



NEW SILVER LINE BULLET FROM

Made in Czech Republic



**SKODA – YOUR
BULLET TO HIT
THE TARGET**



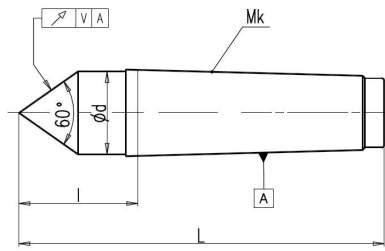
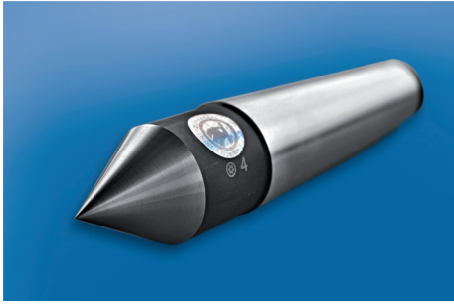
PROFESSIONAL SUPPORT FOR YOUR PRODUCTION

- NEW SILVER DESIGN OF SKODA LIVE CENTRES
- IMPROVED BEARINGS AND SEALING
- FOR MAXIMUM PERFORMANCE
- UNIQUE HOLOGRAM ON THE BODY PREVENTS CHEAP COPIES
- ECOLOGICAL PACKING

FULL RANGE AVAILABLE FROM STOCK

ORDER TODAY
TRY TOMORROW
RE-ORDER ANY TIME

DEAD CENTERS



Mk	$\varnothing d$	L	l	b	m	V
1	11	80	26.5	125	0.06	0.003
2	17	100	36	325	0.16	
3	23	125	44	650	0.40	
4	30	160	57.5	1000	0.80	
5	42	200	70.5	2500	1.80	
6	60	280	98	5000	5.45	

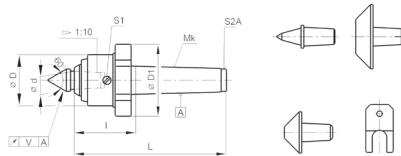
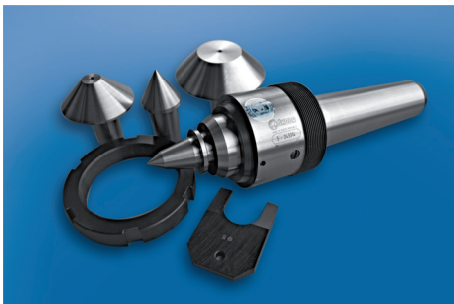
Dead center size Mk 0-5 is completely hardened to hardness Hrc 58-62. Tip of dead center size Mk 6 is hardened to length 80 mm, the rest is hardening treatment. Morse cone CSN 220420, DIN 228, ISO 296 is without chucking thread.

Legend:

m – weight of dead or live center [kg]
 b – max. weight of work-piece [kg]
 V – max. radial run-out [mm]

NEW

LIVE CENTERS SILVER LINE - with forcing-off nut



Mk	$\varnothing D$	$\varnothing D1$	$\varnothing d$	L	l	n	b	m	V
3	52	75	15	145	65	5 000	400	1.65	0.01
4	57	80	20	171	69	4 000	1 300	3.05	
5	69.5	95	25	213	84	3 500	2 000	6.10	

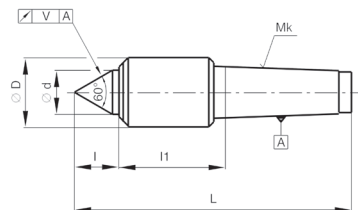
Live centers are determined for workpiece clamping in NC and CNC lathe. Exchangeable inserts allow universal use in various piece production. Except of using exchangeable inserts the live center has forcing-off nut for easy take out live center from headstock spindle. Protection of bearing from the ingress of coolant, dirt or swarf is provided by the built-in ring gasket which also prevent loss of lubricant.

Legend:

m – weight of dead or live center [kg]
 b – max. weight of work-piece [kg]
 V – max. radial run-out [mm]
 n – max. speed [1/min]
 Mk – Morse cone

NEW

LIVE CENTERS - with small body diameter



Mk	$\varnothing D$	$\varnothing d$	L	l	l1	n	b
3	36	16	144	18	45	5 000	400
4	42	20	177	24	50.5	5 000	700

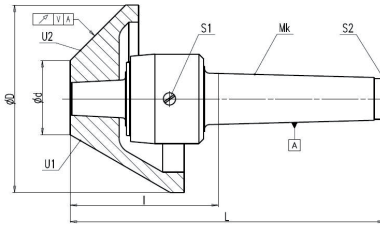
CSN 243315

Live centers are determined for workpiece clamping in lathes, eventually for work in grinding machine. The construction of live centers features with small diameter head of tip in comparison with basic series live centers according to CSN 243324, which allows easy access tool to workpiece.

Legend:

b – max. weight of work-piece [kg]
 n – max. speed [1/min]
 Mk – Morse cone

LIVE CENTERS SILVER LINE - for clamping hollow workpiece **CSN 243319**



End of revolving part is cone 1:10 for setting clamping inserts with apex angle 60° (U1) or 90° (U2). Morse cone CSN 220420, DIN 228, ISO 296 is without clamping thread. Protection of bearing from the ingress of coolant, dirt or swarf is provided by the built-in ring gasket which also prevent loss of lubricant. Accessories: 1 set exchangeable inserts corresponding to Mk.

Special version: Live centers with required inserts with max diameter D according to table

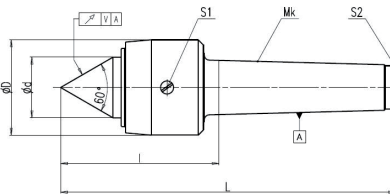
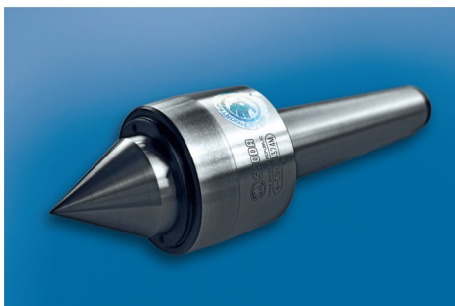
Mk		∅ d	∅ D	L	l	n	b	m	mv	V
3	60	35	80	162	81	5 000	400	2.1	0.63	0.025
	90	32							0.61	
4	60	44	115	194	92	4 000	1 300	4.4	1.56	
	90	47							1.40	
5	60	46	135	240	110	3 500	2 000	8.0	2.76	
	90	45							2.13	
6	60	64	170	308	126	2 500	4 000	23.5	5.15	
	90	70							3.85	
	90	96							230	

or live center undetachable
Replacement parts: individual exchangeable chucking inserts

Legend:

m – weight [kg]
b – max. weight of work-piece [kg]
v – max. radial run-out [mm]
n – max. speed [1/min]
S1, S2 – erasing place
mv – weight of insert [kg]

LIVE CENTERS SILVER LINE - standard



CSN 243324

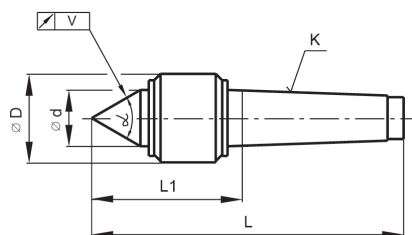
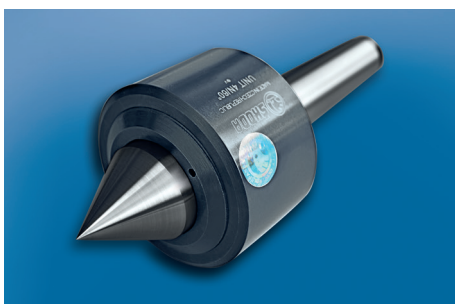
Live centers are determined for workpiece clamping in lathes or to work in grinding machines, especially by the grinding workpiece higher weight. The construction of live centers features with small diameter head of tip, allow easy access tool to the workpiece. Live centers with cone Mk 2 ÷ 6 is possible adjusting clearance in front of radial bearing. Live center Mk1 is dedicated for clamping lightweight workpiece. Live centers have shank with cone MORSE according to ČSN 22 0420 (DIN 228, ISO 296) without clamping thread. Special ring gasket stops enter cooling liquid and dusty elements to the bearing space of live center. Live centers are lubricated lithium lubricant grease MOGUL LV 2 WR.

Mk	∅ D	∅ d	L	l	l1	n	b	m	V
1	34	17	114	21.5	38.5	6 000	-	0.25	0.005
2	36	22	125	25.5	35		340	0.34	
3	47	30	162	32	49	5 000	400	0.80	
4	55	35	194	37.5	53	4 000	1 300	1.37	
5	70	45	240	47	63	3 500	2 000	3.03	
6	90	60	318	62	75.5	2 500	4 000	7.18	

Legend:

m – weight of dead or live center [kg]
b – max. weight of work-piece [kg]
V – max. radial run-out [mm]
n – max. speed [1/min]
Mk – Morse cone
S1, S2 – lubricated place

LIVE CENTERS - for heavy chucking with apex angle 60° and 90° **CSN 243325**

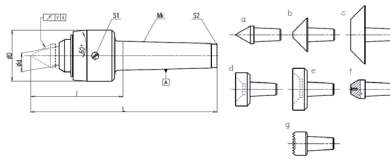


Live centers are for clamping heavy workpiece in lathe. Rigid structure and placing revolving part is characterized long working life. Live centers with accuracy EXTRA is used on grinding machine. Live centers are supplied with apex angle 60° and 90°. Shanks of live centers correspond to standard DIN 228 and ISO 296 without clamping thread. Protection of bearing from the ingress of coolant, dirt or swarf is provided by the built-in ring gasket which also prevent loss of lubricant.

Live centers are supplied in size Mk 4 – Mk 7 and METR. 120. More informations are on the website www.pilsentools.cz

on order only

LIVE CENTERS SILVER LINE - with interchangeable inserts CSN 243326



Morse cone ČSN 220420, DIN 228, ISO 296 without clamping thread. Protection of bearing from the ingress of coolant, dirt or swarf is provided by the built-in ring gasket which also prevent loss of lubricant.

Accessories: 1 set of exchangeable inserts (a-g) a ejector fork (h).

Special version: live centers with profile of clamping inserts according to requirements

Spare parts: individual interchangeable inserts

Legend:

m – weight of dead or live center [kg]

b – max. weight of work-piece [kg]

V – max. radial run-out [mm]

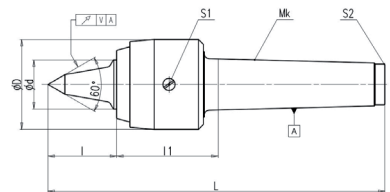
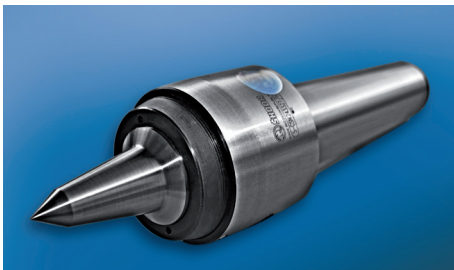
n – max. speed [1/min]

S1, S2 – lubricated place

Mk	∅ D	∅ d	L	l	n	b	m	V
2	36	10	110	45.5	6 000	340	0.75	0.01
3	47	15	145	61	5 000	400	1.52	
4	55	20	174	76	4 000	1 300	2.88	
5	70	25	227	103	3 500	2 000	5.75	
6	90	30	305	132.5	2 500	4 000	13.85	

LIVE CENTERS SILVER LINE - for NC machines

CSN 243327



Live centers are specified for NC lathe. Profile of clamping part allows easy access tool to workpiece, which it is suitable for cutting shaped parts. Special modified ring and unique sealing allow adjusting radial clearance and prevent enter cutting liquid to the bearing space of live center. Thereby work life of live center is prolonged during extreme conditions too.

Legend:

m – weight of dead or live center [kg]

b – max. weight of work-piece [kg]

V – max. radial run-out [mm]

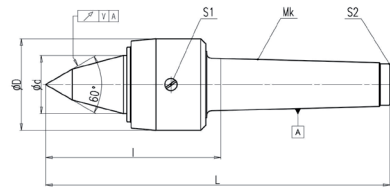
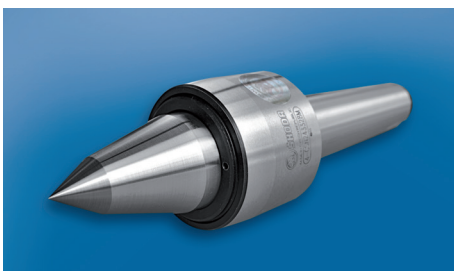
n – max. speed [1/min]

S1, S2 – lubricated place

Mk	∅ D	∅ d	L	l	l1	n	b	m	V
2	36	17	130	31	35	6 000	270	0.39	0.005
3	47	25	169.5	40	49	5 000	320	0.89	
4	55	30	206	50	53	4 000	1 000	1.40	
5	70	40	260	65	63	3 500	1 600	3.20	

LIVE CENTRES SILVER LINE - extended

CSN 243328



Morse cone ČSN 220420, DIN 228, ISO 296 without clamping thread. The possibility is to adjust radial clearance. Special modified ring and unique sealing allow adjusting radial clearance and prevent enter cutting liquid to the bearing space of live center.

Special version: with required profile and lining-up revolving part of live center.

Legend:

m – weight of dead or live center [kg]

b – max. weight of work-piece [kg]

V – max. radial run-out [mm]

n – max. speed [1/min]

S1, S2 – lubricated place

Mk	∅ D	∅ d	L	l	l1	n	b	m	V
2	36	22	128.5	30	35	6 000	270	0.36	0.008
3	47	30	167	37	49	5 000	320	0.84	
4	55	35	207.5	51	53	4 000	1 000	1.45	
5	69.5	45	259	66	63	3 500	1 600	3.2	
6	89	60	341	85	75.5	2 500	3 200	7.75	