

NEW



POWER-OPERATED CENTERING VICES

Economic and automated clamping with maximum clamping forces and reduced interfering contour

RÖHM
driven by technology

POWER-OPERATED CENTERING VICES

The new power-operated centering vices have a number of advantages. In addition to the compact design, the high repeatability and flexibility of use, the new power-operated centering vices convince with extremely high clamping forces, an expanded clamping range and a reduced interference contour.

FOR STATIONARY USE

The new power-operated centering vices by RÖHM are perfect for stationary centric clamping of round and angular workpieces on 3-, 4- and 5-axis machining centers.

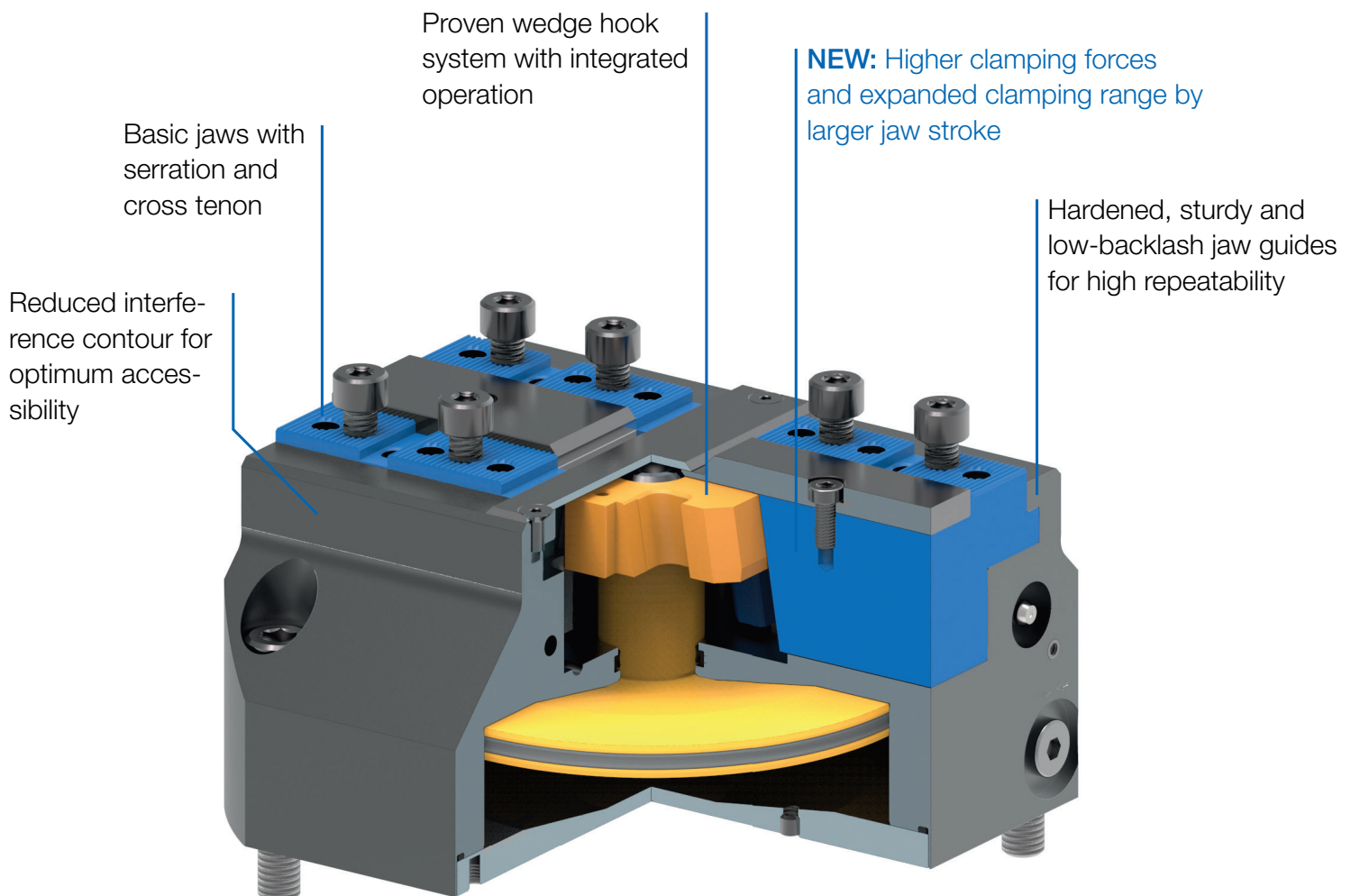
VARIANTS

KZS-P: Pneumatically operated, standard jaw stroke

KZS-PG: Pneumatically operated, extra large jaw stroke

KZS-H: Hydraulically operated, standard jaw stroke

KZS-HG: Hydraulically operated, extra large jaw stroke



BENEFITS AT A GLANCE

HIGHEST CLAMPING FORCES & ENHANCED JAW STROKE

- Jaw stroke expanded by up to 20% for a larger clamping range
- Highest clamping forces of up to 55 kN, optimal results and process reliability through precision wedge hook system
- Optimized lubrication system for constantly high clamping forces

FLEXIBLE APPLICATION OPTIONS

- Optimized for use in 3-, 4- and 5-axis machining centers as well as on all common zero-point clamping systems
- Jaws with cross tenon and serration

COMPACT DESIGN

- Compact design with reduced interfering contours for optimum workpiece accessibility, ideal working space utilization and optimum chip flow
- Sturdy and low-backlash jaw guides for high repeatability

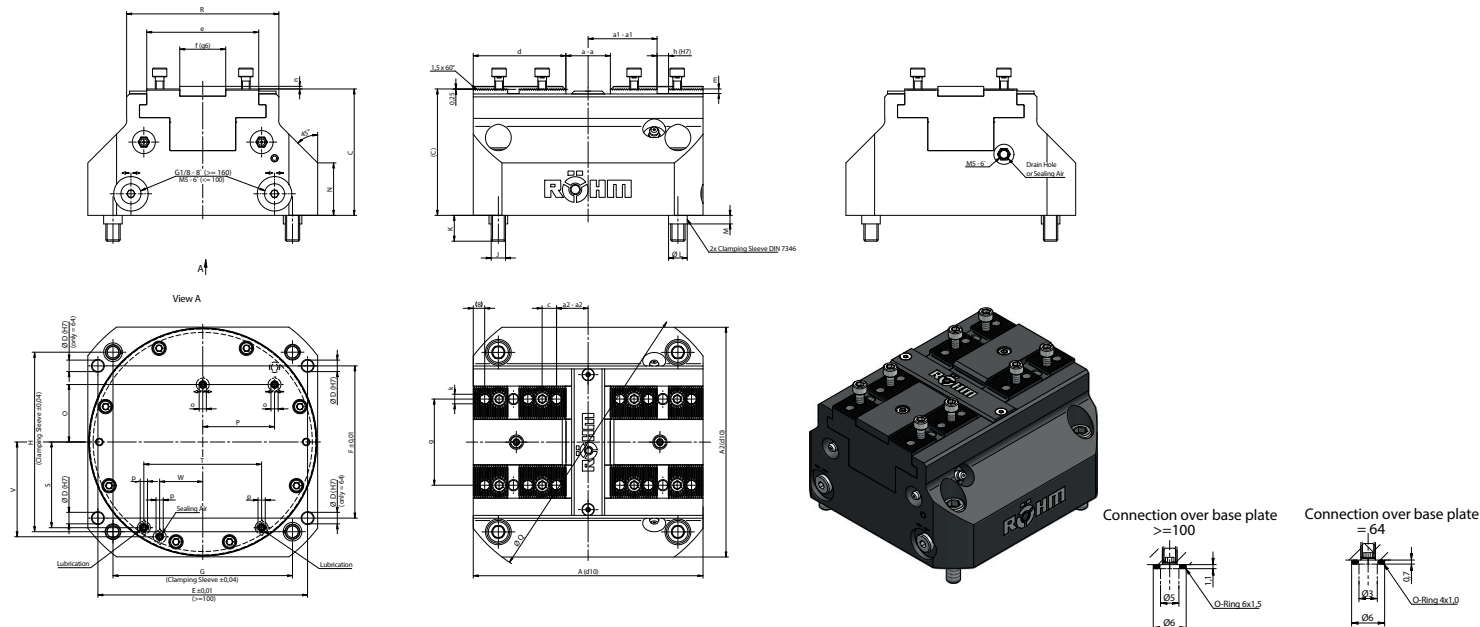
STROKE SENSOR

The new power-operated centering vices are also available with integrated stroke sensor, which serves for clamping control and ensures optimum process monitoring and thus optimal process reliability.



CENTERING VICE KZS-P / KZS-PG

PNEUMATICALLY OPERATED, STANDARD AND LARGE JAW STROKE

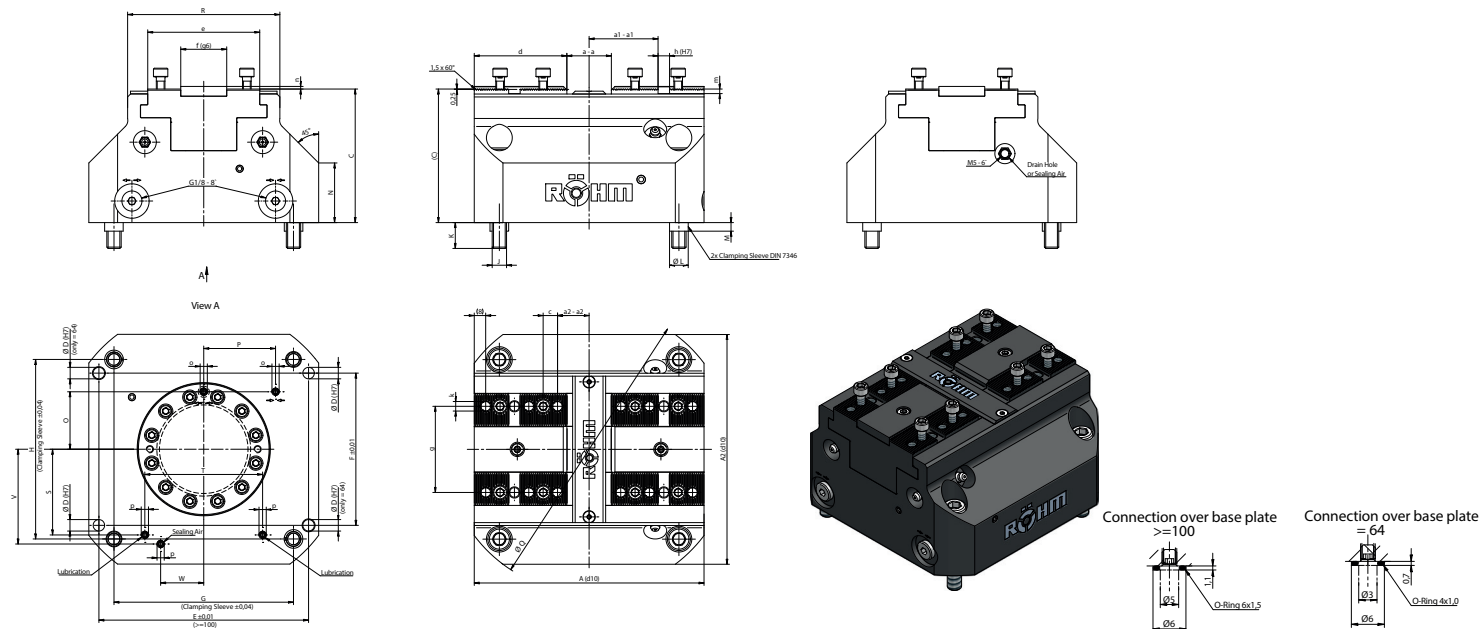


Power-operated centering vice **KZS-P** (standard jaw stroke) and **KZS-PG** (large jaw stroke), basic jaws with **serration 1.5 x 60°** and **cross-tenon interface**

Item No.	181480	181482	181486	181490	181494	181483	181487	181491	181495
Item no. with inductive sensors	181580 ▲	181582 ▲	181586 ▲	181590 ▲	181594 ▲	181583 ▲	181587 ▲	181591 ▲	181595 ▲
Size	KZS-P 64	KZS-P 100	KZS-P 160	KZS-P 200	KZS-P 250	KZS-PG 100	KZS-PG 160	KZS-PG 200	KZS-PG 250
A1 mm	64	100	160	200	250	100	160	200	250
Jaw stroke B mm	2.3	2.3	3.5	4.8	6	7	9.5	12.1	17.6
C mm	50.7	69.2	82.2	90.2	98.2	69.2	82.2	90.2	98.2
D H7 mm	4 - 7.5T	6 - 12T	8 - 14T	8 - 14T	10 - 20T	6 - 12T	8 - 14T	8 - 14T	10 - 20T
E±0.01 mm	36	90	146	184	230	90	146	184	230
F±0.01 mm	56	64	106	146	154	64	106	146	154
G±0.04 mm	50	80	125	160	200	80	125	160	200
H±0.04 mm	50	80	125	160	200	80	125	160	200
J mm	M6	M8	M10	M10	M12	M8	M10	M10	M12
K mm	12	15	18	18	20	15	18	18	20
L mm	8	11	13	13	16	11	13	13	16
M mm	4	4.5	6	6	6	4.5	6	6	6
N mm	26.2	34.8	31.5	34.2	35.7 (50°)	34.8	31.5	34.2	35.7 (50°)
O mm	17	32	40	50	64	32	40	50	64
P mm	17	29.5	50	65	75	29.5	50	65	75
Q mm	84	130	200	250	310	130	200	250	310
R mm	45	68	106	140	166	68	106	140	166
S mm	21.1	34.5	59.7	72.5	92.6	34.5	59.7	72.5	92.6
T mm	33.6	55	82	110	139.6	55	82	110	139.6
V mm	-27.5	44	74	87.7	110.8	44	74	87.7	110.8
W mm	0	25.5	32	48	60	25.5	32	48	60
a mm	12.8 - 17.4	20.4 - 25	24 - 31	34.4 - 44	34 - 46	20.2 - 33	25 - 44	32 - 56.2	41 - 76.2
a1 mm	12.9 - 15.2	25.7 - 28	44.5 - 48	53.2 - 58	55 - 61	25.5 - 32.5	44.8 - 54.3	54.5 - 66.6	51.5 - 69.1
a2 mm	9.9 - 12.2	14.7 - 17	18.5 - 22	32 - 27.2	24 - 30	14.5 - 21.5	18.8 - 28.3	28.5 - 40.6	32.5 - 50.1
b mm	4.8	5	8	8	11	7.5	11.2	11.5	15
c mm	5	7	10	10	12	7	10	10	12
d mm	23.3	37.5	64.5	78	102	40.5	67.5	81	99
e mm	30	47	78	102	125	47	78	102	125
f ⁹⁶ mm	14	20	32	40	50	20	32	40	50
g mm	24	35	60	80	90	35	60	80	90
h ¹⁷ mm	4	6	8	8	10	6	8	8	10
k	M4 - 7T	M6 - 9T	M8 - 12T	M8 - 16T	M10 - 19T	M6 - 9T	M8 - 12T	M8 - 16T	M10 - 19T
k1	4	5	6	7	8	5	6	7	7
m mm	2.7	2.7	3.2	3.2	4	2.7	3.2	3.2	4
n mm	1.8	1.8	1.8	2.3	2.3	1.8	1.8	2.3	2.3
o mm	M3	M4	M5	M6	M6	M4	M5	M6	M6
p mm	M3	M4	M5	M5	M5	M4	M5	M5	M5
Max. operating pressure bar	9	9	9	9	6	9	9	9	6
Max. total clamping force kN	4.6	18	45	52	55	8	20	24	21
Weight kg	1.15	3.6	10.3	18.5	32.54	3.65	10.5	18.9	30.4
Cylinder volume (double stroke) cm ³	38	180	600	900	1760	180	600	900	1760
Closing time s	0.1	0.25	0.5	0.6	1.1	0.25	0.5	0.6	1.1
Clamping repeatability mm	0.01	0.01	0.02	0.03	0.03	0.01	0.02	0.03	0.03

CENTERING VICE KZS-H / KZS-HG

HYDRAULICALLY OPERATED, STANDARD AND LARGE JAW STROKE



Power-operated centering vice KZS-H (standard jaw stroke) and KZS-HG (large jaw stroke), basic jaws with serration 1.5 x 60° and cross-tenon interface

Item No.	181481	181484	181488	181485	181489	181493	181497
Item no. with inductive sensors	181581 ▲	181584 ▲	181588 ▲	181585 ▲	181589 ▲	181593 ▲	181597 ▲
Size	KZS-H 64	KZS-H 100	KZS-H 160	KZS-HG 100	KZS-HG 160	KZS-HG 200	KZS-HG 250
A1 mm	64	100	160	100	160	200	250
Jaw stroke B mm	2.3	2.3	3.5	7	9.5	12.1	17.6
C mm	55.7	74.2	87.2	74.2	87.2	95.2	103.2
D H7 mm	4 - 7.5T	6 - 12T	8 - 14T	6 - 12T	8 - 14T	8 - 14T	10 - 20T
E±0.01 mm	36	90	146	90	146	184	180
F±0.01 mm	56	64	106	64	106	146	200
G±0.04 mm	50	80	125	80	125	160	180
H±0.04 mm	50	80	125	80	125	160	200
J mm	M6	M8	M10	M8	M10	M10	M12
K mm	12	15	18	15	18	18	20
L mm	8	11	13	11	13	13	16
M mm	4	4.5	6	4.5	6	6	6
N mm	31.2	39.8	36.5	39.8	36.5	39.2	57.5 (50°)
O mm	17	32	40	32	40	50	80
P mm	17	29.5	50	29.5	50	65	45
Q mm	84	130	200	130	200	250	310
R mm	45	68	106	68	106	140	166
S mm	21.1	34.5	59.7	34.5	59.7	72.5	50
T mm	33.6	55	82	55	82	110	140
V mm	-27.5	44	74	44	74	87.7	70
W mm	0	25.5	32	25.5	32	48	50
a mm	12.8 - 17.4	20.4 - 25	24 - 31	20.2 - 33	25 - 44	32 - 56.2	41 - 76.2
a1 mm	12.9 - 15.2	25.7 - 28	44.5 - 48	25.5 - 32.5	44.8 - 54.3	54.5 - 66.6	51.5 - 69.1
a2 mm	9.9 - 12.2	14.7 - 17	18.5 - 22	14.5 - 21.5	18.8 - 28.3	28.5 - 40.6	32.5 - 50.1
b mm	4.8	5	8	7.5	11.2	11.5	15
c mm	5	7	10	7	10	10	12
d mm	23.3	37.5	64.5	40.5	67.5	81	99
e mm	30	47	78	47	78	102	125
f ⁹⁶ mm	14	20	32	20	32	40	50
g mm	24	35	60	35	60	80	90
h ¹⁷ mm	4	6	8	6	8	8	10
k	M4 - 7T	M6 - 9T	M8 - 12T	M6 - 9T	M8 - 12T	M8 - 16T	M10 - 19T
k1	4	5	6	5	6	7	7
m mm	2.7	2.7	3.2	2.7	3.2	3.2	4
n mm	1.8	1.8	1.8	1.8	1.8	2.3	2.3
o mm	M3	M4	M5	M4	M5	M6	M6
p mm	M3	M4	M5	M4	M5	M5	M5
Max. operating pressure bar	60	60	60	120	120	60	60
Max. total clamping force kN	4.5	18	45	16	40	50	50
Weight kg	1.45	4.55	13.3	4.65	13.5	22.9	35.2
Cylinder volume (double stroke) cm³	7	30	100	30	100	300	420
Closing time s	0.4	1.1	1.6	1.1	1.6	2.1	3
Clamping repeatability mm	0.01	0.01	0.02	0.01	0.02	0.03	0.03

ACCESSORIES

Jaws for KZS-P, KZS-PG, KZS-H, KZS-HG

C 21

Soft top jaws, 2-jaw set, can be hardened, serration 60° - material: 16 MnCr5



Item No.	Size	Jaw length mm	Jaw height mm	Jaw width mm
166138	64	25	20	34
166140	100	42	25	55
166142	160	60	40	80
166144	200	75	45	100
166146	250	90	50	125

C 21

Soft top jaws, 2-jaw set, tongue and groove, high design - material: 16 MnCr5



Item No.	Size	Jaw length mm	Jaw height mm	Jaw width mm
166126	64	28.5	35	34
166128	100	47	48	55
166130	160	76	77.5	80
166132	200	96	85	100
166134	250	120	100	125

Accessories for KZS-P, KZS-PG, KZS-H, KZS-HG

C15

Grease F91 for lubrication and conservation of chucking power



Item no.	Design	Contents
777021 ▲	Cartridge	0,4 kg

C15

Grease gun DIN1283



Item no.	Connection	Contents of delivery
329093	M10x1	150 mm nozzle tube bent, needlepoint mouthpiece, top mouthpiece, 300 mm high pressure hose with 4 jaw hydraulics cross mouthpiece

AUTOMATISE YOUR PRODUCTION!



Reducing expensive set-up times by using the new power-operated centering vices in combination with the EASYLOCK zero-point clamping system.

On request we adapt the RÖHM centering vices to zero-point clamping systems of other manufacturers.



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