Accessories for HSG, KSH, HSGK and DSH



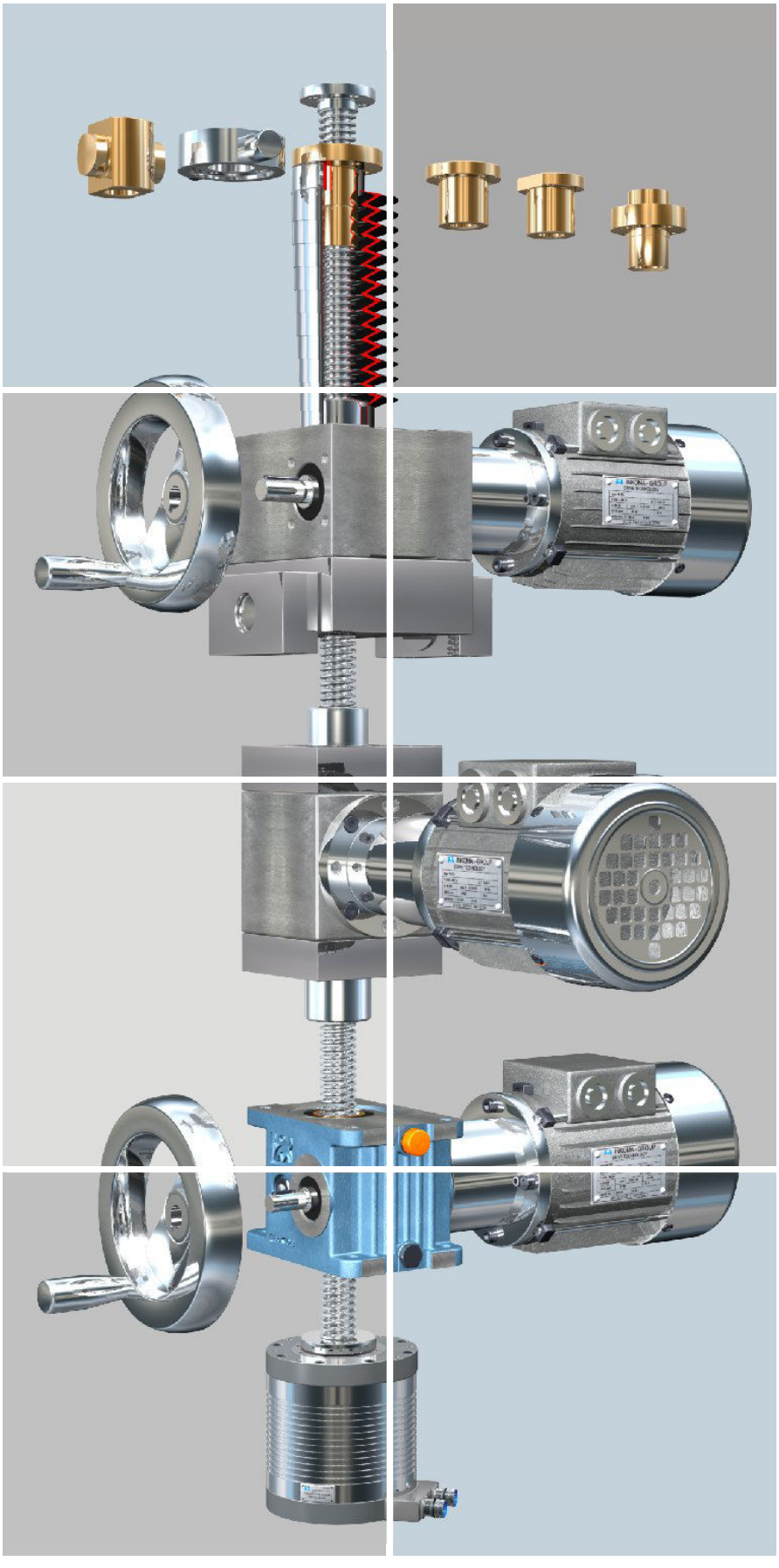
INKOMA - GROUP

Product description

Accessories for screw jacks types HSG, KSH, HSGK and DSH

The comprehensive range of accessories for high capacity screw jacks types HSG, KSH, HSGK and DSH allows the designer the flexibility to tailor the use of the screw jack precisely to the application. All accessories are manufactured to the same exacting standards as the rest of the INKOMA product range.
In addition to this comprehensive selection, customers special requirements can be accommodated.

Please consult our engineering staff.



Accessories for

HSG, KSH, HSGK and DSH

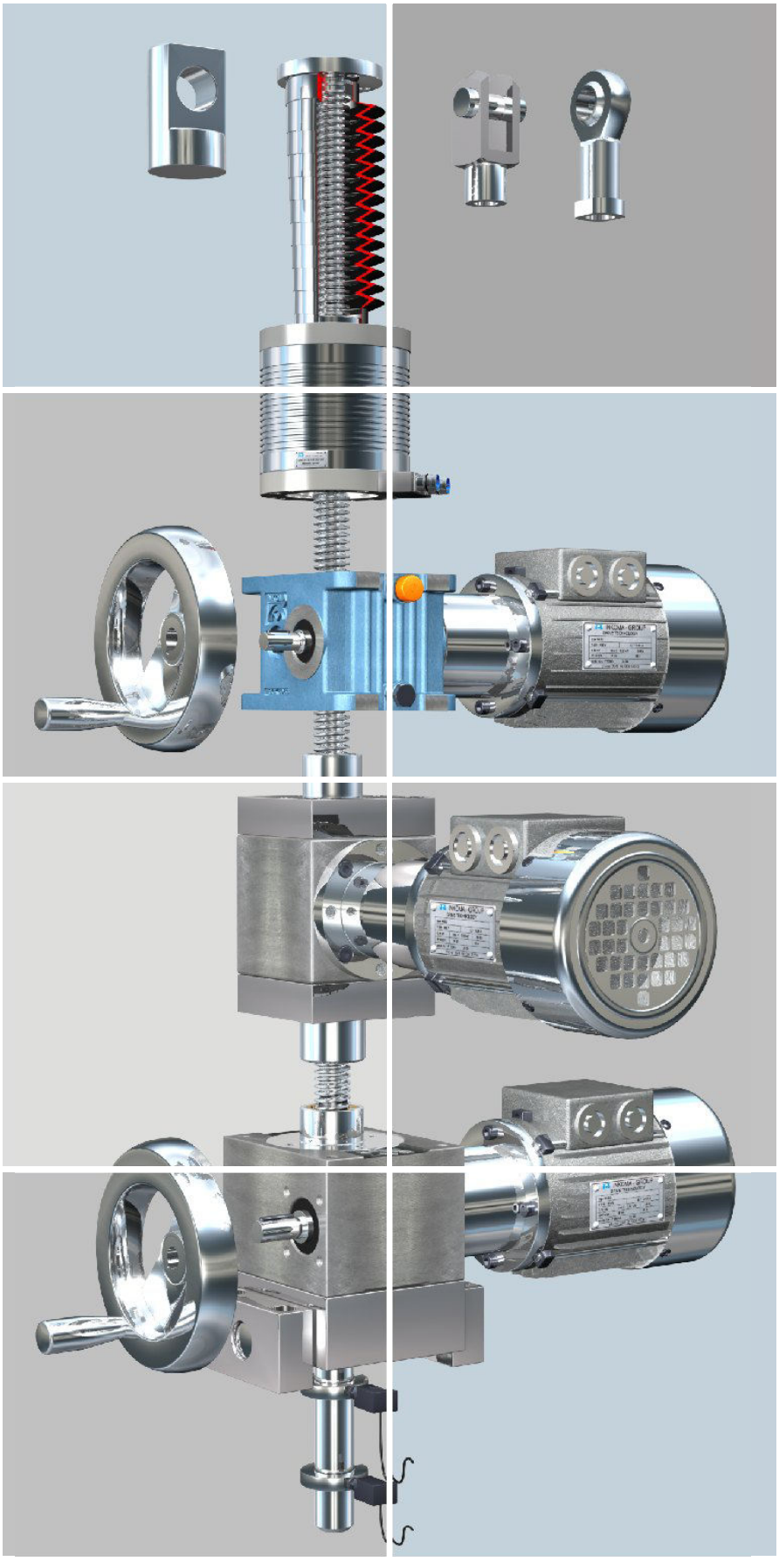
rotating spindle version R

Product description

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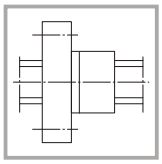
Accessories for

HSG, KSH, HSGK and DSH

translating spindle version S, SA, SV, SVA

Contents list

Accessories for rotating spindle version R

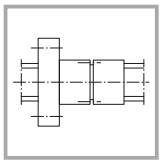



FMS / FM Flanged nut

page 192 - 193

for standard applications

Accessories in standard design for HSG | KSH | HSGK

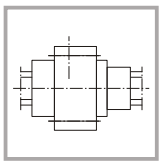



SFM Safety nut

page 194 - 195

allows measurement of the wear in the nut and
takes over the load in the event of failure of the nut thread

Accessories in standard design for HSG | KSH | HSGK

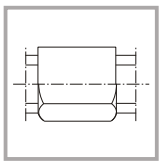



DFM Duplex nut

page 194 - 195

allows the connection of bellows above and below the nut and
provides connection for centralised lubrication

Accessories in standard design for HSG | KSH | HSGK

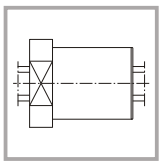



TM Trapezoidal spindle nut / ST Hexagon trapezoidal nut

page 196 - 197

for applications where space is critical

Accessories in standard design for HSG | KSH

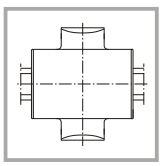



FMF Flange nut with flats

page 196 - 197

for easy mounting of the screw jacks

Accessories in standard design for HSGK

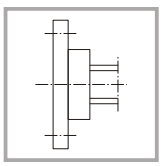



FMZ Self-aligning travelling nut

page 198 - 199

for pivot mounting of the screw jacks

Accessories in standard design for HSGK

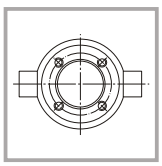



GL Bearing plate

page 198 - 199

to support the free end of the rotating spindle

Accessories in standard design for HSG | KSH | HSGK | DSH

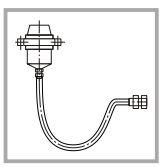



SL Self aligning nut flange

page 200 - 201

allows articulating fitting of flanged nut, bearing blocks and bearing flanges

Accessories in standard design for HSG | KSH | HSGK




Automatic lubrication device

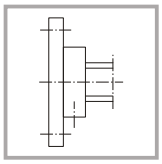
page 200 - 201

allows continuous grease supply to trapezoidal and ball screw spindles

Accessories in standard design for HSG | KSH | HSGK | DSH

Contents list

Accessories for translating spindle versions S, SA,SV, SVA

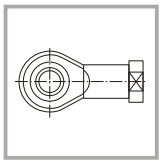



BF Mounting flange

page 202 - 203

allows simple connection of the spindle end to the moving component

Accessories in standard design for HSG | KSH | HSGK | DSH

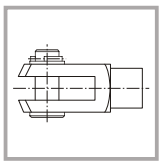



GSK Rod end bearing

page 202 - 203

allows articulating connection of the spindle end to the moving component

Accessories in standard design for HSG | KSH | HSGK | DSH

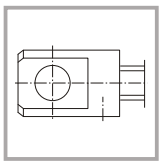



GK Clevis

page 204 - 205

allows articulating connection of the spindle end to the moving component

Accessories in standard design for HSG | KSH | HSGK | DSH

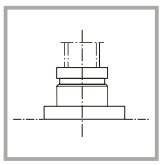



SE Clevis attachment

page 204 - 205

allows flexible connection of the spindle end to the moving component

Accessories in standard design for HSGK

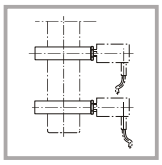



SFM-S Safety nut

page 206 - 207

allows wear measurement of the loaded nut

Accessories in standard design for HSG | HSGK

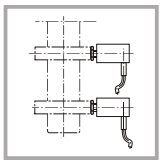



SR Setting ring

page 208 - 209

allows fitting of limit switch

Accessories in standard design for HSG | KSH | HSGK

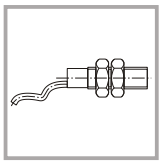



Limit switch with roller follower

page 208 - 209

for monitoring of the spindle position

Accessories in standard design for HSG | KSH | HSGK

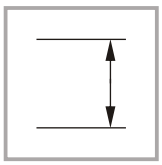



Inductive proximity switch

page 208 - 209

for monitoring of the spindle position

Accessories in standard design for HSG | KSH | HSGK

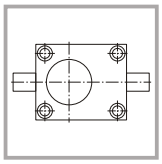
Stroke measurement options

page 208 - 209

available methods

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Accessories for all versions

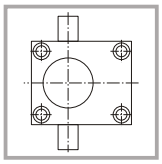
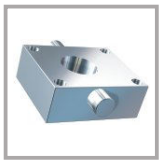



KA Trunnion adaptor

page 210 - 211

trunnion unit for articulated mounting of the screw jacks HSG and KSH, trunnion axis at right angle to the worm shaft axis

Accessories in standard design for HSG | KSH

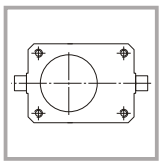



KAS Trunnion adaptor

page 210 - 211

trunnion unit for articulated mounting of the screw jacks HSG and KSH, trunnion axis parallel to the worm shaft axis

Accessories in standard design for HSG | KSH

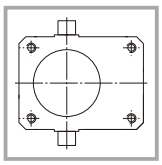
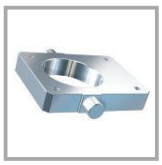



KA-HSGK Trunnion adaptor

page 212 - 213

trunnion unit for articulated mounting of the screw jack HSGK, trunnion axis at right angle to the worm shaft axis

Accessories in standard design for HSGK

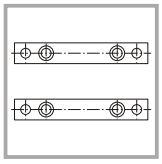



KAS-HSGK Trunnion adaptor

page 212 - 213

trunnion unit for articulated mounting of the screw jack HSGK, trunnion axis parallel to the worm shaft axis

Accessories in standard design for HSGK

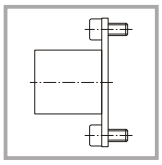



BP Mounting feet

page 210 - 211

provides an alternative method of mounting the screw jack

Accessories in standard design for HSG | KSH

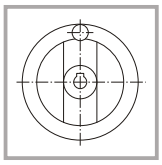



WA - Shaft cover

page 212 - 213

covers the exposed spindle end

Accessories in standard design for HSG |HSGK

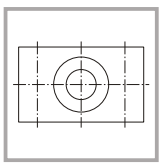



HR Handwheel

page 214 - 215

for manual actuation of the screw jack

Accessories in standard design for HSG | HSGK

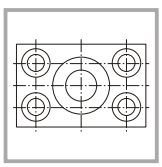
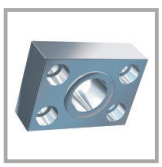



LB Bearing block

page 214 - 215

base mounting bearing unit for KA, KAS or SL

Accessories in standard design for HSG | KSH | HSGK

LF Bearing flange

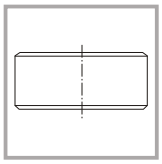
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base mounting bearing unit for KA, KAS or SL

Accessories in standard design for HSG | KSH | HSGK

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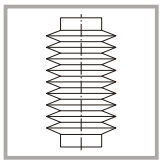



H Bellows mounting sleeve

page 216 - 217

allows fitting of folding bellows / heavy duty folding bellows

Accessories in standard design for HSG | KSH | HSGK

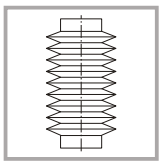



FB Folding bellows

page 216 - 217

provide spindle protection from external influences

Accessories in standard design for HSG | KSH

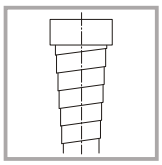



SB Heavy duty folding bellows

page 218 - 219

provide spindle protection from external influences

Accessories in standard design for HSGK

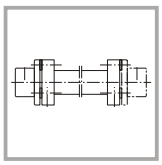



SF Spiral protective sleeve

page 220 - 221

provide spindle protection from external influences

Accessories in standard design for HSG | KSH | HSGK | DSH

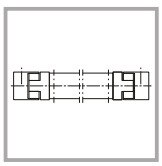



GX Cardan shafts

page 222 - 223

provide torsionally stiff resilient connections between screw jacks

Accessories in standard design for HSG | KSH | HSGK

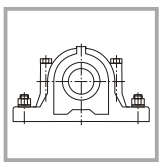
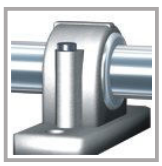



GE Cardan shafts

page 222 - 223

provide low cost flexible connections between screw jacks

Accessories in standard design for HSG | KSH | HSGK

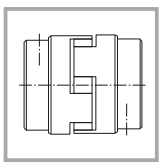



SNH Support bearings

page 224 - 225

to DIN 736 to support extended cardan shafts

Accessories in standard design for HSG | KSH | HSGK

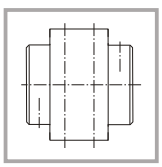
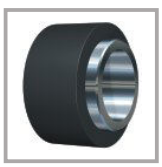



EFK Elaflex coupling

page 224 - 225

flexible shaft coupling to compensate for minor axial, radial and angular errors (see category Elaflex coupling page 337 - 346)

Accessories in standard design for HSG | KSH | HSGK

M Gear coupling

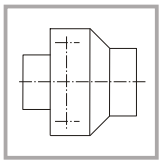
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standard version with keyway to BS 4235 (DIN 6885/1)

Accessories in standard design for HSG | KSH | HSGK

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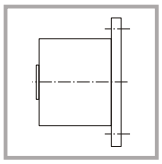
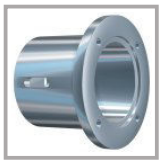
Accessories for all versions




Gear coupling page

light duty version with keyway to BS 4235 (DIN 6885/1) 226 - 227

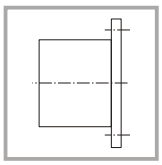
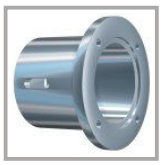
Accessories in standard design for HSG | KSH | HSGK

MG-HSG Motor adaptor page

version A
version B 228 - 229

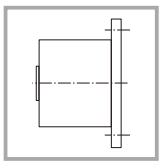
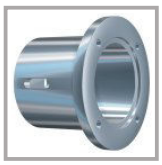
Accessories in standard design for HSG

MG-KSH Motor adaptor page

version A.1 and A.2
version B 230 - 231

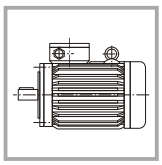
Accessories in standard design for KSH

MG-HSGK Motor adaptor page

version A
version B 232 - 233

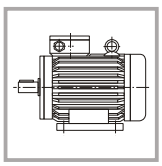
Accessories in standard design for HSGK




3 phase motor page

flange mounting
B 14 version 234 - 235

Accessories in standard design for HSG | KSH | HSGK




3 phase motor page

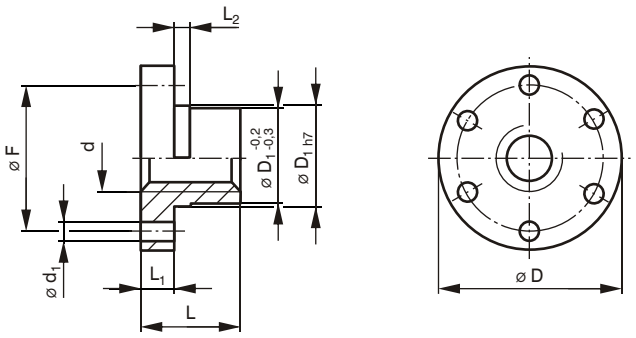
foot mounting
B 3 version 236 - 237

Accessories in standard design for HSG | KSH | HSGK

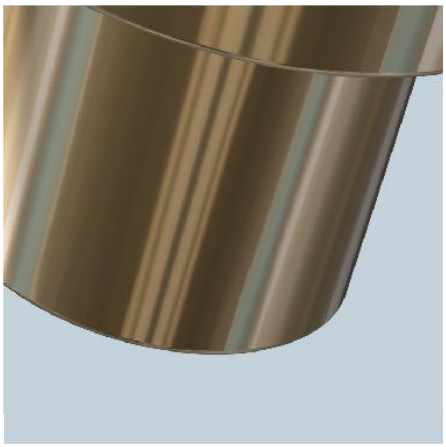
Accessories for rotating spindle version R

FMS - Flanged nut version A

Flanged nut for all standard INKOMA screw jacks with rotating spindles.







Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X	X	

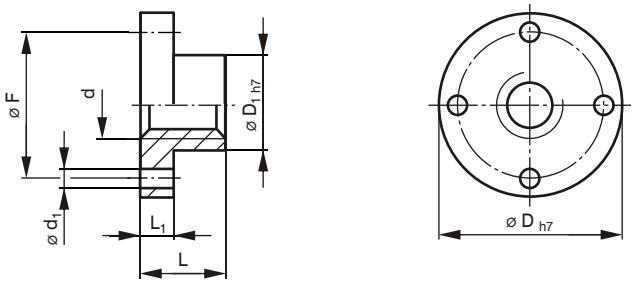
Ordering example:

Flanged nut
Screw jack - size 5

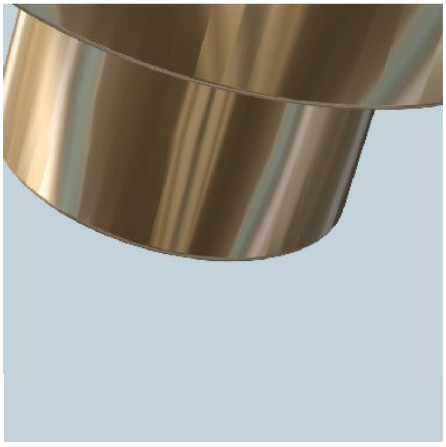
FMS - 5

FM - Flanged nut version B

Flanged nut for all standard INKOMA screw jacks with rotating spindles.







Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X	X	

Ordering example:

Flanged nut
Screw jack - size 5

FM - 5

Order code	for screw jack	Dimensions [mm]								Material	Mass [kg]
		d	d_1	D	D_1	F	L	L_1	L_2		
FMS-0	HSG-0	Tr 16x4	6	48	28	38	44	12	8	Bz 12	0,25
FMS-1	HSG-1	Tr 18x4	6	48	28	38	44	12	8	Bz 12	0,25
FMS-2	HSG-2	Tr 20x4	7	55	32	45	44	12	8	Bz 12	0,30
FMS-3	HSG-3	Tr 30x6	7	62	38	50	46	14	8	Bz 12	0,40
FMS-4	HSG-4	Tr 40x7	9	95	63	78	73	16	10	Bz 12	1,70
FMS-5	HSG-5	Tr 60x9	11	125	85	105	99	20	10	Bz 12	3,70
FMS-200	HSG-200	Tr 70x10	17	180	95	140	120	30	10	Bz 12	8,82
FMS-300	HSG-300	Tr 90x12	22	225	130	180	140	34	16	Bz 12	18,14
FMS-400	HSG-400	Tr 100x12	26	260	140	200	160	37	25	Bz 12	19,70
FMS-500	HSG-500	Tr 120x14	28	300	160	230	170	40	30	Bz 12	33,80
FMS-KSH-1	KSH-1	Tr 24x5	7	62	38	50	46	14	8	Bz 12	0,44
FMS-KSH-2	KSH-2	Tr 40x7	9	95	63	78	73	16	10	Bz 12	1,70
FMS-KSH-3	KSH-3	Tr 60x9	11	125	85	105	99	20	10	Bz 12	3,70
FMS-HSGK-3	HSGK-3	Tr 40x8	9	95	63	78	73	16	8	Bz 12	1,86
FMS-HSGK-4	HSGK-4	Tr 50x9	11	110	72	90	97	18	10	Bz 12	2,86
FMS-HSGK-5	HSGK-5	Tr 60x12	11	125	85	105	99	20	10	Bz 12	4,02
FMS-HSGK-6	HSGK-6	Tr 70x12	17	180	95	140	132	30	10	Bz 12	10,0
FMS-HSGK-7	HSGK-7	Tr 100x16	26	260	140	200	145	37	25	Bz 12	22,5
FMS-HSGK-8	HSGK-8	Tr 120x16	28	300	160	230	155	40	30	Bz 12	30,6
FMS-HSGK-9	HSGK-9	Tr 160x20	on request								

Order code	for screw jack	Dimensions [mm]							Material	Mass [kg]
		d	d_1	D	D_1	F	L	L_1		
FM-0	HSG-0	Tr 16x4	6,6	48	26	38	25	8	Bz 12	0,15
FM-1	HSG-1	Tr 18x4	9	65	30	48	30	10	Bz 12	0,25
FM-2	HSG-2	Tr 20x4	11	75	35	55	35	12	Bz 12	0,70
FM-3	HSG-3	Tr 30x6	11	85	45	65	45	15	Bz 12	1,00
FM-4	HSG-4	Tr 40x7	13	100	55	78	60	20	Bz 12	1,24
FM-5	HSG-5	Tr 60x9	17	135	75	105	75	25	Bz 12	5,00
FM-200	HSG-200	Tr 70x10	22	180	95	140	120	30	Bz 12	8,83
FM-300	HSG-300	Tr 90x12	26	225	130	180	140	34	Bz 12	17,34
FM-400	HSG-400	Tr 100x12	33	260	140	200	160	37	Bz 12	24,04
FM-500	HSG-500	Tr 120x14	39	300	160	230	170	40	Bz 12	33,70
FM-KSH-1	KSH-1	Tr 24x5	11	85	45	65	45	15	Bz 12	1,12
FM-KSH-2	KSH-2	Tr 40x7	13	100	55	78	60	20	Bz 12	1,24
FM-KSH-3	KSH-3	Tr 60x9	17	135	75	105	75	25	Bz 12	5,00
FM-HSGK-3	HSGK-3	Tr 40x8	13	100	55	78	60	20	Bz 12	1,59
FM-HSGK-4	HSGK-4	Tr 50x9	17	125	65	95	68	22	Bz 12	2,58
FM-HSGK-5	HSGK-5	Tr 60x12	17	135	75	105	75	25	Bz 12	3,39
FM-HSGK-6	HSGK-6	Tr 70x12	22	180	95	140	132	30	Bz 12	9,0
FM-HSGK-7	HSGK-7	Tr 100x16	33	260	140	200	145	37	Bz 12	22,4
FM-HSGK-8	HSGK-8	Tr 120x16	39	300	160	230	155	40	Bz 12	30,2
FM-HSGK-9	HSGK-9	Tr 160x20	on request							

Accessories for rotating spindle version R

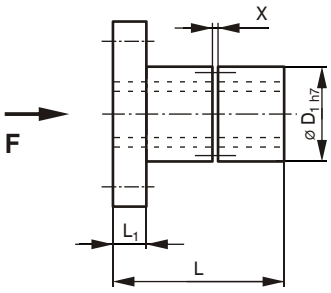
SFM - Safety nut

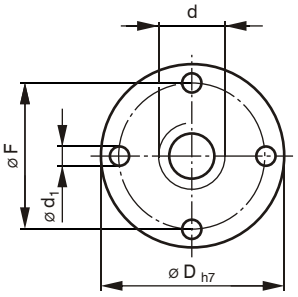
The INKOMA-safety nut allows wear monitoring of the loaded nut thread and takes over the load in the event of failure of the loaded nut. In order to be able to observe the wear in the threads, the running nut is coupled with a safety nut.
The set dimension “X” reduces with progressive wear. Hence it is possible to measure the wear under load and without the need to dismantle the assembly. Should the loaded running nut fail, the safety nut takes over the whole load.
If failure occurs the entire running nut with safety nut should be replaced.



Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X	X	





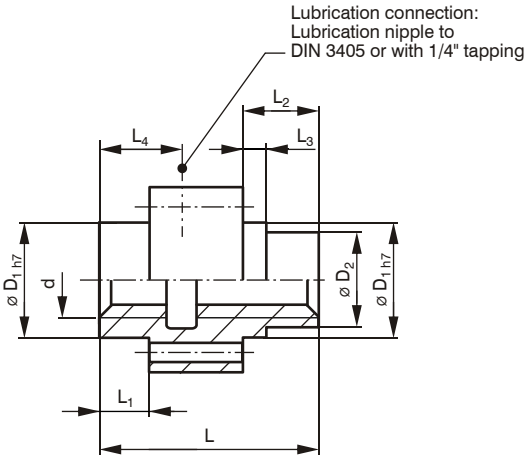
Ordering example:

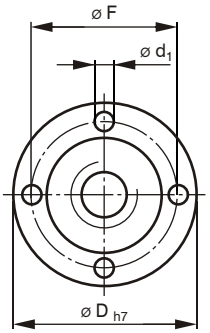
Safety nut
Screw jack - size 5

SFM - 5

DFM - Duplex nut

INKOMA-duplex nut has two connection possibilities for bellows attachment (above and below) also a lubrication nipple for the connection of a central lubrication system and/or self aligning nut adaptor (SL) (see page 200).





Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X	X	

Ordering example:

Duplex nut
Screw jack - size 5

DFM - 5

Order code	for screw jack	Dimensions [mm]								Material	Mass [kg]
		d	d_1	D	D_1	F	L	L_1	X		
SFM-0	HSG-0	Tr 16x4	6,6	48	26	38	43	8	1	Bz 12	0,25
SFM-1	HSG-1	Tr 18x4	9	65	30	48	61	10	1	Bz 12	0,45
SFM-2	HSG-2	Tr 20x4	11	75	35	55	66	12	1	Bz 12	0,50
SFM-3	HSG-3	Tr 30x6	11	85	45	65	77	15	1,5	Bz 12	0,65
SFM-4	HSG-4	Tr 40x7	13	100	55	78	117	20	1,7	Bz 12	2,80
SFM-5	HSG-5	Tr 60x9	17	135	75	105	154	25	2,3	Bz 12	4,10
SFM-200	HSG-200	Tr 70x10	22	180	95	140	242,5	30	2,5	Bz 12	13,78
SFM-300	HSG-300	Tr 90x12	26	225	130	180	283	34	3	Bz 12	29,09
SFM-400	HSG-400	Tr 100x12	33	260	140	200	323	37	3	Bz 12	35,77
SFM-500	HSG-500	Tr 120x14	39	300	160	230	343,5	40	3,5	Bz 12	49,61
SFM-KSH-1	KSH-1	Tr 24x5	11	85	45	65	77	15	1,3	Bz 12	0,87
SFM-KSH-2	KSH-2	Tr 40x7	13	100	55	78	117	20	1,7	Bz 12	2,80
SFM-KSH-3	KSH-3	Tr 60x9	17	135	75	105	154	25	2,3	Bz 12	4,10
SFM-HSGK-3	HSGK-3	Tr 40x8	13	100	55	78	102	20	2	Bz 12	2,07
SFM-HSGK-4	HSGK-4	Tr 50x9	17	125	65	95	147	22	2,3	Bz 12	3,71
SFM-HSGK-5	HSGK-5	Tr 60x12	17	135	75	105	150	25	3	Bz 12	4,73
SFM-HSGK-6	HSGK-6	Tr 70x12	22	180	95	140	266	30	3	Bz 12	13,5
SFM-HSGK-7	HSGK-7	Tr 100x16	33	260	140	200	291	37	4	Bz 12	33,3
SFM-HSGK-8	HSGK-8	Tr 120x16	39	300	160	230	312	40	4	Bz 12	43,9
SFM-HSGK-9	HSGK-9	Tr 160x20	on request								

Order code	for screw jack	Dimensions [mm]											Material	Mass [kg]
		d	d_1	D	D_1	D_2	F	L	L_1	L_2	L_3	L_4		
DFM-0	HSG-0	Tr 16x4	6,6	48	26	25	38	65	12	28	8	23	Bz 12	0,40
DFM-1	HSG-1	Tr 18x4	9	65	30	29	48	70	15	30	8	26	Bz 12	0,55
DFM-2	HSG-2	Tr 20x4	11	75	35	34	55	75	15	35	8	26	Bz 12	1,50
DFM-3	HSG-3	Tr 30x6	11	85	45	44	65	85	15	43	8	26	Bz 12	2,00
DFM-4	HSG-4	Tr 40x7	13	100	55	54	78	100	23	50	10	34	Bz 12	2,35
DFM-5	HSG-5	Tr 60x9	17	135	75	74	105	125	28	70	10	39	Bz 12	7,40
DFM-200	HSG-200	Tr 70x10	22	180	95	94	140	165	38	95	10	49	Bz 12	11,60
DFM-300	HSG-300	Tr 90x12	26	225	130	129	180	185	46	105	16	58	Bz 12	21,35
DFM-400	HSG-400	Tr 100x12	33	260	140	139	200	205	63	105	25	76	Bz 12	32,00
DFM-500	HSG-500	Tr 120x14	39	300	160	159	230	230	75	115	25	90	Bz 12	43,80
DFM-KSH-1	KSH-1	Tr 24x5	11	85	45	44	65	85	15	43	8	26	Bz 12	2,50
DFM-KSH-2	KSH-2	Tr 40x7	13	100	55	54	78	100	23	50	10	34	Bz 12	2,35
DFM-KSH-3	KSH-3	Tr 60x9	17	135	75	74	105	125	28	70	10	39	Bz 12	7,40
DFM-HSGK-3	HSGK-3	Tr 40x8	13	100	55	54	78	100	23	50	10	34	Bz 12	2,31
DFM-HSGK-4	HSGK-4	Tr 50x9	17	125	65	64	95	115	28	60	10	39	Bz 12	3,54
DFM-HSGK-5	HSGK-5	Tr 60x12	17	135	75	74	105	125	28	70	10	39	Bz 12	4,37
DFM-HSGK-6	HSGK-6	Tr 70x12	22	180	95	94	140	182	45	105	10	56	Bz 12	10,8
DFM-HSGK-7	HSGK-7	Tr 100x16	33	260	140	139	200	194	57	100	25	70	Bz 12	25,9
DFM-HSGK-8	HSGK-8	Tr 120x16	39	300	160	159	230	210	65	105	25	80	Bz 12	34,8
DFM-HSGK-9	HSGK-9	Tr 160x20	on request											

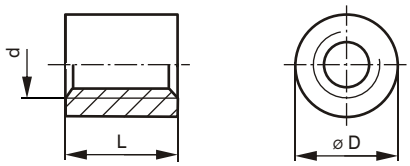
Accessories for rotating spindle version R

TM - Trapezoidal spindle nut

INKOMA-trapezoidal spindle nut for the standard and space saving connection of the spindle to the moving load element.

Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X		



Ordering example:

Trapezoidal spindle nut
Screw jack - size 5

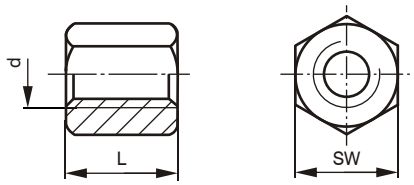
TM - 5

ST - Hexagon trapezoidal nut

INKOMA-hexagon trapezoidal nut for extremely compact connection of the spindle to the moving load element.

Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X		



Ordering example:

Hexagon trapezoidal nut
Screw jack - size 5

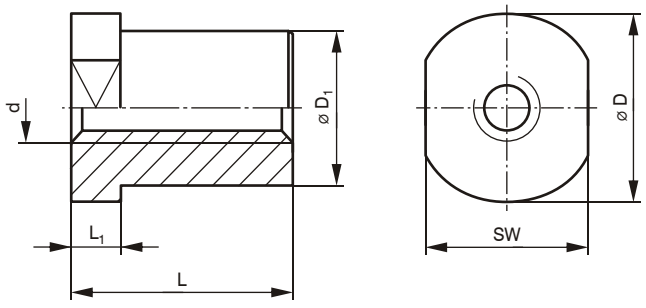
ST - 5

FMF - Flange nut with flats

INKOMA-flange nut with flats as a simple version to mount the HSGK screw jack.

Accessories in standard design for:

HSG	KSH	HSGK	DSH
		X	



Ordering example:

Flange nut with flats
Screw jack HSGK
Size 5

FMF - HSGK - 5

Order code	for screw jack	Dimensions [mm]			Material	Mass [kg]
		d	D	L		
TM-0	HSG-0	Tr 16x4	36	32	Bz 12	0,25
TM-1	HSG-1	Tr 18x4	40	36	Bz 12	0,34
TM-2	HSG-2	Tr 20x4	45	40	Bz 12	0,48
TM-3	HSG-3	Tr 30x6	60	60	Bz 12	1,20
TM-4	HSG-4	Tr 40x7	80	80	Bz 12	2,80
TM-5	HSG-5	Tr 60x9	100	120	Bz 12	5,70
TM-200	HSG-200	Tr 70x10	110	130	Bz 12	7,09
TM-300	HSG-300	Tr 90x12	135	140	Bz 12	12,30
TM-400	HSG-400	Tr 100x12	155	150	Bz 12	15,20
TM-500	HSG-500	Tr 120x14	165	160	Bz 12	24,80
TM-KSH-1	KSH-1	Tr 24x5	60	60	Bz 12	1,25
TM-KSH-2	KSH-2	Tr 40x7	80	80	Bz 12	2,80
TM-KSH-3	KSH-3	Tr 60x9	100	120	Bz 12	5,70

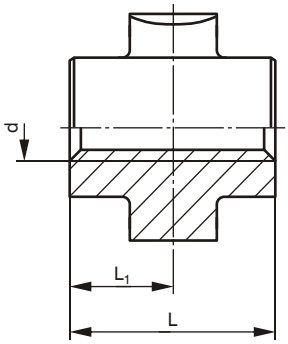
Order code	for screw jack	Dimensions [mm]			Material	Mass [kg]
		d	L	SW		
ST-0	HSG-0	Tr 16x4	24	27	C 45	0,08
ST-1	HSG-1	Tr 18x4	27	27	C 45	0,10
ST-2	HSG-2	Tr 20x4	30	30	C 45	0,15
ST-3	HSG-3	Tr 30x6	45	46	C 45	0,40
ST-4	HSG-4	Tr 40x7	60	65	C 45	1,10
ST-5	HSG-5	Tr 60x9	90	90	C 45	3,10
ST-200	HSG-200	Tr 70x10	100	100	C 45	6,05
ST-KSH-1	KSH-1	Tr 24x5	45	46	C 45	0,50
ST-KSH-2	KSH-2	Tr 40x7	60	65	C 45	1,10
ST-KSH-3	KSH-3	Tr 60x9	90	90	C 45	3,10

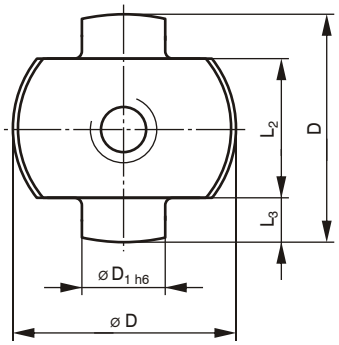
Order code	for screw jack	Dimensions [mm]						Material	Mass [kg]
		d	D	D_1	L	L_1	SW		
FMF-HSGK-3	HSGK-3	Tr 40x8	87	70	80	18	75	Bz 12	2,28
FMF-HSGK-4	HSGK-4	Tr 50x9	105	80	100	22	85	Bz 12	3,55
FMF-HSGK-5	HSGK-5	Tr 60x12	110	90	130	30	95	Bz 12	5,35
FMF-HSGK-6	HSGK-6	Tr 70x12	120	90	130	30	100	Bz 12	4,66
FMF-HSGK-7	HSGK-7	Tr 100x16	190	150	160	45	160	Bz 12	19,0
FMF-HSGK-8	HSGK-8	Tr 120x16	225	160	180	50	180	Bz 12	23,0
FMF-HSGK-9	HSGK-9	Tr 160x20	on request						

Accessories for rotating spindle version R

FMZ - Self-aligning travelling nut

INKOMA-self-aligning traveling nut with pivot mounting.





Accessories in standard design for:

HSG	KSH	HSGK	DSH
		X	

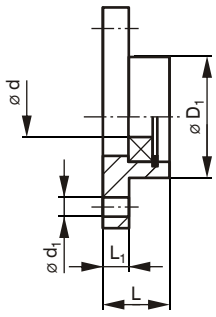
Ordering example:

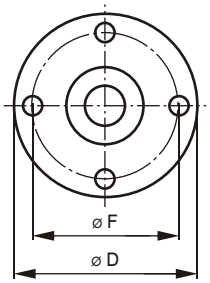
Self-aligning travelling nut
Screw jack HSGK
Size 5

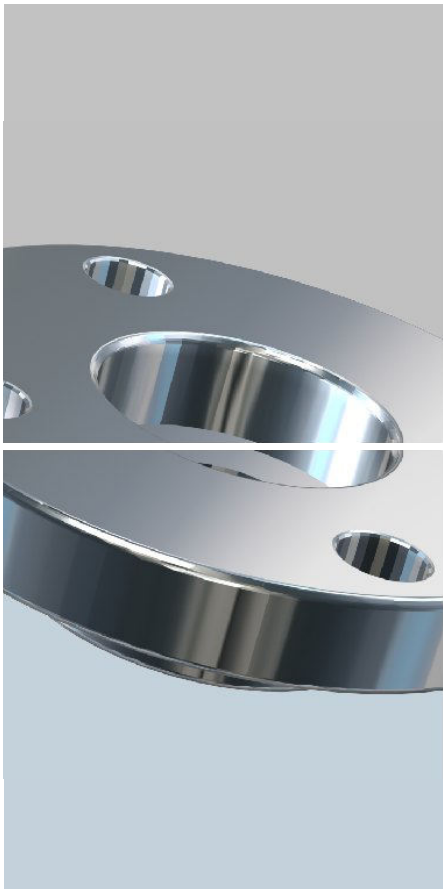
FMZ - HSGK - 5

GL - Bearing plate

INKOMA-bearing plate provides precise location and support for the free end of rotating spindles.







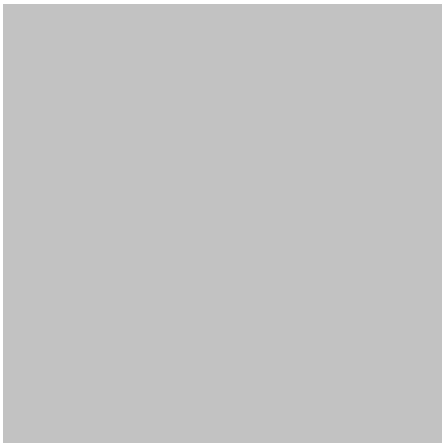
Accessories in standard design for:

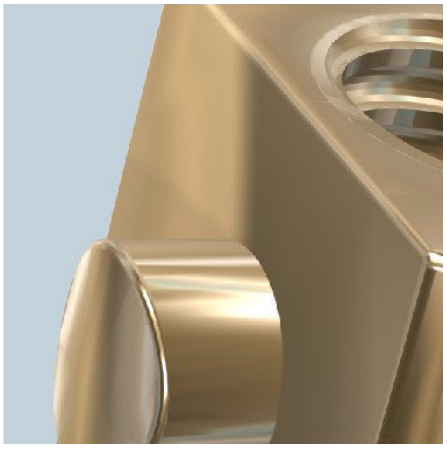
HSG	KSH	HSGK	DSH
X	X	X	X

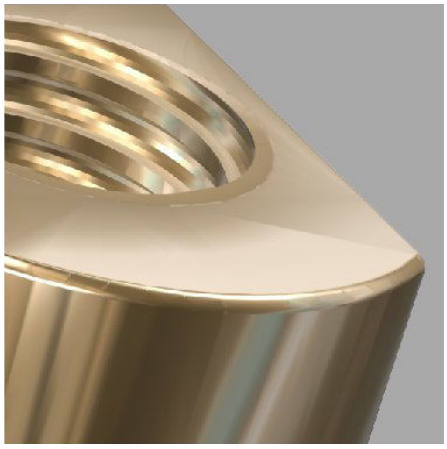
Ordering example:

Bearing plate
Screw jack - size 5

GL - 5







Order code	for screw jack	Dimensions [mm]							Material	Mass [kg]
		d	D	D_1	L	L_1	L_2	L_3		
FMZ-HSGK-3	HSGK-3	Tr 40x8	80	25	60	30	50	15	Bz 12	1,56
FMZ-HSGK-4	HSGK-4	Tr 50x9	95	35	70	35	62	16,5	Bz 12	2,62
FMZ-HSGK-5	HSGK-5	Tr 60x12	130	50	120	60	80	25	Bz 12	8,70
FMZ-HSGK-6	HSGK-6	Tr 70x12	150	65	120	60	92	29	Bz 12	11,87
FMZ-HSGK-7	HSGK-7	on request								
FMZ-HSGK-8	HSGK-8	on request								

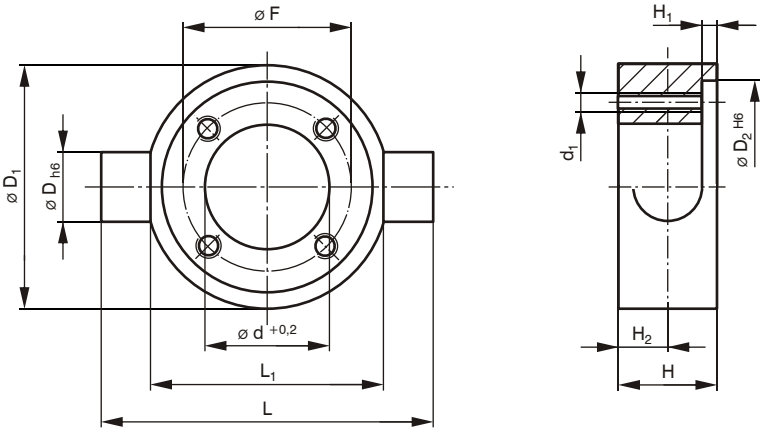
Order code	for screw jack	Dimensions [mm]							Material	Mass [kg]
		d	d_1	D	D_1	F	L	L_1		
GL-0	HSG-0	10	5	50	26	40	16	6	C 45	0,20
GL-1	HSG-1	12	9	65	29	48	20	7	C 45	0,26
GL-2	HSG-2 | DSH-1 | DSH-2	15	11	80	39	60	21	8	C 45	0,32
GL-3	HSG-3 | DSH-3	20	11	90	46	67	23	10	C 45	0,61
GL-4	HSG-4 | DSH-4	25	13	110	60	85	30	15	C 45	1,20
GL-5	HSG-5 | HSGK-4 | HSGK-5 | DSH-5	40	17	150	85	117	50	20	C 45	4,80
GL-200	HSG-200	55	25	200	105	155	60	30	C 45	7,70
GL-300	HSG-300	70	26	250	140	200	80	34	C 45	9,80
GL-400	HSG-400 | HSGK-7	80	33	280	155	220	100	37	C 45	12,90
GL-500	HSG-500 | HSGK-8	95	39	310	170	240	120	40	C 45	15,10
GL-KSH-1	KSH-1	17	11	90	46	67	24	10	C 45	0,64
GL-KSH-2	KSH-2	25	13	110	60	85	30	15	C 45	1,20
GL-KSH-3	KSH-3	45	17	150	85	117	50	20	C 45	4,80
GL-HSGK-3	HSGK-3	30	11	110	64	85	40	10	C 45	0,93
GL-HSGK-6	HSGK-6	50	25	200	105	155	60	30	C 45	7,15
GL-HSGK-9	HSGK-9	on request								

Accessories for rotating spindle version R

SL - Self aligning nut adaptor

INKOMA-self aligning nut adaptor allows an articulating connection between a flanged nut (FM or SFM), or a duplex nut (DFM).

See page 214 for suitable bearing blocks (LB) and bearing flange (LF).



Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X	X	

Ordering example:

Self aligning nut adaptor

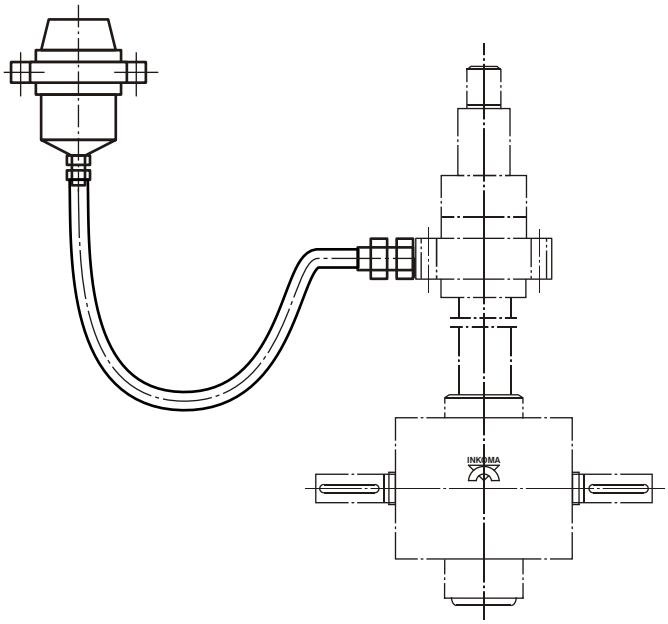
Screw jack - size 5

SL - 5

Automatic lubrication device

This electronically controlled lubrication device permits continuous lubrication to the trapezoidal spindle or ball screw.
Normally Klueber grease (Microlube GB 0).

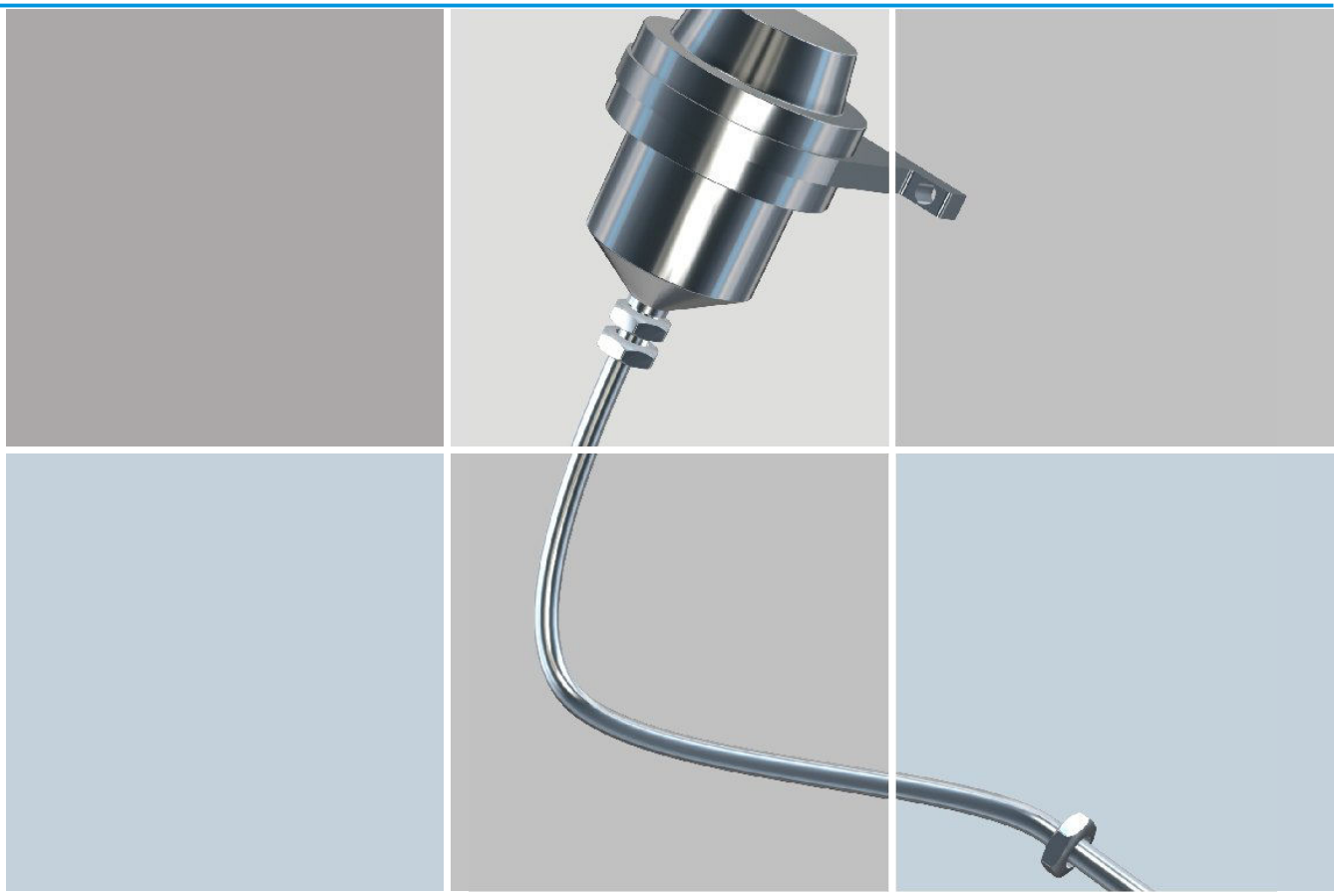
Advantage:
- automatic lubricant supply for up to 2 years
- lubrication period infinitely adjustable
- precise adjustment of the amount of lubricant
- always the same delivery pressure
- weather tight, water resistant, rust proof
- usable in the temperature range -40°C to +65°C
- explosion proof to PTB and BVS
- can be mounted in any attitude
- re-fillable
- environmentally friendly
- two sizes: 125 cm³ and 475 cm³



Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X	X	X

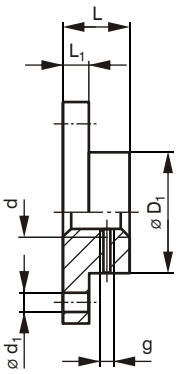
Order code	for screw jack	Dimensions [mm]											Mass
		d	d_1	D	D_1	D_2	F	H	H_1	H_2	L	L_1	[kg]
SL-0	HSG-0	26	M6	12	58	48	38	19	3	8	83	53	0,30
SL-1	HSG-1	30	M8	15	73	65	48	23	3	10	100	70	0,55
SL-2	HSG-2	35	M10	20	88	75	55	28	3	12,5	122	82	0,90
SL-3	HSG-3 | KSH-1	45	M10	25	103	85	65	35	5	15	138	98	1,75
SL-4	HSG-4 | HSGK-3 | KSH-2	55	M12	35	128	100	78	40	5	20	176	116	2,45
SL-5	HSG-5 | HSGK-5 | KSH-3	75	M16	45	156	135	105	55	5	25	218	148	3,95
SL-200	HSG-200 | HSGK-6	95	M20	70	208	180	140	85	10	40	282	192	21,20
SL-300	HSG-300	130	M24	80	248	225	180	95	10	45	334	234	40,50
SL-400	HSG-400 | HSGK-7	140	M30	80	288	260	200	95	10	45	405	275	58,90
SL-500	HSG-500 | HSGK-8	160	M36	90	328	300	230	105	10	50	474	314	72,50
SL-HSGK-4	HSGK-4	65	M16	35	146	125	95	45	5	20	198	138	4,20
SL-HSGK-9	HSGK-9	on request											

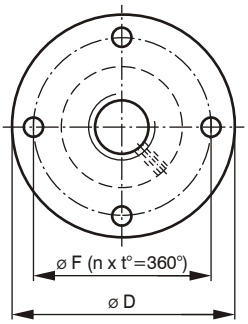


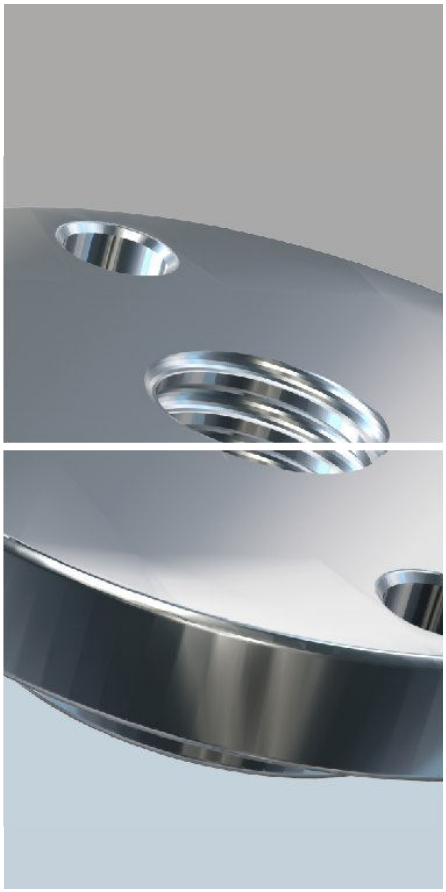
Accessories for translating spindle versions S, SA, SV, SVA

BF - Mounting flange

INKOMA-mounting flange is suitable for normal connection of the spindle to the moving element.







Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X	X	X

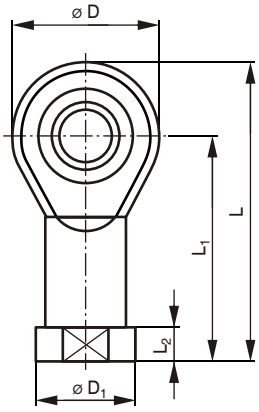
Ordering example:

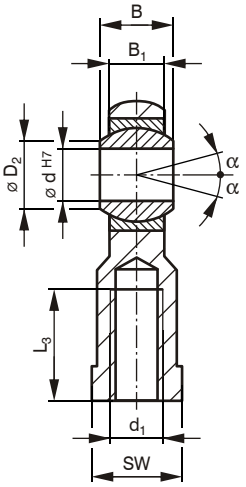
Mounting flange
Screw jack - size 5

BF - 5

GSK - Rod end bearing

INKOMA-rod end bearing to DIN 684 allows an articulating connection of the spindle end to the moving element. The ball joint allows for the compensation of two dimensional angular discrepancies.
The rod end bearing should only be used with models SV or SVA.





Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X	X	X

Ordering example:

Rod end bearing
Screw jack - size 5

GSK - 5

Order code	for screw jacks	Dimensions [mm]								Number	Hole pitch	Mass
		d	d_1	g	D	D_1	F	L	L_1	n [-]	t [°]	[kg]
BF-0	HSG-0	M10	6,6	M4	48	26	38	16	5	4	90	0,15
BF-1	HSG-1	M12	9	M5	65	30	48	20	7	4	90	0,20
BF-2	HSG-2 | DSH-1 | DSH-2	M14	11	M5	80	39	60	21	8	4	90	0,30
BF-3	HSG-3 | DSH-3	M20	11	M5	90	46	67	23	10	4	90	0,60
BF-4	HSG-4	M30	13	M6	110	60	85	30	15	4	90	1,20
BF-5	HSG-5 | DSH-4 | DSH-5	M36	17	M10	150	85	117	50	20	4	90	4,80
BF-200	HSG-200	M56x2	25	M12	200	105	155	60	30	4	90	7,70
BF-300	HSG-300	M70x1,5	26	M12	250	140	200	80	34	4	90	17,30
BF-400	HSG-400	M80x2	33	M12	280	155	220	100	37	4	90	25,20
BF-500	HSG-500	M100x3	39	M12	310	170	240	120	40	4	90	29,60
BF-KSH-1	KSH-1	M18	11	M5	90	46	67	23	10	4	90	0,65
BF-KSH-2	KSH-2	M30	13	M6	110	60	85	30	15	4	90	1,20
BF-KSH-3	KSH-3	M48x2	17	M10	150	85	117	50	20	4	90	4,40
BF-HSGK-3	HSGK-3	M20x1,5	14	M6	92	35	65	30	12	4	90	0,64
BF-HSGK-4	HSGK-4	M30x2	18	M6	122	50	85	40	18	4	90	1,64
BF-HSGK-5	HSGK-5	M42x3	22	M10	150	65	105	50	20	4	90	2,81
BF-HSGK-6	HSGK-6	M56x3	26	M12	182	85	135	55	25	6	60	5,02
BF-HSGK-7	HSGK-7	M80x3	30	M12	222	115	170	80	30	8	45	8,85
BF-HSGK-8	HSGK-8	M100x4	33	M12	262	140	205	100	35	8	45	14,9
BF-HSGK-9	HSGK-9	M140x4	45	M12	352	185	270	120	50	8	45	39,8

Order code	for screw jacks	Dimensions [mm]												α	Load rating	Mass
		d	d_1	B	B_1	D	D_1	D_2	L	L_1	L_2	L_3	SW	[°]	C_o [kN]	[kg]
GSK-0	HSG-0	10	M10	14	10,5	28	19	12,9	57	43	6,5	20	17	13	11,0	0,076
GSK-1	HSG-1	12	M12	16	12	32	22	15,4	66	50	6,5	22	19	13	14,0	0,115
GSK-2	HSG-2 | DSH-1 | DSH-2	14	M14	19	13,5	36	25	16,8	75	57	8	25	22	15	20,0	0,170
GSK-3	HSG-3 [1] | HSGK-3 | DSH-3 [1]	20	M20x1,5	25	18	50	34	24,3	102	77	10	33	32	15	35,0	0,415
GSK-4	HSG-4 [1] | HSGK-4	30	M30x2	37	25	70	50	34,8	145	110	15	51	41	15	86,0	1,130
GSK-5	HSG-5 [1] | HSGK-5 [2] DSH-4 [1] | DSH-5 [1]	35	M36x2	43	28	80	58	37,7	165	125	17	56	50	15	100,8	1,600
GSK-200	HSG-200 | HSGK-200 [2]	70	M56x4	49	42	160	98	92,0	280	200	20	80	85	6	610,0	8,400
GSK-KSH-1	KSH-1 [1]	18	M18x1,5	23	16,5	46	31	21,8	94	71	10	32	27	15	26,0	0,320
GSK-KSH-2	KSH-2 [1]	30	M30x2	37	25	70	50	34,8	145	110	15	51	41	15	86,0	1,130
GSK-KSH-3	KSH-3 [1]	35	M36x2	43	28	80	58	37,7	165	125	17	56	50	15	100,8	1,600

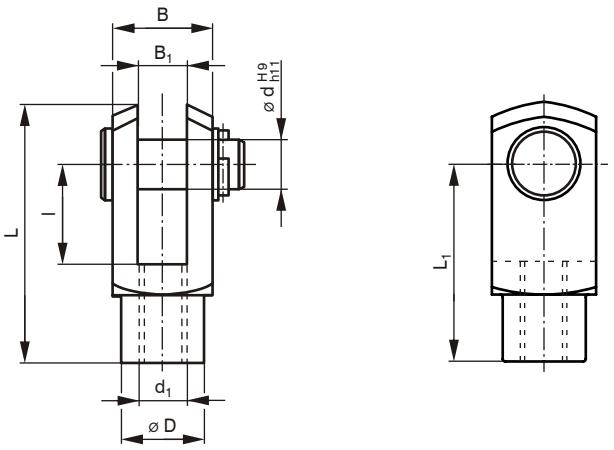
[1] Spindle end version with fine thread

[2] Spindle end version with GSK thread

Accessories for translating spindle versions S, SA, SV, SVA

GK - Clevis

INKOMA-clevis allows articulated connection of the spindle end to the moving load component. This option can be applied to all translating spindle versions of the screw jacks.



Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X	X	X

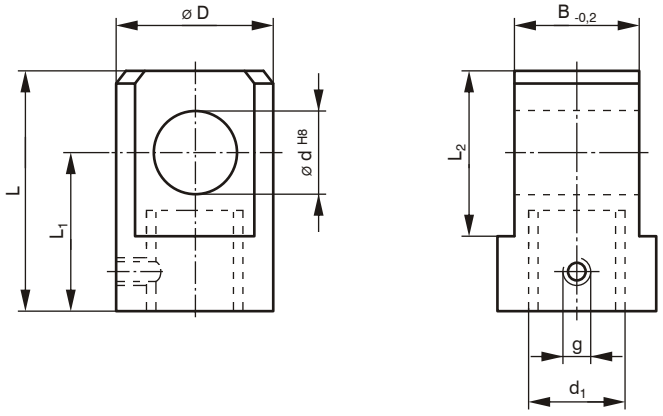
Ordering example:

Clevis
Screw jack - size 5

GK - 5

SE - Clevis attachment

INKOMA-clevis attachment allows articulated connection of the spindle end to the moving load component. This option can be applied to all translating spindle versions of the HSGK screw jacks.



Accessories in standard design for:

HSG	KSH	HSGK	DSH
		X	

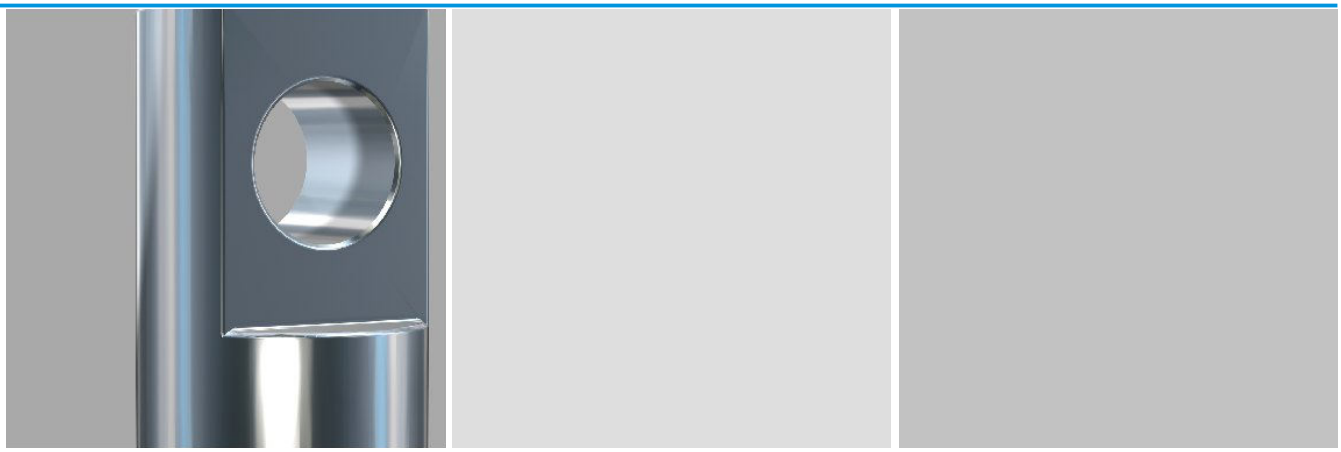
Ordering example:

Clevis attachment
Screw jack HSGK
Size 5

SE - HSGK - 5

Order code	for screw jack	Dimensions [mm]								Mass
		d	d_1	l	B	B_1	D	L	L_1	[kg]
GK-0	HSG-0	10	M10	20	20	10	18	52	40	0,07
GK-1	HSG-1	12	M12	24	24	12	20	62	48	0,12
GK-2	HSG-2 | DSH-1 | DSH-2	14	M14	28	27	14	24	72	56	0,18
GK-3	HSG-3 | HSGK-3 [1] | DSH-3	20	M20	40	40	20	34	105	80	0,55
GK-4	HSG-4 | HSGK-4 [1]	30	M30	60	60	30	52	160	120	1,97
GK-5	HSG-5 | HSGK-5 [1] | DSH-4 | DSH-5	35	M36	72	70	35	60	188	144	2,93
GK-KSH-1	KSH-1	18	M18	36	36	18	30	94	72	0,39
GK-KSH-2	KSH-2	30	M30	60	60	30	52	160	120	1,97
GK-KSH-3	KSH-3	50	M48x2	96	96	50	82	265	192	7,86

[1] Spindle end version with GK thread



Order code	for screw jack	Dimensions [mm]								Mass
		d	d_1	g	B	D	L	L_1	L_2	[kg]
SE-HSGK-3	HSGK-3	25	M20x1,5	M6	30	50	70	45	50	0,67
SE-HSGK-4	HSGK-4	35	M30x2	M6	40	65	100	65	70	1,58
SE-HSGK-5	HSGK-5	50	M42x3	M10	60	90	130	80	100	4,00
SE-HSGK-6	HSGK-6	60	M56x3	M12	75	110	150	90	120	6,9
SE-HSGK-7	HSGK-7	80	M80x3	M12	100	140	230	150	160	17,3
SE-HSGK-8	HSGK-8	100	M100x4	M12	120	170	300	200	200	33,3
SE-HSGK-9	HSGK-9	140	M140x4	M12	160	220	360	220	280	60

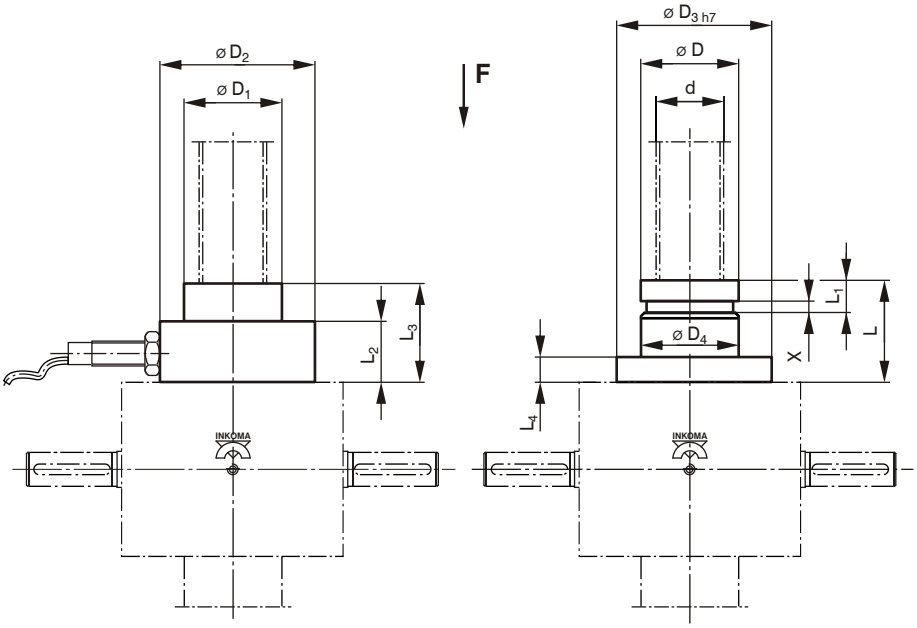
Accessories for translating spindle versions S, SA, SV, SVA

SFM-S - Safety nut

INKOMA-safety nut for translating spindle screw jacks type HSG provides wear inspection of the loaded nut thread. When $x_{min.}$ is reached the loaded nut must be changed.

Sensing using an inductive proximity device is possible (see page 208).

with inductive monitoring **visual inspection using gap "X"**



Accessories in standard design for:

HSG	KSH	HSGK	DSH
X			

Ordering example:

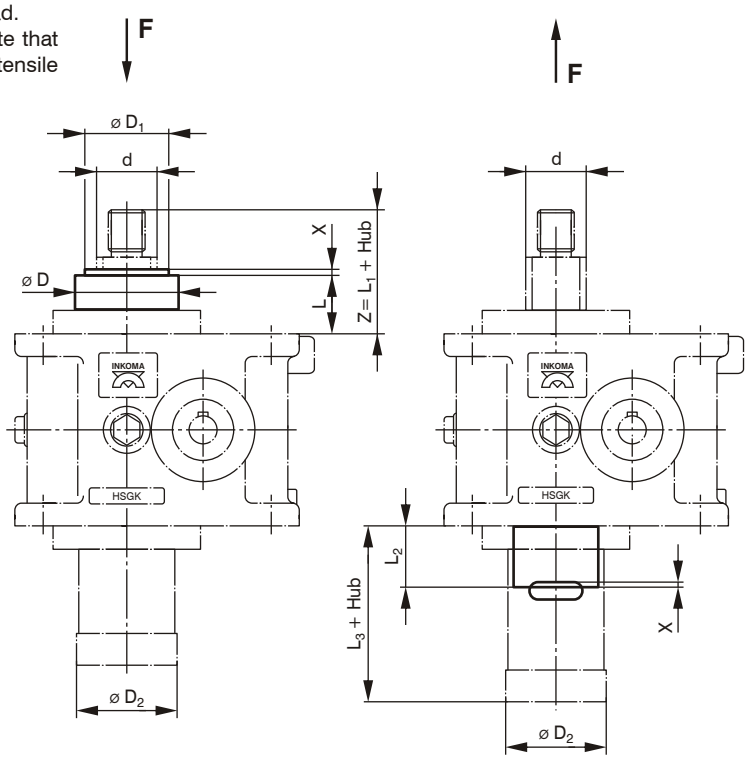
Safety nut-S

Screw jack - size 5

SFM-S - 5

SFM-S-HSGK - Safety nut short version

INKOMA-Safety nut short version for translating versions of screw jacks type HSGK allows wear monitoring of the loaded nut thread. The loaded nut should be replaced where "X=0". Please note that there is a difference between the versions for compressive and tensile strain.



Accessories in standard design for:

HSG	KSH	HSGK	DSH
		X	

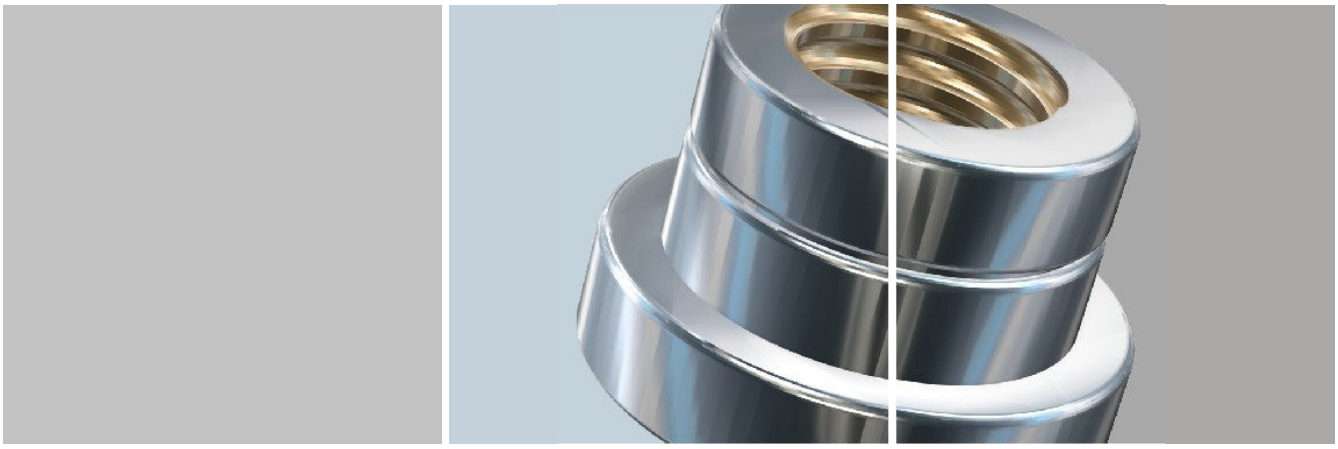
Ordering example:

Safety nut-short version-S

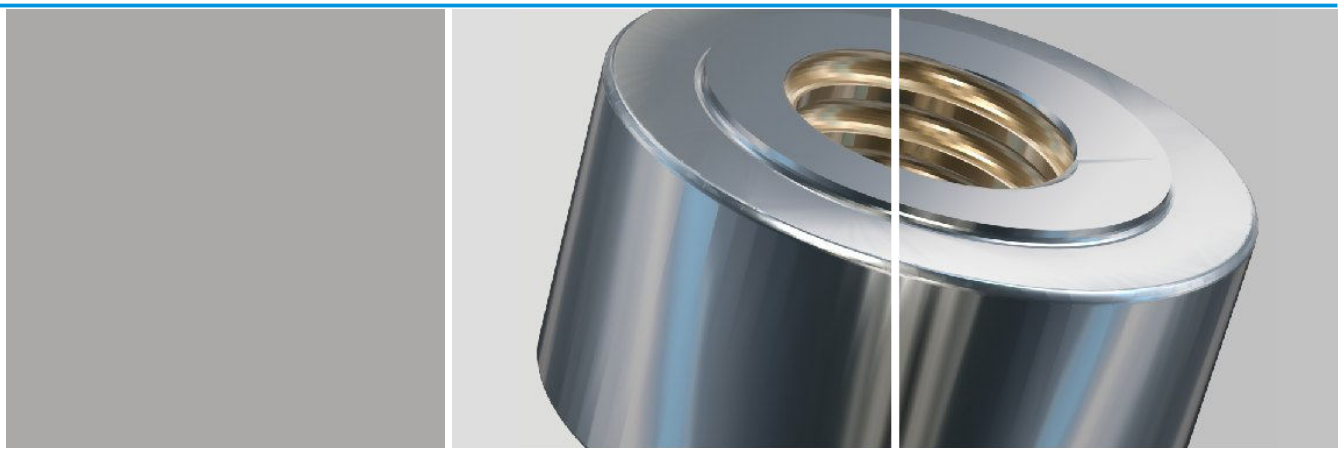
Screw jack HSGK

Size 5

SFM-S - HSGK - 5



Order code	for screw jack	Dimensions [mm]												
		d	D	D_1	D_2	D_3	D_4	L	L_1	L_2	L_3	L_4	X	$X_{min.}$
SFM-S-0	HSG-0	Tr16x4	29	-	-	-	26	22	10	-	-	-	2	1
SFM-S-1	HSG-1	Tr18x4	42	30	65	46	36	30	10	36	48	10	3	2
SFM-S-2	HSG-2	Tr20x4	42	39	62	-	46	26	10	33	46	-	3	1,5
SFM-S-3	HSG-3	Tr30x6	57	46	78	-	60	34	11	41	56	-	4	2
SFM-S-4	HSG-4	Tr40x7	58	85	95	75	60	49	17	43	63	17	3	1,3
SFM-S-5	HSG-5	Tr60x9	84	85	118	-	85	58	18	73	93	-	4	2



Order code	for screw jack	Dimensions [mm]								
		d	D	D_1	D_2	L	L_1	L_2	L_3	X new [1]
SFM-S-HSGK-3	HSGK-3	Tr 40x8	85	60	66	43	84	45	77	2
SFM-S-HSGK-4	HSGK-4	Tr 50x9	86	70	82	48	99	50	82	2,3
SFM-S-HSGK-5	HSGK-5	Tr 60x12	100	74	85	57	129	60	102	3
SFM-S-HSGK-6	HSGK-6	Tr 70x12	125	81	92	57	134	60	102	3
SFM-S-HSGK-7	HSGK-7	on request								
SFM-S-HSGK-8	HSGK-8	on request								
SFM-S-HSGK-9	HSGK-9	on request								

[1] From new; the loaded nut should be replaced where "X=0"

Accessories for translating spindle versions S, SA, SV, SVA

Limit switches can be built into the screw jack to control operation between fixed positions or to limit the travel distance.

Two standard options are available. Inductive proximity devices or electro-mechanical switches with roller followers.

Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X	X	

SR - Setting ring

INKOMA-setting ring fits to the spindle protection tube. Using the translating spindle version of the screw jack (versions SA and SVA) the limit switch is mounted in the centre of the setting ring on the protective tube. The switch will normally be orientated towards face D unless otherwise specified by the customer.

Ordering example:

Setting ring

Screw jack - size 5

SR - 5

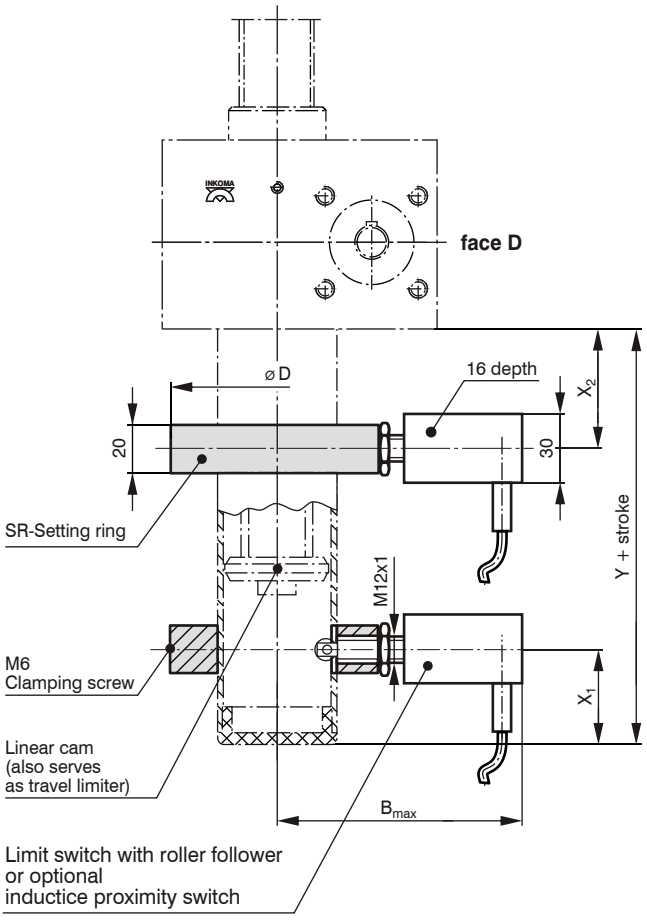
Limit switch with roller follower

INKOMA-limit switch with roller follower permits monitoring of the spindle position within the protection tube using a cam. The position of the limit switch is determined using the setting ring.

Operating cam 30°

Technical data:

Minimum operating stroke:	2,6 ± 0,5 mm
Tolerance of switching position:	0,85 ± 0,25 mm
Min. switching force:	1 N
Switching speed:	0,001 - 0,1 m/s
Protection:	IP 67
Connection:	5 core cable PVC insulated, length 1 m
Conductor cross section:	0,75 mm²
brown/blue:	closing
black/black:	opening
green/yellow:	earth conductor
Switching standard:	NFC 63140

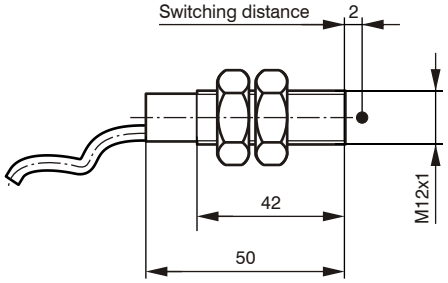


Inductive proximity switch

The inductive proximity switch is mounted in the centre of the setting ring, which is mounted onto the protective tube.

Technical data:

Voltage:	24V DC
Type:	switchable
Protection:	IP 68
Effective distance:	2 mm
Housing material:	brass
Connection:	2 core cable, length 2 m



Order code	for screw jack	Spindle	Dimensions [mm]				
			B_{max}	D	X_1	X_2	Y
SR-0	HSG-0	Tr 16x4	96	64	29	22	65
SR-1	HSG-1	Tr 18x4	99	70	29	22	65
SR-1 [1]	HSG-1	KGS 12x5	99	70	29	22	65
SR-2	HSG-2	Tr 20x4	104	80	27	26	65
SR-2 [1]	HSG-2	KGS 16x5	104	80	27	26	65
SR-3	HSG-3	Tr 30x6	105	90	28	33	75
SR-3 [1]	HSG-3	KGS 25x5	105	90	28	33	75
SR-3 [1]	HSG-3	KGS 25x10	105	90	28	33	75
SR-4	HSG-4	Tr 40x7	113	102	24	43	80
SR-4 [1]	HSG-4	KGS 32x5	113	102	29	43	85
SR-4 [1]	HSG-4	KGS 32x10	113	102	29	43	85
SR-5	HSG-5	Tr 60x9	125	126	38	50	110
SR-5 [1]	HSG-5	KGS 40x5	125	126	48	50	120
SR-5 [1]	HSG-5	KGS 40x10	125	126	48	50	120
SR-5 [1]	HSG-5	KGS 50x5	125	126	48	50	120
SR-5 [1]	HSG-5	KGS 50x10	125	126	48	50	120
SR-200	HSG-200	Tr 70x10	135	146	43	51	115
SR-300	HSG-300	Tr 90x12	155	186	52	61	135
SR-400	HSG-400	Tr 100x12	160	196	57	61	140
SR-500	HSG-500	Tr 120x14	170	216	60	73	155
SR-KSH-1	KSH-1	Tr 24x5	104	80	27	33	72
SR-KSH-1 [1]	KSH-1	KGS 25x5	104	80	26	33	70
SR-KSH-1 [1]	KSH-1	KGS 25x10	104	80	29	41	78
SR-KSH-2	KSH-2	Tr 40x7	113	102	24	43	80
SR-KSH-2 [1]	KSH-2	KGS 40x5	113	102	34	43	90
SR-KSH-2 [1]	KSH-2	KGS 32x10	113	102	44	43	100
SR-KSH-2 [1]	KSH-2	KGS 32x20	113	102	46	51	110
SR-KSH-3	KSH-3	Tr 60x9	125	146	38	50	110
SR-KSH-3 [1]	KSH-3	KGS 63x10	125	146	58	50	130
SR-KSH-3 [1]	KSH-3	KGS 63x20	125	146	58	59	139
SR-4 [2]	HSGK-3	Tr 40x8	115	102	60	61	135
SR-HSGK-4 [2]	HSGK-4	Tr 50x9	125	117	54	67	135
SR-HSGK-5 [2]	HSGK-5	Tr 60x12	125	122	55	81	158
SR-HSGK-6 [2]	HSGK-6	Tr 70x12	130	127	58	102	190
SR-HSGK-7 [2]	HSGK-7	Tr 100x16	145	167	68	112	212
SR-HSGK-8 [2]	HSGK-8	Tr 120x16	on request				
SR-HSGK-9 [2]	HSGK-9	Tr 160x20	on request				

[1] **Only applicable to translating spindle version SA. Please enquire for translating spindle version SVA.**
[2] **Dimensions valid for version SA with HFS**

Stroke measurement options

Order code	Available methods of measurement	Measuring position
Position indicator	Digital indicator (mechanical)	Input shaft
	Digital indicator (electronic)	Spindle axis (rotating spindle versions only)
Wire driven	Digital indicator (mechanical)	Parallel to spindle axis
	Potentiometer	
	Incremental encoder	
	Absolute encoder	
Encoder	Incremental encoder	Input shaft
	Absolute encoder	Spindle axis (rotating spindle versions only)
Magnetic	Comprises magnetic sensor, magnetic strip, translating	Parallel to spindle axis
strip system	electronics or display	
Positioning system	Comprises a choice of stroke measurement systems producing	
	compatible electronic signals or programmable positional control	

Accessories for all versions

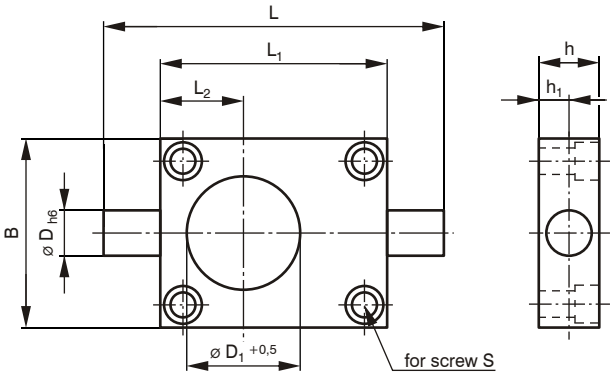
KA - Trunnion adaptor

INKOMA-trunnion adaptor for articulating mounting of the screw jacks type HSG and KSH. Trunnion axis at right angle to the worm shaft axis.
For suitable bearing blocks (LB) or bearing flanges (LF) see page 214.

Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X		

KA-Trunnion adaptor for HSGK see page 212
KA-Trunnion adaptor for DSH customised solutions upon request.



Ordering example:

Trunnion adaptor
Screw jack - size 5

KA - 5

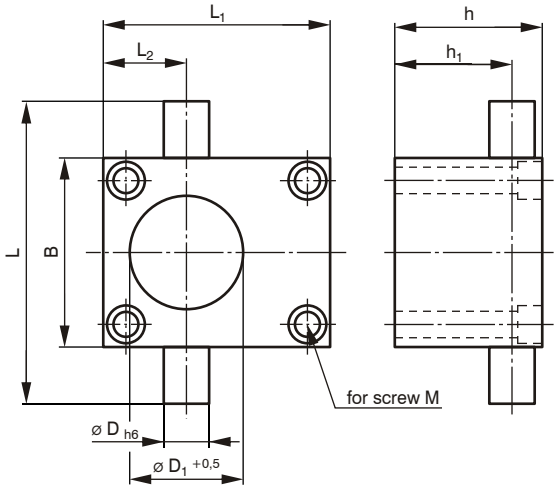
KAS - Trunnion adaptor

INKOMA-trunnion adaptor for articulating mounting of the screw jack type HSG. Trunnion axis parallel to the worm shaft axis.
For suitable bearing blocks (LB) or bearing flanges (LF) see page 214.

Accessories in standard design for:

HSG	KSH	HSGK	DSH
X			

KAS-Trunnion adaptor for HSGK see page 212



Ordering example:

Trunnion adaptor
Screw jack - size 5

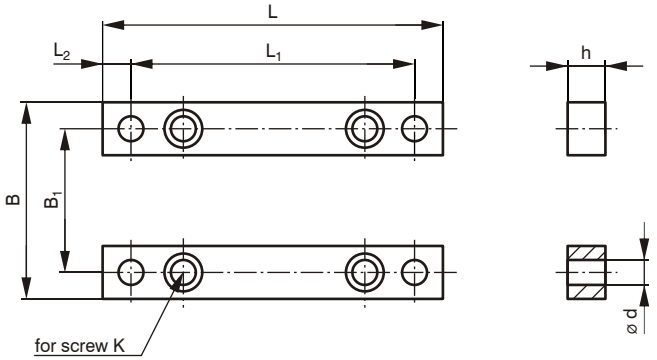
KAS - 5

BP - Mounting feet

INKOMA-mounting feet allow an alternative fixing method for the screw jacks type HSG and KSH.

Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X		



Ordering example:

Mounting feet
Screw jack - size 5

BP - 5

Order code	for screw jack	Dimensions [mm]								Screws [1]		Mass
		h	h_1	B	D	D_1	L	L_1	L_2	S DIN 912	S DIN 6912	[kg]
KA-0	HSG-0	16	8	50	12	30	90	60	22	M6x16	-	0,54
KA-1	HSG-1	20	10	72	15	34	110	80	31	M8x20	-	0,76
KA-2	HSG-2	25	12,5	85	20	43	140	100	40	M8x30	-	1,44
KA-3	HSG-3	30	15	105	25	51	170	130	54	M10x30	-	2,80
KA-4	HSG-4	40	20	145	35	66	240	180	78	M12x45	-	7,40
KA-5	HSG-5	50	25	165	45	91	270	200	83	M20x55	-	10,72
KA-200	HSG-200	80	40	220	70	126	330	240	100	M30x80	-	26,10
KA-300	HSG-300	90	45	250	80	151	385	285	125	M36x100	-	46,30
KA-400	HSG-400	90	45	300	80	161	465	335	140	M36x100	-	67,10
KA-500	HSG-500	100	50	330	90	181	520	360	150	M42x110	-	88,90
KA-KSH-1	KSH-1	39	16	95	25	50	180	140	70	-	M10x45	3,40
KA-KSH-2	KSH-2	60	41	140	35	66	200	140	70	M12x65	-	8,20
KA-KSH-3	KSH-3	78	53	230	45	96	300	230	115	M20x80	-	12,40

[1] DIN-parts are not included

Order code	for screw jack	Dimensions [mm]								Screws [1]	Mass
		D	D_1	L	L_1	L_2	B	h	h_1	M DIN 912	[kg]
KAS-0	HSG-0	12	30	80	60	22	50	39	31	M6x40	1,30
KAS-1	HSG-1	15	34	102	80	31	72	45	35	M8x45	1,70
KAS-2	HSG-2	20	43	125	100	40	85	50	37,5	M8x55	2,80
KAS-3	HSG-3	25	51	145	130	54	105	62	47	M10x65	5,70
KAS-4	HSG-4	35	66	205	180	78	145	66	46	M12x65	12,20
KAS-5	HSG-5	45	91	235	200	83	165	73	48	M20x80	21,00
KAS-200	HSG-200	70	126	310	240	100	220	80	40	M30x80	26,10
KAS-300	HSG-300	80	151	350	285	125	250	90	45	M36x100	46,30
KAS-400	HSG-400	80	161	430	335	140	300	90	45	M36x100	67,10
KAS-500	HSG-500	90	181	490	360	150	330	100	50	M42x110	88,90

[1] DIN-parts are not included

Order code	for screw jack	Dimensions [mm]								Screws [1]			Mass
		d	h	B	B_1	B_2	L	L_1	L_2	K DIN 912	K DIN 7984	K DIN 6912	[kg]
BP-0	HSG-0	6,6	10	52	38	14	90	75	7,5	M6x12	-	-	0,18
BP-1	HSG-1	8,5	10	72	52	20	120	100	10	-	M8x12	-	0,30
BP-2	HSG-2	8,5	10	85	63	20	140	120	10	-	M8x16	-	0,40
BP-3	HSG-3	11,0	12	105	81	25	170	150	10	-	M10x16	-	0,80
BP-4	HSG-4	13,5	16	145	115	30	230	204	13	-	M12x25	-	1,70
BP-5	HSG-5	22,0	25	171	131	40	270	236	17	-	M20x40	-	3,90
BP-200	HSG-200	33,0	40	236	170	63	340	290	25	-	-	M30x55	12,40
BP-300	HSG-300	39,0	50	270	190	80	410	350	30	M36x60	-	-	24,90
BP-400	HSG-400	39,0	50	320	240	80	460	400	30	M36x60	-	-	27,10
BP-500	HSG-500	45,0	63	360	260	100	500	430	35	M42x70	-	-	46,90
BP-KSH-1	KSH-1	11,0	12	97	72	25	130	110	10	-	M10x16	-	0,70
BP-KSH-2	KSH-2	13,5	16	143	113	30	190	166	12	-	M12x25	-	1,40
BP-KSH-3	KSH-3	22,0	25	220	180	40	310	270	20	-	M20x40	-	4,20

[1] DIN-parts are not included

Accessories for all versions

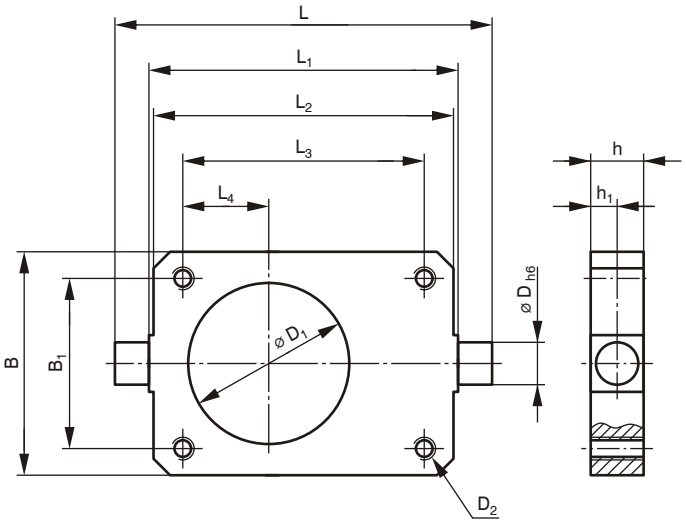
KA-HSGK - Trunnion adaptor

INKOMA-trunnion adaptor for articulating mounting of the screw jacks typ HSGK. Trunnion axis at right angle to the worm shaft axis.
For suitable bearing blocks (LB) or bearing flanges (LF) see page 214.

Accessories in standard design for:

HSG	KSH	HSGK	DSH
		X	

KA-Trunnion adaptor for HSG and KSH see page 210
KA-Trunnion adaptor for DSH customised solutions upon request.



Ordering example:

Trunnion adaptor
Screw jack HSGK
Size 5

KA - HSGK - 5

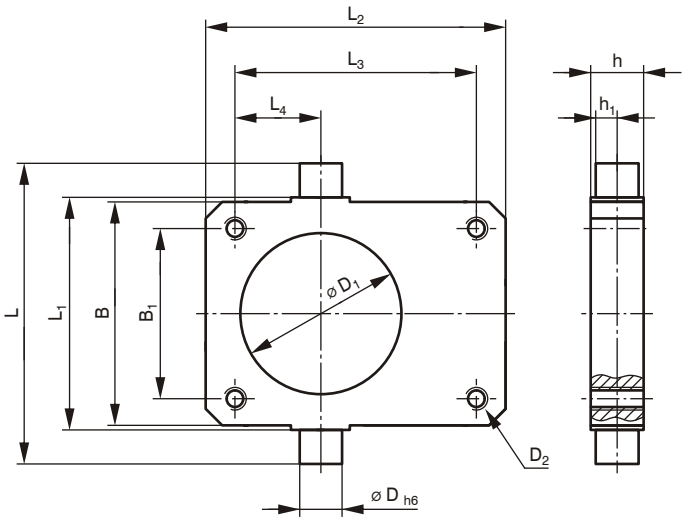
KAS-HSGK - Trunnion adaptor

INKOMA-trunnion adaptor for articulating mounting of the screw jack type HSGK. Trunnion axis parallel to the worm shaft axis.
For suitable bearing blocks (LB) or bearing flanges (LF) see page 214.

Accessories in standard design for:

HSG	KSH	HSGK	DSH
		X	

KAS-Trunnion adaptor for HSG see page 210



Ordering example:

Trunnion adaptor
Screw jack HSGK
Size 5

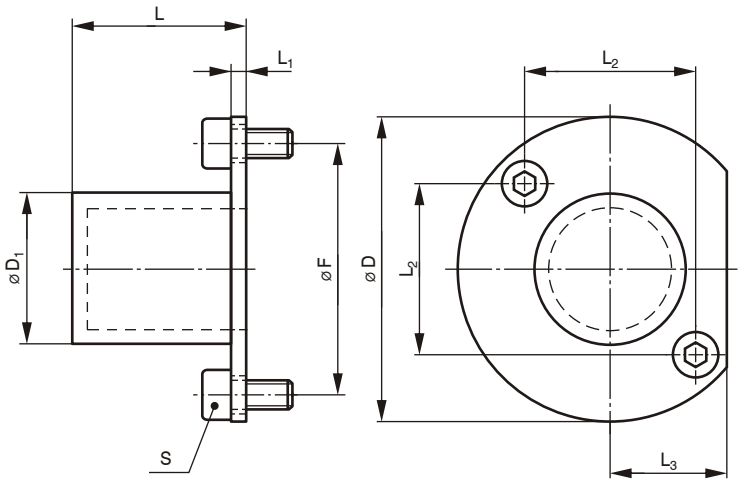
KAS - HSGK - 5

WA - Shaft cover

INKOMA-Shaft covers for protection of exposed shaft end.

Accessories in standard design for:

HSG	KSH	HSGK	DSH
X		X	



Ordering example:

Shaft cover
Size 5

WA - 5

Order code	for screw jack	Dimensions [mm]												Mass [kg]
		h	h_1	B	B_1	D	D_1	D_2	L	L_1	L_2	L_3	L_4	
KA-HSGK-3	HSGK-3	30	15	130	100	25	93	M12	220	180	175	140	50	3,6
KA-HSGK-4	HSGK-4	40	20	160	120	35	123	M16	300	240	235	190	70	7,8
KA-HSGK-5	HSGK-5	50	25	200	150	45	153	M18	350	280	275	220	75	14,2
KA-HSGK-6	HSGK-6	80	40	230	175	70	183	M24	425	335	330	270	87,5	28,5
KA-HSGK-7	HSGK-7	90	45	300	230	80	223	M36	545	415	410	330	110	57,4
KA-HSGK-8	HSGK-8	on request												
KA-HSGK-9	HSGK-9	on request												

Screws are not included

Order code	for screw jack	Dimensions [mm]												Mass [kg]
		h	h_1	B	B_1	D	D_1	D_2	L	L_1	L_2	L_3	L_4	
KAS-HSGK-3	HSGK-3	30	15	130	100	25	93	M12	175	135	175	140	50	3,8
KAS-HSGK-4	HSGK-4	40	20	160	120	35	123	M16	225	165	235	190	70	8,3
KAS-HSGK-5	HSGK-5	50	25	200	150	45	153	M18	275	205	275	220	75	14,8
KAS-HSGK-6	HSGK-6	80	40	230	175	70	183	M24	325	235	330	270	87,5	32,7
KAS-HSGK-7	HSGK-7	90	45	300	230	80	223	M36	435	305	410	330	110	61,6
KAS-HSGK-8	HSGK-8	on request												
KAS-HSGK-9	HSGK-9	on request												

Screws are not included

Order code	for screw jack	Dimensions [mm]							Screws S ISO 4762 (DIN 912)	Mass [kg]
		D	D_1	F [1]	L	L_1	L_2 [2]	L_3 [2]		
WA-0	HSG-0	46	20	-	26	5,5	25	18	M5 / DIN 6912	0,04
WA-1	HSG-1	57	24	-	30	3	32	24	M5 / DIN 912	0,05
WA-2	HSG-2	64	30	-	33	4	35	28	M6 / DIN 912	0,07
WA-3	HSG-3	82	36	-	55	5	44	31	M8 / DIN 912	0,16
WA-4	HSG-4	96	41	-	56	5	55	39	M10 / DIN 912	0,23
WA-5	HSG-5	118	50	-	76	6	70	46	M12 / DIN 912	0,39
WA-200	HSG-200	138	55	-	76	10	80	60	M16 / DIN 6912	0,64
WA-HSGK-3	HSGK-3	60	30	50	35	3	-	-	2xM6	0,044
WA-HSGK-4	HSGK-4	85	42	70	43	3	-	-	2xM6	0,085
WA-HSGK-5	HSGK-5	95	50	85	65	3	-	-	2xM8	0,135
WA-HSGK-6	HSGK-6	126	56	110	66	4	-	-	2xM10	0,210
WA-HSGK-7	HSGK-7	on request								
WA-HSGK-8	HSGK-8	on request								
WA-HSGK-9	HSGK-9	on request								

[1] Dimensions for HSGK
[2] Dimensions for HSG

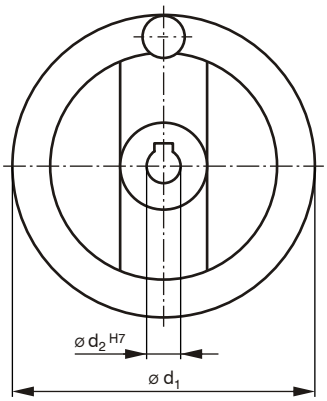
Accessories for all versions

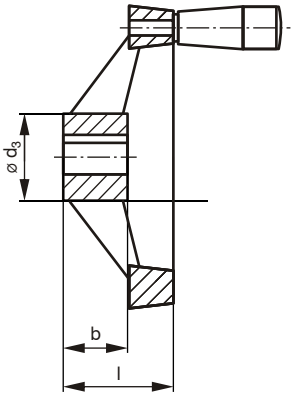
HR - Handwheel

INKOMA-plastic handwheels for screw jack operation with keyway to BS 4235 (DIN 6885/1) are also available with a folding handle.

Accessories in standard design for:

HSG	KSH	HSGK	DSH
X		X	





Ordering example:

Handwheel
Size 80
Bore

HR - 80 - 9

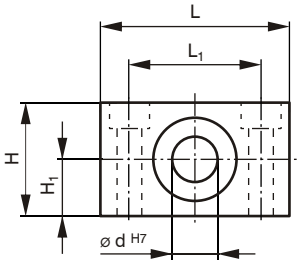
LB - Bearing block

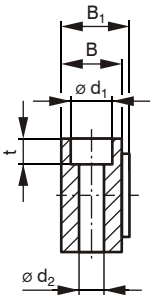
INKOMA-bearing block to support trunnion adaptors (see page 210-213) or a self aligning nut adaptor (see page 200).

Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X	X	

LB-Bearing block for DSH customised solutions upon request.





Ordering example:

Bearing block
Screw jack - size 5

LB - 5

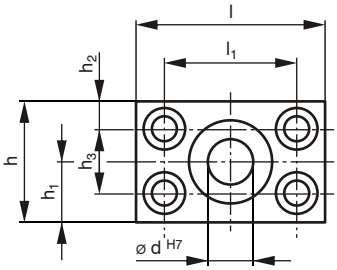
LF - Bearing flange

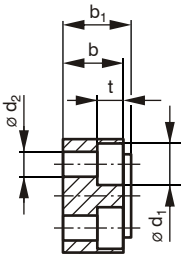
INKOMA-bearing flange to support trunnion adaptors (see page 210-213) or a self aligning nut adaptor (see page 200).

Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X	X	

LF-Bearing flange for DSH customised solutions upon request.





Ordering example:

Bearing flange
Screw jack - size 5

LF - 5

Order code	for screw jack	Dimensions [mm]					Mass [kg]
		b	d_1	d_2	d_3	l	
HR-80-9	HSG-0	17	80	9	23	35	0,18
HR-80-10	HSG-1	17	80	10	23	35	0,18
HR-100-10	HSG-1	17	100	10	25	37	0,25
HR-125-14	HSG-2	22	125	14	31	44	0,33
HR-160-14	HSG-2	27	160	14	40	51	0,55
HR-160-16	HSG-3 | HSGK-3	27	160	16	40	51	0,55
HR-200-16	HSG-3 | HSGK-3	34	200	16	50	61	1,10
HR-200-20	HSG-4	34	200	20	50	61	1,10
HR-250-20	HSG-4	38	250	20	59	70	1,40
HR-250-24	HSGK-4	38	250	24	59	70	1,40
HR-250-25	HSG-5	38	250	25	48	51	1,30

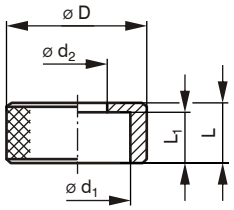
Order code	for screw jack	Dimensions [mm]										Mass [kg]
		d	d_1	d_2	t	B	B_1	H	H_1	L	L_1	
LB-0	HSG-0	12	11	6,6	6,8	16	18	30	15	50	35	0,18
LB-1	HSG-1	15	15	9	9	20	22	34	17	65	45	0,31
LB-2	HSG-2	20	15	9	9	20	22	38	19	70	50	0,40
LB-3	HSG-3 | KSH-1 | HSGK-3	25	18	11	11	20	22	54	27	80	58	0,62
LB-4	HSG-4 | KSH-2 | HSGK-4	35	20	13,5	13	30	32	70	35	100	70	1,55
LB-5	HSG-5 | KSH-3 | HSGK-5	45	33	22	21,5	40	42	80	40	140	100	3,05
LB-200	HSG-200| HSGK-6	70	48	33	32	63	64,5	124	62	220	160	10,50
LB-300	HSG-300| HSGK-7	80	57	39	38	63	64	144	72	245	180	13,20
LB-400	HSG-400	80	57	39	38	63	64	144	72	245	180	13,20
LB-500	HSG-500	90	66	45	44	80	82	160	80	280	200	18,40

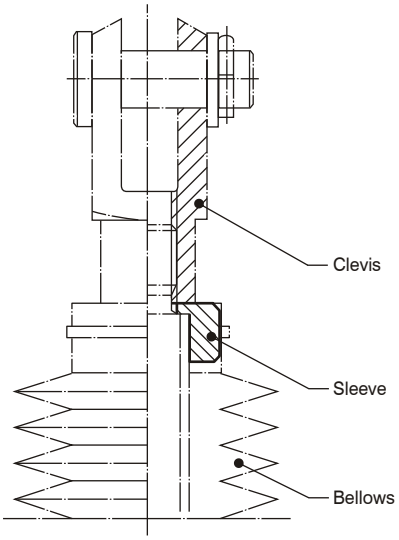
Order code	for screw jack	Dimensions [mm]												Mass [kg]
		b	b_1	d	d_1	d_2	h	h_1	h_2	h_3	l	l_1	t	
LF-0	HSG-0	15	16	12	11	6,6	32	16	7,5	17	50	35	6,8	0,19
LF-1	HSG-1	19	21	15	15	9	36	18	9	18	65	45	9	0,38
LF-2	HSG-2	19	21	20	15	9	40	20	10	20	70	50	9	0,47
LF-3	HSG-3 | KSH-1 | HSGK-3	19	21	25	18	11	54	27	12	30	80	58	11	0,61
LF-4	HSG-4 | KSH-2 | HSGK-4	30	32	35	20	13,5	70	35	15	40	100	70	13	1,51
LF-5	HSG-5 | KSH-3 | HSGK-5	39	41	45	33	22	80	40	20	40	140	100	21,5	3,20
LF-200	HSG-200| HSGK-6	49	51	70	48	33	125	62,5	30	65	220	160	32	10,70
LF-300	HSG-300| HSGK-7	62	66	80	57	39	144	72	34	76	245	180	38	12,80
LF-400	HSG-400	62	66	80	57	39	144	72	34	76	245	180	38	12,80
LF-500	HSG-500	80	82	90	66	45	160	80	40	80	280	200	44	17,80

Accessories for all versions

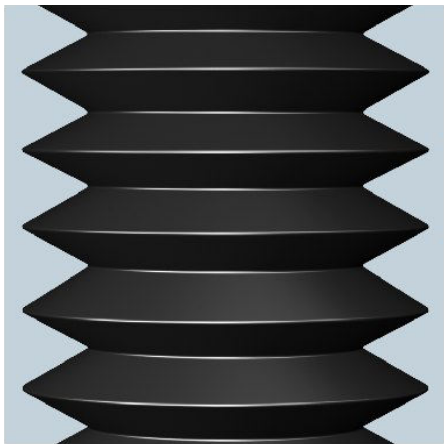
H - Mounting sleeve for folding bellows or heavy duty folding bellows

INKOMA-Mounting sleeve allows easy fitting of folding bellows or heavy duty folding bellows.









Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X	X	

Ordering example:

Mounting sleeve for folding bellows or heavy duty folding bellows

Screw jack - size 5

H - 5

FB - Folding bellows

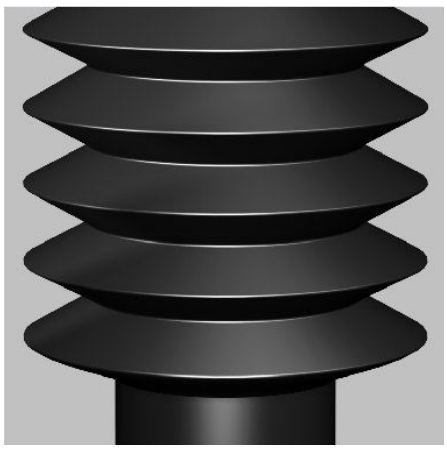
INKOMA-folding bellows provide protection for the spindle from dirt and other contamination .

Calculating the spindle length: The INKOMA-folding bellows are sized according to spindle length. The compressed length of the bellows must be allowed for, resulting in a longer spindle for a given stroke. The extended length L_{max} and the compressed length L_{min} in combination with the installed situation (horizontal, vertical) can be obtained from your local sales office.

Bellows venting: For high speed operation a valve allowing pressure relief in the bellows must be specified.

Material: resistant to mineral oil, temperature range -30°C to +80°C.

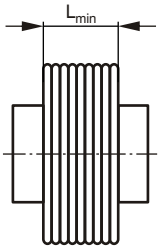
L_{min} = FB compressed to shortest length
L_{max} = FB extended to longest length (L_{min} + stroke)

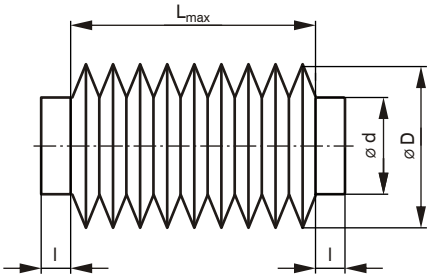


Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X		

FB-Folding bellows for DSH customised solutions upon request.
SB-Heavy duty folding bellows for HSGK see page 218





Ordering example:

Folding bellows

Screw jack - size 5

FB - 5

Order code [1]	for screw jack	Dimensions [mm]					Mass [kg]
		d_1	d_2	D	L	L_1	
H-0	HSG-0	17	10,5	26	10	8	
H-1	HSG-1	19	12,5	30	12	10	
H-2	HSG-2	21	14,5	39	15	13	
H-3	HSG-3	31	20,5	46	20	17	
H-4	HSG-4	41	30,5	60	25	22	
H-5	HSG-5	61	36,5	85	25	20	
H-200	HSG-200	71	56,5	120	25	20	
H-300	HSG-300	91	70,5	145	25	20	
H-400	HSG-400	101	80,5	155	25	20	
H-500	HSG-500	121	100,5	170	25	20	
H-KSH-1	KSH-1	26,5	18,5	39	20	17	
H-KSH-2	KSH-2	41	30,5	60	25	22	
H-KSH-3	KSH-3	61	48,5	85	25	20	
H-HSGK-3	HSGK-3	41	20,5	50	20	17	0,13
H-HSGK-4	HSGK-4	51	30,5	65	25	22	0,28
H-HSGK-5	HSGK-5	61	36,5	90	25	20	0,75
H-HSGK-6	HSGK-6	71	56,5	110	25	20	1,15
H-HSGK-7	HSGK-7	101	80,5	140	25	20	1,56
H-HSGK-8	HSGK-8	121	100,5	170	25	20	2,34
H-HSGK-9	HSGK-9	on request					

[1] Only applicable to trapezoidal spindles. Please enquire for ball screws.

Order code	for screw jack	Dimensions [mm]		
		d	l	D [1]
FB-0	HSG-0	25	26	49
FB-1	HSG-1	30	15	59
FB-2	HSG-2	39	10	77
FB-3	HSG-3	46	30	87
FB-4	HSG-4	60	20	114
FB-5	HSG-5	85	25	119
FB-200	HSG-200	120	25	184
FB-300	HSG-300	140	13	176
FB-400	HSG-400	160	20	195
FB-500	HSG-500	170	30	210
FB-KSH-1	KSH-1	39	10	77
FB-KSH-2	KSH-2	60	20	115
FB-KSH-3	KSH-3	90	40	168

[1] Only applicable to trapezoidal spindles. Please enquire for ball screws.

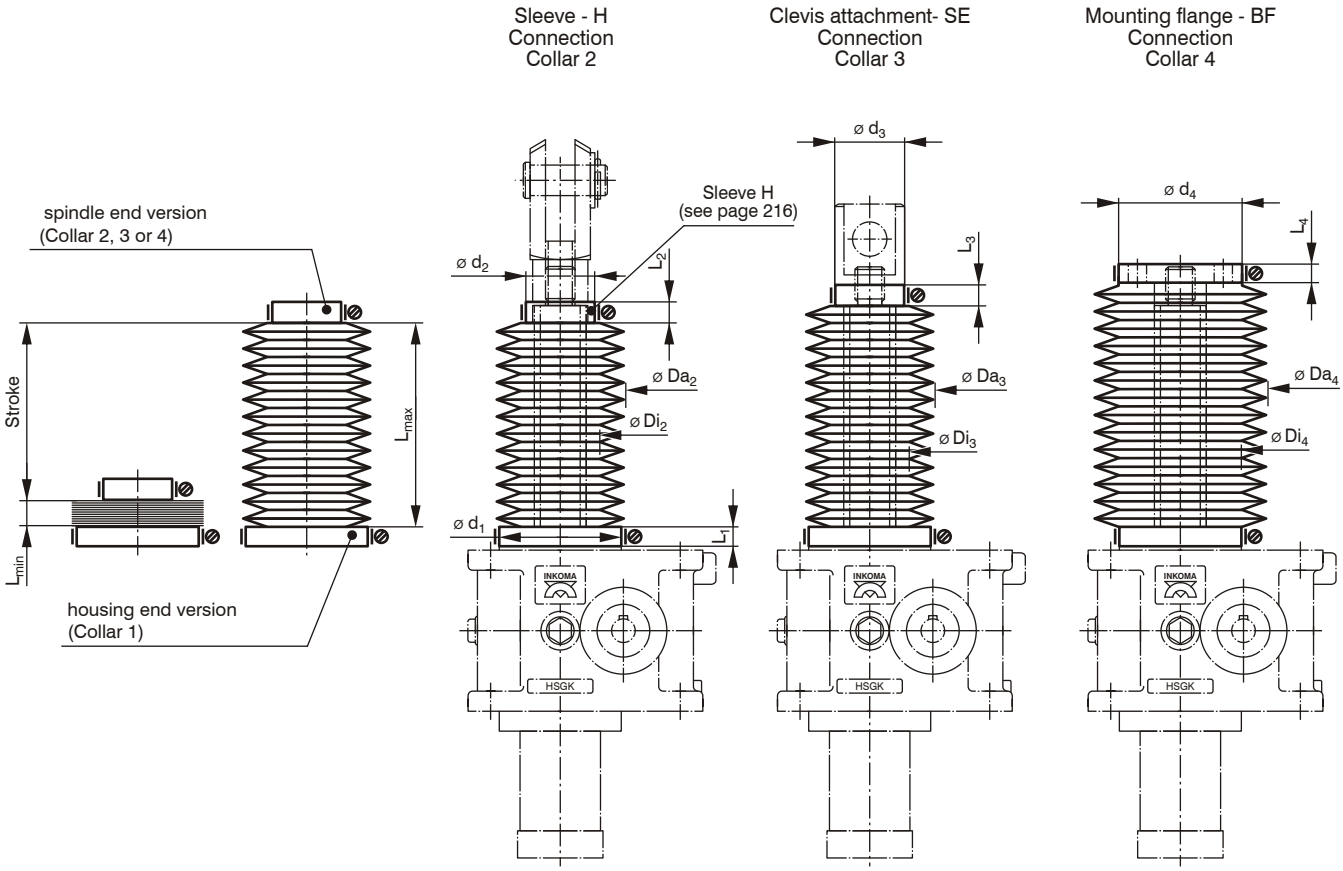
Accessories for all versions

SB - Heavy duty folding bellows

INKOMA-Heavy duty folding bellows provide protection for the spindle from dirt and other contamination .

Calculating the spindle length:
The Heavy duty folding bellows are sized according to spindle length. The compressed length L_{min} of the bellows must be allowed for, resulting in a longer spindle for a given stroke. The extended length L_{max} and the compressed length L_{min} in combination with the installed situation (horizontal, vertical) can be obtained from your local sales office.

Folding bellows venting:
A valve allowing pressure relief whilst in high speed operation must be fitted to prevent damage to bellows. In the case of horizontal applications, the bellows may be equipped with support rings or sliding bushes.
Material: highly tear-resistent foil
The material has a good resistance against UV light, oil and grease, environmental temperature range -20° to +60°C.



Accessories in standard design for:

HSG	KSH	HSGK	DSH
		X	

Ordering example:

- Heavy duty folding bellows
- Screw jack HSGK
- Size 4
- Heavy duty folding bellows L_{min} (compressed)
- Heavy duty folding bellows L_{max} (drawn)
- Collar 1 (housing end version)
- Collar 2 (spindle end version)

SB - HSGK - 4 - L_{min} / L_{max} - 122x18 - 65x12

Calculations

SB - Heavy duty folding bellows

Examples valid only for vertical assembly

Rule of thumb:

$$F_t\ [mm] = \frac{Da\ [mm] - Di\ [mm]}{2}$$

$$F_z\ [-] = \frac{L_{max}\ [mm]}{F_t\ [mm]}$$

$$F_z\ [-] = \frac{Stroke\ [mm]}{F_t\ [mm] - 2{,}5mm}$$

$$L_{min}\ [mm] = F_z\ [mm] \bullet 2{,}5mm$$

$$L_{max}\ [mm] = F_t\ [mm] \bullet F_z\ [-]$$

$$L_{max}\ [mm] = L_{min}\ [mm] + Stroke\ [mm]$$

Explanation:

Da	[mm]	External diameter
Di	[mm]	Internal diameter
F_t	[mm]	Fold depth
F_z	[-]	Number of folds
L_{max}	[mm]	SB drawn to max. length
L_{min}	[mm]	SB compressed to min. length
2,5	[mm]	L_{min} per fold

Example 1:

Heavy duty folding bellows for HSGK-4 with high cover and mounting flange on spindle end with a stroke of 540mm.

Stroke= 540mm, Da= 180mm, Di= 120mm

$$F_t\ [mm] = \frac{180mm - 120mm}{2} = 30mm$$

$$F_z\ [-] = \frac{540mm}{30mm - 2{,}5mm} = 19{,}6 = 20$$

Round up to next whole No. of folds

$$L_{min}\ [mm] = 20 \bullet 2{,}5mm = 50mm$$

Comparison with L_{min} in the table: 50 > 42

$$L_{max}\ [mm] = 50mm + 540mm = 590mm$$

Example 2:

Heavy duty folding bellows for HSGK-4 with high cover and mounting flange on spindle end with a stroke of 115mm.

Stroke= 115mm, Da= 180mm, Di= 120mm

$$F_t\ [mm] = \frac{180mm - 120mm}{2} = 30mm$$

$$F_z\ [-] = \frac{115mm}{30mm - 2{,}5mm} = 4{,}18 = 5$$

Round up to next whole No. of folds

$$L_{min}\ [mm] = 5 \bullet 2{,}5mm = 10mm$$

Comparison with L_{min} in the table: 10 < 42
L_{min} must be raised to 42

$$L_{min}\ [mm] = 42mm$$

$$L_{max}\ [mm] = 42mm + 115mm = 157mm$$

Please enquire for exact dimensions of L_{min} and L_{max}

Order code	for screw jack	Dimensions [mm]																			
		Housing Connection		Sleeve - H Connection						Clevis attachment - SE Connection						Mounting flange - BF Connection					
		Collar 1		Collar 2						Collar 3						Collar 4					
		d_1	L_1	d_2	L_2	Da_2	Di_2	for version with spigot cover L_{min} >	for version with guidance ring L_{min} >	d_3	L_3	Da_3	Di_3	for version with spigot cover L_{min} >	for version with guidance ring L_{min} >	d_4	L_4	Da_4	Di_4	for version with spigot cover L_{min} >	for version with guidance ring L_{min} >
SB-HSGK-3	HSGK-3	92	12	50	12	102	54	20	28	50	12	102	54	20	28	92	12	138	102	38	46
SB-HSGK-4	HSGK-4	122	18	65	12	126	78	20	29	65	12	126	78	20	29	122	18	180	120	42	51
SB-HSGK-5	HSGK-5	152	20	90	15	150	90	20	34	90	15	150	90	20	34	150	20	210	150	50	64
SB-HSGK-6	HSGK-6	182	20	110	15	180	120	20	39	110	15	180	120	20	39	182	20	245	185	50	69
SB-HSGK-7	HSGK-7	222	25	140	20	210	150	20	39	140	20	210	150	20	39	222	25	312	252	70	89
SB-HSGK-8	HSGK-8	262	30	170	20	252	192	20	44	170	20	252	192	20	44	262	30	360	300	85	109
SB-HSGK-9	HSGK-9	on request																			

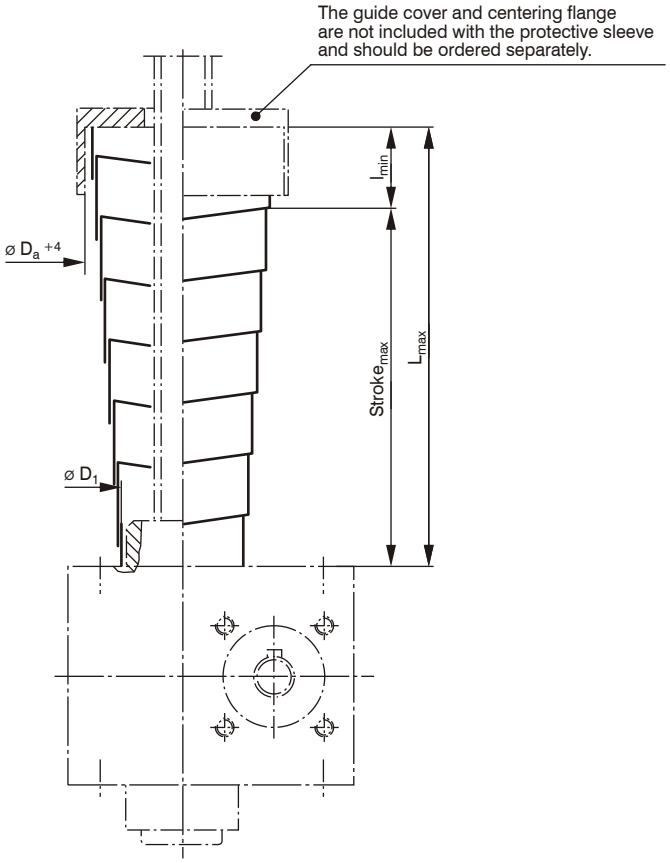
Please enquire for heavy duty folding bellows for rotating version

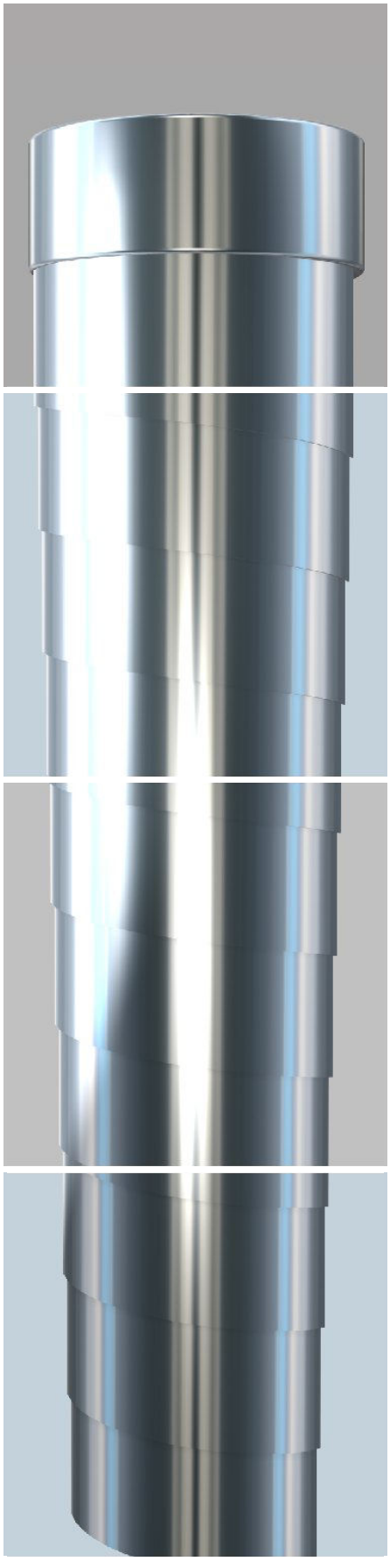
Accessories for all versions

SF - Spiral protective sleeve

INKOMA-spiral protective sleeves protect both trapezoidal and ball screw spindles from dirt and reduce the risk of accidents.
The larger diameter D_a should be mounted above if possible. The installation should be vertical; for horizontal situations please enquire.

For rust proof material please enquire.





Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X	X	X

Ordering example:

Spiral protective sleeve
D_1 smallest diameter
L_{max} maximum length
l_{min} shortest length

SF 30 / 150 / 30

Order code	for screw jack	Screw jack [1]	
		D_a [mm]	m [kg]
SF 30 / 150 / 30	HSG-0	39	0,12
SF 30 / 250 / 30	HSG-0	44	0,15
SF 30 / 300 / 30	HSG-0	46	0,22
SF 30 / 400 / 30	HSG-0	50	0,35
SF 30 / 450 / 30	HSG-0	53	0,50
SF 30 / 500 / 40	HSG-0	55	0,55
SF 35 / 150 / 30	HSG-1	48	0,2
SF 35 / 250 / 30	HSG-1	52	0,3
SF 35 / 350 / 30	HSG-1	61	0,4
SF 35 / 450 / 40	HSG-1	58	0,5
SF 35 / 550 / 40	HSG-1	62	0,55
SF 35 / 650 / 50	HSG-1	60	0,60
SF 35 / 750 / 50	HSG-1	64	0,75
SF 45 / 150 / 30	HSG-2 / KSH-1-S	56	0,20
SF 45 / 250 / 30	HSG-2 / KSH-1-S	61	0,25
SF 45 / 350 / 30	HSG-2 / KSH-1-S	65	0,35
SF 45 / 450 / 40	HSG-2 / KSH-1-S	69	0,50
SF 45 / 550 / 50	HSG-2 / KSH-1-S	68	0,65
SF 45 / 650 / 50	HSG-2 / KSH-1-S	75	0,75
SF 45 / 750 / 75	HSG-2 / KSH-1-S	76	0,90
SF 45 / 900 / 75	HSG-2 / KSH-1-S	78	1,00
SF 45 / 1100 / 75	HSG-2 / KSH-1-S	84	1,40
SF 45 / 1300 / 75	HSG-2 / KSH-1-S	89	1,70
SF 45 / 1500 / 100	HSG-2 / KSH-1-S	83	2,00
SF 45 / 1800 / 100	HSG-2 / KSH-1-S	87	3,00
SF 45 / 2000 / 120	HSG-2 / KSH-1-S	91	3,50
SF 45 / 2200 / 120	HSG-2 / KSH-1-S	100	4,20
SF 50 / 150 / 30	HSG-3 / KSH-1-R	63	0,25
SF 50 / 250 / 30	HSG-3 / KSH-1-R	68	0,30
SF 50 / 350 / 50	HSG-3 / KSH-1-R	66	0,45
SF 50 / 450 / 50	HSG-3 / KSH-1-R	70	0,60
SF 50 / 550 / 50	HSG-3 / KSH-1-R	73	0,70
SF 50 / 650 / 60	HSG-3 / KSH-1-R	72	0,90
SF 50 / 750 / 60	HSG-3 / KSH-1-R	76	1,10
SF 50 / 900 / 75	HSG-3 / KSH-1-R	84	1,60
SF 50 / 1100 / 75	HSG-3 / KSH-1-R	90	2,00
SF 50 / 1300 / 100	HSG-3 / KSH-1-R	79	2,00
SF 50 / 1500 / 100	HSG-3 / KSH-1-R	86	2,40
SF 50 / 1800 / 100	HSG-3 / KSH-1-R	94	3,20
SF 50 / 1900 / 120	HSG-3 / KSH-1-R	95	3,90
SF 50 / 2100 / 120	HSG-3 / KSH-1-R	100	4,50
SF 50 / 2300 / 120	HSG-3 / KSH-1-R	105	5,00
SF 50 / 2500 / 120	HSG-3 / KSH-1-R	111	5,50
SF 50 / 2800 / 120	HSG-3 / KSH-1-R	118	6,00
SF 50 / 3000 / 150	HSG-3 / KSH-1-R	123	9,50

Order code	for screw jack	Screw jack [1]	
		D_a [mm]	m [kg]
SF 65 / 250 / 30	HSG-4 / KSH-2	85	0,40
SF 65 / 350 / 50	HSG-4 / KSH-2	83	0,60
SF 65 / 450 / 50	HSG-4 / KSH-2	88	0,75
SF 65 / 550 / 60	HSG-4 / KSH-2	88	1,20
SF 65 / 650 / 60	HSG-4 / KSH-2	92	1,50
SF 65 / 750 / 60	HSG-4 / KSH-2	95	1,70
SF 65 / 900 / 75	HSG-4 / KSH-2	99	1,90
SF 65 / 1100 / 75	HSG-4 / KSH-2	107	2,40
SF 65 / 1300 / 100	HSG-4 / KSH-2	99	2,60
SF 65 / 1500 / 100	HSG-4 / KSH-2	108	3,50
SF 65 / 1800 / 100	HSG-4 / KSH-2	117	4,20
SF 65 / 1900 / 120	HSG-4 / KSH-2	109	4,70
SF 65 / 2100 / 120	HSG-4 / KSH-2	113	5,50
SF 65 / 2300 / 120	HSG-4 / KSH-2	118	6,00
SF 65 / 2500 / 120	HSG-4 / KSH-2	123	6,60
SF 65 / 2800 / 120	HSG-4 / KSH-2	128	7,40
SF 65 / 3000 / 150	HSG-4 / KSH-2	142	12,00
SF 90 / 150 / 50	HSG-5	112	0,70
SF 90 / 250 / 50	HSG-5	116	1,00
SF 90 / 350 / 50	HSG-5	121	1,10
SF 90 / 450 / 60	HSG-5	114	1,25
SF 90 / 550 / 75	HSG-5	119	2,10
SF 90 / 650 / 75	HSG-5	124	2,40
SF 90 / 750 / 100	HSG-5	115	3,20
SF 90 / 900 / 100	HSG-5	120	3,45
SF 90 / 1100 / 100	HSG-5	126	3,00
SF 90 / 1300 / 100	HSG-5	132	5,50
SF 90 / 1500 / 120	HSG-5	131	6,40
SF 90 / 1800 / 120	HSG-5	138	7,20
SF 90 / 2000 / 150	HSG-5	149	10,00
SF 90 / 2300 / 150	HSG-5	154	11,20
SF 90 / 2600 / 150	HSG-5	159	12,00
SF 90 / 2800 / 180	HSG-5	158	12,80
SF 90 / 3000 / 180	HSG-5	164	14,00
SF 100 / 250 / 60	KSH-3	121	1,5
SF 100 / 350 / 60	KSH-3	126	2,0
SF 100 / 450 / 75	KSH-3	124	1,7
SF 100 / 600 / 75	KSH-3	129	2,5
SF 100 / 800 / 100	KSH-3	126	3,0
SF 100 / 1000 / 100	KSH-3	132	3,2
SF 100 / 1200 / 100	KSH-3	137	4,8
SF 100 / 1500 / 100	KSH-3	146	7,5
SF 100 / 1800 / 120	KSH-3	148	8,0

[1] **Only for vertical situations.**

HSGK and DSH:

The dimensions of the INKOMA-spiral protective sleeve and guide cover and centering flange will be supplied on demand.

Accessories for all versions

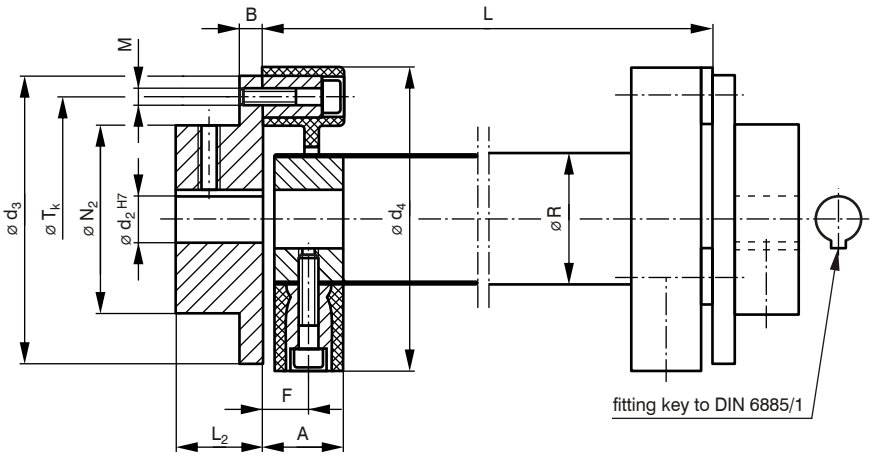
INKOMA-flexible cardan shafts are used to transmit the drive between screw jacks or bevel gearboxes. Two versions are offered dependent on the application.

GX - Cardan shafts

Version GX is a torsionally stiff coupling systems for long shafts and high speeds.
The flexible component can be replaced without the need to displace the screw jacks.
Specification of cardan shaft:
select the maximum allowablle speed $n_{max.}$ [1/min] from the adjacent table.

$n_{max.}$ > $n_{Cardan\ shafts}$

If this is not the case the cardan shaft should be supported at its centre with a bearing. (suitable bearing units are shown on page 224).



Ordering example:

- Cardan shafts
- Size 1
- Length L = 500mm
- Hole diameter 1 d_2 = 10mm
- Hole diameter 2 d_2 = 20mm

GX - 1 - 500 - 10/20

Accessories in standard design for:

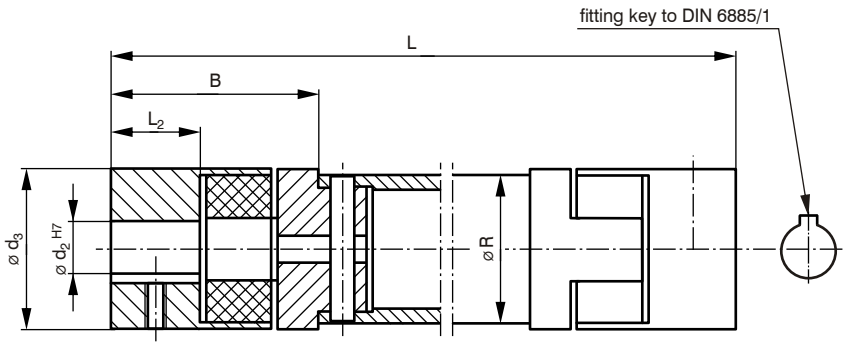
HSG	KSH	HSGK	DSH
X	X	X	

GE - Cardan shafts

Version GE is a simple and economical design, temperature and oil resistant for simple applications (within the torsional range). Cannot be disconnected by radial removal of the connecting element.
Specification of the cardan shaft:
select the maximum allowable speed $n_{max.}$ [1/min] from the adjacent table.

$n_{max.}$ > $n_{Cardan\ shafts}$

If this is not the case the cardan shaft should be supported at its centre with a bearing. (suitable bearing units are shown on page 244).



Ordering example:

- Cardan shafts
- Size 054
- Length L = 150mm
- Hole diameter 1 d_2 = 15mm
- Hole diameter 2 d_2 = 25mm

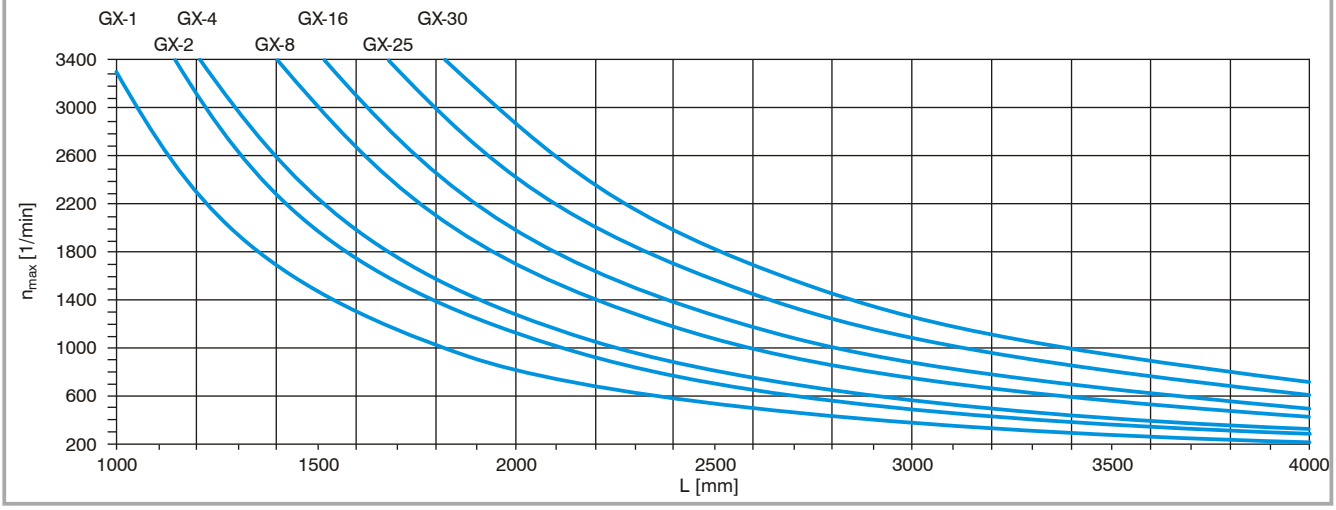
GE - 054 - 150 - 15/25

Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X	X	

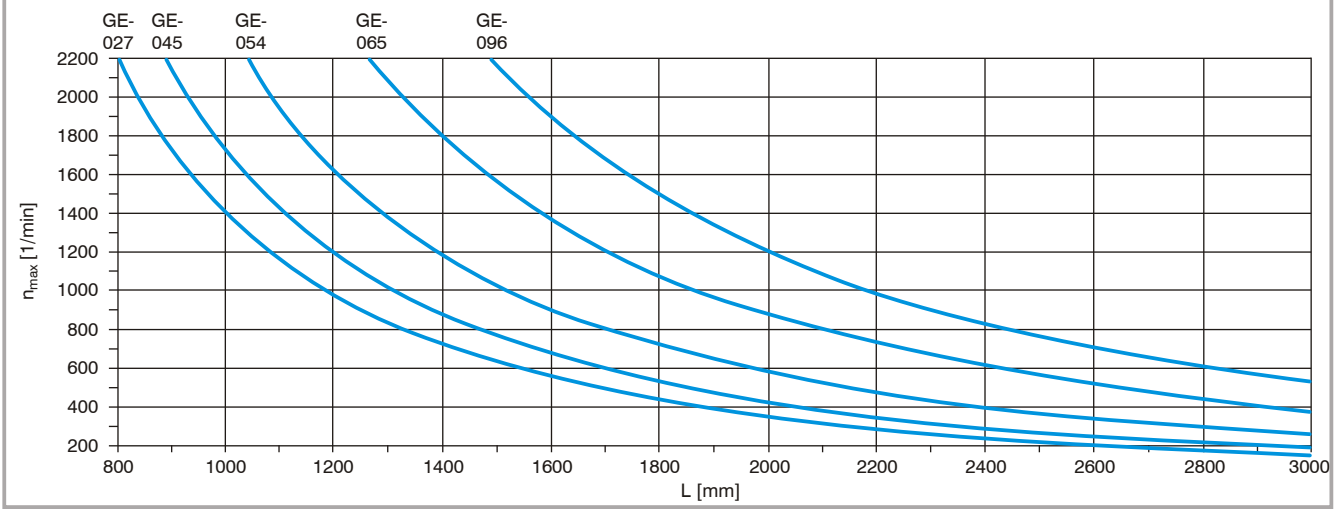
Order code	Dimension [mm]														Hole pitch	max. torque
	$d_{2\ min.}$	$d_{2\ max.}$	d_3	d_4	A	B	F	L from	L to	L_2	M	N_2	R	T_k	T_k	[Nm]
GX-1	8	25	56	57	18	7	12	70	4000	24	M6	36	30	44	2x180°	10
GX-2	12	38	85	88	24	8	14	80	4000	28	M8	55	40	68	2x180°	30
GX-4	15	45	100	100	25	8	14,5	85	4000	30	M8	65	45	80	3x120°	60
GX-8	18	55	120	125	30	10	17	105	4000	42	M10	80	60	100	3x120°	120
GX-16	20	70	150	155	35	12	21	120	4000	50	M12	100	70	125	3x120°	240
GX-25	20	85	170	175	40	14	23	140	4000	55	M14	115	85	140	3x120°	370
GX-30	25	100	200	205	50	16	30	170	4000	66	M16	140	100	165	3x120°	550

Speed dependent connecting shaft lengths



Order code	Dimensions [mm]								max. torque
	$d_{2\ min.}$	$d_{2\ max.}$	d_3	B	L from	L to	L_2	R	[Nm]
GE-027	5	16	27	35	90	3000	15	25	3
GE-045	10	24	45	40	115	3000	21	30	35
GE-054	9	28	54	44	130	3000	25	40	130
GE-065	18	38	65	60	180	3000	35	60	280
GE-096	16	48	96	80	235	3000	45	80	490

Speed dependent connecting shaft lengths

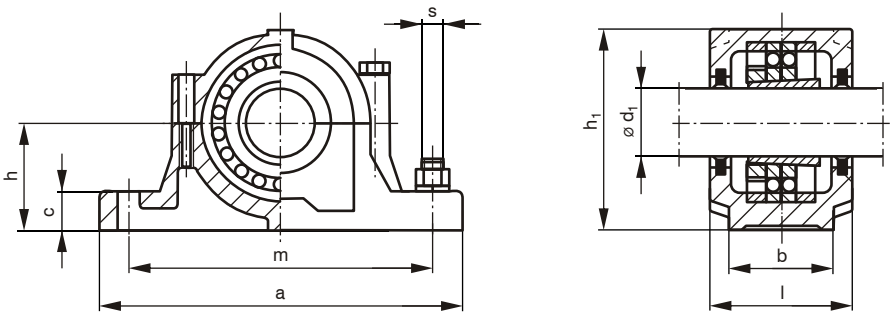


Accessories for all versions

SNH - Support bearings

INKOMA-support bearings to DIN 736, complete with self-aligning sealed ball bearings with tapered bore and adaptor sleeves.

Dependent on the installation use fixed or floating bearing location.



Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X	X	

Ordering example:

Support bearings

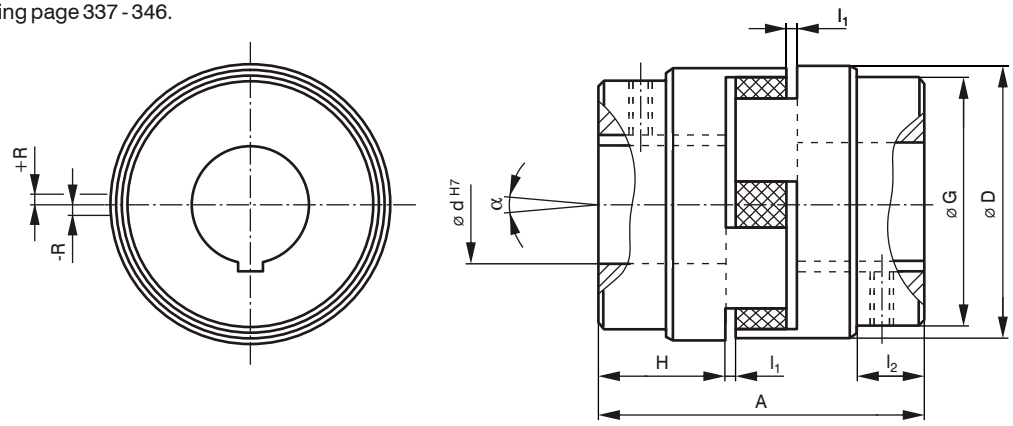
Size 506

SNH - 506

EFK - Elaflex coupling

INKOMA-Elaflex couplings provide smooth, vibration damping, torque transmission.

The connecting spider is available in two Shore hardnesses (80/92 Shore). See category Elaflex coupling page 337 - 346.



Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X	X	

Ordering example:

Elaflex coupling

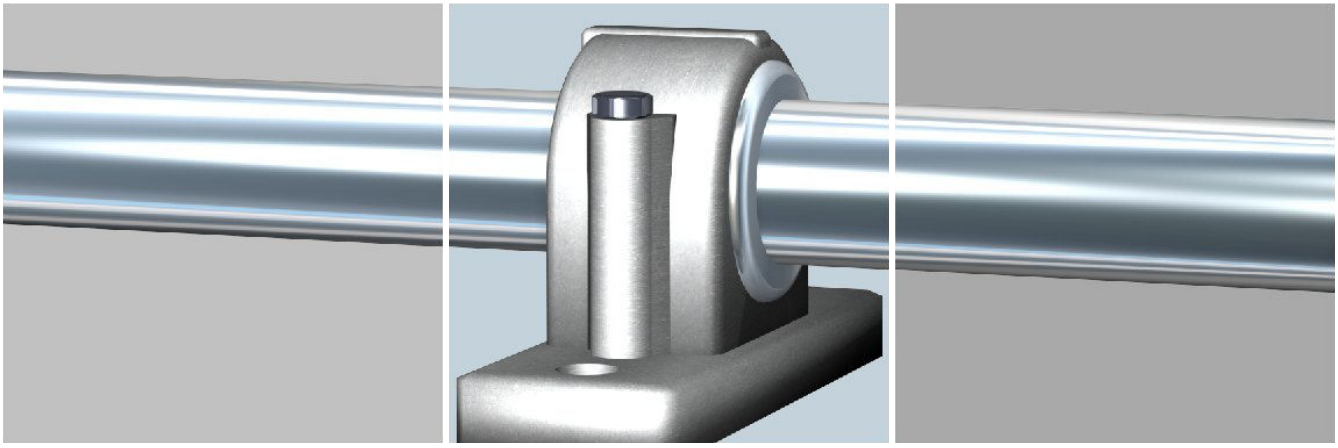
External diameter D

Material (grey cast iron)

Hub bore "d"

Shore hardness

EFK - 054 . G . 19/24 . 80



Order code	Dimensions [mm] a	b	c	d_1	h	~h_1	l	m	s	Mass [kg]
SNH-506	185	52	22	25	50	87	77	150	M12	2,4
SNH-507	185	52	22	30	50	92	82	150	M12	2,7
SNH-509	205	60	25	40	60	109	85	170	M12	3,7
SNH-510	205	60	25	45	60	112	90	170	M12	4,1
SNH-513	275	80	30	60	80	148	110	230	M16	8,2
SNH-516	315	90	32	70	95	175	120	260	M20	12,1
SNH-518	345	100	35	80	100	192	140	290	M20	16,3
SNH-519	345	100	35	85	112	210	145	290	M20	18,0
SNH-522	410	120	45	100	125	240	175	350	M24	29,2

Order code	Dimensions [mm] Hub bore d^{H7} with keyway to BS 4235 (DIN 6885/1) and clamping screw Ex-stock			Pilot bore	max. Ø	A	D	G	H	l_1	L_2	Angular misalignment [2] α [°]	Radial offset [2] R [±mm]	max. speed n [1/min]	Torque [Nm] 80 Shore (standard) Nom. T_{KN}	Max T_{kmax}	Oscillating load T_{KW}	92 Shore Nom. T_{KN}	Max T_{max}	Oscillating load T_{KW}	Mass min. bore [kg]	max. bore [kg]
EFK-016 S [1]	-	-	-	-	9	20	16	-	6,5	1	-	1	0,15	10000	1	2	0,3	-	-	-	0,12	0,11
EFK-027 S	9	11	14	4,5	16	43	27	-	15	1	-	1	0,15	8000	3	6	0,8	6	12	1,6	0,18	0,16
EFK-036 S	14	19	-	9	19	52	36	-	19	2	-	1	0,15	7000	6	12	1,6	12	24	3,2	0,20	0,15
EFK-036 A	14	19	-	9	19	52	36	-	19	2	-	1	0,15	8000	6	12	1,6	12	24	3,2	0,10	0,08
EFK-045 S	14	19	24	9,5	24	55	45	-	21	2	-	1	0,15	7000	10	20	2,8	20	40	5,6	0,20	0,16
EFK-054 A	19	24	-	11	28	64	54	-	25	2	-	1	0,15	6000	25	50	7,0	51	102	14,5	0,35	0,30
EFK-054 G	19	24	28	8,5	28	64	54	49	25	2	13	1	0,15	5000	37,5	75	10,5	77	144	20,5	0,75	0,50
EFK-065 G	24	28	32	17	38	89	65	57	35	2	22	1	0,15	5000	75	150	21,0	154	308	40,5	1,50	1,00
EFK-085 G	28	32	38	17	42	108	85	76	43	3	32	1	0,15	4500	80	160	22,5	164	328	43	3,20	2,30
EFK-096 G	38	42	48	15	48	116	96	80	45	3	32	1	0,15	4500	120	240	33,5	246	592	65	3,90	3,20
EFK-115 G	42	48	55	18	55	134	115	102	54	3	35	1	0,15	4000	150	300	42,0	307	614	81	7,20	5,40
EFK-127 G	42	48	55	19,5	60	154	127	108	64	3	45	1	0,15	4000	225	450	63,0	409	818	107	8,50	7,50

[1] Without keyway, but with clamping screw.

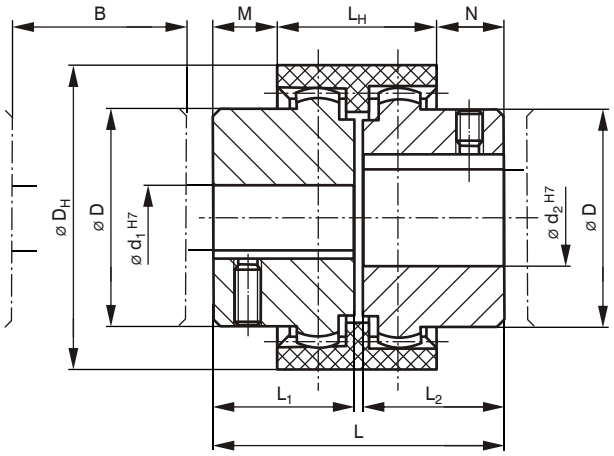
[2] max. offset at n = 1500 1/min

Material: S Sintered metal
G Grey cast iron
A Aluminium

Accessories for all versions

M - Gear coupling (standard design)

INKOMA-gear coupling, standard design with keyway to BS 4235 (DIN 6885/1).



Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X	X	

Ordering example:

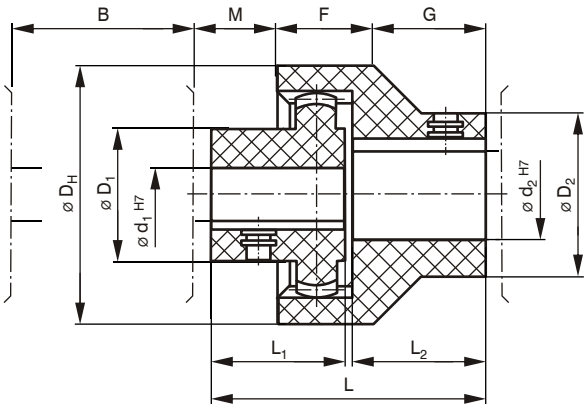
Gear coupling

Size

M - 14

Gear coupling (light duty)

INKOMA-gear coupling, light duty version, with keyway to BS 4235 (DIN 6885/1).



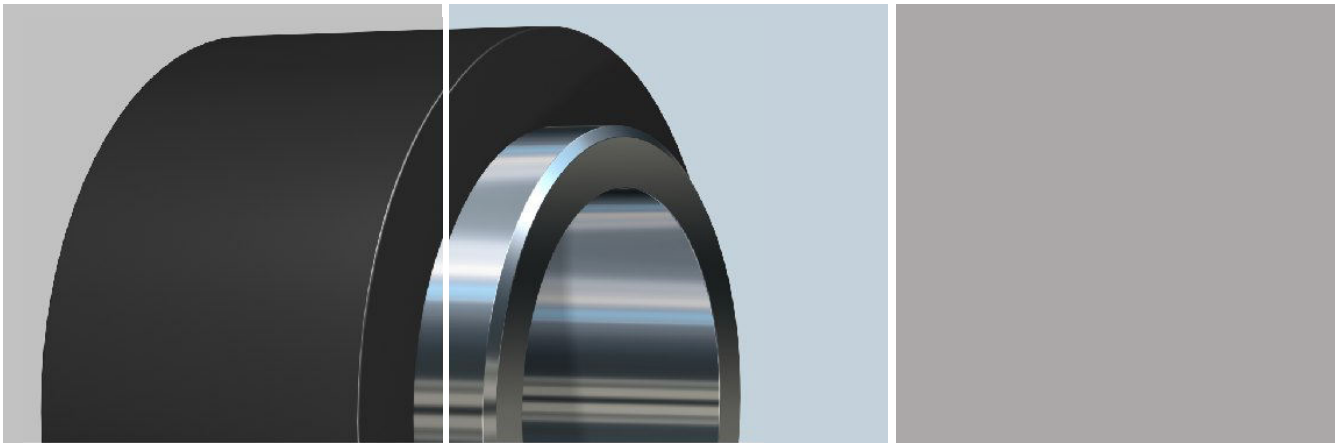
Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X	X	

Ordering example:

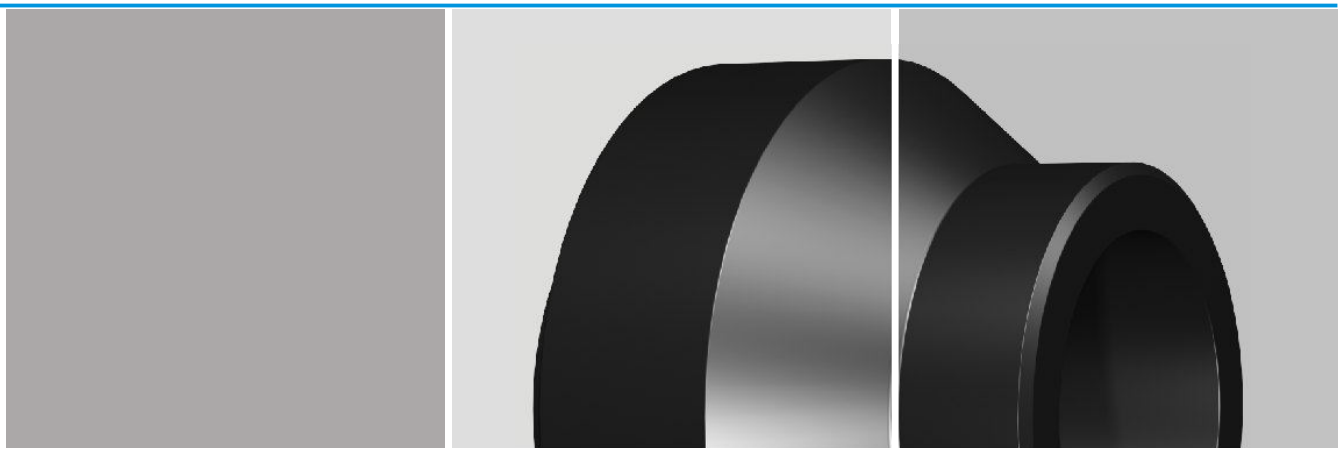
Size

14



Order code	Dimensions[mm]								Torque		Mass moment of inertia	Mass
	Stock bores d_1 / d_2	B [1]	D	D_H	L	L_1 | L_2	L_H	M | N	T_{KN} [Nm]	T_{Kmax} [Nm]	J [kg m²]	[kg]
M-14	8 - 15	15	25	40	50	23	37	6,5	10	20	0,00003	0,18
M-19	10 - 12, 14 - 20	16	32	48	54	25	37	8,5	16	32	0,00005	0,23
M-24	10 - 12, 14 - 24	17	36	52	56	26	41	7,5	20	40	0,00009	0,32
M-28	14 - 28	20	44	66	84	40	46	19	45	90	0,00031	0,74
M-32	18 - 32	24	50	76	84	40	48	18	60	120	0,00055	0,95
M-38	18 - 38	24	58	83	84	40	48	18	80	160	0,00087	1,23
M-42	20 - 42	25	65	92	88	42	50	19	100	200	0,00143	4,50

[1] minimum distance for axial removal



Order code	Dimensions [mm]											Torque		Mass moment of inertia	Mass
	Stock bores														
	Hub		Sleeve												
	d_1	D_1	d_2	D_2	B [1]	D_H	F	G	L	L_1 | L_2	M	T_{KN} [Nm]	T_{Kmax} [Nm]	J [kg m²]	[kg]
14	6-9	22	10-12,14	26	15	40	23	17	48	23	8	5	10	0,000007	0,042
19	12, 14	27	14-15	29	16	48	23	19	52	25	10	8	16	0,000019	0,048
19	16, 19	32	19	35	16	48	23	19	52	25	10	8	16	0,000019	0,048
24	10-12	26	14	32	17	52	25	20	54	26	9	12	24	0,000023	0,070
24	14-16	32	14	32	17	52	25	20	54	26	9	12	24	0,000023	0,070
24	18-20	36	19-20	36	17	52	25	20	54	26	9	12	24	0,000023	0,070
24	24	38	24	40	17	52	25	20	54	26	9	12	24	0,000023	0,070

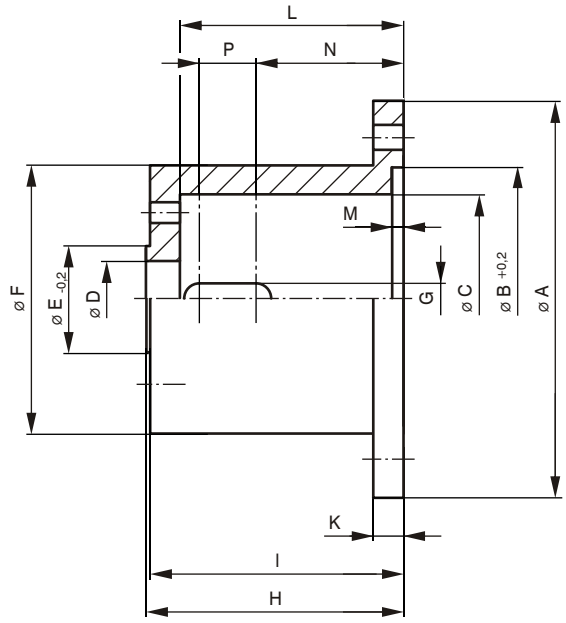
[1] minimum distance for axial removal

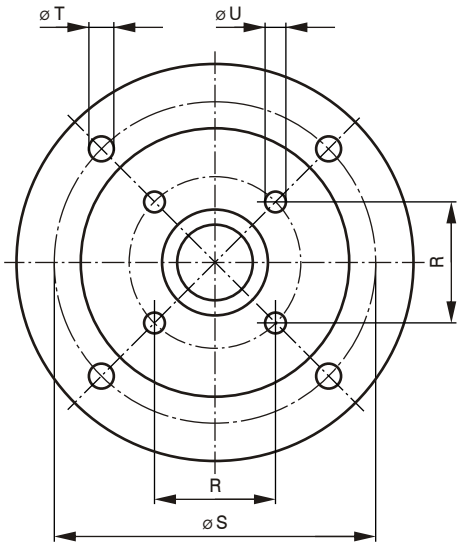
Accessories for all versions

MG-HSG - Motor adaptor

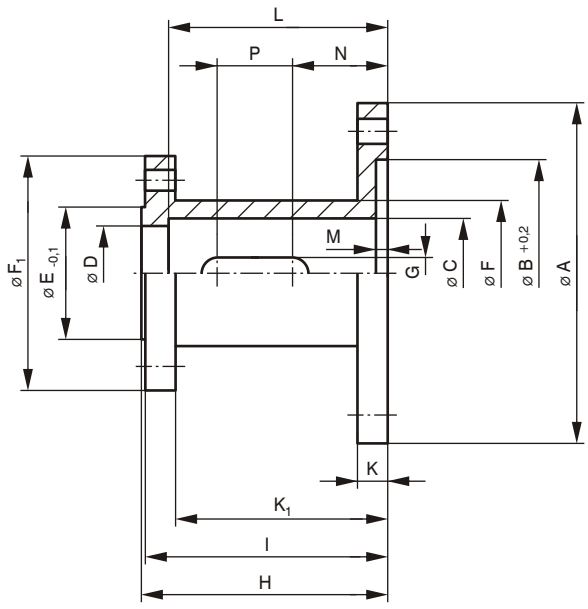
INKOMA-motor adaptors version A and B for positive and efficient mounting of motors (see pages 234-237) and to protect the flexible coupling (see pages 224-227).

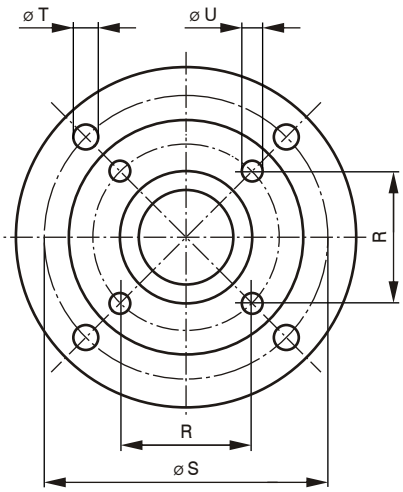
Version A



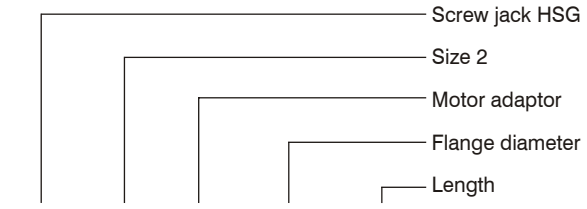


Version B





Ordering example:



HSG - 2 - MG - 120 - 065

Accessories in standard design for:

HSG	KSH	HSGK	DSH
X			

Order code	Version	Coupling type	Motor		Dimension [mm]								
			Type	Flange Ø	A	B	C	D	E	F	F_1	G	H
HSG-0-MG-090	A	EFK-027.S	63	90	90	60	46	20	26	62	-	8	58
HSG-0-MG-105	A	EFK-027.S	71	105	102	70	46	20	26	62	-	8	65
HSG-1-MG-090	A	EFK-027.S	63	90	90	60	54,5	20	28	65,5	-	8	61
HSG-1-MG-105	A	EFK-027.S	71	105	102	70	55	20	28	71	-	8	68
HSG-2-MG-090	B	EFK-027.S	63	90	90	60	29	25	35	38,5	62	8	65
HSG-2-MG-105	A	EFK-036.S	71	105	102	70	60,5	20	35	74	-	12	74
HSG-2-MG-120-065	A	EFK-027.S	63	120	120	80	62	25	35	78	-	12	65
HSG-2-MG-120	A	EFK-036.S	80	120	118	80	62	25	35	74	-	12	85
HSG-2-MG-160-086	A	EFK-045.G	80	160	160	110	64	25	35	81	-	12	86
HSG-2-MG-160-101	A	EFK-054.G	90	160	160	110	65	25	35	82	-	12	101
HSG-2-MG-160-113	A	EFK-054.G	100/112	160	160	110	66	25	35	83	-	12	113
HSG-3-MG-090	B	EFK-027.S	63	90	90	60	31	-	40	48	80	12	82
HSG-3-MG-120-083	A	EFK-036.S	63	120	120	80	76	30	40	89	-	12	83
HSG-3-MG-105	B	EFK-036.S	71	105	102	70	37,5	30	40	48,5	80	12	90
HSG-3-MG-120	A	EFK-045.G	80	120	118	80	76	30	40	89	-	12	99
HSG-3-MG-160-100	A	EFK-045.G	80	160	160	110	80	30	40	104	-	12	100
HSG-3-MG-140	A	EFK-045.G	90	140	140	95	78	30	40	100	-	12	110
HSG-3-MG-160-110	A	EFK-045.G	90	160	160	110	80	30	40	104	-	12	110
HSG-3-MG-160	A	EFK-054.G	100/112	160	160	110	80	30	40	104	-	12	120
HSG-4-MG-105	B	EFK-045.G	71	105	102	70	47	-	52	61	100	12	94
HSG-4-MG-160-104	A	EFK-054.G	80	160	160	110	96	40	52	116	-	12	104
HSG-4-MG-160-114	A	EFK-054.G	90	160	160	110	96	40	52	116	-	12	114
HSG-4-MG-160	A	EFK-054.G	100/112	160	160	110	96	40	52	116	-	12	124
HSG-5-MG-160-124	B	EFK-054.G	80	160	160	110	58	40	62	80	125	12	124
HSG-5-MG-160-134	B	EFK-054.G	90	160	160	110	58	40	62	80	125	12	134
HSG-5-MG-160	B	EFK-054.G	100/112	160	160	110	58	40	62	80	125	12	144

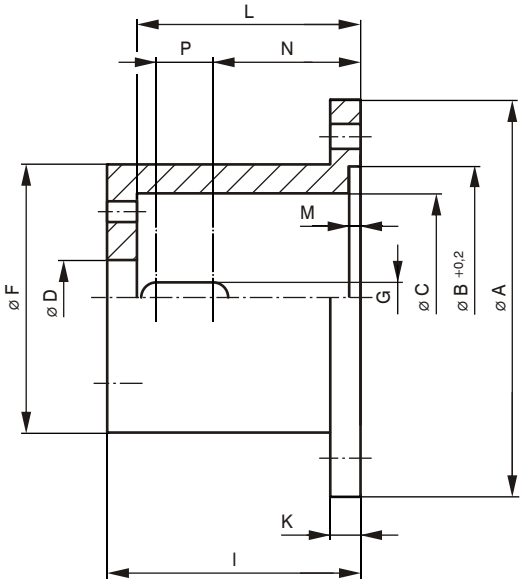
Order code	Version	Dimension [mm]											Mass
		I	K	K_1	L	M	N	P	R	S	T	U	[kg]
HSG-0-MG-090	A	57	8	-	51,5	3	26	20	25	75	5,5	5,5	0,42
HSG-0-MG-105	A	64	8	-	58	3	33	20	25	85	6,6	5,5	0,56
HSG-1-MG-090	A	60	8	-	52	3	19	27	32	75	5,5	5,5	0,45
HSG-1-MG-105	A	67	8	-	59	3	39	15	32	85	6,6	5,5	0,62
HSG-2-MG-090	B	64	8	56	56	3	25	20	35	75	5,5	6,6	0,50
HSG-2-MG-105	A	73	8	-	65	3	35	15	35	85	6,6	6,6	0,63
HSG-2-MG-120-065	A	64	12	-	56	3,5	30	15	35	100	6,6	6,6	0,78
HSG-2-MG-120	A	84	12	-	75	3,5	30	35	35	100	6,6	6,6	1,10
HSG-2-MG-160-086	A	85	12	-	75	4	45	20	35	130	9	6,6	1,20
HSG-2-MG-160-101	A	100	12	-	90	4	65	15	35	130	9	6,6	1,35
HSG-2-MG-160-113	A	112	12	-	102	4	70	20	35	130	9	6,6	1,45
HSG-3-MG-090	B	81	8	73	-	3	40	20	44	75	5,5	9	0,34
HSG-3-MG-120-083	A	82	12	-	73	3,5	40	20	44	100	6,6	9	1,28
HSG-3-MG-105	B	89	8	81	81	3	40	30	44	85	6,6	9	0,38
HSG-3-MG-120	A	98	12	-	90	3,5	50	25	44	100	6,6	9	1,44
HSG-3-MG-160-100	A	99	12	-	89	4	50	25	44	130	9	9	2,30
HSG-3-MG-140	A	109	12	-	99	4	60	25	44	115	9	9	2,50
HSG-3-MG-160-110	A	109	12	-	99	4	60	25	44	130	9	9	2,50
HSG-3-MG-160	A	119	12	-	109	4	70	25	44	130	9	9	2,72
HSG-4-MG-105	B	92	8	84	-	3	45	25	55	85	6,6	11	0,75
HSG-4-MG-160-104	A	102	12	-	92	4	55	25	55	130	9	11	2,90
HSG-4-MG-160-114	A	112	12	-	102	4	65	25	55	130	9	11	3,10
HSG-4-MG-160	A	122	12	-	112	4	75	25	55	130	9	11	3,47
HSG-5-MG-160-124	B	122	12	110	110	4	60	25	70	130	9	13,5	1,73
HSG-5-MG-160-134	B	132	12	120	120	4	65	25	70	130	9	13,5	1,87
HSG-5-MG-160	B	142	12	130	130	4	75	25	70	130	9	13,5	2,12

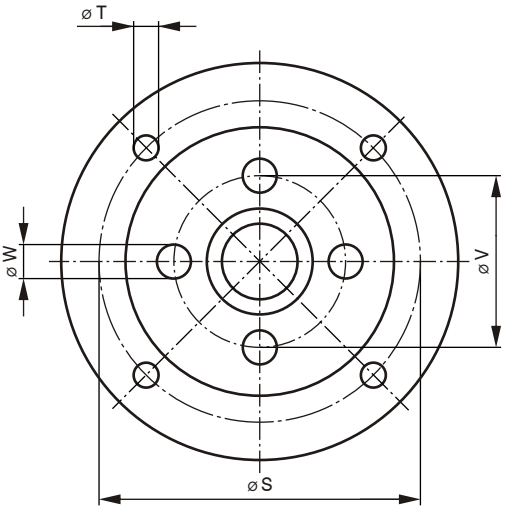
Accessories for all versions

MG-KSH - Motor adaptor

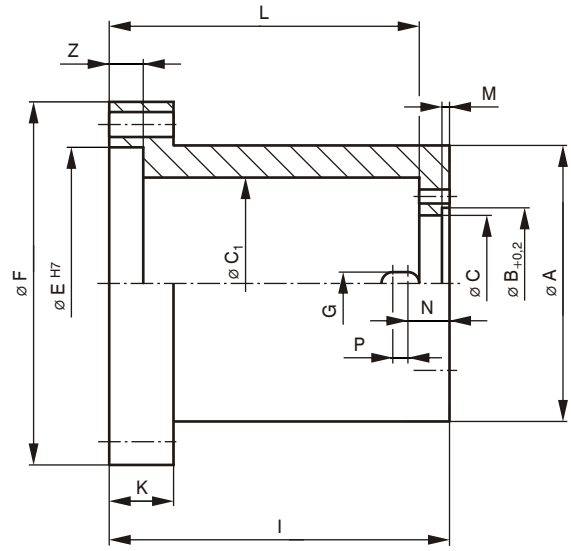
INKOMA-motor adaptors version A.1, A.2 and B for positive and efficient mounting of motors (see pages 234-237) and to protect the flexible coupling (see pages 224-227).

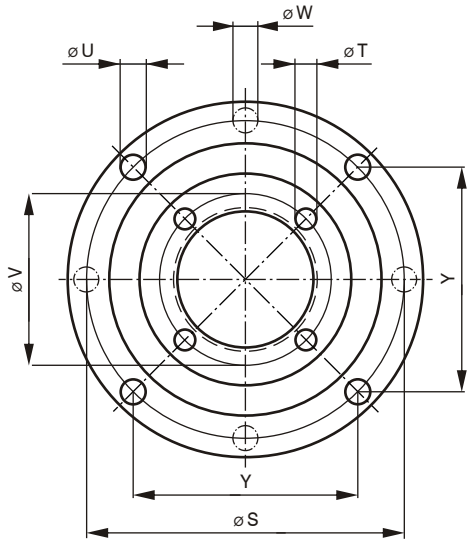
Version A.1



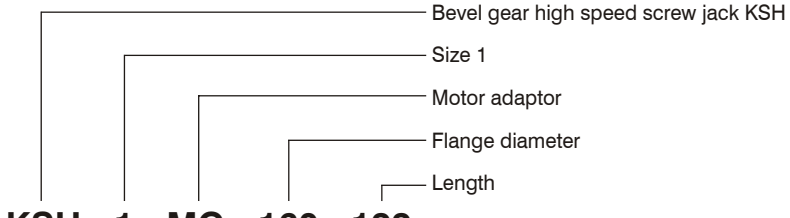


Version A.2





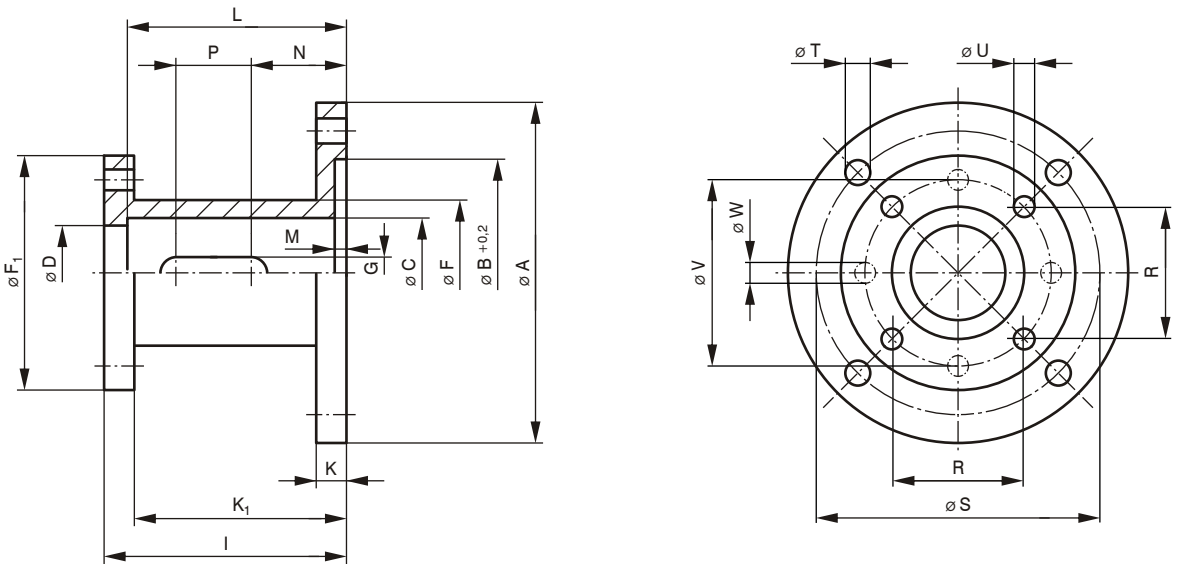
Ordering example:



Accessories in standard design for:

HSG	KSH	HSGK	DSH
	X		

Version B



Order code	Version	Coupling type	Motor		Dimensions [mm]									
			Type	Flange Ø	A	B	C	C_1	D	E	F	F_1	G	I
KSH-1-MG-120	B	EFK-045.G	63	120	120	80	61	-	60 [1)]	-	85	120	12	104
KSH-1-MG-105	B	EFK-045.G	71	105	102	70	54	-	60 [1)]	-	70	120	12	111
KSH-1-MG-160-122	A.1	EFK-054.G	80	160	160	110	92	-	60 [1)]	-	113	-	12	122
KSH-1-MG-160	A.1	EFK-054.G	90	160	160	110	92	-	60 [1)]	-	113	-	12	132
KSH-1-MG-200	A.1	EFK-065.G	100/112	200	200	130	96	-	60 [1)]	-	116	-	12	147
KSH-2-MG-105	A.2	EFK-065.G	71	105	136	70	68	106	-	135	180	-	12	170
KSH-2-MG-160-172	B	EFK-065.G	80	160	160	110	78	-	135[1)]	-	130	180	12	172
KSH-2-MG-160	B	EFK-065.G	90	160	160	110	78	-	135[1)]	-	130	180	12	182
KSH-2-MG-200	B	EFK-085.G	100/112	200	200	130	100	-	135[1)]	-	136	200	12	197
KSH-3-MG-160	A.2	EFK-115.G	100/112	160	173	110	110	145	-	225	270	-	12	286

[1)] Tolerance H7

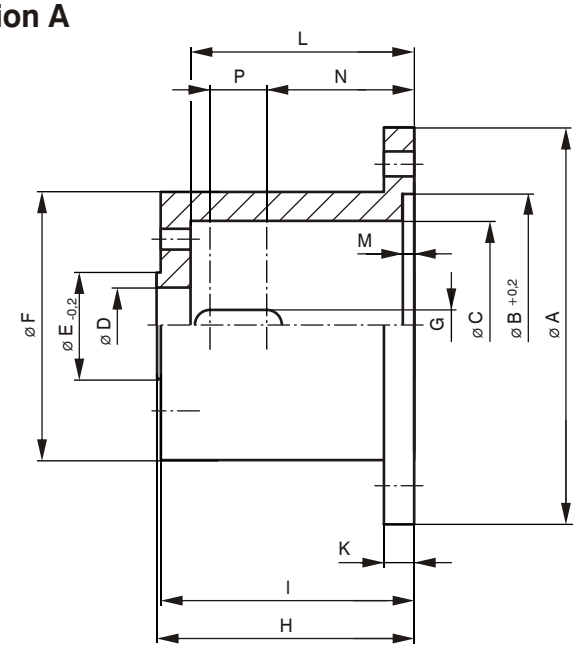
Order code	Version	Dimensions [mm]													Mass
		K	K_1	L	M	N	P	R	S	T	U	V	W	Y	Z	[kg]
KSH-1-MG-120	B	12	74	74	3,5	44	10	-	100	6,6	-	75	9	-	-	2,45
KSH-1-MG-105	B	12	81	76	3	18	10	-	85	6,6	-	75	9	-	-	2,20
KSH-1-MG-160-122	A.1	12	-	111	4	21	12	-	130	9	-	75	9	-	-	2,85
KSH-1-MG-160	A.1	12	-	121	4	32	12	-	130	9	-	75	9	-	-	3,10
KSH-1-MG-200	A.1	12	-	136	4	33	20	-	165	11	-	75	9	-	-	3,50
KSH-2-MG-105	A.2	32	-	155	3	21	8	-	-	6,6	11	85	-	110	17	3,65
KSH-2-MG-160-172	B	15	140	107	4	21	12	110	130	9	11	-	-	-	-	3,45
KSH-2-MG-160	B	15	150	117	4	21	12	110	130	9	11	-	-	-	-	3,45
KSH-2-MG-200	B	19	165	180	4	31	18	110	165	11	11	-	-	-	-	4,15
KSH-3-MG-160	A.2	42	-	271	12	23	25	-	200	9	-	130	17,5	-	21	17,2

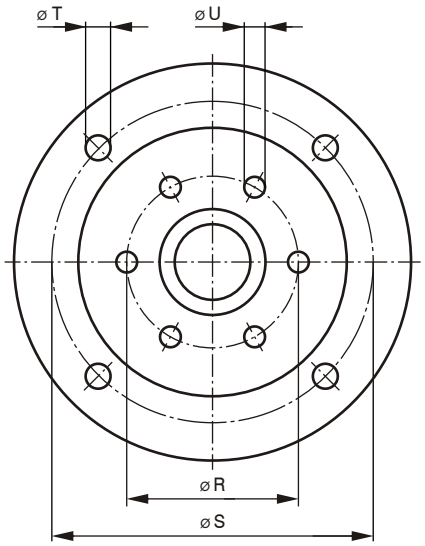
Accessories for all versions

MG-HSGK - Motor adaptor

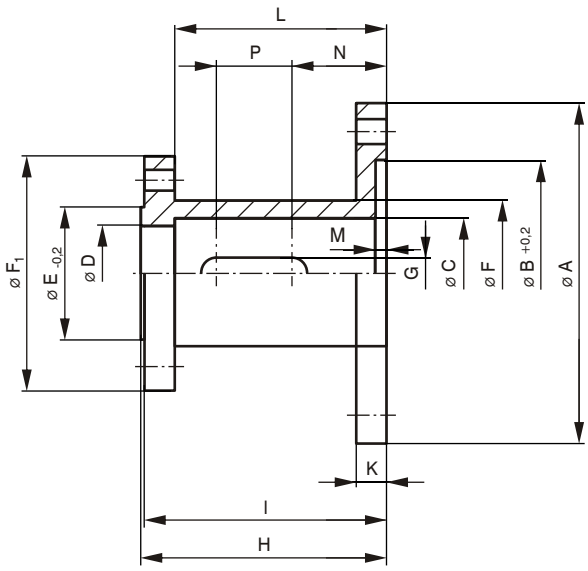
INKOMA-motor adaptors version A and B for positive and efficient mounting of motors (see pages 234-237) and to protect the flexible coupling (see pages 224-227).

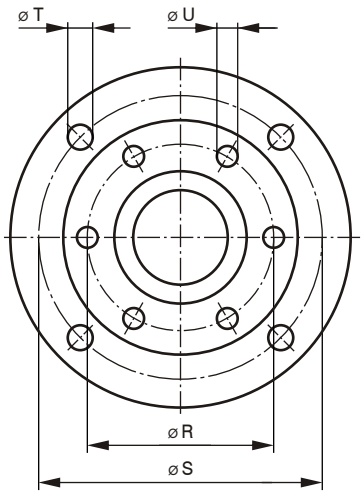
Version A



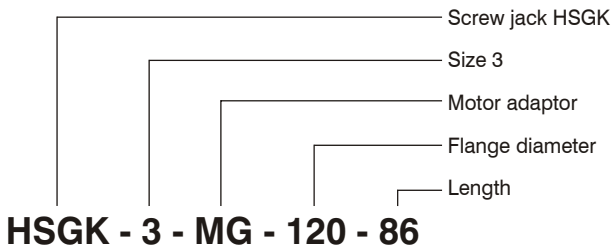


Version B



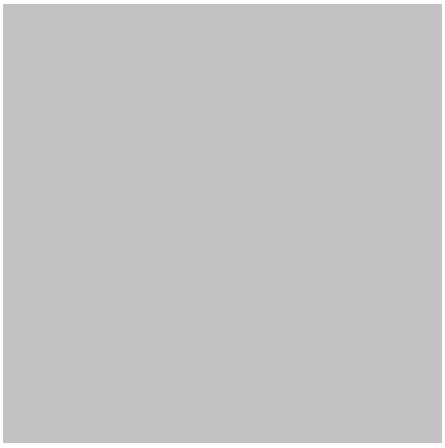


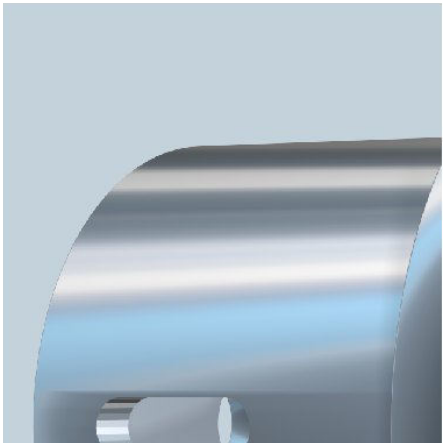
Ordering example:

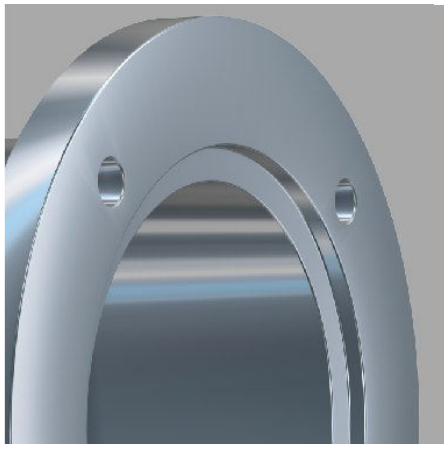


Accessories in standard design for:

HSG	KSH	HSGK	DSH
		X	







Order code	Version	Coupling type	Motor		Dimensions [mm]								
			Type	Flange Ø	A	B	C	D	E	F	F_1	G	H
HSGK-3-MG-90-68	B	EFK-027.S	63	90	90	60	30	30	40	39	60	12	68
HSGK-3-MG-120-69	A	EFK-036.S	63	120	120	80	65	30	40	80	-	12	69
HSGK-3-MG-105-76	A	EFK-036.S	71	105	102	70	61	30	40	74	-	12	76
HSGK-3-MG-120-86	A	EFK-045.G	80	120	118	80	67	30	40	80	-	12	86
HSGK-3-MG-160-86	A	EFK-045.G	80	160	160	110	74	30	40	90	-	12	86
HSGK-3-MG-140-96	A	EFK-045.G	90	140	140	95	74	30	40	90	-	12	96
HSGK-3-MG-160-96	A	EFK-045.G	90	160	160	110	74	30	40	90	-	12	96
HSGK-3-MG-160-111	A	EFK-045.G	100/112	160	160	110	74	30	40	90	-	12	111
HSGK-4-MG-105-83	B	EFK-045.G	71	105	102	70	47	40	52	59	84	12	83
HSGK-4-MG-160-94	A	EFK-054.G	80	160	160	110	90	40	52	110	-	12	94
HSGK-4-MG-160-104	A	EFK-054.G	90	160	160	110	90	40	52	110	-	12	104
HSGK-4-MG-160-112	A	EFK-054.G	100/112	160	160	110	90	40	52	110	-	12	114
HSGK-5-MG-160-115	A	EFK-054.G	80	160	160	110	99	60	72	116	-	12	115
HSGK-5-MG-160-125	A	EFK-054.G	90	160	160	110	99	60	72	116	-	12	125
HSGK-5-MG-160-135	A	EFK-054.G	100/112	160	160	110	99	60	72	116	-	12	135

Order code	Version	Dimensions [mm]										Mass
		I	K	L	M	N	P	R	S	T	U	[kg]
HSGK-3-MG-90-68	B	66	8,5	58	3	34	17	50	75	5,5	6,6	0,22
HSGK-3-MG-120-69	A	67	12	59	3,5	42	9	50	100	6,6	6,6	0,55
HSGK-3-MG-105-76	A	74	8	66	3	49	9	50	85	6,6	6,6	0,4
HSGK-3-MG-120-86	A	84	12	76	3,5	59	9	50	100	6,6	6,6	0,57
HSGK-3-MG-160-86	A	84	12	76	4	59	9	50	130	9	6,6	0,92
HSGK-3-MG-140-96	A	94	12	86	4	69	9	50	115	9	6,6	0,85
HSGK-3-MG-160-96	A	94	12	86	4	69	9	50	130	9	6,6	0,98
HSGK-3-MG-160-111	A	109	12	101	4	84	9	50	130	9	6,6	1,1
HSGK-4-MG-105-83	B	81	8	73	3	46	16	70	85	6,6	6,6	0,39
HSGK-4-MG-160-94	A	92	12	82	4	62	13	70	130	9	6,6	1,3
HSGK-4-MG-160-104	A	102	12	92	4	72	13	70	130	9	6,6	1,3
HSGK-4-MG-160-112	A	112	12	102	4	82	13	70	130	9	6,6	1,4
HSGK-5-MG-160-115	A	113	12	101	4	58	25	85	130	9	9	1,3
HSGK-5-MG-160-125	A	123	12	111	4	68	25	85	130	9	9	1,4
HSGK-5-MG-160-135	A	133	12	121	4	78	25	85	130	9	9	1,5

Accessories for all versions

3 phase motor type B14 - flange mounting

INKOMA-3 phase motors type B14, 4 pole (1500 1/min) totally enclosed, fan cooled to ISO standards, IP 54 / IP 55 protection, 230/ 400 V-50 Hz, internally cooled. When a brake to the second shaft extension is specified the motor length is increased.

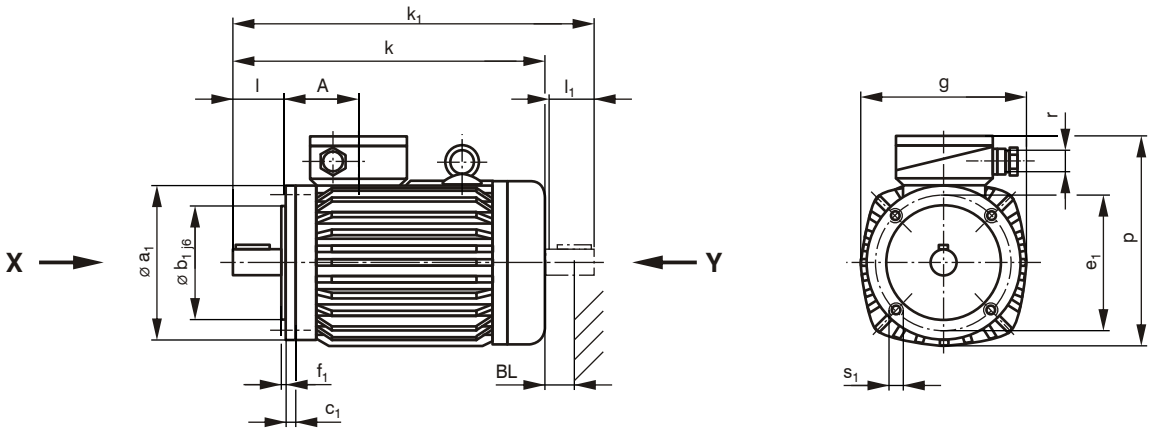
$$T\ [Nm] = \frac{P\ [kW] \cdot 9550}{n\ [1/min]}$$

T = Nominal torque
P = Nominal power
n = Nominal speed

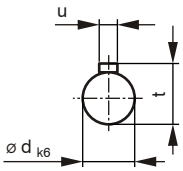
If the motor second shaft is fitted with a handwheel it is necessary to provide a device which disconnects the current before the handwheel can be used.
When mounting the screw jack to face mounting motors, protect the windings from damage by observing the maximum allowable mounting screw length. See manufacturer's instructions.

For other motors please enquire.

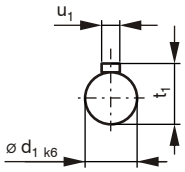




View on X



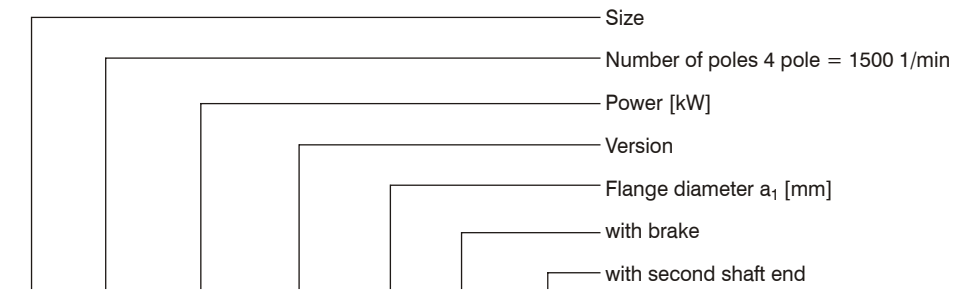
View on Y



Accessories in standard design for:

HSG	KSH	HSGK	DSH
X	X	X	

Ordering example:



80 - K4 - 0,55 - B14 - 120 - B - 2WE

Order code	Nominal power [kW]	Nominal speed [1/min]	Efficiency [%]	Power factor [-]	Nominal current at 380V [A]	Starting current I_A / I [-]	Starting torque M_a / M [-]	Pull-up torque M_s / M [-]	Breakdown torque M_k / M [-]	Mass moment of inertia J [kg m²]	Brake holding torque [Nm]	Mass [kg]
63 K4	0,12	1370	56	0,70	0,44	3,2	1,9	1,8	2,2	0,00019	4	5
63 G4	0,18	1360	59	0,70	0,63	3,3	2,0	2,0	2,3	0,00024	4	5
71 K4	0,25	1385	64	0,72	0,78	3,6	1,8	1,8	3,6	0,00040	4	7 (8)
71 G4	0,37	1370	66	0,76	1,06	3,8	2,0	2,0	3,8	0,00050	4	7 (8)
80 K4	0,55	1400	69	0,72	1,60	4,1	2,1	2,0	4,1	0,00087	8	11 (12)
80 G4	0,75	1400	71	0,73	2,10	4,3	2,2	2,1	4,3	0,00107	8	11 (12)
90 S4	1,10	1410	76	0,81	2,59	5,3	2,3	2,2	5,3	0,00207	8	15,5
90 L4	1,50	1400	77	0,83	3,40	5,5	2,5	2,4	5,5	0,00260	8	18
100 L4	2,20	1420	79	0,78	5,15	6,0	3,0	2,7	6,0	0,00400	13	23,5
100 LX4	3,00	1435	82	0,79	6,70	6,2	2,2	2,1	6,2	0,00725	32	30
112 M4	4,00	1435	83	0,78	8,95	6,6	2,8	2,5	6,6	0,00900	32	37

Order code	Dimensions [mm]										
	a_1	b_1	c_1	d	d_1	e_1	f_1	g	k	with brake k	k_1
63 K4 / 63 G4	90 (120)	60 (80)	8	11	11	75 (100)	2,5 (3)	109	179	231	205
71 K4 / 71 G4	105	70	8,5	14	14	85	2,5	124	206	258	239
80 K4 / 80 G4	120 (160)	80 (110)	8 (10)	19	19	100 (130)	3 (3,5)	139	249	305	293
90 S4	140 (160)	95 (110)	10	24	22	115 (130)	3 (3,5)	157	275	343	330
90 L4	140 (160)	95 (110)	10	24	22	115 (130)	3 (3,5)	157	297	365	352
100 L4	160 (200)	110 (130)	10,5 (12)	28	24	130 (165)	3,5	177	331	402	386
100 LX4	160 (200)	110 (130)	10 (12)	28	28	130 (165)	3,5	196	357	445	425
112 M4	160 (200)	110 (130)	10 (12)	28	28	130 (165)	3,5	196	391	479	459

Order code	Dimensions [mm]									
	l	l_1	p	r	s_1	t	t_1	u	u_1	A	$BL_{min.}$
63 K4 / 63 G4	23	23	149 (155)	Pg 13,5	M5 (M6)	12,5	12,5	4	4	58	14
71 K4 / 71 G4	30	30	165	Pg 16	M6	16	16	5	5	61	14
80 K4 / 80 G4	40	40	180 (190,5)	Pg 16	M6 (M8)	21,5	21,5	6	6	67	16
90 S4	50	50	200	Pg 16	M8	27	24,5	8	6	70	16
90 L4	50	50	200	Pg 16	M8	27	24,5	8	6	70	16
100 L4	60	50	215 (226,5)	Pg 16	M8 (M10)	31	27	8	8	75	18
100 LX4	60	60	234 (236)	Pg 16	M8 (M10)	31	31	8	8	77	20
112 M4	60	60	234 (236)	Pg 16	M8 (M10)	31	31	8	8	77	20

Accessories for all versions

3 phase motor type B3 - foot mounting

INKOMA-3 phase motors type B3, 4 pole (1500 1/min) totally enclosed, fan cooled to ISO standards, IP 54 / IP 55 protection, 230/ 400 V-50 Hz, internally cooled. When a brake to the second shaft extension is specified the motor length is increased.

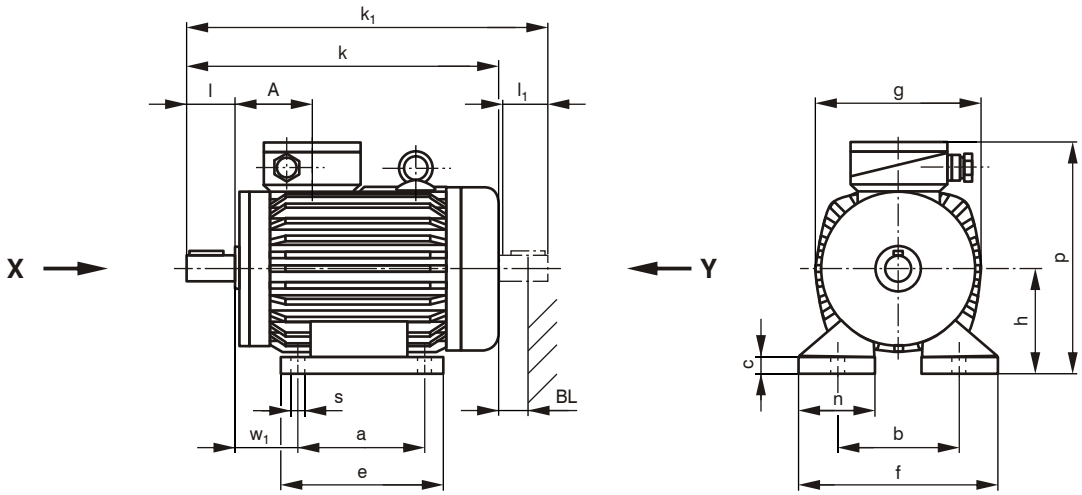
$$T\ [Nm] = \frac{P\ [kW] \cdot 9550}{n\ [1/min]}$$

T= Nominal torque
P= Nominal power
n= Nominal speed

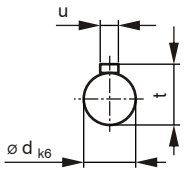
If the motor second shaft is fitted with a handwheel it is necessary to provide a device which disconnects the current before the handwheel can be used.

For other motors please enquire.

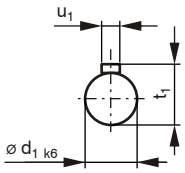




View on X



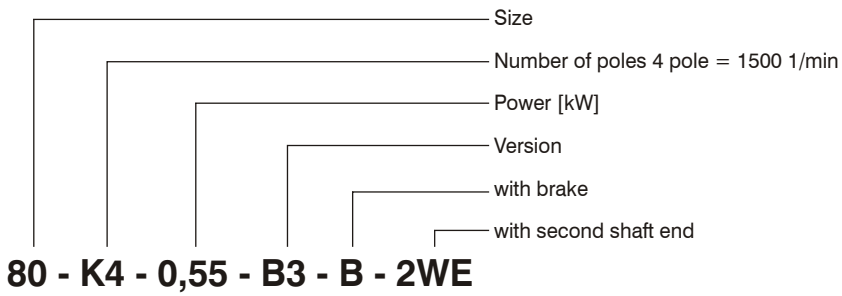
View on Y



Accessories in standard design for:

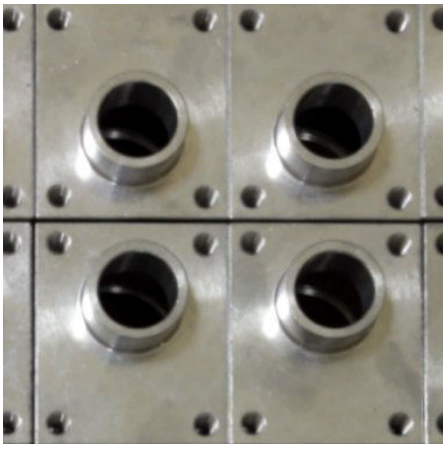
HSG	KSH	HSGK	DSH
X	X	X	

Ordering example:



Order code	Nominal power [kW]	Nominal speed [1/min]	Efficiency [%]	Power factor [-]	Nominal current at 380V [A]	Starting current I_A / I [-]	Starting torque M_a / M [-]	Pull-up torque M_s / M [-]	Breakdown torque M_k / M [-]	Mass moment of inertia J [kg m²]	Brake holding torque [Nm]	Mass [kg]
63 K4	0,12	1370	56	0,70	0,44	3,2	1,9	1,8	2,2	0,00019	4	4,8
63 G4	0,18	1360	59	0,70	0,63	3,3	2,0	2,0	2,3	0,00024	4	4,8
71 K4	0,25	1385	64	0,72	0,78	3,6	1,8	1,8	3,6	0,00040	4	6,8
71 G4	0,37	1370	66	0,76	1,06	3,8	2,0	2,0	3,8	0,00050	4	6,8
80 K4	0,55	1400	69	0,72	1,60	4,1	2,1	2,0	4,1	0,00087	8	10,6
80 G4	0,75	1400	71	0,73	2,10	4,3	2,2	2,1	4,3	0,00107	8	10,6
90 S4	1,10	1410	76	0,81	2,59	5,3	2,3	2,2	5,3	0,00207	8	15,5
90 L4	1,50	1400	77	0,83	3,40	5,5	2,5	2,4	5,5	0,00260	8	18
100 L4	2,20	1420	79	0,78	5,15	6,0	3,0	2,7	6,0	0,00400	13	23,5
100 LX4	3,00	1435	82	0,79	6,70	6,2	2,2	2,1	6,2	0,00725	32	30
112 M4	4,00	1435	83	0,78	8,95	6,6	2,8	2,5	6,6	0,00900	32	37
132 S4	5,50	1440	83	0,82	11,50	6,5	2,4	2,1	3,2	0,01500	80	50
132 M4	7,50	1440	85	0,82	15,50	5,5	2,0	1,7	2,4	0,02800	90	69
160 M4	11,0	1440	87	0,83	22,00	6,0	2,1	1,7	2,4	0,03500	150	86
160 L4	15,0	1455	89	0,86	28,50	6,0	2,1	1,7	2,5	0,07800	240	120
180 M4	18,5	1455	90	0,86	34,50	6,0	2,3	1,7	2,5	0,09000	240	136
180 L4	22,0	1470	90,5	0,84	42,00	6,5	2,0	1,8	2,6	0,13800	360	170
200 L4	30,0	1465	91,5	0,85	55,50	6,0	2,0	1,7	2,4	0,16800	360	200

Order code	Dimensions [mm]																				
	a	b	c	d	d_1	e	f	g	h	k	k with brake	k_1	l	l_1	n	p	s	t	t_1	u	u_1	w_1
63 K4 / 63 G4	80	100	10	11	11	100	128	109	63	179	231	205	23	23	28	161	8	12,5	12,5	4	4	40
71 K4 / 71 G4	90	112	11	14	14	116	138	124	71	206	258	239	30	30	32	175	8	16	16	5	5	45
80 K4 / 80 G4	100	125	12	19	19	125	168	139	80	249	305	293	40	40	38	191	10	21,5	21,5	6	6	50
90 S4	100	140	14	24	22	130	178	157	90	275	343	330	50	50	40	210	10	27	24,5	8	6	56
90 L4	125	140	14	24	22	155	178	157	90	297	365	352	50	50	40	210	12	27	24,5	8	6	56
100 L4	140	160	15	28	24	175	192	177	100	331	402	386	60	50	45	227	12	31	27	8	8	63
100 LX4	140	160	11	28	28	171	188	196	100	357	445	425	60	60	33	237	12	31	31	8	8	63
112 M4	140	190	18	28	28	180	224	196	112	391	479	459	60	60	50	249	12	31	31	8	8	70
132 S4	140	216	16	38	32	180	256	217	132	459	564	542	80	80	50	310	12	41	35	10	10	89
132 M4	178	216	16	38	38	218	256	258	132	481	596	565	80	80	50	332	12	41	41	10	10	89
160 M4	210	254	18	42	38	257	296	258	160	559	674	643	110	80	55	360	15	45	41	12	10	108
160 L4	254	254	18	42	42	301	296	313	160	609	737	724	110	110	55	402	15	45	45	12	12	108
180 M4	241	279	20	48	42	288	328	313	180	609	737	724	110	110	62	422	15	51,5	45	14	12	121
180 L4	279	279	20	48	48	326	328	351	180	680	827	796	110	110	62	441	15	51,5	51,5	14	14	121
200 L4	305	318	22	55	48	360	372	351	200	680	827	796	110	110	70	461	19	59	51,5	16	14	133






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