	Mount MT	A	Workpiece weight max. kg	Weight
304583 ●	494	4	118	1000	3200
304584 ●	495	5	140	2000	6500
304585 ■	496	6	168	3500	13500

Including fixing screw and washer, without insert

Tool group A07
Type 698-00 **Fixed shafts**

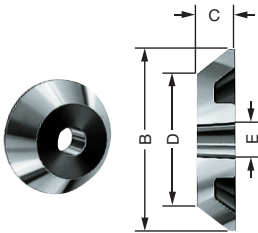


Item no.	Mount MT	A	Workpiece weight max. kg	Weight
304580 ●	4	45	2000	800
304581 ●	5	60	4800	2000
304582 ●	6	70	12000	5500

Including fixing screw and washer, without insert

Accessories MZK

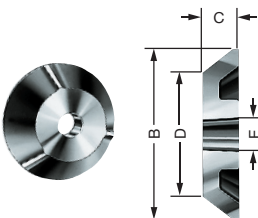
Tool group A06
Type 608-20
Suitable **inserts** for centering tapers **AZ**
Standard version, taper 75°



Item no.	Size	for MT	B	C	D	E	Weight
304565 ¹⁾ ●	1	4	60	68	5	32	900
304566 ●	2	4	100	45	45	32	1500
304567 ●	3	4	150	45	95	32	4100
304568 ●	4	4	200	45	145	32	6000
304569 ●	5	4	250	45	195	32	8500
304570 ●	1	5	100	43	45	40	1500
304571 ●	2	5	150	43	95	40	4400
304572 ●	3	5	200	43	145	40	6100
304573 ●	4	5	250	43	195	40	8100
304574 ●	5	5	300	43	245	40	11600
304575 ●	1	6	150	54	95	50	3000
304576 ●	2	6	200	54	145	50	8100
304577 ●	3	6	250	54	195	50	11100
304578 ●	4	6	300	54	245	50	14000
304579 ●	5	6	350	54	295	50	18800

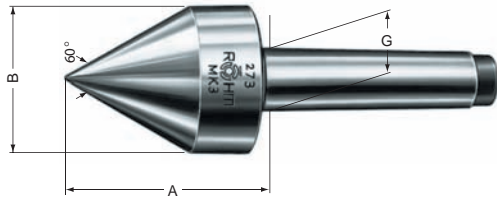
¹⁾ Without fixing by screw and washer

Tool group A06
Type 608-40
Suitable **inserts** for centering tapers **AZR**
with three support surfaces,
for rough pieces 75°



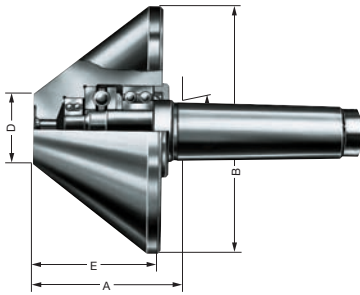
Item no.	Size	for MT	B	C	D	E	Weight
304736 ■	2	4	100	45	45	32	1500
304737 ■	3	4	150	45	95	32	4100
304738 ■	4	4	200	45	145	32	6000
304739 ■	5	4	250	45	195	32	8500
304740 ■	1	5	100	43	45	40	1500
304741 ■	2	5	150	43	95	40	4400
304742 ■	3	5	200	43	145	40	6100
304743 ■	4	5	250	43	195	40	8100
304744 ■	5	5	300	43	245	40	11600
304745 ■	1	6	150	54	95	50	3000
304746 ■	2	6	200	54	145	50	8100
304747 ■	3	6	250	54	195	50	11100
304748 ■	4	6	300	54	245	50	14000
304749 ■	5	6	350	54	295	50	18800

Tool group A06
 Type 627 Revolving centering taper, **pointed**
 as centering taper for tubular workpieces and as a revolving tailstock centre
 to machine normal workpieces



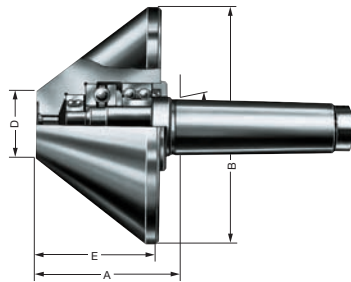
Item no.	Size	Mount MT	A	B	G	Workpiece weight max. kg	Concentricity deviation	Weight
010613	272	2	61	42	17,78	200	0,01	400
010635	273	3	79	56	23,825	400	0,008	1100
010638	274	4	100	64	31,267	800	0,008	1600
010642	275	5	115,5	78	44,399	1600	0,008	3600
306396	276	6	153	105	63,348	2500	0,008	10000

Tool group A06
 Type 617 Revolving tailstock center, **cone truncated, 60°**



Item no.	Size	Mount MT	A	B	D	E	Workpiece weight max. kg	Concentricity deviation	Weight
301615	171	1	64	50	20	52	100	0,008	900
301616	171a	2	65	50	20	52	200	0,008	1200
301556	172	2	77	80	30	64	300	0,008	2000
301557	172a	3	77	80	30	64	400	0,008	2200
221605	173	3	96,5	120	30	83	600	0,008	4200
301558	172b	4	78,5	80	30	64	400	0,008	2300
044023	173a	4	98	120	30	83	800	0,008	4500
090483	173b	5	99	120	30	83	800	0,008	5300

Tool group A06
 Type 618 Revolving tailstock center, **cone truncated, 75°**



Item no.	Size	Mount MT	A	B	D	E	Workpiece weight max. kg	Concentricity deviation	Weight
301559	172	2	80	80	20	67	300	0,008	2000
301560	172a	3	80	80	20	67	400	0,008	2000
062211	173	3	85,5	120	30	72	600	0,008	4200
301561	172b	4	81,5	80	20	67	400	0,008	2400
062224	173a	4	87	120	30	72	800	0,008	4300
062299	174	4	107	170	50	90	1200	0,01	9700
062232	173b	5	88	120	30	72	800	0,008	5100
063614	174a	5	106	170	50	90	1600	0,01	10600
063662	175	5	146,5	250	75	130	2000	0,01	34000
063633	174b	6	107,5	170	50	90	1600	0,01	13300
063656	175a	6	148	250	75	130	2000	0,01	37000
063680	176	6	184	350	120	168	4000	0,015	82000



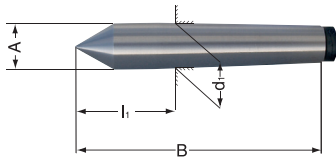
Dead centres DIN 806 and DIN 807 completely hardened and ground (with carbide-tipped ground only). Different types available.

Dead centres are manufactured with a concentricity of 5 micrometers. Versions with a concentricity of 3 micrometers or better are available for an extra charge.

Technical features:

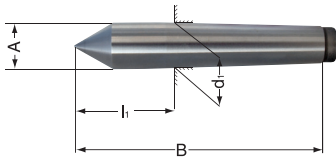
- completely hardened and ground
- high concentricity
- heavy duty

Tool group A07
Type 665 **DIN 806, full point**
material: tool steel



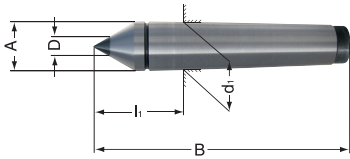
Item no.	Mount MT	A	B	d1	l1	Weight
013706 ●	0	9,2	70	9,045	20	30
013707 ●	1	12,2	80	12,065	26,5	60
013709 ●	2	18	100	17,78	36	150
013711 ●	3	24,1	125	23,825	44	340
013712 ●	4	31,6	160	31,267	57,5	760
013715 ●	5	44,7	200	44,399	70,5	1920
013718 ●	6	63,8	270	63,348	88	5200

Tool group A07
Type 666 **DIN 806, full point**
material: SS-high speed steel, from MT 4 only point in SS



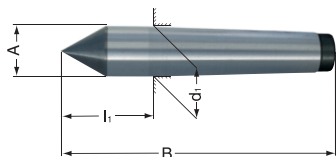
Item no.	Mount MT	A	B	d1	l1	Weight
013790 ●	0	9,2	70	9,045	20	30
013791 ●	1	12,2	80	12,065	26,5	60
013792 ●	2	18	100	17,78	36	150
013793 ●	3	24,1	125	23,825	44	340
013794 ●	4	31,6	160	31,267	57,5	760
013797 ●	5	44,7	200	44,399	70,5	1920
013799 ●	6	63,8	270	63,348	88	5200

Tool group A07
Type 667 **DIN 806, full point, ground only carbide-tipped**



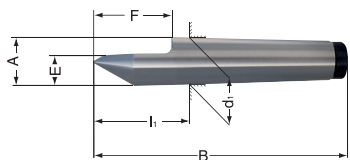
Item no.	Mount MT	A	B	D	d1	l1	Weight
017169 ●	0	9,2	70	5	9,045	20	30
017170 ●	1	12,2	80	7	12,065	26,5	55
017171 ●	2	18	100	7	17,78	36	155
017172 ●	3	24,1	125	11	23,825	44	360
017173 ●	4	31,6	160	14	31,267	57,5	770
017174 ●	5	44,7	200	18	44,399	70,5	1950
017175 ●	6	63,8	270	18	63,348	88	5200

Tool group A07
Type 677 **DIN 806, full point, ground only carbide-tipped full point**



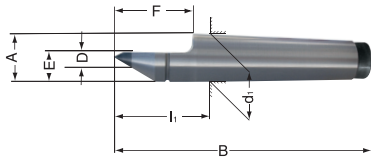
Item no.	Mount MT	A	B	d1	l1	Weight
326786 ●	2	18	100	17,78	36	175
306402 ●	3	24,1	125	23,825	44	400
221398 ●	4	31,6	160	31,267	57,5	855
326816 ●	5	44,7	200	44,399	70,5	2160

Tool group A07
Type 668 **DIN 806, half point**
material: tool steel



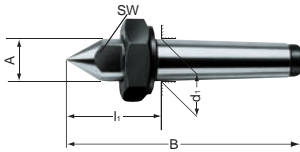
Item no.	Mount MT	A	B	E	F	d1	l1	Weight
013867 ●	1	12,2	80	7,5	22	12,065	26,5	55
013868 ●	2	18	100	11	30	17,78	36	145
013870 ●	3	24,1	125	15	38	23,825	44	310
013871 ●	4	31,6	160	21	50	31,267	57,5	710
013997 ●	5	44,7	200	29,4	63	44,399	70,5	1925
013999 ●	6	63,8	270	42	79	63,348	88	4800

Tool group A07
Type 670 **DIN 806, half point**, ground only
carbide-tipped



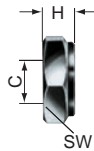
Item no.	Mount MT	A	B	D	E	F	d1	I1	Weight
027438 ●	1	12,2	80	7	76	22	12,065	26,5	55
027439 ●	2	18	100	7	11	30	17,78	36	150
027440 ●	3	24,1	125	11	15	38	23,825	44	335
026571 ●	4	31,6	160	14	21	50	31,267	57,5	750
027441 ▲	5	44,7	200	18	29,4	63	44,399	70,5	1830

Tool group A07
Type 671 similar **DIN 807, full point** with draw-off nut
material: tool steel



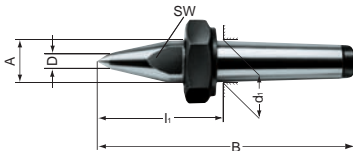
Item no.	Mount MT	A	B	C	d1	I1	Key-width SW	Weight
005361 ●	1	12,2	90	M16x1,5	12,065	36,5	10	140
005553 ●	2	18	112	M22x1,5	17,78	48	14	300
005654 ●	3	24,1	138	M27x1,5	23,825	57	19	580
005357 ●	4	31,6	175	M36x1,5	31,267	72,5	27	800
005381 ●	5	44,7	217	M48x1,5	44,399	87,5	36	2900
005426 ●	6	63,8	290	M68x1,5	63,348	108	55	7200

Tool group A07
Type 671 **Draw-off nut**



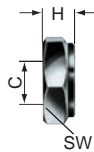
Item no.	C	H	Key-width SW	Weight
005363 ●	M16x1,5	12	24	26
005555 ●	M22x1,5	15,5	32	55
005656 ●	M27x1,5	17,5	41	110
005359 ●	M36x1,5	21	55	240
005383 ●	M48x1,5	23	75	480
005428 ●	M68x1,5	25,5	100	900

Tool group A07
Type 672 similar **DIN 807, full point** with draw-off nut, with extended point
material: tool steel



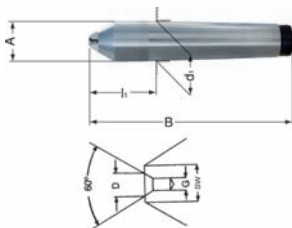
Item no.	Mount MT	A	B	C	D	d1	I1	Key-width SW	Weight
249575 ●	2	18	118	M22x1,5	10	17,78	54	14	300
249576 ●	3	24,1	148	M27x1,5	10	23,825	67	19	600
249577 ●	4	31,6	186,5	M36x1,5	14	31,267	84	27	1285
249578 ●	5	44,7	242	M48x1,5	16	44,399	112	36	3000
249579 ●	6	63,8	330	M68x1,5	20	63,348	148	55	7900

Tool group A07
Type 671 **Draw-off nut**



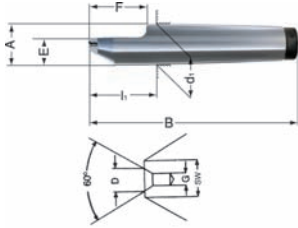
Item no.	C	H	Key-width SW	Weight
005555 ●	M22x1,5	15,5	32	55
005656 ●	M27x1,5	17,5	41	110
005359 ●	M36x1,5	21	55	240
005383 ●	M48x1,5	23	75	480
005428 ●	M68x1,5	25,5	100	900

Tool group A07
Type 673 **full point** with centre bore
material: tool steel



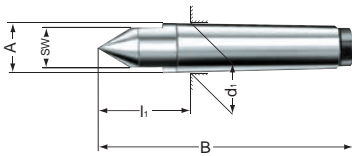
Item no.	Mount MT	A	B	D	G	d1	I1	Weight
015001 ▲	1	12,2	77	2,5	1	12,065	23,5	60
015003 ▲	2	18	95,5	4	1,6	17,78	31,5	170
015004 ●	3	24,1	120	5	2	23,825	39	350
015005 ▲	4	31,6	153	6,5	2,5	31,267	50,5	800
015006 ▲	5	44,7	191	8	3,19	44,399	61,5	1900

Tool group A07
 Typ 674 **half point** with centre bore
 material: tool steel



Item no.	Mount MT	A	B	D	E	F	G	d1	l1	Weight
015009 ●	1	12,2	77	2,5	8,6	19	1	12,065	23,5	55
015010 ●	2	18	95,5	4	12	26	1,6	17,78	31,5	150
015011 ●	3	24,1	120	5	15,7	32	2	23,825	39	310
015022 ■	4	31,6	153	6,5	20,8	42	2,5	31,267	50,5	705
015023 ■	5	44,7	191	8	29,4	53	3,15	44,399	61,5	1800

Tool group A07
 Type 695 **DIN 806, full point** with spanner flat
 material: tool steel

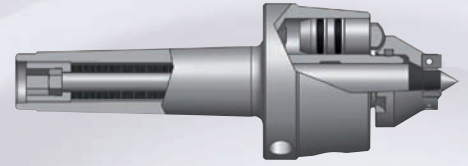


Item no.	Mount MT	A	B	d1	l1	Key-width SW	Weight
015028 ■	1	12,2	80	12,065	26,5	10	55
015032 ●	2	18	100	17,78	36	14	145
015039 ●	3	24,1	125	23,825	44	19	340
015042 ●	4	31,6	160	31,267	57,5	27	740
015040 ●	5	44,7	200	44,399	70,5	36	1860

Overview

CoA

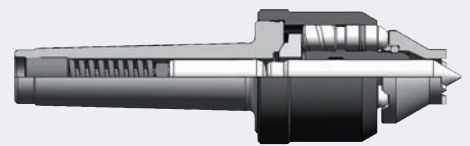
For efficient high-precision turning of workpieces along their whole length without rechucking. The modular principle design allows the unlimited exchange of driver disks and centres. The hydraulic or mechanical compensation system guarantees equal clamping forces even on uneven workpiece faces. The spring cushioned centre allows the axial stop at the face of the workpiece.
Clamping diameter 8-80 mm
Max. workpiece weight 100 kg



CoE

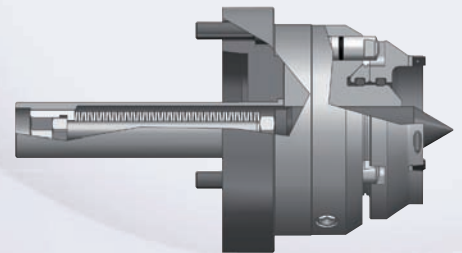
New Product!

For efficient high-precision turning of workpieces along their whole length without rechucking. In the same operation there may be also milled a groove or toothing. This could save a retooling, i. e. to a vice, which may turn out to be both time and money saving.
The modular principle design allows the unlimited exchange of driver disks and centres. The mechanical compensation system guarantees equal clamping forces even on uneven workpiece faces. The spring cushioned centre allows the axial stop at the face of the workpiece.
Clamping diameter 8-80 mm
Max. workpiece weight 100 kg



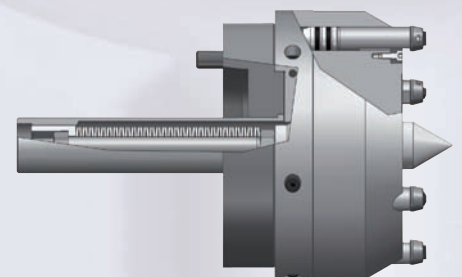
CoM

With spring loaded centre, attachable driver disk and mechanical compensation system. Adaptor flange with disk spring package or basic body with morse taper.
For the clamping of big and heavy workpieces.
Clamping diameter 50-250 mm
Max. workpiece weight 500 kg



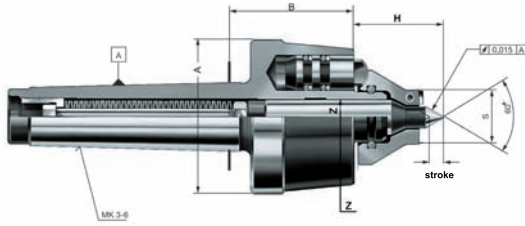
CoB

For the clamping of big and heavy workpieces. Also for extremely uneven faces. Basic body with morse taper or adaptor flange with disk spring package.
Different driver heads with interchangeable driver pins and hydraulic compensation system.
Rigid and axial adjustable spring loaded centres.
Max. workpiece weight: 500 kg
With intensified disk spring package: 1000 kg



CoK

Our power operated Constant face driver CoK will be found in product group steady rests page 6335



For rational turning of workpieces on their entire length without reclamping with high precision.

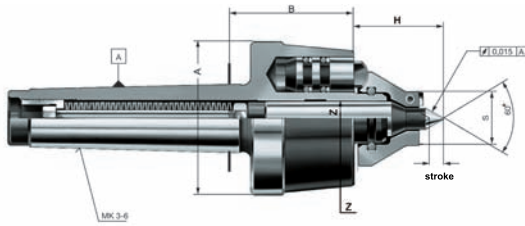
Developed according to the modular system, therefore universal exchange of driving discs and centres possible. One set consists of one basic body, one driving disc and suitable centre.

Technical features:

- hydraulic pressure compensation provides a uniform clamping force also on uneven faces of workpieces
- the spring loaded centre provides a longitudinal workpiece stop on the front side
- workpiece weight max. 100 kg
- approx. value for an axially admitted total load of the 3 supporting pistons: 2000 daN

Tool group A14
Type 680-50 **Basic body** with **morse taper** (all basic bodies without centre) CoA **hydraulic**

Item no.	MT	A	B	H	Z	Stroke Centres	Weight approx. g
088173 ●	3	70	54	max. 45 min. 26	16	10	1600
088174 ●	4	70	56,5	max. 45 min. 26	16	15	1800
088175 ●	5	70	56,5	max. 45 min. 26	16	15	2800
088176 ■	6	70	56,5	max. 45 min. 26	16	15	4400



For rational turning of workpieces on their entire length without reclamping with high precision.

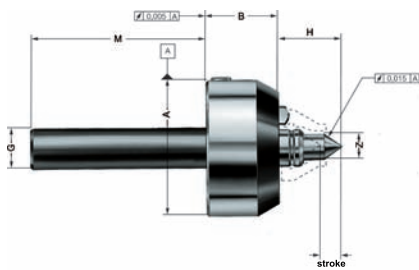
Developed according to the modular system, therefore universal exchange of driving discs and centres possible. One set consists of one basic body, one driving disc and suitable centre.

Technical features:

- hydraulic pressure compensation provides a uniform clamping force also on uneven faces of workpieces
- the spring loaded centre provides a longitudinal workpiece stop on the front side
- workpiece weight max. 100 kg
- approx. value for an axially admitted total load of the 3 supporting pistons: 2000 daN

Tool group A14
Type 680-55 **Basic body** with **morse taper**, with **draw-off nut**, CoA **hydraulic**

Item no.	MT	A	B	H	Z	Stroke Centres	Weight approx. g
088177 ■	3	70	54	max. 45 min. 26	16	10	1800
088178 ●	4	70	56,5	max. 45 min. 26	16	15	2200
088179 ●	5	70	56,5	max. 45 min. 26	16	15	3000
088180 ●	6	70	56,5	max. 45 min. 26	16	15	4600



For rational turning of workpieces on their entire length without reclamping with high precision. For clamping in lathe chucks with unstepped jaws

Developed according to the modular system, therefore universal exchange of driving discs and centres possible. One set consists of one basic body, one driving disc and suitable centre.

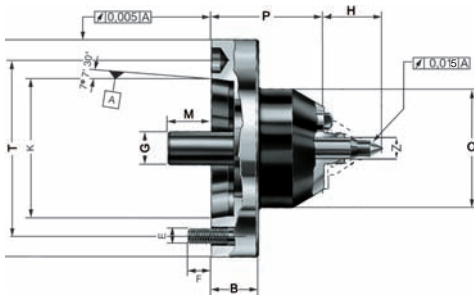
Technical features:

- hydraulic respectively mechanical pressure compensation provides a uniform clamping force also on uneven faces of workpieces
- the spring loaded centre provides a longitudinal workpiece stop on the front side
- workpiece weight max. 100 kg

Tool group A14
Type 680-65 **Basic body** for clamping in lathe chucks, with **spring set**, CoA **mechanical / hydraulic**

Item no.	A	B	G	H	M	Z	Stroke Centres	Weight approx. g
088074 ¹⁾ ●	85	45	25	max. 45 min. 26	110	16	15	2300
313085 ²⁾ ■	85	45	25	max. 45 min. 26	110	16	15	2300

¹⁾ with hydraulic compensation
²⁾ with mechanical compensation



For rational turning of workpieces on their entire length without reclamping with high precision.

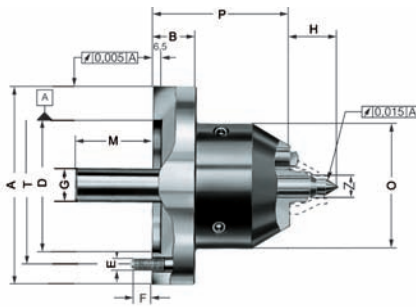
Developed according to the modular system, therefore universal exchange of driving discs and centres possible. One set consists of one basic body, one driving disc and suitable centre.

Technical features:

- mechanic pressure compensation provides a uniform clamping force also on uneven faces of workpieces
- the spring loaded centre provides a longitudinal workpiece stop on the front side
- workpiece weight max. 100 kg

Tool group A14
Type 681-85
Basic body with short taper ISO 702-1 (DIN 55026) mechanical compensation, with spring set, CoA mechanical

Item no.	Taper	A	B	E	F	G	H	K	M	O	P	T	Z	Stroke Centres	Weight approx. g
313905 ■	5	133	-	M 10	15	25	max. 45 min. 26	82,563	32	90	86	104,8	16	11	6500
313906 ●	6	165	35	M 12	18	25	max. 45 min. 26	106,375	32	90	86	133,4	16	11	7000
313907 ■	8	210	40	M 16	23	25	max. 45 min. 26	139,719	32	90	86	171,4	16	11	8100



For rational turning of workpieces on their entire length without reclamping with high precision.

Developed according to the modular system, therefore universal exchange of driving discs and centres possible. One set consists of one basic body, one driving disc and suitable centre.

Technical features:

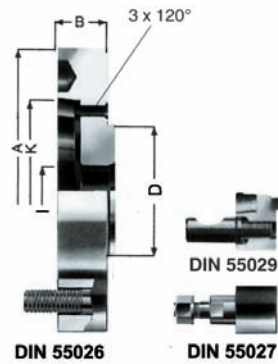
- hydraulical respectively mechanical pressure compensation provides a uniform clamping force also on uneven faces of workpieces
- the spring loaded centre provides a longitudinal workpiece stop on the front side
- workpiece weight max. 100 kg

Tool group A14
Type 680-60
Basic body flange type, with spring set, CoA mechanical / hydraulic

Item no.	A	B	D	E	F	G	H	M	O	P	T	Z	Stroke Centres	Weight approx. g
088046 ¹⁾ ●	142	30	100	M 10	15	25	max. 45 min. 26	61	90	98	120	16	15	7300
313910 ²⁾ ■	142	30	100	M 10	15	25	max. 45 min. 26	61	90	98	120	16	15	7300

¹⁾ with hydraulic compensation
²⁾ with mechanical compensation

Adapter plate CoA

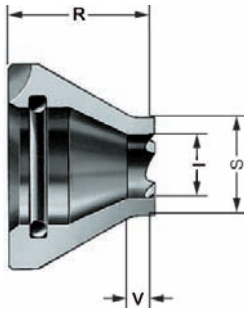


Tool group A14
Type 688-87
Adapter plate **short taper**
without spring set

Item no.	Design	Taper	A	B	D	I	K	Weight approx. kg
088485 ■	DIN 55026	5	140	30	100	38	82,563	3,1
088486 ■	DIN 55026	6	167	35	100	38	106,39	4,8
088487 ●	DIN 55026	8	216	40	100	38	139,735	8,7
088488 ■	DIN 55026	11	280	45	100	38	196,885	17
088480 ▲	DIN 55027	5	140	30	100	38	82,563	3,1
088481 ▲	DIN 55027	6	167	35	100	38	106,39	4,8
088482 ▲	DIN 55027	8	216	40	100	38	139,735	8,7
088483 ▲	DIN 55027	11	280	45	100	38	196,885	17
088495 ▲	DIN 55029	5	140	30	100	38	82,563	3,1
088496 ▲	DIN 55029	6	167	35	100	38	106,39	4,8
088497 ▲	DIN 55029	8	216	40	100	38	139,735	8,7
088498 ▲	DIN 55029	11	280	45	100	38	196,885	17

Accessories CoA

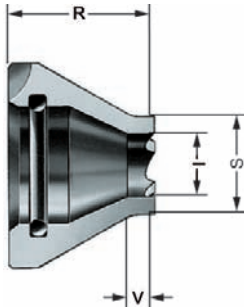
Tool group A14
Type 680-10 **Driving discs**, toothed
right-hand rotation



Item no.	Clamping circuit Ø S	Approx. turning range	I	R	V	Matching center point Ø Y	Weight approx. g
088061 ●	8	9-16	4,5	38	4	4	150
088062 ●	10	11-20	4,5	38	4	4	180
088063 ●	12	13-24	7	36	4	6	160
088064 ●	16	17-32	11	33	4	10	160
088065 ●	20	21-40	13	30	4	12	200
088066 ●	25	26-50	17	30	8	16	170
088067 ●	32	33-64	22	30	10	16	190

Driving discs with carbide tothing, friction lining or diamant granulation on request

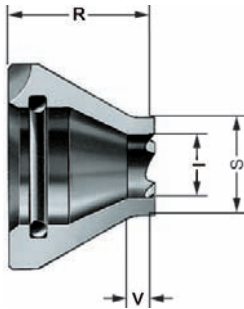
Tool group A14
Type 680-20 **Driving discs**, toothed
left-hand rotation



Item no.	Clamping circuit Ø S	Approx. turning range	I	R	V	Matching center point Ø Y	Weight approx. g
088081 ●	8	9-16	4,5	38	4	4	150
088082 ●	10	11-20	4,5	38	4	4	180
088083 ●	12	13-24	7	36	4	6	160
088084 ●	16	17-32	11	33	4	10	160
088085 ●	20	21-40	13	30	4	12	200
088086 ●	25	26-50	17	30	8	16	170
088087 ●	32	33-64	22	30	10	16	190

Driving discs with carbide tothing on request

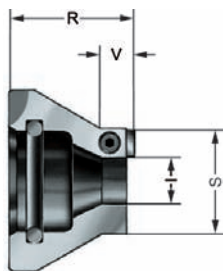
Tool group A14
Type 680-30 **Driving discs**, toothed
right- and left-hand rotation



Item no.	Clamping circuit Ø S	Approx. turning range	I	R	V	Matching center point Ø Y	Weight approx. g
088541 ●	8	9-16	4,5	38	4	4	120
088542 ●	10	11-20	4,5	38	4	4	120
088543 ●	12	13-24	7	36	4	6	120
088544 ●	16	17-32	11	33	4	10	120

Driving discs with carbide tothing on request

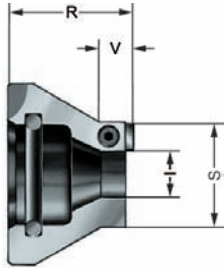
Tool group A14
Type 680-11 **Driving discs**, with interchangeable hard metal driving plates 6 x 3,2
right-hand rotation



Item no.	Clamping circuit Ø S	Approx. turning range	I	R	V	Matching center point Ø Y	Weight approx. g
089065 ●	20 H	21-40	7	30	5	6	125
089066 ●	25 H	26-50	11	30	8	10	140
089067 ●	32 H	33-64	17,5	30	10	16	200

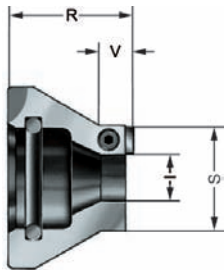
Accessories CoA

Tool group A14
 Type 680-21 **Driving discs**, with interchangeable hard metal driving plates 6 x 3,2
left-hand rotation



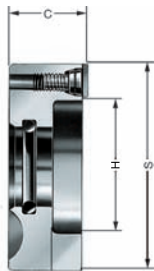
Item no.	Clamping circuit Ø S	Approx. turning range	l	R	V	Matching center point Ø Y	Weight approx. g
089085 ●	20 H	21-40	7	30	5	6	125
089086 ●	25 H	26-50	11	30	8	10	140
089087 ●	32 H	33-64	175	30	10	16	200

Tool group A14
 Type 680-31 **Driving discs**, with interchangeable hard metal driving plates 6 x 3,2
right- and left-hand rotation



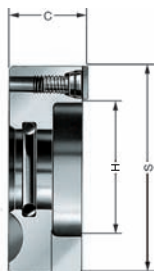
Item no.	Clamping circuit Ø S	Approx. turning range	l	R	V	Matching center point Ø Y	Weight approx. g
088545 ●	20 H	21-40	7	30	5	6	125
088546 ●	25 H	26-50	11	30	8	10	140
088547 ●	32 H	33-64	175	30	10	16	200

Tool group A14
 Type 680-12 **Driving discs**, with interchangeable hard metal driving plates 6 x 3,2 which can be used on 4 sides
right-hand rotation



Item no.	Clamping circuit Ø S	Approx. turning range	H	C	Matching center point Ø Y	Weight approx. g
088068 ●	40	41-80	20	24	16	600
088069 ●	50	51-100	28	24	16	240
088070 ●	63	64-126	41	24	16	400
088071 ●	80	81-160	58	24	16	600

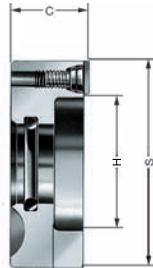
Tool group A14
 Type 680-22 **Driving discs**, with interchangeable hard metal driving plates 6 x 3,2 which can be used on 4 sides
left-hand rotation



Item no.	Clamping circuit Ø S	Approx. turning range	H	C	Matching center point Ø Y	Weight approx. g
088088 ●	40	41-80	20	24	16	600
088089 ●	50	51-100	28	24	16	240
088090 ●	63	64-126	41	24	16	400
088091 ●	80	81-160	58	24	16	600

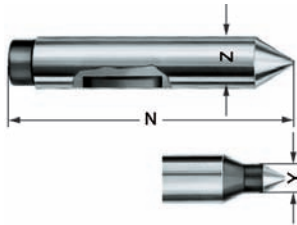
Accessories CoA

Tool group A14
Type 680-32 **Driving discs**, with interchangeable hard metal driving plates 6 x 3,2 which can be used on 4 sides right- **and** left-hand rotation



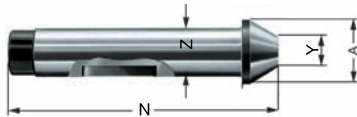
Item no.	Clamping circuit Ø S	Approx. turning range	H	C	Matching center point ØY	Weight approx. g
088548 ●	40	41-80	20	24	16	600
088549 ●	50	51-100	28	24	16	240
088550 ●	63	64-126	41	24	16	400
088551 ●	80	81-160	58	24	16	600

Tool group A14
Type 680-40 **Centres, CoA**



Item no.	Clamping circuit Ø	N	Y	Z	Weight approx. g
088351 ●	8-10	90	4	16	110
088352 ●	12	90	6	16	110
088353 ●	16	90	10	16	110
088354 ●	20	90	12	16	110
088355 ●	25-80	90	16	16	120
086758 ●	25-80	110	16	16	150

Tool group A14
Type 680-45, **Centres with head, CoA**



Item no.	Taper Ø		N	Z	Weight approx. g
	A	Y			
086619 ●	21	10	90	16	136
086620 ●	27	16	90	16	153
688878 ●	34	23	90	16	190
086621 ●	40	29	90	16	210
688880 ●	48	37	90	16	250
086622 ●	56	45	90	16	312

Tool group A14
Type 680-90 **Hard metal driving plates**
right- **or** left-hand rotation



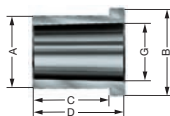
Item no.	Size	Clamping circuit Ø	Weight approx. g
088810 ●	6x3,2	20-32	2
088209 ●	9,5x3,2	40-80	4

Tool group A14
Type 680-93 **Hard metal driving plates**
right- **and** left-hand rotation



Item no.	Size	Clamping circuit Ø	Weight approx. g
088970 ●	6x3,2	20-32	2
087931 ●	9,5x3,2	40-80	4

Tool group A14
Type 680-72 **Mounting sleeve**
for the clamping of a face driver in lathe chuck



Item no.	MT inside	A	B	C	D	G	Weight approx. g
085033 ●	3	31	39	32	40	23,825	150
085034 ●	4	39	47	42	50	31,267	250
085035 ●	5	54	62	52	60	44,399	480
085036 ▲	6	75	83	62	70	63,448	1050

Accessories CoA

Accessories Constant face drivers CoA

Tool group C15
Type 0167-Y
Threaded pin



Item no.	Size	Clamping circuit Ø	Weight approx. g
234695 ●	M 4 x 6	20	1
048205 ●	M 5 x 8	25+32	1
088205 ●	M 5 x 8	40-80	2

Tool group C15
Type 5191-Y
O-ring



Item no.	Size
006252 ●	21,82x3,53

Tool group A14
Type 680
RÖHM slide rule to calculate axial tailstock loading



Item no.	Weight approx. g
088230 ●	35

CoA Assortments

Tool group A14
Type 680 **Basic equipment** in a carton
hydraulic, clamping dia. 12 + 32 mm, turning range 13-64 mm



Item no.	MT	right-hand rotation	left-hand rotation	with draw-off nut	Weight approx. g
088553 ●	3	•			2100
088557 ■	3	•		•	2400
088573 ■	3		•		2100
088577 ■	3		•	•	2400
088554 ●	4	•			2400
088558 ▲	4	•		•	2700
088574 ▲	4		•		2400
088578 ▲	4		•	•	2700
088555 ●	5	•			3300
088559 ▲	5	•		•	3600
088575 ▲	5		•		3300
088579 ▲	5		•	•	3600
088556 ▲	6	•			4900
088560 ▲	6	•		•	5200
088576 ▲	6		•		4900
088580 ▲	6		•	•	5200

Tool group A14
Type 680 **Small assortment** in wooden box
hydraulic, clamping dia. 12-50 mm, turning range 13-100 mm

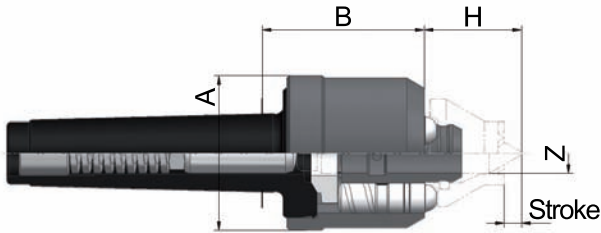


Item no.	MT	right-hand rotation	left-hand rotation	with draw-off nut	Weight approx. g
088501 ●	3	•			3900
088511 ■	3	•		•	4200
088521 ■	3		•		3900
088531 ▲	3		•	•	4200
088502 ●	4	•			4300
088512 ▲	4	•		•	4600
088522 ■	4		•		4300
088532 ▲	4		•	•	4600
088503 ●	5	•			4900
088513 ▲	5	•		•	5200
088523 ▲	5		•		4900
088533 ▲	5		•	•	5200
088504 ●	6	•			6600
088514 ▲	6	•		•	6800
088524 ▲	6		•		6600
088534 ▲	6		•	•	6800

Tool group A14
Type 680 **Large assortment** in wooden box
hydraulic, clamping dia. 10-80 mm, turning range 11-160 mm



Item no.	MT	right-hand rotation	left-hand rotation	with draw-off nut	Weight approx. g
088218 ■	3	•			5600
088223 ■	3		•		5600
088233 ■	3	•		•	5900
088238 ■	3		•	•	5900
088219 ▲	4	•			6000
088224 ▲	4		•		6000
088234 ●	4	•		•	6300
088239 ▲	4		•	•	6300
088220 ▲	5	•			6600
088225 ▲	5		•		6600
088235 ▲	5	•		•	6900
088240 ▲	5		•	•	6900
088221 ▲	6	•			8300
088226 ▲	6		•		8300
088236 ▲	6	•		•	8500
088241 ▲	6		•	•	8500



For rational turning of workpieces on their entire length without reclamping with high precision.

Developed according to the modular system, therefore universal exchange of driving discs and centres possible.
One set consists of one basic body, one driving disc and suitable centre.

Technical features:

- mechanic pressure compensation provides a uniform clamping force also on uneven faces of workpieces
- the spring loaded centre provides a longitudinal workpiece stop on the front side
- workpiece weight max. 100 kg
- Clamping circuit \varnothing 8-80 mm
- approx. value for an axially admitted total load of the 3 supporting pistons: 900 daN

Customer advantage:

- Face driver for turning and milling
- Compensating driving plates with radial freedom of movement
- Easy mechanical compensation of the driving plates
- Stable and consistent length stop
- High runout concentricity
- Easy to maintain

Tool group A14
Type 684-90

Basic body with morse taper
(all basic bodies without centre)
CoE

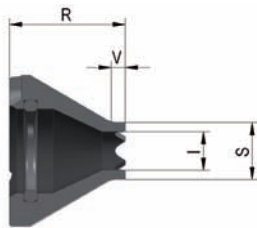
mechanical

Item no.	MT	A	B	H	Z	Stroke	Centres	Weight approx. g
310065	3	62	65	max. 38 min. 26	16	10		1800
310066	4	62	65	max. 38 min. 26	16	10		1900
310068	5	62	65	max. 38 min. 26	16	10		2000

Accessories CoE

Tool group A14

Type 684-30 **Driving discs**, toothed
right- and left-hand rotation, free from play

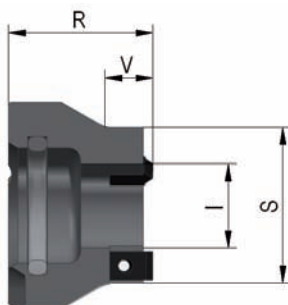


Item no.	Clamping circuit \varnothing S	Approx. turning range	I	R	V	Matching center point \varnothing Y	Weight approx. g
1209000	8	9-16	4,5	38	4	4	120
1209001	10	11-20	4,5	38	4	4	120
1209002	12	13-24	7	36	4	6	120
1209003	16	17-32	11	33	4	10	120
1209004	20	21-40	13	30	4	12	120
1209005	25	26-50	17	30	8	16	130
1209006	32	33-64	22	30	10	16	160

Driving discs with carbide toothing on request

Tool group A14

Type 684-31 **Driving discs**,
with interchangeable hard metal driving plates 6 x 3,2
right- and left-hand rotation, free from play

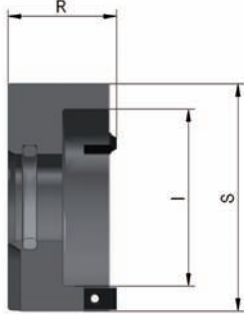


Item no.	Clamping circuit \varnothing S	Approx. turning range	I	R	V	Matching center point \varnothing Y	Weight approx. g
1209007	20	21-40	7	30	8	6	125
1209008	25	26-50	11	30	8	10	140
1209009	32	33-64	17,5	30	10	16	160
1209010	40	41-80	27	30	16	16	180

Accessories CoE

Tool group A14

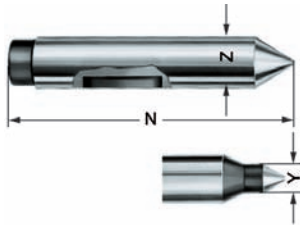
Type 684-31 **Driving discs**, with interchangeable hard metal driving plates 6 x 3,2 which can be used on 4 sides right- and left-hand rotation, free from play



Item no.	Clamping circuit Ø S	Approx. turning range	I	R	Matching center point ØY	Weight approx. g
1209011 ■	50	51-100	36	30	16	260
1209012 ■	63	64-126	49	30	16	420
1209013 ■	80	81-160	66	30	16	680

Tool group A14

Type 684-40 **Centres**, CoE



Item no.	Clamping circuit Ø	N	Y	Z	Weight approx. g
1209016 ■	8-10	90	4	16	110
1209017 ■	12	90	16	6	110
1209018 ■	16	90	6	16	110
1209019 ■	20	90	12	16	110
1209020 ■	25-80	90	16	16	120

Tool group A14

Type 680-93 **Hard metal driving plates**

right- and left-hand rotation

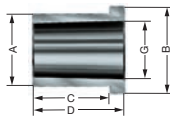


Item no.	Size	Clamping circuit Ø	Weight approx. g
088970 ●	6x3,2	20-32	2

Tool group A14

Type 680-72 **Mounting sleeve**

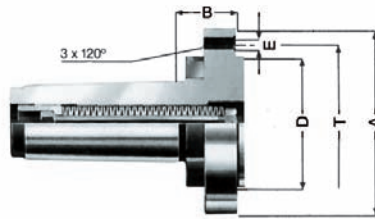
for the clamping of a face driver in lathe chuck



Item no.	MT inside	A	B	C	D	G	Weight approx. g
085033 ●	3	31	39	32	40	23,825	150
085034 ●	4	39	47	42	50	31,267	250
085035 ●	5	54	62	52	60	44,399	480

CoM

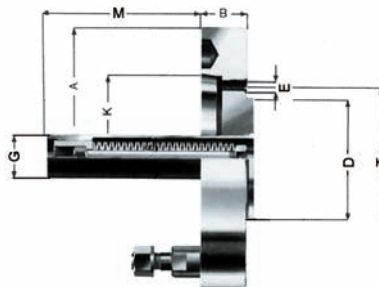
Constant face drivers CoM



Tool group A14
Type 688
Basic body with morse taper and draw-off nut mechanical / hydraulic

Item no.	MT	A	B	D	E	T	Weight approx. g
088295 ■	5	140	45	100	M 10	120	5800
088296 ■	6	140	45	100	M 10	120	7480

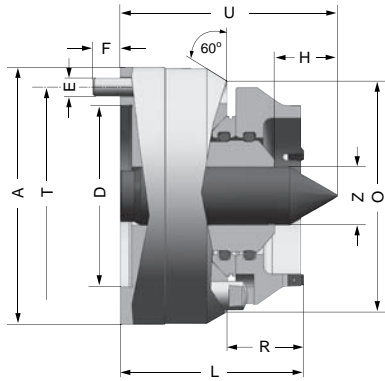
Adapter plate CoM



Tool group A14
Type 688
Adapter plate short taper with spring set

Item no.	Taper	Design	A	B	D	E	G	K	M	T	Weight approx. g
088331 ■	5	DIN 55026	140	30	100	M 10	37,5	82,563	144	120	4500
088332 ■	6	DIN 55026	165	35	100	M 10	37,5	106,39	139	120	7000
088333 ■	8	DIN 55026	216	40	100	M 10	37,5	139,735	134	120	11500
088334 ■	11	DIN 55026	280	45	100	M 10	37,5	196,885	129	120	23000
088335 ▲	5	DIN 55027	140	30	100	M 10	37,5	82,563	144	120	5500
088336 ▲	6	DIN 55027	165	35	100	M 10	37,5	106,39	139	120	7000
088337 ▲	8	DIN 55027	216	40	100	M 10	37,5	139,735	134	120	11500
088338 ▲	11	DIN 55027	280	45	100	M 10	37,5	196,885	129	120	23000
088339 ▲	5	DIN 55029	140	30	100	M 10	37,5	82,563	144	120	4500
088340 ▲	6	DIN 55029	165	35	100	M 10	37,5	106,39	139	120	7000
088341 ▲	8	DIN 55029	216	40	100	M 10	37,5	139,735	134	120	11500
088342 ▲	11	DIN 55029	280	45	100	M 10	37,5	196,885	129	120	23000

Driving head CoM



For clamping large and heavy workpieces, even with extremely uneven faces.

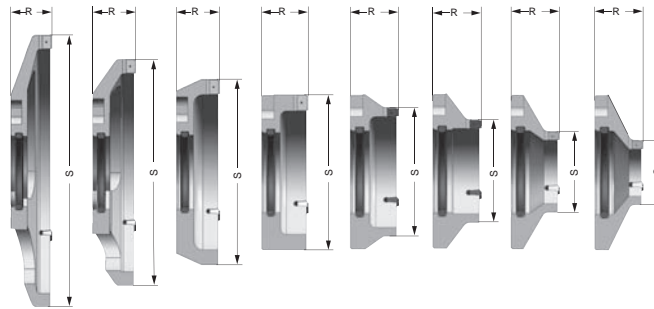
Technical features:

- spring loaded, rigid centre, axially adjustable
- basic body with morse taper or adapter plate with cup spring set
- workpiece weight max. 500 kg
- slip-on driving discs - clamping diameter 50-250 mm
- mechanical compensation

Tool group A14
Type 687
Face driving head
with cylindrical centre mount
mechanical

Item no.	A	D	E	F	H	L	O	R	T	U	Z
689080	142	100	M 10	15	35	102	128	38	120	120	32

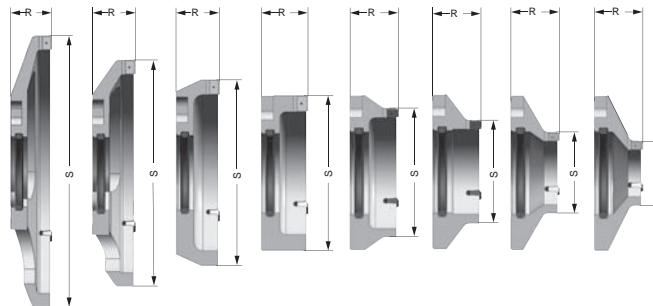
Driving discs CoM



Tool group A14
Type 687-13
Driving discs
with interchangeable hard metal
driving plates
right-hand rotation

Item no.	Clamping circuit Ø S	R	Hard metal driving plate	Weight approx. g
689461	50	48	6 x 5T	1400
689462	63	45	6 x 5T	1500
689463	80	38	6 x 5T	1500
689464	100	38	6 x 5T	1400
689465	125	38	12 x 5T	1800
689466	160	38	12 x 5T	2500
689467 ¹⁾	200	38	12 x 5T	2500
689468 ¹⁾	250	38	12 x 5T	3200

¹⁾ Weight reduced



Tool group A14
Type 687-23
Driving discs
with interchangeable hard metal
driving plates
left-hand rotation

Item no.	Clamping circuit Ø S	R	Hard metal driving plate	Weight approx. g
689091	50	48	6 x 5T	1400
689092	63	45	6 x 5T	1500
689093	80	38	6 x 5T	1500
689094	100	38	6 x 5T	1400
689095	125	38	12 x 5T	1800
689096	160	38	12 x 5T	2500
689097 ¹⁾	200	38	12 x 5T	2500
689098 ¹⁾	250	38	12 x 5T	3200

¹⁾ Weight reduced

Accessories CoM

Accessories Constant face drivers CoM

Tool group A14
Type 688-40 **Centres**



Item no.	N	Z	Weight approx. g
088292 ●	120	32	620
088293 ●	140	32	750

Tool group A14
Type 680-90 **Hard metal driving plates**
right- or left-hand rotation



Item no.	Size	Weight approx. g
312675 ●	6 x 5 T	3
312911 ●	12 x 5 T	6

Tool group C15
Type 0167-Y
Threaded pin



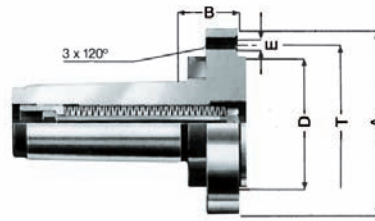
Item no.	Size	Clamping circuit Ø	Weight approx. g
048205 ●	M 5 x 8	25+32	1
036461 ●	M 5 x 10		1

Tool group C15
Type 5191-Y
O-ring



Item no.	Size
006283 ■	59,69x5,33

CoB

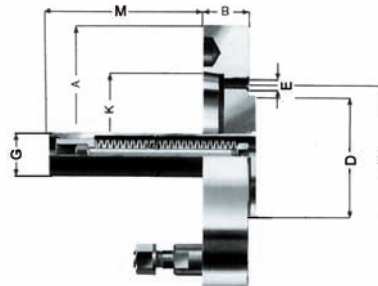


Tool group A14
Type 688

Basic body with morse taper and draw-off nut mechanical / hydraulic

Item no.	MT	A	B	D	E	T	Weight approx. g
088295 ■	5	140	45	100	M 10	120	5800
088296 ■	6	140	45	100	M 10	120	7480

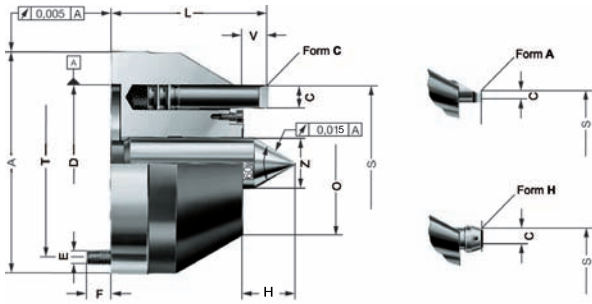
Adapter plate CoB



Tool group A14
Type 688 Adapter plate **short taper with spring set**

Item no.	Taper	Design	A	B	D	E	G	K	M	T	Weight approx. g
088331 ■	5	DIN 55026	140	30	100	M 10	37,5	82,563	144	120	4500
088332 ■	6	DIN 55026	165	35	100	M 10	37,5	106,39	139	120	7000
088333 ■	8	DIN 55026	216	40	100	M 10	37,5	139,735	134	120	11500
088334 ■	11	DIN 55026	280	45	100	M 10	37,5	196,885	129	120	23000
088335 ▲	5	DIN 55027	140	30	100	M 10	37,5	82,563	144	120	5500
088336 ▲	6	DIN 55027	165	35	100	M 10	37,5	106,39	139	120	7000
088337 ▲	8	DIN 55027	216	40	100	M 10	37,5	139,735	134	120	11500
088338 ▲	11	DIN 55027	280	45	100	M 10	37,5	196,885	129	120	23000
088339 ▲	5	DIN 55029	140	30	100	M 10	37,5	82,563	144	120	4500
088340 ▲	6	DIN 55029	165	35	100	M 10	37,5	106,39	139	120	7000
088341 ▲	8	DIN 55029	216	40	100	M 10	37,5	139,735	134	120	11500
088342 ▲	11	DIN 55029	280	45	100	M 10	37,5	196,885	129	120	23000

Driving heads CoB



For clamping large and heavy workpieces, even with extremely uneven faces.

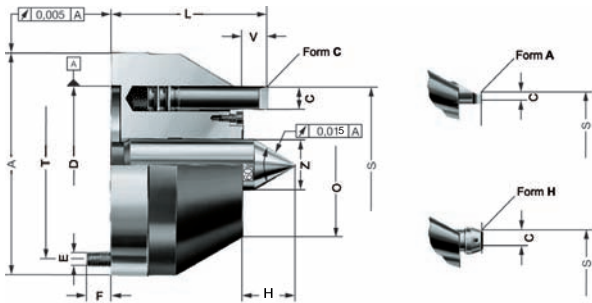
With hydraulic compensation - interchangeable driving pins
 Workpiece weight with single layer disk spring package: 500 kg
 Workpiece weight with double layer disk spring package: 1000 kg

Technical features:

- bolt-on face driver heads with interchangeable driving pins
- driving pins can be changed to allow right-hand or left-hand rotation
- spring loaded, rigid centre, axially adjustable

Tool group A14
 Type 688-10
 Face Driving Head **size 1** CoB;
hydraulic
right-hand rotation

Item no.	S	Approx. turning range	A	C	D	E	F	H	L	O	T	V	Z	Pin	Weight approx. kg
088301	63	65-125	142	6	100	M 10	15	max. 45 min. 18	102	72	120	16	25	6 x 16 A	7
088361	75	80-150	142	9,5	100	M 10	15	max. 45 min. 18	102	72	120	16	25	6 x 16 H	7
088302	80	82-160	142	14,5	100	M 10	15	max. 45 min. 18	102	72	120	16	25	6 x 16 C	7



For clamping large and heavy workpieces, even with extremely uneven faces.

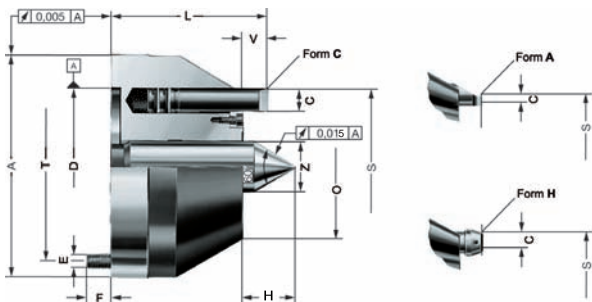
With hydraulic compensation - interchangeable driving pins
 Workpiece weight with single layer disk spring package: 500 kg
 Workpiece weight with double layer disk spring package: 1000 kg

Technical features:

- bolt-on face driver heads with interchangeable driving pins
- driving pins can be changed to allow right-hand or left-hand rotation
- spring loaded, rigid centre, axially adjustable

Tool group A14
 Type 688-10
 Face Driving Head **size 2** CoB;
hydraulic
right-hand rotation

Item no.	S	Approx. turning range	A	C	D	E	F	H	L	O	T	V	Z	Pin	Weight approx. kg
088303	83	85-165	142	6	100	M 10	15	max. 45 min. 18	102	92	120	16	32	6 x 16 A	8,2
088362	95	100-190	142	9,5	100	M 10	15	max. 45 min. 18	102	92	120	16	32	6 x 16 H	8,2
088304	100	102-200	142	14,5	100	M 10	15	max. 45 min. 18	102	92	120	16	32	6 x 16 C	8,2



For clamping large and heavy workpieces, even with extremely uneven faces.

With hydraulic compensation - interchangeable driving pins
 Workpiece weight with single layer disk spring package: 500 kg
 Workpiece weight with double layer disk spring package: 1000 kg

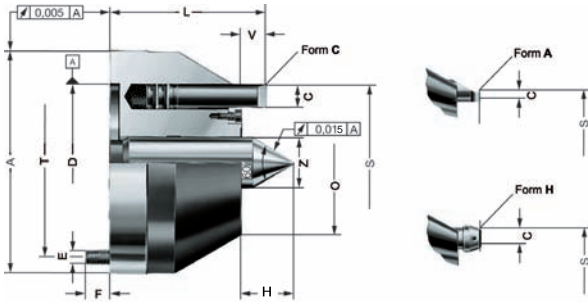
Technical features:

- bolt-on face driver heads with interchangeable driving pins
- driving pins can be changed to allow right-hand or left-hand rotation
- spring loaded, rigid centre, axially adjustable

Tool group A14
 Type 688-10
 Face Driving Head **size 3** CoB;
hydraulic
right-hand rotation

Item no.	S	Approx. turning range	A	C	D	E	F	H	L	O	T	V	Z	Pin	Weight approx. kg
088305	108	110-215	142	6	100	M 10	15	max. 45 min. 18	102	117	120	16	32	6 x 16 A	9,5
088363	120	125-240	142	9,5	100	M 10	15	max. 45 min. 18	102	117	120	16	32	6 x 16 H	9,5
088306	125	127-250	142	14,5	100	M 10	15	max. 45 min. 18	102	117	120	16	32	6 x 16 C	9,5

Driving heads CoB



For clamping large and heavy workpieces, even with extremely uneven faces.

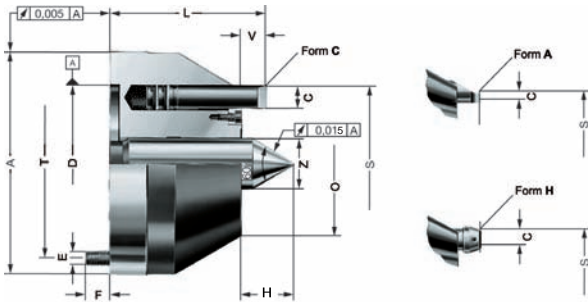
With hydraulic compensation - interchangeable driving pins
 Workpiece weight with single layer disk spring package: 500 kg
 Workpiece weight with double layer disk spring package: 1000 kg

Technical features:

- bolt-on face driver heads with interchangeable driving pins
- driving pins can be changed to allow right-hand or left-hand rotation
- spring loaded, rigid centre, axially adjustable

Tool group A14
 Type 688-10
 Face Driving Head size 4 CoB;
hydraulic
right-hand rotation

Item no.	S	Approx. turning range	A	C	D	E	F	H	L	O	T	V	Z	Pin	Weight approx. kg
088307	143	145-285	182	6	100	M 10	15	max. 45 min. 18	102	152	120	16	32	6 x 16 A	16
088364	155	160-310	182	9,5	100	M 10	15	max. 45 min. 18	102	152	120	16	32	6 x 16 H	16
088308	160	162-320	182	14,5	100	M 10	15	max. 45 min. 18	102	152	120	16	32	6 x 16 C	16



For clamping large and heavy workpieces, even with extremely uneven faces.

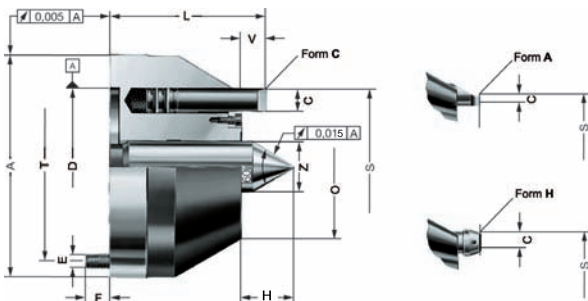
With hydraulic compensation - interchangeable driving pins
 Workpiece weight with single layer disk spring package: 500 kg
 Workpiece weight with double layer disk spring package: 1000 kg

Technical features:

- bolt-on face driver heads with interchangeable driving pins
- driving pins can be changed to allow right-hand or left-hand rotation
- spring loaded, rigid centre, axially adjustable

Tool group A14
 Type 688-20
 Face Driving Head size 1 CoB;
hydraulic
left-hand rotation

Item no.	S	Approx. turning range	A	C	D	E	F	H	L	O	T	V	Z	Pin	Weight approx. kg
088321	63	65-125	142	6	100	M 10	15	max. 45 min. 18	102	72	120	16	25	6 x 16 A	7
088381	75	80-150	142	9,5	100	M 10	15	max. 45 min. 18	102	72	120	16	25	6 x 16 H	7
088322	80	82-160	142	14,5	100	M 10	15	max. 45 min. 18	102	72	120	16	25	6 x 16 C	7



For clamping large and heavy workpieces, even with extremely uneven faces.

With hydraulic compensation - interchangeable driving pins
 Workpiece weight with single layer disk spring package: 500 kg
 Workpiece weight with double layer disk spring package: 1000 kg

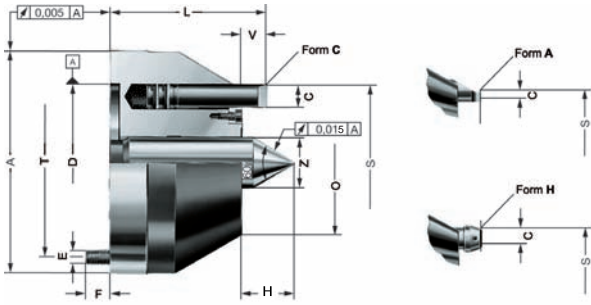
Technical features:

- bolt-on face driver heads with interchangeable driving pins
- driving pins can be changed to allow right-hand or left-hand rotation
- spring loaded, rigid centre, axially adjustable

Tool group A14
 Type 688-20
 Face Driving Head size 2 CoB;
hydraulic
left-hand rotation

Item no.	S	Approx. turning range	A	C	D	E	F	H	L	O	T	V	Z	Pin	Weight approx. kg
088323	83	85-165	142	6	100	M 10	15	max. 45 min. 18	102	92	120	16	32	6 x 16 A	8,2
088382	95	100-190	142	9,5	100	M 10	15	max. 45 min. 18	102	92	120	16	32	6 x 16 H	8,2
088324	100	102-200	142	14,5	100	M 10	15	max. 45 min. 18	102	92	120	16	32	6 x 16 C	8,2

Driving heads CoB



For clamping large and heavy workpieces, even with extremely uneven faces.

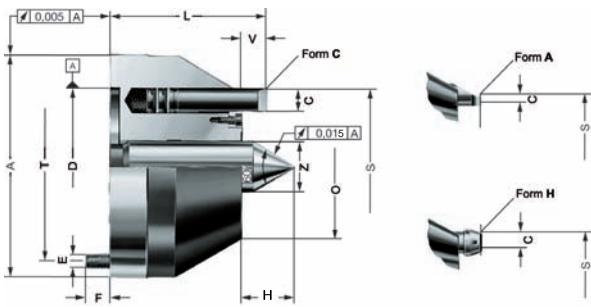
With hydraulic compensation - interchangeable driving pins
 Workpiece weight with single layer disk spring package: 500 kg
 Workpiece weight with double layer disk spring package: 1000 kg

Technical features:

- bolt-on face driver heads with interchangeable driving pins
- driving pins can be changed to allow right-hand or left-hand rotation
- spring loaded, rigid centre, axially adjustable

Tool group A14
 Type 688-20
 Face Driving Head size 3 CoB;
hydraulic
left-hand rotation

Item no.	S	Approx. turning range	A	C	D	E	F	H	L	O	T	V	Z	Pin	Weight approx. kg
088325	108	110-215	142	6	100	M 10	15	max. 45 min. 18	102	117	120	16	32	6 x 16 A	9,5
088383	120	125-240	142	9,5	100	M 10	15	max. 45 min. 18	102	117	120	16	32	6 x 16 H	9,5
088326	125	127-250	142	14,5	100	M 10	15	max. 45 min. 18	102	117	120	16	32	6 x 16 C	9,5



For clamping large and heavy workpieces, even with extremely uneven faces.

With hydraulic compensation - interchangeable driving pins
 Workpiece weight with single layer disk spring package: 500 kg
 Workpiece weight with double layer disk spring package: 1000 kg

Technical features:

- bolt-on face driver heads with interchangeable driving pins
- driving pins can be changed to allow right-hand or left-hand rotation
- spring loaded, rigid centre, axially adjustable

Tool group A14
 Type 688-20
 Face Driving Head size 4 CoB;
hydraulic
left-hand rotation

Item no.	S	Approx. turning range	A	C	D	E	F	H	L	O	T	V	Z	Pin	Weight approx. kg
088327	143	145-285	182	6	100	M 10	15	max. 45 min. 18	102	152	120	16	32	6 x 16 A	16
088384	155	160-310	182	9,5	100	M 10	15	max. 45 min. 18	102	152	120	16	32	6 x 16 H	16
088328	160	162-320	182	14,5	100	M 10	15	max. 45 min. 18	102	152	120	16	32	6 x 16 C	16

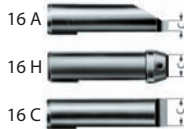
Accessories CoB

Tool group A14
Type 688-40 **Centres**



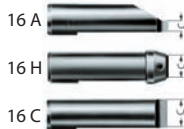
Item no.	N	Z	Weight approx. g
088291 ●	120	25	390
088292 ●	120	32	620
088293 ●	140	32	750

Tool group C15
Type 689-91
driving pins, right-hand rotation



Item no.	Diameter	Size	C	Length	Weight approx. g
085383 ●	16	16 A	6	60	80
088100 ●	16	16 H	9,5	60	90
085052 ●	16	16 C	14,5	60	85

Tool group C15
Type 689-92
driving pins, left-hand rotation



Item no.	Diameter	Size	C	Length	Weight approx. g
085016 ●	16	16 A	6	60	80
088099 ●	16	16 H	9,5	60	90
085051 ●	16	16 C	14,5	60	85

Tool group A14
Type 680-90 **Hard metal driving plates**
right- or left-hand rotation



Item no.	Size	Clamping circuit Ø	Weight approx. g
088209 ●	9,5x3,2	40-80	4

Tool group A14
Type 688-89
Sleeve with spring set, suitable for adapter plates



Item no.	Workpiece weight max. kg	Weight approx. g
086806 ■	500	800
087286 ■	1000	800

