



Live centres

# Operation guide

Operation guide



PRO	HM Pro Carbide insert						HMG Pro With carbide insert and draw-off nut					
Size MT	2	3	3	4	5	6	2	3	3	4	5	6
Workpiece weight max. (kg)	120	240	360	500	1000	1800	120	240	360	500	1000	1800
Concentricity deviation max. (mm)	0,005						0,01					
Speed max min <sup>-1</sup>	7000	6300	5000	3800	3000	2600	7000	6300	5000	3800	3000	2600
Page	2008						2009					



PRO	H Pro Standard design									HG Pro Standard design with draw-off nut								
Size MT	1	2	3	3	4	5	6	6	Metr.80	2	3	3	4	5	6			
Workpiece weight max. (kg)	100	200	400	500	800	2000	3500	5000	7500	200	400	500	800	2000	3500			
Concentricity deviation max. (mm)	0,005									0,008	0,01	0,015	0,005					
Speed max min <sup>-1</sup>	7000	7000	6300	5000	3800	3000	2600	1500	1500	7000	6300	5000	3800	3000	2600			
Page	2010									2011								



PRO	HZA Pro Cylindrical shank			HP Pro High precision design				
Size ZA / MT	ZA 20	ZA 25	ZA 32	2	3	4	5	6
Workpiece weight max. (kg)	130	200	400	200	500	800	2000	3500
Concentricity deviation max. (mm)	0,005			0,003				
Speed max min <sup>-1</sup>	7000	5000	3800	7000	5000	3800	3000	2600
Page	2012			2013				



PRO & ORANGE LINE	HVL Pro Extended centre point						HVLN Pro Extended centre point, profiled				Orange Line Orange Line		
Size MT	1	2	3	4	5	6	2	3	4	5	3	4	5
Workpiece weight max. (kg)	80	140	400	500	1200	2500	100	150	180	280	300	500	630
Concentricity deviation max. (mm)	0,01	0,005				0,01	0,005				0,005		
Speed max min <sup>-1</sup>	7000	7000	5000	3800	3000	2600	7000	5000	3800	3000	8500	6000	4500
Page	2014						2015				2016		



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HEAVY SPEED	Heavy Extended centre point			Heavy Extended centre point with draw-off nut			Speed Extended centre point, with carbide insert			
Size MT	4	5	6	4	5	6	2	3	4	5
Workpiece weight max. (kg)	1000	2000	3000	1000	2000	3000	100	100	250	250
Concentricity deviation max. (mm)	0,005			0,005			0,01			
Speed max min <sup>-1</sup>	7000	6000	4800	7000	6000	4800	12000	12000	9000	9000
Page	2017			2018			2019			



SLIM	Slim Standard design					Slim Extended centre point					Slim Extended centre point, profiled			
Size MT	2	3	4	5	6	2	3	4	5	6	2	3	4	5
Workpiece weight max. (kg)	200	400	800	1600	3500	170	340	700	1400	3000	50	100	150	180
Concentricity deviation max. (mm)	0,005			0,01	0,02	0,008			0,01	0,02	0,008			0,01
Speed max min <sup>-1</sup>	7000	7000	6300	4300	3000	7000	7000	6300	4300	3000	7000	7000	6300	4300
Page	2020					2021					2022			



CONTROL FLEX	AC Control Standard design				AC-VL Control Extended centre point				A Flex Interchangeable inserts					
Size MT	3	4	5	6	3	4	5	6	2	3	3	4	5	6
Workpiece weight max. (kg)	400	800	1600	3200	260	550	1100	2500	40	130	150	250	650	900
Concentricity deviation max. (mm)	0,01		0,015		0,01		0,015		0,01					
Speed max min <sup>-1</sup>	4000	3500	2500	1800	4000	3500	2500	1800	7000	6300	5000	3800	3000	2600
Page	2023				2024				2025					



Revolving centering taper

# Operation guide

Operation guide



MZK	Revolving centering tapers Pointed				
Size MT	2	3	4	5	6
Workpiece weight max. (kg)	200	400	800	1600	2500
Concentricity deviation max. (mm)	0,01		0,008		
Speed max min <sup>-1</sup>	6000	6000	4000	4000	2500
Page	2030				



MZK	Revolving centering tapers Cone truncated, 60 °						
Size MT	2	2	3	3	4	4	5
Workpiece weight max. (kg)	200	300	400	600	400	800	800
Concentricity deviation max. (mm)	0,008						
Speed max min <sup>-1</sup>	6000	5000	5000	4000	5000	4000	4000
Page	2030						



MZK	Revolving centering tapers Cone truncated, 75 °												
Size MT	2	3	3	4	4	4	5	5	5	6	6	6	
Workpiece weight max. (kg)	300	400	600	400	800	1200	800	1600	2000	1600	2000	4000	
Concentricity deviation max. (mm)	0,008			0,01			0,008			0,01			0,015
Speed max min <sup>-1</sup>	5000	5000	4000	5000	4000	2800	4000	2800	2200	2800	2200	1200	
Page	2030												



MZK	Revolving centering tapers with interchangeable inserts			Revolving centering tapers with interchangeable inserts and draw-off nut			Fixed shafts with interchangeable inserts		
Size MT	4	5	6	4	5	6	4	5	6
Workpiece weight max. (kg)	800	1600	3000	1000	2000	3500	2000	4800	12000
Concentricity deviation max. (mm)	0,005			0,005			0,003		
Speed max min <sup>-1</sup>	3800	3000	2600	7000	6000	4800	-	-	-
Page	2031			2031			2031		



Solid centres

# Operation guide

Operation guide



FZS	Solid centres With full carbide tip				Solid centres Full point, carbide insert and regrinding line			
Size MT	2	3	4	5	2	3	4	5
Concentricity deviation max. (mm)	0,005				0,005			
Page	2034				2034			



FZS	Solid centres Full point						
Size MT	0	1	2	3	4	5	6
Concentricity deviation max. (mm)	0,005						
Page	2034						

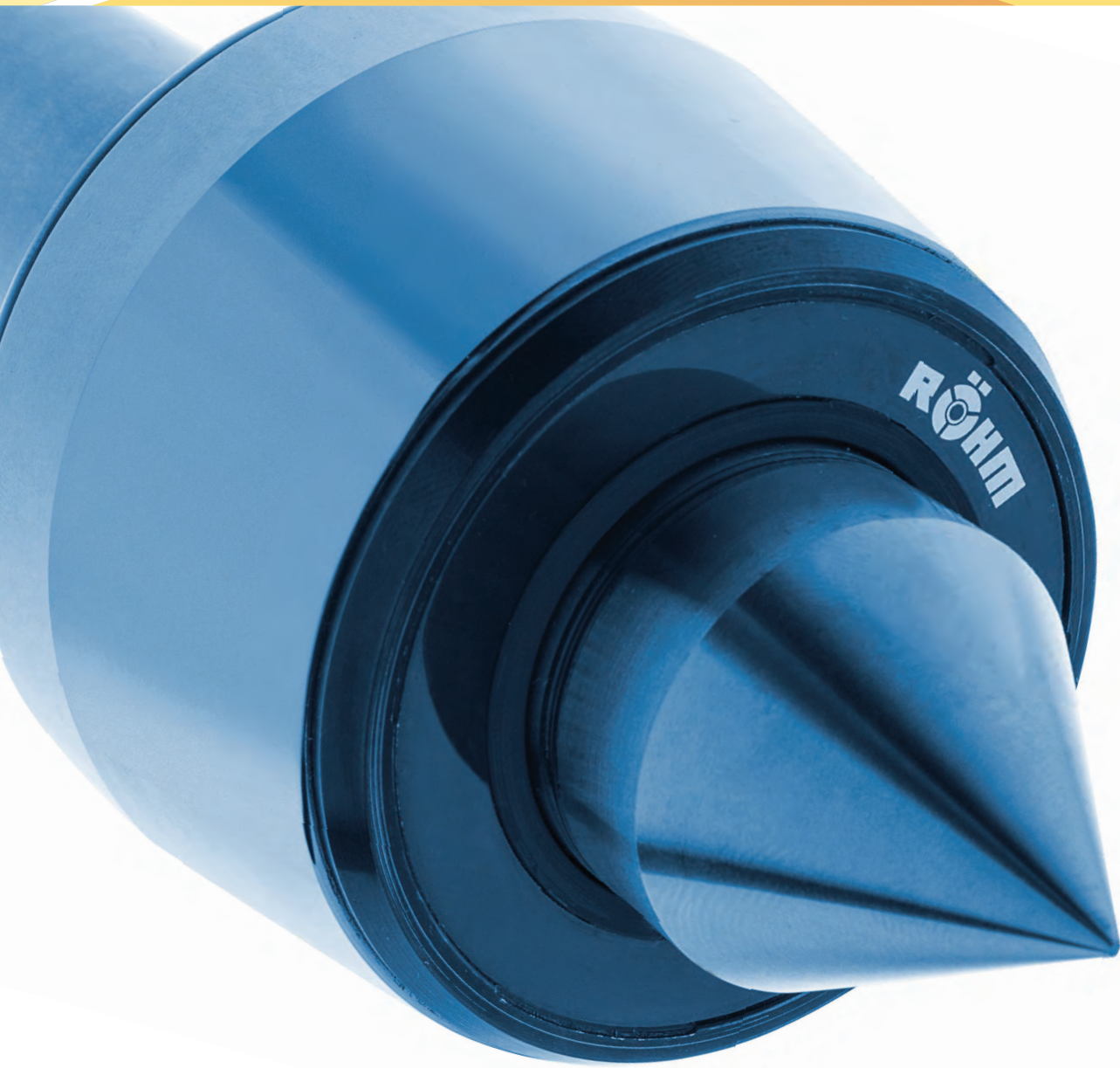


FZS	Solid centres Full point, draw-off nut and SW				Solid centres Full point, draw-off nut, SW and extended point			
Size MT	3	4	5	6	3	4	5	6
Concentricity deviation max. (mm)	0,005				0,005			
Page	2035				2035			

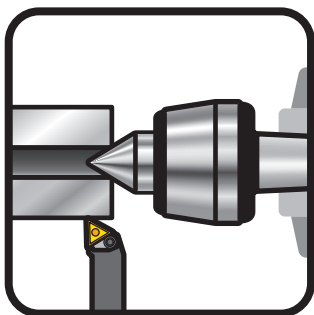


FZS	Solid centres Half point with carbide insert				Solid centres Half point			
Size MT	2	3	4	5	2	3	4	5
Concentricity deviation max. (mm)	0,005				0,01			
Page	2035				2035			

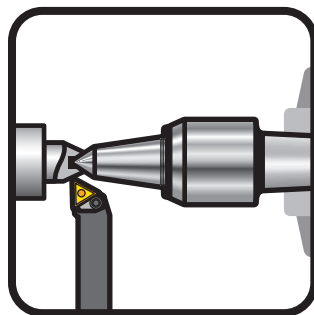
Solid centres in high precision design on request.



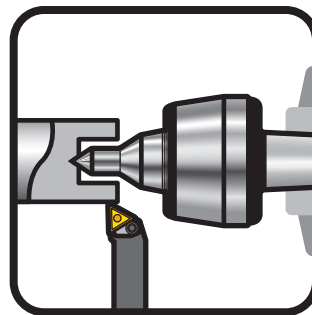
THE RIGHT LIVE CENTRE FOR EVERY APPLICATION



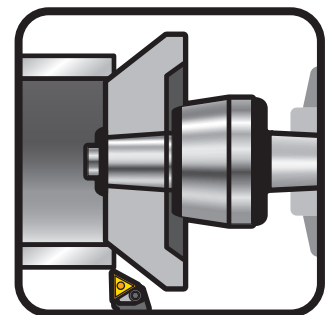
For small and large centres



For cramped work area



For lower-lying centres



For large boreholes



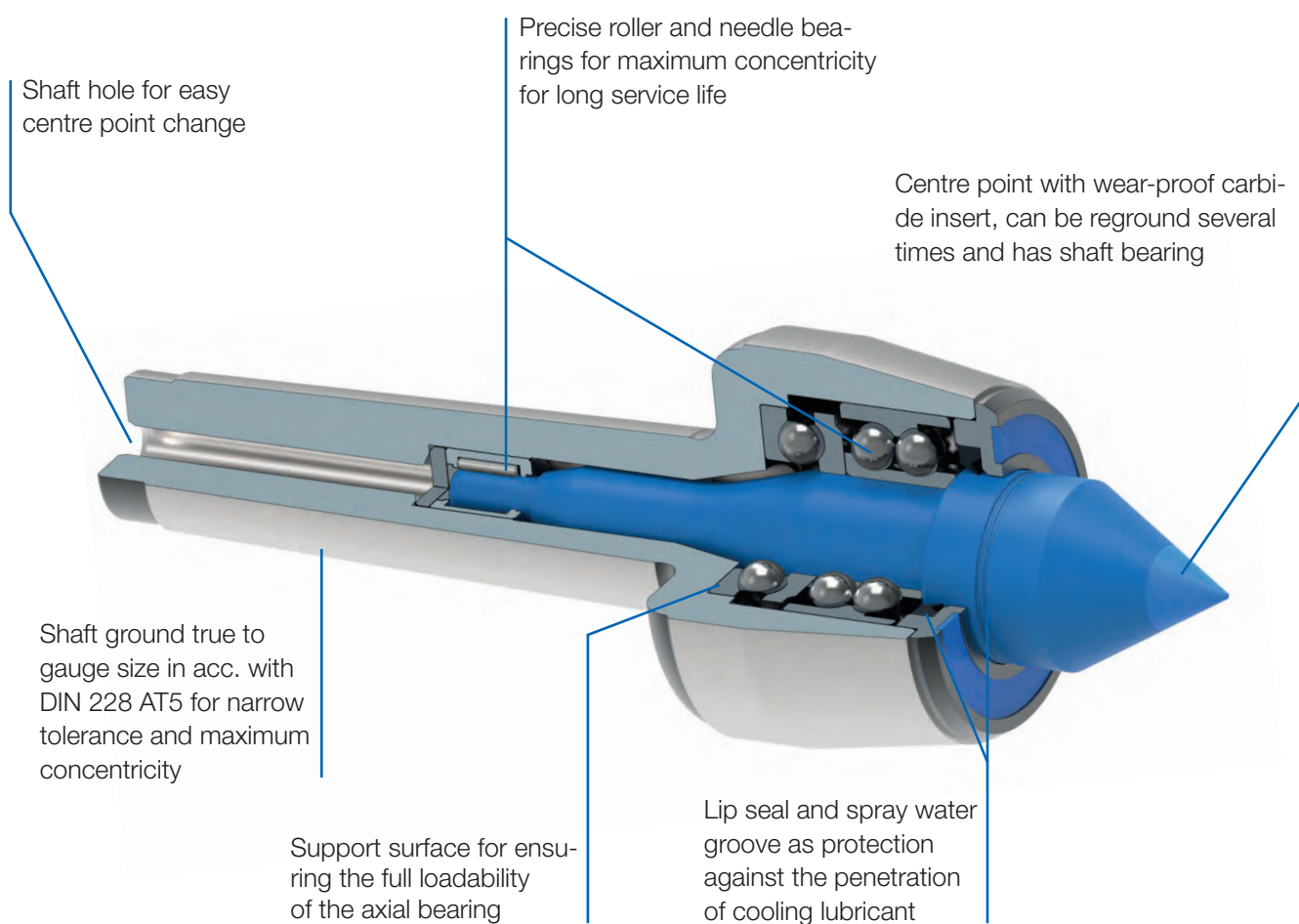
# LIVE CENTRES

The requirement for high cutting capacities and high working precision demands an additional support by a revolving live centre for many workpieces due to their shape and length. Thanks to their precision bearings, RÖHM live centres offer optimal force absorption and a maximum concentricity deviation of up to 0.003 mm. The centre points are maintenance-free thanks to the lifetime lubrication.

Live centres

## ADVANTAGES AT A GLANCE

- ⊕ Maximum concentricity and optimal force absorption thanks to proven precision bearings
- ⊕ Special lubrication for long service life and little required maintenance
- ⊕ Minimum interference contour thanks to slender housing shape



# Control - standard design



## APPLICATION

For counter-clamping workpieces on turning and grinding machines. Optimally suited as counter-centre for face drivers.

## TYPE

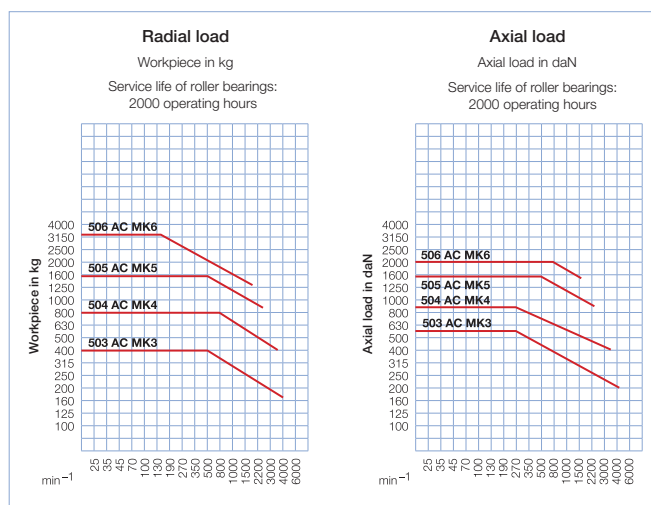
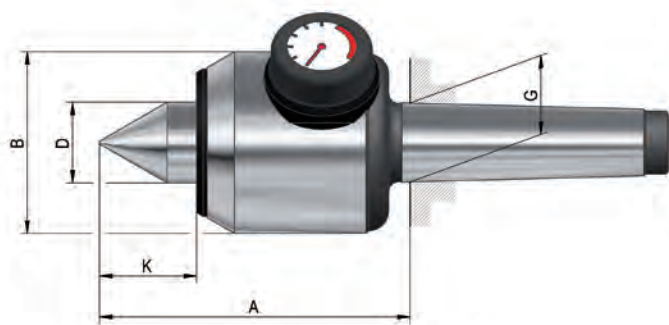
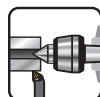
With pressure display and length compensation.

## CUSTOMER BENEFITS

- ⊕ Fast adjustment and check of axial load by means of pressure display
- ⊕ Resilient centre point for safe, deformation-free workpiece clamping
- ⊕ Maximum concentricity deviation of 0.01 mm for maximum precision

## TECHNICAL FEATURES

- Body hardened and ground
- Tip angle 60°



A06  
AC Control with **pressure display** and **length compensation** as counter-centre for face drivers, body hardened and ground - tip angle 60°

Item no.	060798	060874	060906	060915
Mount MT	3	4	5	6
Size	503	504	505	506
A mm	105	123,5	160,5	202
B mm	64	72	95	120
D mm	25	32	40	52
G mm	23,825	31,267	44,399	63,348
K mm	31	38,5	49	59
Weight approx. g	2100	3500	8300	17000
Spring way max. mm <sup>1)</sup>	1,6	2	1,8	2,7
Axial load max. N	5500	9000	15000	20000
Workpiece weight max. kg	400	800	1600	3200
Concentricity deviation max. mm	0,01	0,01	0,01	0,015
Speed max. min <sup>-1</sup>	4000	3500	2500	1800
<b>Spare live centres</b>	<b>009192</b>	<b>009205</b>	<b>009325</b>	<b>009413</b>

<sup>1)</sup> At max. axial load



Live centres

# Control - extended centre point

Live centres



## APPLICATION

For counter-clamping workpieces on turning and grinding machines. Especially suited as counter-centre for face drivers as well as for cramped work area between centre point and workpiece.

## TYPE

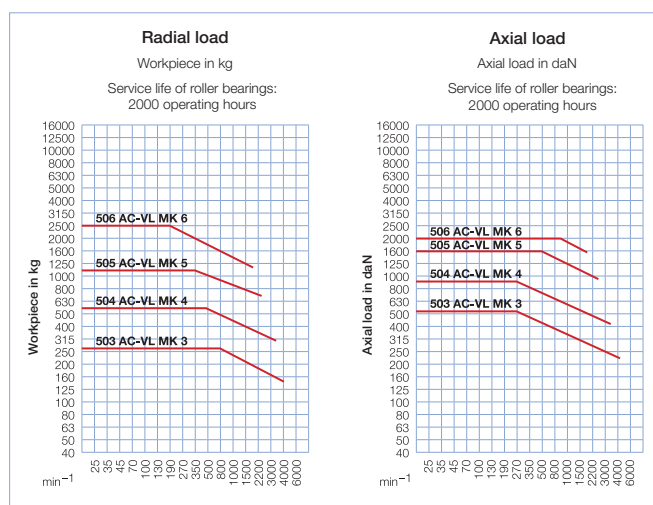
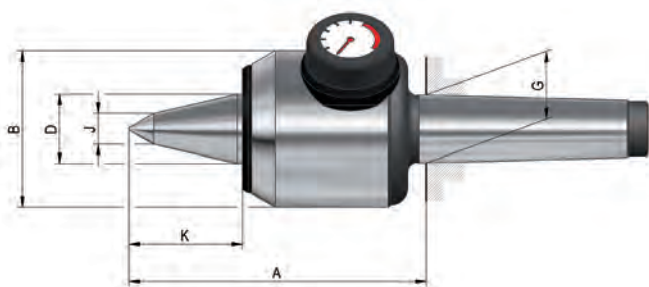
With pressure display, length compensation and extended centre point.

## CUSTOMER BENEFITS

- ⊕ Fast adjustment and check of axial load by means of pressure display
- ⊕ Enlarged work area and better workpiece accessibility thanks to extended centre point
- ⊕ Resilient centre point for safe, deformation-free workpiece clamping
- ⊕ Maximum concentricity deviation of 0.01 mm for maximum precision

## TECHNICAL FEATURES

- Body hardened and ground
- Tip angle 60°



A06  
AC-VL Control with pressure display, length compensation and extended centre point as counter-centre for face drivers, body hardened and ground - tip angle 60°

Item no.	079920	079921	079922	079923
Mount MT	3	4	5	6
Size	503	504	505	506
A mm	120	137,5	177,5	223
B mm	64	72	95	120
D mm	25	32	40	52
G mm	23,825	31,267	44,399	63,348
K mm	45,5	52,5	66	80
J mm	11	14	15	24
Weight approx. g	2200	3600	8400	17500
Spring way max. mm <sup>1)</sup>	1,6	2	1,8	2,7
Axial load max. N	5500	9000	15000	20000
Workpiece weight max. kg	260	550	1100	2500
Concentricity deviation max. mm	0,01	0,01	0,01	0,015
Speed max. min <sup>-1</sup>	4000	3500	2500	1800
Spare live centres	079924	079925	079926	079927

<sup>1)</sup> At max. axial load





Live centres - for interchangeable inserts

# Flex - interchangeable inserts



### APPLICATION

For counter-clamping workpieces on turning and grinding machines.

### TYPE

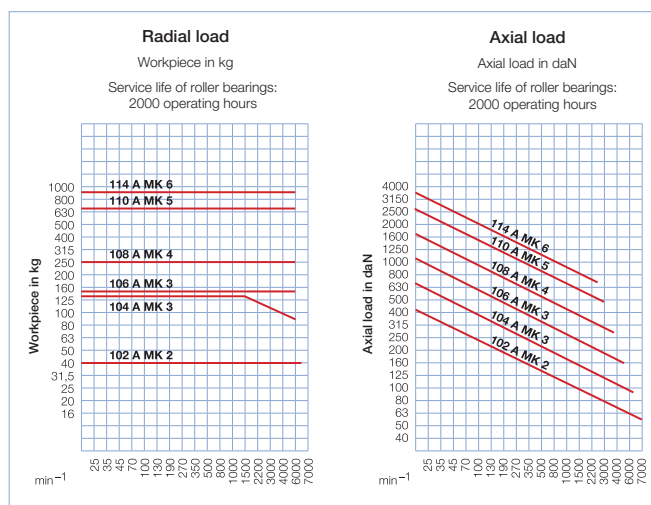
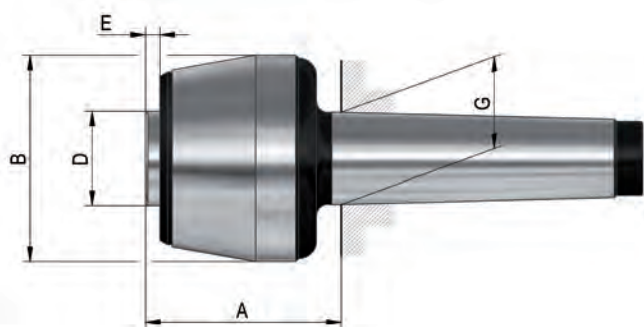
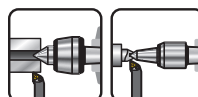
With interchangeable inserts made of wear-resistant tool steel for maximum flexibility.

### CUSTOMER BENEFITS

- ⊕ Wide range of applications thanks to interchangeable inserts
- ⊕ Quick change of interchangeable inserts

### TECHNICAL FEATURES

- Body hardened and ground
- Inserts through-hardened and ground



A06  
A Flex for interchangeable inserts, body hardened and ground

Item no.	061030	061031	061032	061038	061039	061040
Mount MT	2	3	3	4	5	6
Size	102	104	106	108	110	114
A mm	45	48	55	67	85	101
B mm	43	48,5	58,5	68,5	88,5	102,5
D mm	20	22	25	32	40	50
E mm	4	4	5,5	5	6	6
G mm	17,78	23,825	23,825	31,267	44,399	63,348
Concentricity deviation max. mm	0,01	0,01	0,01	0,01	0,01	0,015
Speed max. min <sup>-1</sup>	7000	6300	5000	3800	3000	2600
Workpiece weight max. kg	40	130	150	250	650	900
Weight without inserts	440	750	1100	1900	4400	8600
Weight g	900	1700	2200	3700	8000	-
Spare live spindle	009836	009838	009843	009870	009872	009874

Version with draw-off nut on request  
Concentricity deviation measured at internal cone

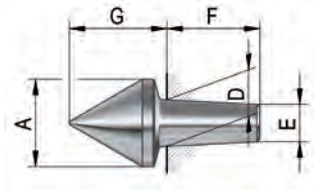


Live centres - for interchangeable inserts

# Interchangeable inserts

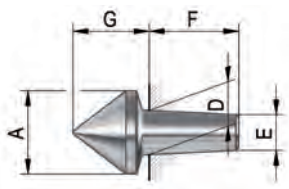
Live centres

A06  
Interchangeable inserts 60°



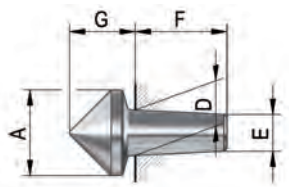
Item no.	Size	A mm	D mm	E mm	F mm	G mm
070725	102	16	7	5,2	18	20
070728	104	20	12	9,6	24	24
070731	106	24	12	9,6	24	27,5
070734	108	28	15	12	30	31,5
070737	110	38	22	18,5	35	43
070740	114	50	28	24	40	54

A06  
Interchangeable inserts 75°



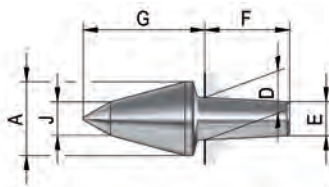
Item no.	Size	A mm	D mm	E mm	F mm	G mm
070726	102	16	7	5,2	18	17
070729	104	20	12	9,6	24	19,5
070732	106	24	12	9,6	24	22,5
070735	108	28	15	12	30	25,5
070738	110	38	22	18,5	35	35
070741	114	50	28	24	40	44

A06  
Interchangeable inserts 90°



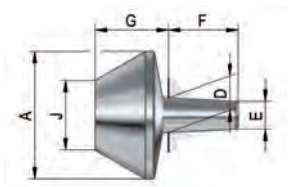
Item no.	Size	A mm	D mm	E mm	F mm	G mm
070727	102	16	7	5,2	18	14,5
070730	104	20	12	9,6	24	16,5
070733	106	24	12	9,6	24	19
070736	108	28	15	12	30	21,5
070739	110	38	22	18,5	35	29
070742	114	50	28	24	40	36

A06  
Interchangeable inserts 60° VL



Item no.	Size	A mm	D mm	E mm	F mm	G mm	J mm
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

A06  
Interchangeable inserts for tubular workpieces 60°



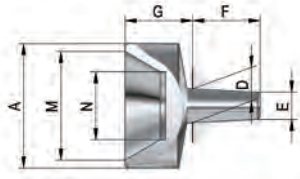
Item no.	Size	A mm	D mm	E mm	F mm	G mm	J mm
070700	102	25	7	5,2	18	21	10
070701	104	35	12	9,6	24	26	15
070702	106	45	12	9,6	24	27	25
070703	108	55	15	12	30	31,5	30
070704	110	70	22	18,5	35	39	40
070705	114	100	28	24	40	52	55



Live centres - for interchangeable inserts

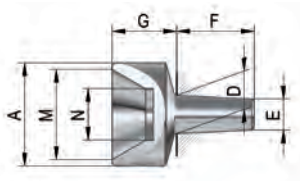
# Interchangeable inserts

A06  
Interchangeable inserts **A** for centerless workpieces 60°



Item no.	Size	A mm	D mm	E mm	F mm	G mm	M mm	N mm
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

A06  
Interchangeable inserts **B** for centerless workpieces 60°



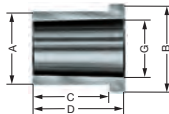
Item no.	Size	A mm	D mm	E mm	F mm	G mm	M mm	N mm
228620	102	16	7	5,2	18	12	12	6
228621	106	22	12	9,6	24	16	18	10
228622	108	40	15	12	30	25	35	20
308632	110	52	22	18,5	35	30	45	30

A06  
Extractor



Item no.	For size
061707	102
061708	104/106/108
061709	110/114

A14  
Mounting sleeve for clamping the live centre in the lathe chuck



Item no.	MT inside	A mm	B mm	C mm	D mm	G mm
085033	3	32	39	32	40	23,825
085034	4	40	47	42	50	31,267
085035	5	55	62	52	60	44,399
085036	6	75	83	62	70	63,448

Live centres



Live centres - for interchangeable inserts

## Flex - interchangeable inserts

Live centres



### APPLICATION

For counter-clamping workpieces on turning and grinding machines. Especially for individual production of various workpieces through different inserts.

### TYPE

With interchangeable inserts made of wear-resistant tool steel for maximum flexibility. Assortment with different inserts.

### CUSTOMER BENEFITS

- ③ Wide range of applications thanks to interchangeable inserts
- ③ Quick change of interchangeable inserts

### TECHNICAL FEATURES

- Body hardened and ground
- Inserts through-hardened and ground

### Delivery includes:

- 1 basic body for interchangeable inserts
- 1 extractor for disassembly
- 1 insert 60°, 75°, 90°, 60°VL
- Insert for tubular workpieces 60°
- 2 inserts for centerless workpieces 60°
- Inclusive wooden case

A06

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 g	900	1700	2200	3700	8000

Version with draw-off nut on request

# Heavy - extended centre point



### APPLICATION

For counter-clamping especially heavy workpieces on turning and grinding machines. Especially suitable for use on NC-machines.

### TYPE

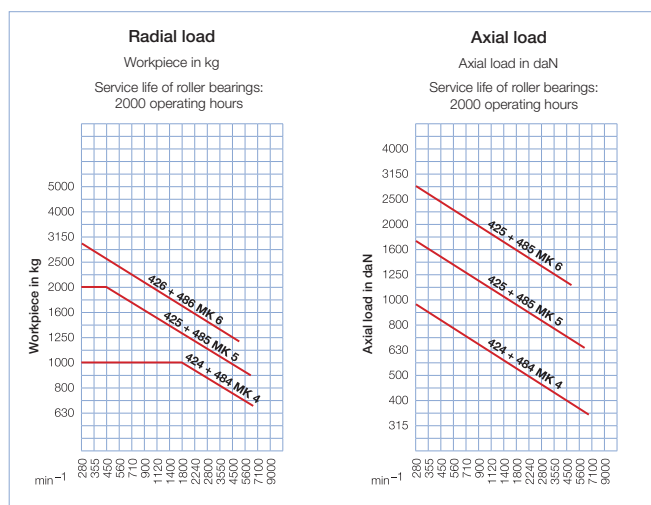
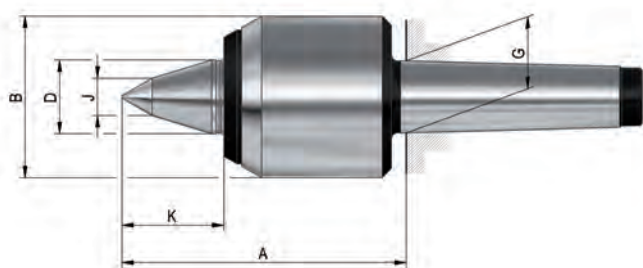
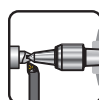
Universal version with extended centre point for heavy workpieces.

### CUSTOMER BENEFITS

- ⊕ Robust 4-fold precision bearing for high speeds as well as high axial and radial loads
- ⊕ Reliable and safe clamping of heavy workpieces
- ⊕ Maximum concentricity deviation of 0.005 mm for maximum precision

### TECHNICAL FEATURES

- Body hardened and ground
- Tip angle 60°



A06  
Heavy especially for high load at high speeds, body hardened and ground - tip angle 60°

Item no.	303598	303599	301696
Mount MT	4	5	6
Size	424	425	426
A mm	122	150	180
B mm	70	95	120
D mm	32	42	58
G mm	31,267	44,399	63,348
J mm	16	20	26
K mm	44,5	59,5	76
Weight approx. g	2600	5500	11500
Workpiece weight max. kg	1000	2000	3000
Concentricity deviation max. mm	0,005	0,005	0,005
Speed max. min <sup>-1</sup>	7000	6000	4800
Spare live centres	1241762	1241763	1241764



Live centres

# Heavy - extended centre point

Live centres



### APPLICATION

For counter-clamping especially heavy workpieces on turning and grinding machines. Especially suitable for use on NC-machines.

### TYPE

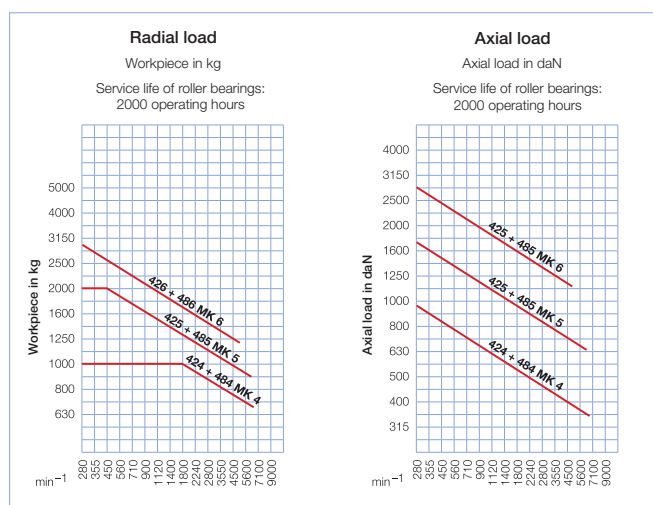
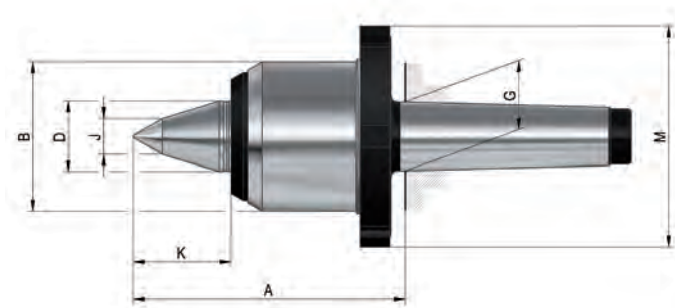
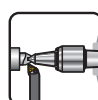
Universal version with extended centre point for heavy workpieces. With draw-off nut.

### CUSTOMER BENEFITS

- ☞ Robust 4-fold precision bearing for high speeds as well as high axial and radial loads
- ☞ Reliable and safe clamping of heavy workpieces
- ☞ Maximum concentricity deviation of 0.005 mm for maximum precision

### TECHNICAL FEATURES

- Body hardened and ground
- Tip angle 60°



A06  
Heavy with **draw-off nut**, especially for **high load at high speeds**, body hardened and ground - tip angle 60°

Item no.	304521	304522	304523
Mount MT	4	5	6
Size	484	485	486
A mm	122	150	180
B mm	70	95	120
D mm	32	42	58
G mm	31,267	44,399	63,348
J mm	16	20	26
K mm	44,5	59,5	76
M mm	100	125	155
Weight approx. g	2800	5400	12300
Workpiece weight max. kg	1000	2000	3000
Concentricity deviation max. mm	0,005	0,005	0,005
Speed max. min <sup>-1</sup>	7000	6000	4800
Spare live centres	1241762	1241763	1241764

# Speed - extended centre point



## APPLICATION

For counter-clamping workpieces on turning and grinding machines. Especially suitable for complex machining at high speeds.

## TYPE

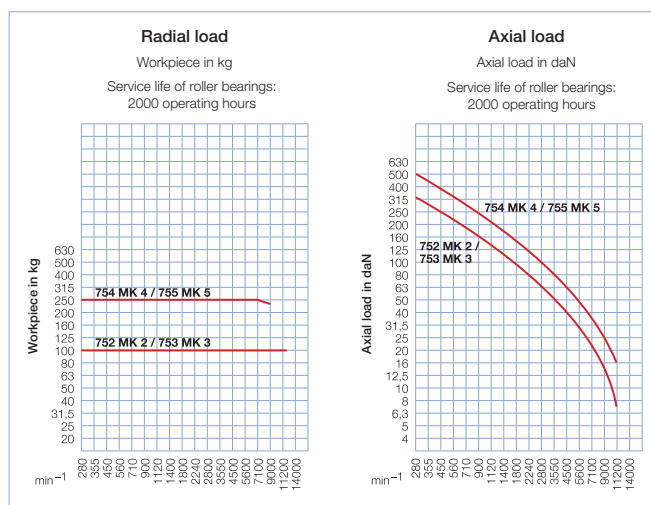
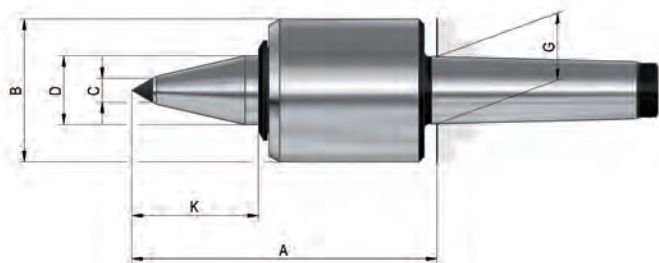
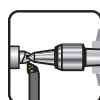
Special design for very high speeds with extended centre point and wear-resistant carbide insert.

## CUSTOMER BENEFITS

- ③ Maximum rigidity for high speeds up to 12000 rpm thanks to compact design
- ③ Enlarged work area and better workpiece accessibility thanks to extended centre point
- ③ Maximum concentricity deviation of 0.01 mm for maximum precision

## TECHNICAL FEATURES

- Body hardened and ground
- Tip angle 60°



A06

Speed extended NC-centre point with carbide insert, for high speed, body hardened and ground - tip angle 60°

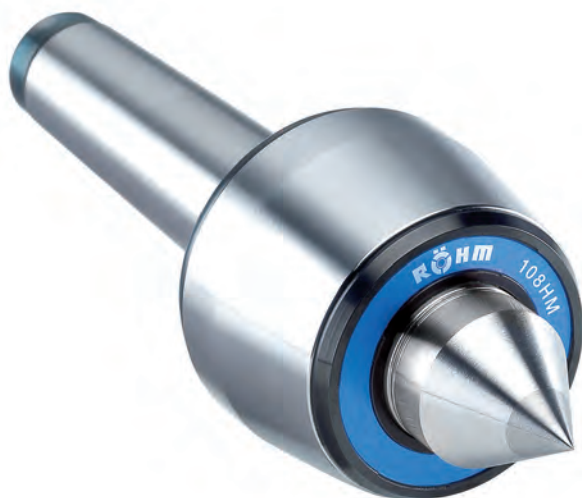
Item no.	772389	772390	772391	772392
Mount MT	2	3	4	5
Size	752	753	754	755
A mm	99	99	141	141
B mm	45	45	66	66
C mm	7	7	11	11
D mm	20	20	32	32
G mm	17,78	23,825	31,267	44,399
K mm	40	40	63	63
Weight approx. g	1200	1600	2600	5000
Workpiece weight max. kg	100	100	250	250
Concentricity deviation max. mm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



Live centres

# Pro - carbide insert

Live centres



## APPLICATION

For counter-clamping workpieces on turning and grinding machines.

## TYPE

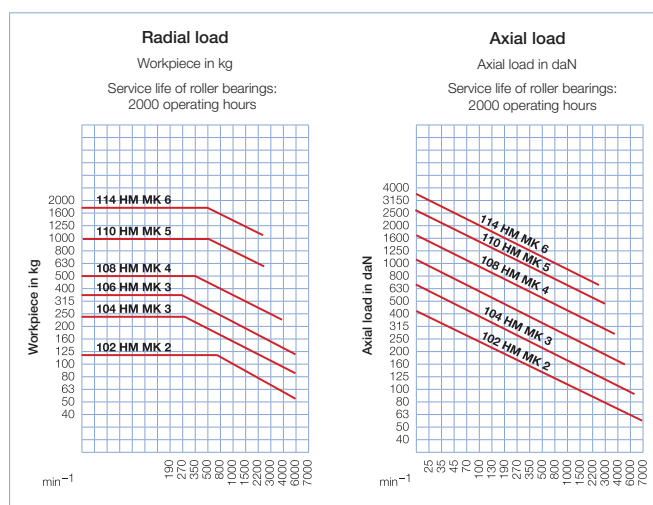
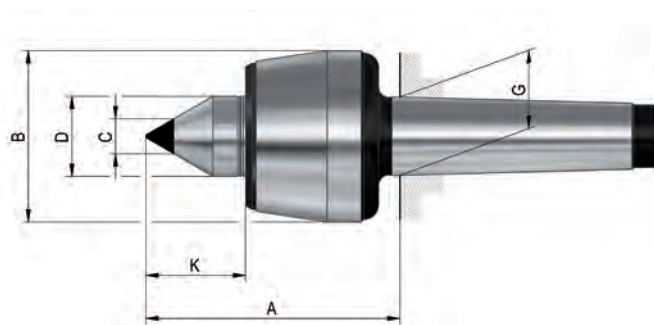
Centre point with wear-proof carbide insert.

## CUSTOMER BENEFITS

- ⊕ Maximum service life and wear resistance thanks to carbide insert
- ⊕ High concentricity and stability thanks to 3-fold bearing
- ⊕ Maximum concentricity deviation of 0.005 mm for maximum precision

## TECHNICAL FEATURES

- Body hardened and ground
- Tip angle 60°

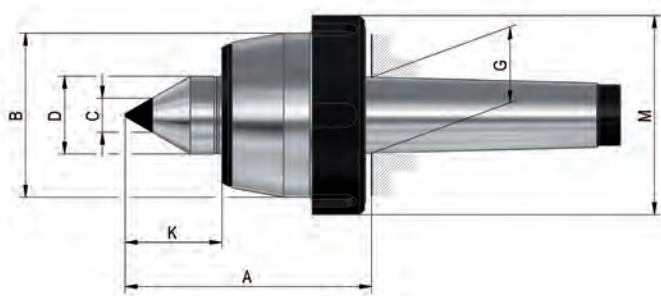


A06  
HM Pro with carbide insert, body hardened and ground - tip angle 60°

Item no.	032140	090089	237413	093306	221016	221017
Mount MT	2	3	3	4	5	6
Size	102	104	106	108	110	114
A mm	65	70,5	79,5	102,5	129	152
B mm	43	48,5	58,5	68,5	88,5	102,5
C mm	11	11	14	14	18	18
D mm	20	22	25	32	40	50
G mm	17,78	23,825	23,825	31,267	44,399	63,348
K mm	24	27	30,5	40	49,5	57
Weight approx. g	600	900	1300	2300	4700	10000
Workpiece weight max. kg	120	240	360	500	1000	1800
Concentricity deviation max. mm	0,005	0,005	0,005	0,005	0,005	0,01
Speed max. min <sup>-1</sup>	7000	6300	5000	3800	3000	2600
Spare live centres	1241742	1241743	1241744	1241745	1241746	1241747



# Pro - carbide insert



## APPLICATION

For counter-clamping workpieces on turning and grinding machines.

## TYPE

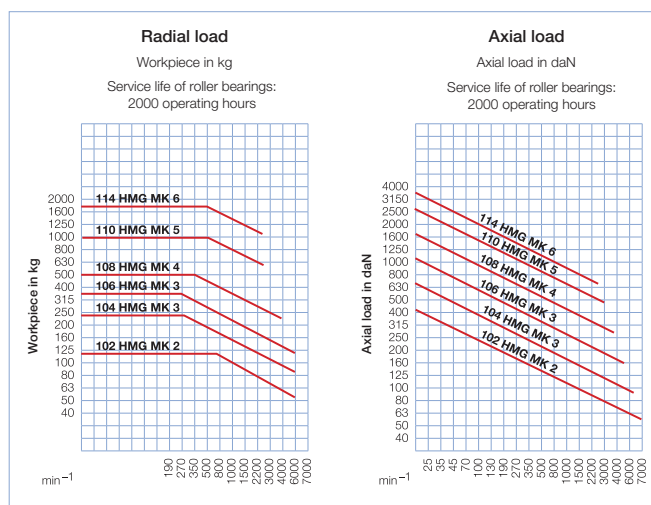
Centre point with wear-proof carbide insert.  
With draw-off nut.

## CUSTOMER BENEFITS

- ⊕ Maximum service life and wear resistance thanks to carbide insert
- ⊕ High concentricity and stability thanks to 3-fold bearing
- ⊕ Maximum concentricity deviation of 0.005 mm for maximum precision

## TECHNICAL FEATURES

- Body hardened and ground
- Tip angle 60°

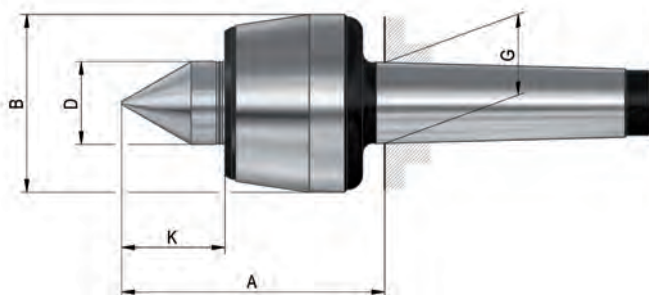


A06  
HMG Pro with **draw-off nut** and **carbide insert**, body hardened and ground - tip angle 60°

Item no.	221021	221022	221023	221024	221025	221026
Mount MT	2	3	3	4	5	6
Size	102	104	106	108	110	114
A mm	65	70,5	79,5	102,5	129	152
B mm	45	50	60	70	90	105
C mm	11	11	14	14	18	18
D mm	20	22	25	32	40	50
G mm	17,78	23,825	23,825	31,265	44,399	63,348
K mm	24	27	30,5	40	49,5	57
M mm	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 max. mm	0,005	0,005	0,005	0,005	0,005	0,01
Speed max. min <sup>-1</sup>	7000	6300	5000	3800	3000	2600
Spare live centres	1241742	1241743	1241744	1241745	1241746	1241747

# Pro - standard design

Live centres



## APPLICATION

For counter-clamping workpieces on turning and grinding machines.

## TYPE

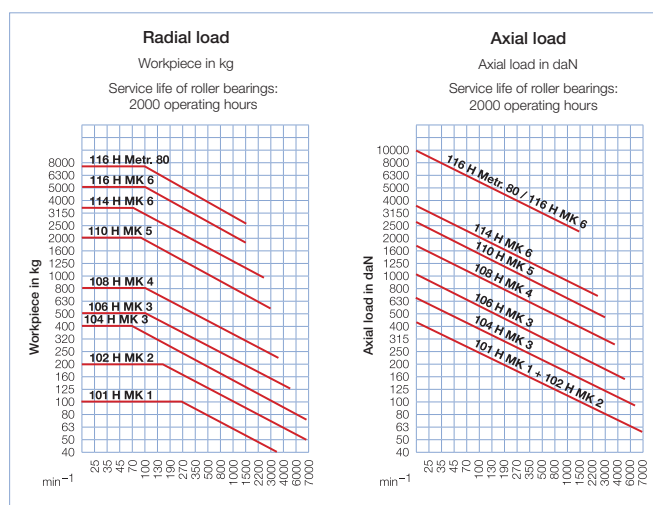
All-round live centre in classical design for nearly any standard clamping situation.

## CUSTOMER BENEFITS

- ③ Proven 3-fold bearing for high axial and radial load
- ③ Lifetime lubrication for minimum required maintenance
- ③ Maximum concentricity deviation of 0.005 mm for maximum precision

## TECHNICAL FEATURES

- Body hardened and ground (MT 1 - Metr. 80)
- Tip angle 60°



A06  
H Pro, body hardened and ground - tip angle 60°

Item no.	043400	043115	042315	042776	042175	042843	043532	093439	093440
Mount MT	1	2	3	3	4	5	6	6	Metr. 80
Size	101	102	104	106	108	110	114	116	116
A mm	60,5	65	70,5	79,5	102,5	129	152	196	196
B mm	34,5	43	48,5	58,5	68,5	88,5	102,5	138,5	138,5
D mm	15	20	22	25	32	40	50	60	60
G mm	12,065	17,78	23,825	23,825	31,267	44,399	63,348	63,348	80
K mm	17	24	27	30,5	40	49,5	57	66	66
Weight approx. g	400	500	800	1300	2300	4700	10200	17800	23000
Workpiece weight max. kg	100	200	400	500	800	2000	3500	5000	7500
Concentricity deviation max. mm	0,005	0,005	0,005	0,005	0,005	0,005	0,008	0,01	0,015
Speed max. min <sup>-1</sup>	7000	7000	6300	5000	3800	3000	2600	1500	1500
Spare live centres	1241726	1241725	1241724	1241723	1241722	1241721	1241728	1241729	1241730

<sup>1)</sup> Body only ground not hardened

# Pro - standard design



## APPLICATION

For counter-clamping workpieces on turning and grinding machines.

## TYPE

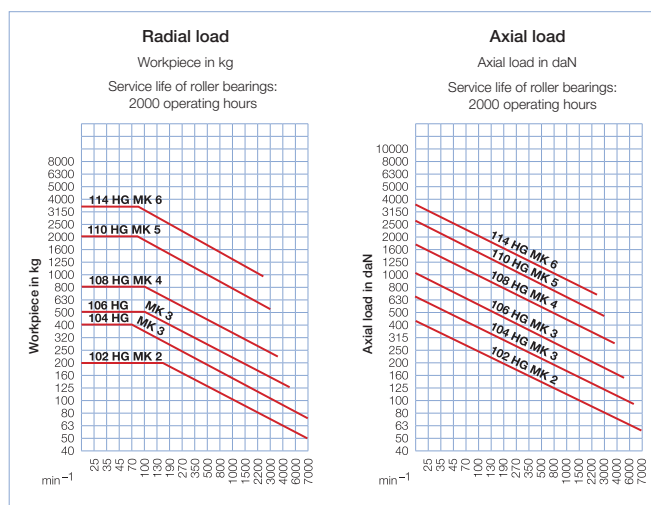
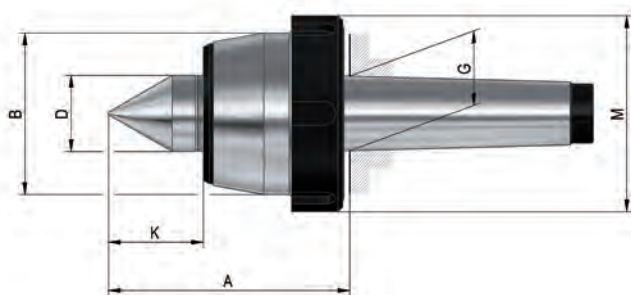
All-round live centre in classical design for nearly any standard clamping situation. With draw-off nut.

## CUSTOMER BENEFITS

- ⊕ Proven 3-fold bearing for high axial and radial load
- ⊕ Lifetime lubrication for minimum required maintenance
- ⊕ Maximum concentricity deviation of 0,005 mm for maximum precision

## TECHNICAL FEATURES

- Body hardened and ground (MT 2 - 6)
- Tip angle 60°



A06  
HG Pro with **draw-off nut**, body hardened and ground - tip angle 60°

Item no.	221018	221019	205036	207148	074390	221020
Mount MT	2	3	3	4	5	6
Size	102	104	106	108	110	114
A mm	65	70,5	79,5	102,5	129	152
B mm	45	50	60	70	90	105
D mm	20	22	25	32	40	50
G mm	17,78	23,825	23,825	31,267	44,399	63,348
K mm	24	27	30,5	40	49,5	57
M mm	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 max. mm	0,005	0,005	0,005	0,005	0,005	0,008
Speed max. min <sup>-1</sup>	7000	6300	5000	3800	3000	2600
<b>Spare live centres</b>	<b>1241725</b>	<b>1241724</b>	<b>1241723</b>	<b>1241722</b>	<b>1241721</b>	<b>1241728</b>

Version with extended centre point on request



Live centres

# Pro - cylindrical shank

Live centres



## APPLICATION

For counter-clamping of workpieces on turning and grinding machines using lathe chucks, collet chucks and tool take-ups. Take-up for tool magazine / turret.

## TYPE

All-round live centre with cylinder shaft.

## CUSTOMER BENEFITS

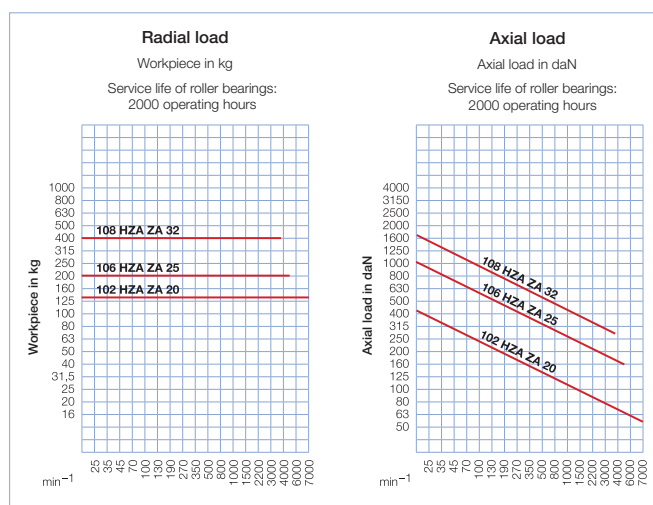
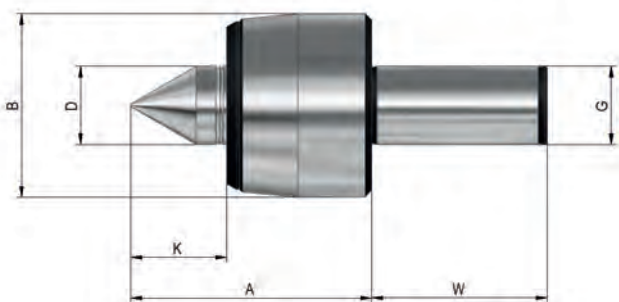
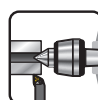
- ⊕ Proven 3-fold bearing for high axial and radial load
- ⊕ Lifetime lubrication for minimum required maintenance
- ⊕ Maximum concentricity deviation of 0.005 mm for maximum precision

## TECHNICAL FEATURES

- Body hardened and ground
- Tip angle 60°

## Note:

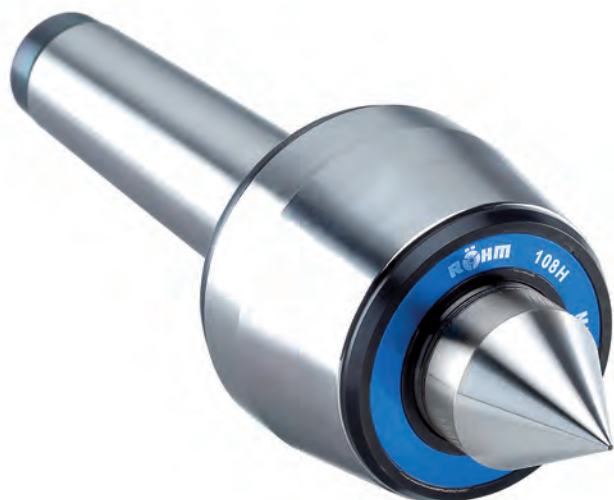
Live centres with cylindrical shank and with clamping surface on request



A06  
HZA Pro with cylindrical shank, body hardened and ground - tip angle 60°

Item no.	1316054	1316055	1316056
Mount MT	ZA20	ZA25	ZA32
Size	102	106	108
A mm	58	76,8	93,1
B mm	43	48,5	68,5
D mm	20	25	32
G mm	20 h6	25 h6	32 h6
K mm	24	30,5	40
W mm	50	56	60
Weight approx. g	414	891	1474
Workpiece weight max. kg	130	200	400
Concentricity deviation max. mm	0,005	0,005	0,005
Speed max. min <sup>-1</sup>	7000	5000	3800
Spare live centres	1241725	1241723	1241722

# Pro - high precision design



## APPLICATION

For counter-clamping workpieces on turning and grinding machines for highest demands.

## TYPE

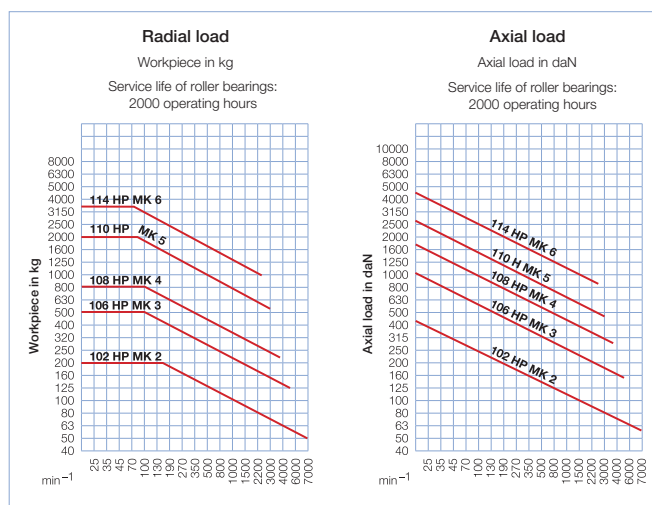
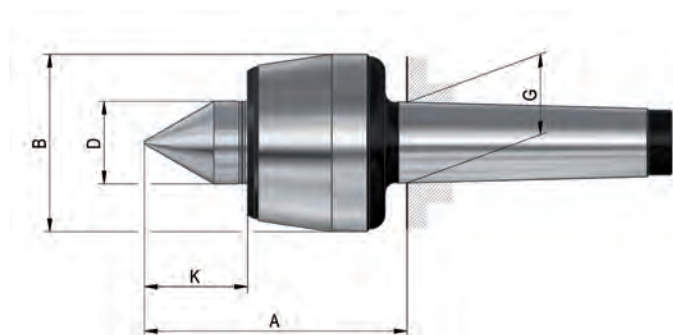
High precision design.

## CUSTOMER BENEFITS

- ⊕ Maximum concentricity deviation of **0.003 mm** for maximum precision
- ⊕ Lifetime lubrication for minimum required maintenance
- ⊕ Proven 3-fold bearing for high axial and radial load

## TECHNICAL FEATURES

- Body hardened and ground
- Tip angle 60°



A06  
HP Pro **precision version**, body hardened and ground - tip angle 60°

Item no.	082392	318227	082394	082395	1263871
Mount MT	2	3	4	5	6
Size	102	106	108	110	114
A mm	65	82	102,5	129	151,6
B mm	43	55	68,5	88,5	102,5
D mm	20	25	32	40	50
G mm	17,78	23,825	31,267	44,399	63,348
K mm	24	30,5	40	49,5	56,9
Weight approx. g	500	1300	2300	4700	8761
Workpiece weight max. kg	200	500	800	2000	3500
Concentricity deviation max. mm	0,003	0,003	0,003	0,003	0,003
Speed max. min <sup>-1</sup>	7000	5000	3800	3000	2600
Spare live centres	1241725	1243613	1241722	1241721	1241728

# Pro - extended centre point

Live centres



## APPLICATION

For counter-clamping workpieces on turning and grinding machines. Especially suited for cramped work area between centre point and workpiece.

## TYPE

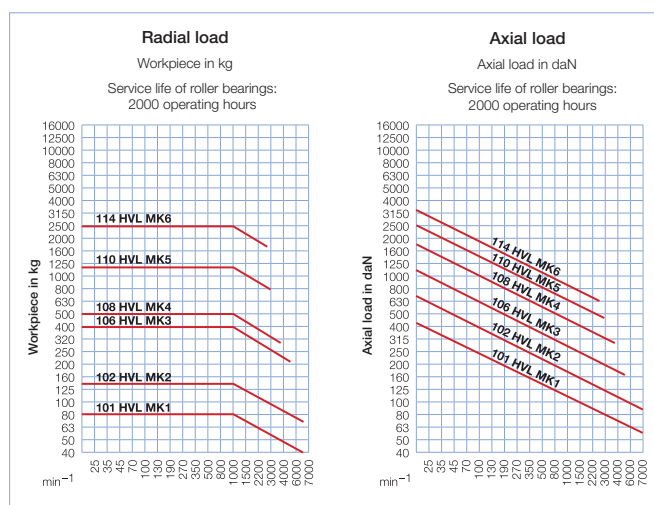
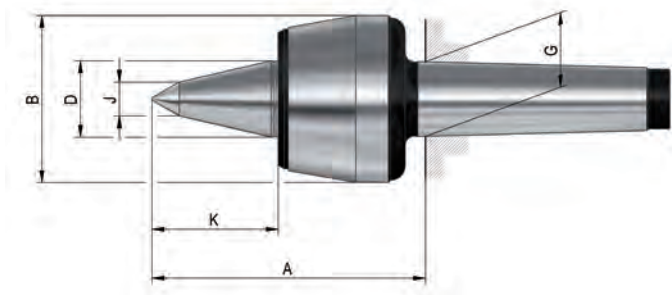
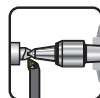
All-round live centre with extended centre point.

## CUSTOMER BENEFITS

- ③ Enlarged work area and better workpiece accessibility thanks to extended centre point
- ③ High concentricity and stability thanks to 3-fold bearing
- ③ Maximum concentricity deviation of 0.005 mm for maximum precision

## TECHNICAL FEATURES

- Body hardened and ground
- Tip angle 60°



A06  
HVL Pro with **extended centre point**, body hardened and ground - tip angle 60°

Item no.	058668	058669	058670	058671	058672	058673
Mount MT	1	2	3	4	5	6
Size	101	102	106	108	110	114
A mm	70,5	75	95,5	114,5	143,5	172,5
B mm	34,5	43	58,5	68,5	88,5	102,5
D mm	15	20	25	32	40	50
G mm	12,065	17,78	23,825	31,267	44,399	63,348
K mm	27	34	47	53	64	78
J mm	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 max. mm	0,01	0,005	0,005	0,005	0,005	0,01
Speed max. min <sup>-1</sup>	7000	7000	5000	3800	3000	2600
<b>Spare live centres</b>	<b>1241731</b>	<b>1241732</b>	<b>1241733</b>	<b>1241734</b>	<b>1241735</b>	<b>1241736</b>

Version with draw-off nut on request

# Pro - profiled, extended centre point



## APPLICATION

For counter-clamping workpieces on turning and grinding machines. Especially suited for cramped work area between centre point and workpiece as well as low-lying workpiece centres.

## TYPE

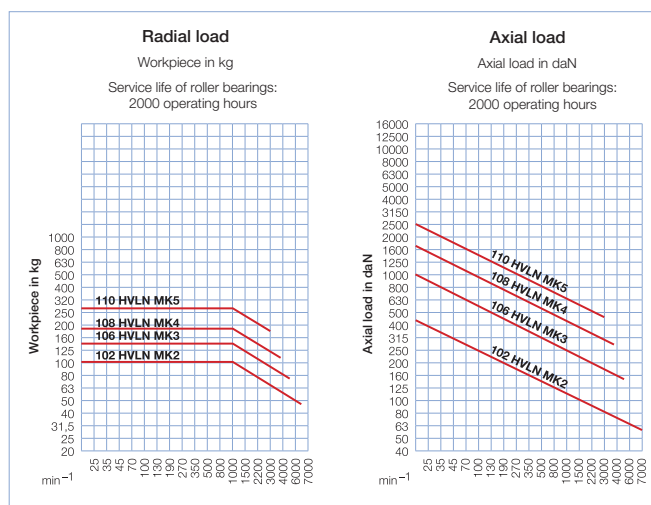
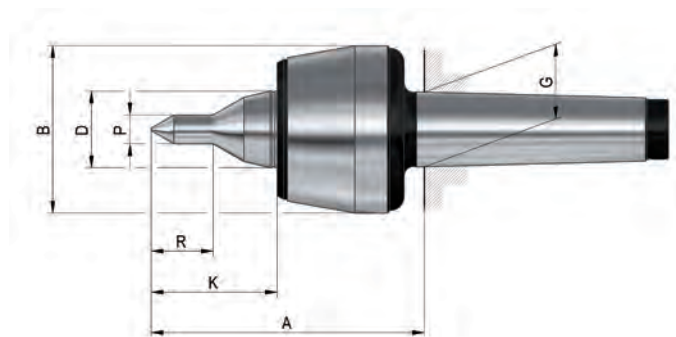
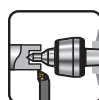
All-round live centre with profiled and extended centre point.

## CUSTOMER BENEFITS

- ⊕ Enlarged work area and better workpiece accessibility thanks to profiled and extended centre point
- ⊕ High concentricity and stability thanks to 3-fold bearing
- ⊕ Maximum concentricity deviation of 0.005 mm for maximum precision

## TECHNICAL FEATURES

- Body hardened and ground
- Tip angle 60°



A06  
HVLN Pro with **profiled, extended centre point**, body hardened and ground - tip angle 60°

Item no.	1241689	1241691	1241693	1241694
Mount MT	2	3	4	5
Size	102	106	108	110
A mm	75	95,5	114,5	143,5
B mm	43	58,5	68,5	88,5
D mm	20	25	32	40
G mm	17,78	23,825	31,267	44,399
K mm	34	47	53	64
P mm	8	10	12	14
R mm	16	20	26	30
Workpiece weight max. kg	100	150	180	280
Concentricity deviation max. mm	0,005	0,005	0,005	0,005
Speed max. min <sup>-1</sup>	7000	5000	3800	3000
Weight approx. g	320	460	1000	2600
<b>Spare live centres</b>	<b>1243677</b>	<b>1243678</b>	<b>1243679</b>	<b>1243680</b>

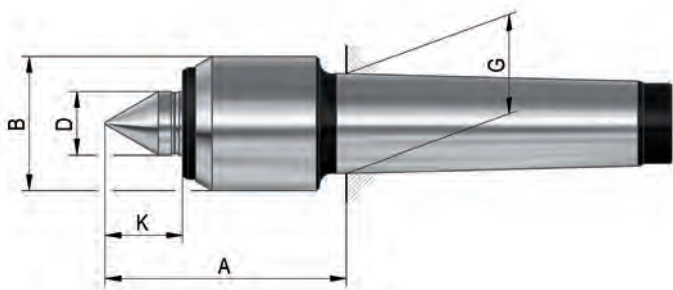
Version with draw-off nut on request



Live centres

# Slim - standard design

Live centres



### APPLICATION

For counter-clamping workpieces on turning and grinding machines. Especially suited for cramped work area between centre point and workpiece.

### TYPE

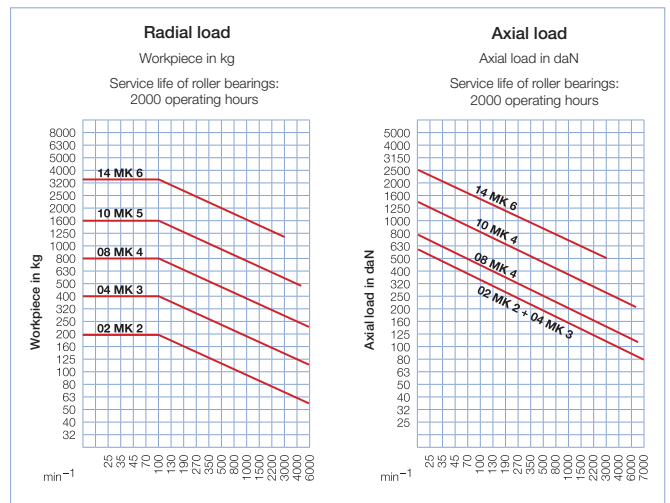
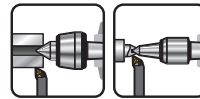
Compact design with minimum casing diameter.

### CUSTOMER BENEFITS

- ③ Enlarged work area and better workpiece accessibility thanks to narrow casing diameter
- ③ Maximum rigidity at high speeds thanks to compact design
- ③ Maximum concentricity deviation of 0.005 mm for maximum precision

### TECHNICAL FEATURES

- Body hardened and ground
- Tip angle 60°



A06  
Slim with **small casing diameter**, body hardened and ground - tip angle 60°

Item no.	005336	005429	005469	005490	005547
Mount MT	2	3	4	5	6
Size	02	04	08	10	14
A mm	62	62	75,5	106	143
B mm	32	34	42	58	80
D mm	15	15	20	30	42
G mm	17,78	23,825	31,267	44,399	63,348
K mm	19,5	19,5	24,5	37	49,5
Weight approx. g	300	400	1000	2600	7100
Workpiece weight max. kg	200	400	800	1600	3500
Concentricity deviation max. mm	0,005	0,005	0,005	0,01	0,02
Speed max. min <sup>-1</sup>	7000	7000	6300	4300	3000
Spare live centres	1241748	1241749	1241750	1241751	1241752



# Slim - extended centre point



## APPLICATION

For counter-clamping workpieces on turning and grinding machines. Especially suited for cramped work area between centre point and workpiece as well as low-lying workpiece centres.

## TYPE

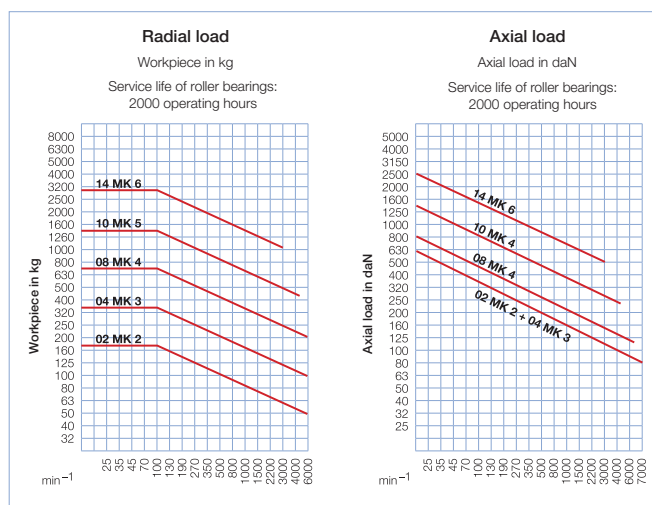
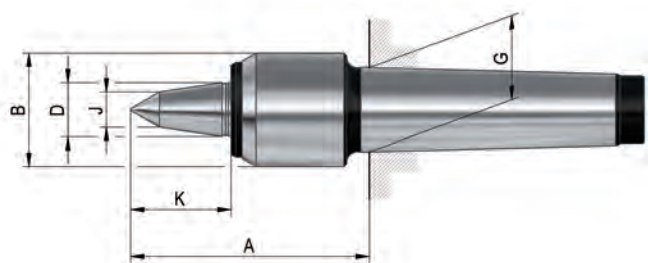
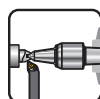
Compact design with minimum casing diameter. With extended centre point.

## CUSTOMER BENEFITS

- ④ Enlarged work area and better workpiece accessibility thanks to narrow casing diameter and extended centre point
- ④ Maximum rigidity at high speeds thanks to compact design
- ④ Maximum concentricity deviation of 0.008 mm for maximum precision

## TECHNICAL FEATURES

- Body hardened and ground
- Tip angle 60°



A06

Slim with **small casing diameter** and **extended centre point**, body hardened and ground - tip angle 60°

Item no.	362080	362081	362082	362083	362084
Mount MT	2	3	4	5	6
Size	02	04	08	10	14
A mm	73	74	88,5	119	164
B mm	32	34	42	58	80
D mm	15	15	20	30	42
G mm	17,78	23,825	31,267	44,399	63,348
K mm	29,5	32	37,5	51,5	70,5
J mm	10	11	13	14	18
Weight approx. g	320	460	1000	2600	7100
Workpiece weight max. kg	170	340	700	1400	3000
Concentricity deviation max. mm	0,008	0,008	0,008	0,01	0,02
Speed max. min <sup>-1</sup>	7000	7000	6300	4300	3000
Spare live centres	1241753	1241754	1241755	1241756	1241757



Live centres

# Slim - profiled, extended centre point

Live centres



## APPLICATION

For counter-clamping workpieces on turning and grinding machines. Especially suited for cramped work area between centre point and workpiece.

## TYPE

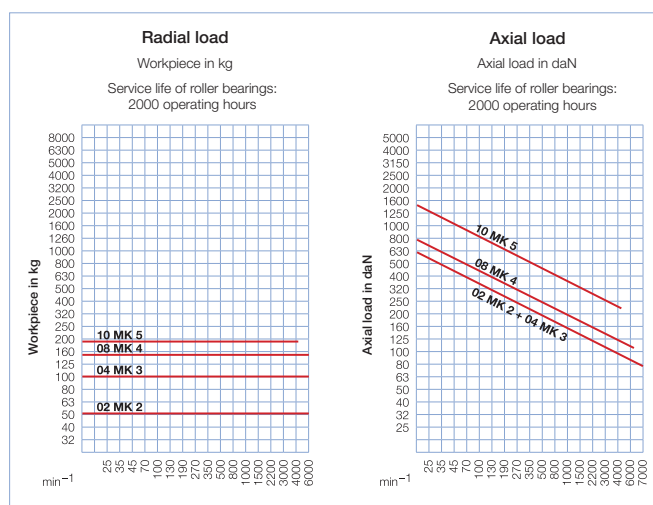
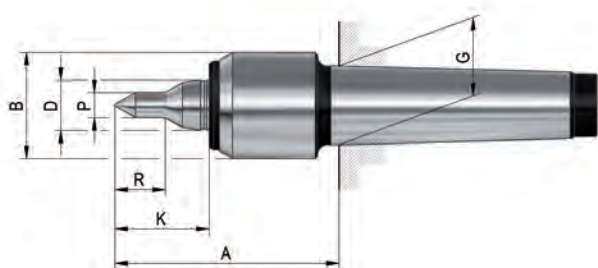
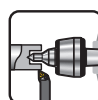
Compact design with minimum casing diameter. With extended and profiled centre point.

## CUSTOMER BENEFITS

- ⊕ Enlarged work area and better workpiece accessibility thanks to narrow casing diameter and extended and profiled centre point
- ⊕ Maximum rigidity at high speeds thanks to compact design
- ⊕ Maximum concentricity deviation of 0.008 mm for maximum precision

## TECHNICAL FEATURES

- Body hardened and ground
- Tip angle 60°



A06 Slim with small casing diameter and profiled and extended centre point, body hardened and ground - tip angle 60°

Item no.	1241695	1243505	1243507	1243509
Mount MT	2	3	4	5
Size	02	04	08	10
A mm	73	74	88,5	119
B mm	32	34	42	58
D mm	15	15	20	30
G mm	17,78	23,825	31,267	44,399
K mm	29,5	32	37,5	51,5
P mm	6	8	10	12
R mm	12	16	20	26
Workpiece weight max. kg	50	100	150	180
Concentricity deviation max. mm	0,008	0,008	0,008	0,01
Speed max. min <sup>-1</sup>	7000	7000	6300	4300
Weight approx. g	320	460	1000	2600
Spare live centres	1241758	1241759	1241760	1241761