

HSG screw jack (cubic design)

INKOMA-GROUP

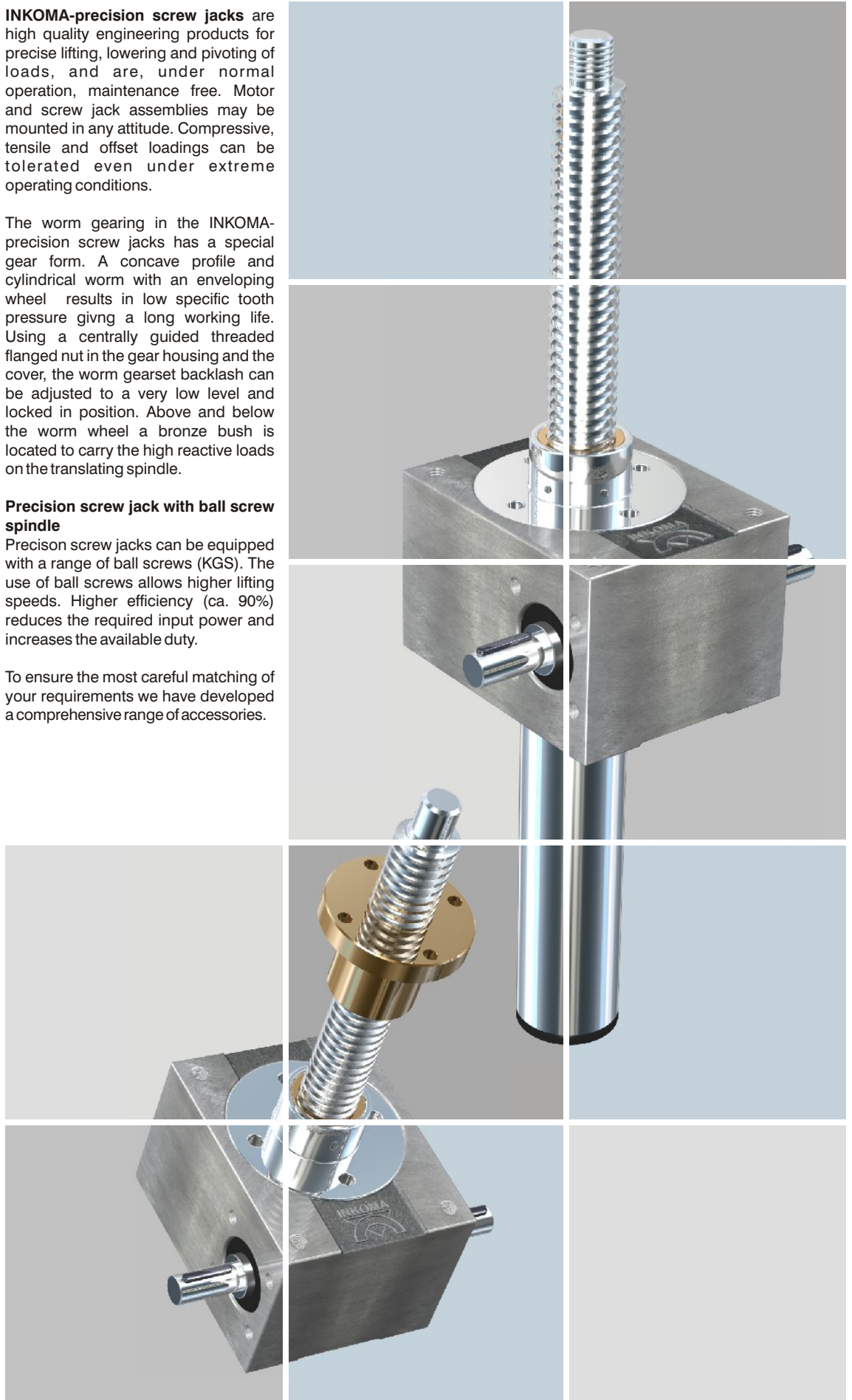
INKOMA-precision screw jacks are high quality engineering products for precise lifting, lowering and pivoting of loads, and are, under normal operation, maintenance free. Motor and screw jack assemblies may be mounted in any attitude. Compressive, tensile and offset loadings can be tolerated even under extreme operating conditions.

The worm gearing in the INKOMA-precision screw jacks has a special gear form. A concave profile and cylindrical worm with an enveloping wheel results in low specific tooth pressure giving a long working life. Using a centrally guided threaded flanged nut in the gear housing and the cover, the worm gearset backlash can be adjusted to a very low level and locked in position. Above and below the worm wheel a bronze bush is located to carry the high reactive loads on the translating spindle.

Precision screw jack with ball screw spindle

Precision screw jacks can be equipped with a range of ball screws (KGS). The use of ball screws allows higher lifting speeds. Higher efficiency (ca. 90%) reduces the required input power and increases the available duty.

To ensure the most careful matching of your requirements we have developed a comprehensive range of accessories.



HSG screw jack (cubic design)

Rotating version R



Translating version S



Rotating version R

In rotating version (R) linear motion of the nut results from rotational motion in the spindle. In this version the spindle is axially fixed in the gear housing.

R: Rotating spindle

Translating version S

In translating version (S) linear motion results from the movement of the non rotating spindle through a rotating integral nut. The spindle is guided through the screw jack housing and must not be allowed to rotate. Over-travel of the spindle is prevented by a travel limiter (version SA). Spindle rotation can be prevented by the use of a rotation prevention device (SV). These two functions can be combined (version SVA).

S: Translating spindle

SA: Translating spindle with travel limiter

SV: Translating spindle with rotation prevention

SVA: Translating spindle with rotation prevention and travel limiter

Ratio: N: normal, L: slow

Lubrication: Grease

Accessories: see accessories for HSG, KSH, HSGK and DSH

Order code		max. dynamic lifting force $F_{dyn.}$ [kN]	max. static lifting force $F_{stat.}$ [kN]	Lift per revolution N / L [mm]	Ratio N / L i	Spindle d [mm]
Trapezoidal spindle - R, S, SA, SV, SVA	HSG-0	-	2,5	1 / 0,25	4:1 / 16:1	Tr16x4
	HSG-1	-	5	1 / 0,25	4:1 / 16:1	Tr18x4
	HSG-2	-	10	1 / 0,25	4:1 / 16:1	Tr20x4
	HSG-3	-	25	1 / 0,25	6:1 / 24:1	Tr30x6
	HSG-4	-	50	1 / 0,25	7:1 / 28:1	Tr40x7
	HSG-5	-	100	1 / 0,25	9:1 / 36:1	Tr60x9
	HSG-200	-	200	1 / 0,25	10:1 / 40:1	Tr70x10
	HSG-300	-	300	1 / 0,25	12:1 / 48:1	Tr90x12
	HSG-400	-	400	1 / 0,25	12:1 / 48:1	Tr100x12
	HSG-500	-	500	1 / 0,25	14:1 / 56:1	Tr120x14
Ball screw spindle - SA, SVA	HSG-1-KGS	2,5	2,5	1,25 / 0,31	4:1 / 16:1	KGS 12x5
	HSG-2-KGS	9,3	10	1,25 / 0,31	4:1 / 16:1	KGS 16x5
	HSG-3-KGS-25x5	12,3	22,5 / 25	0,83 / 0,20	6:1 / 24:1	KGS 25x5
	HSG-3-KGS-25x10	13,2	25	1,67 / 0,41	6:1 / 24:1	KGS 25x10
	HSG-4-KGS-32x5	21,5	49,3	0,71 / 0,18	7:1 / 28:1	KGS 32x5
	HSG-4-KGS-32x10	33,4	50	1,43 / 0,36	7:1 / 28:1	KGS 32x10
	HSG-5-KGS-40x5	20,3	59,2	0,55 / 0,14	9:1 / 36:1	KGS 40x5
	HSG-5-KGS-40x10	55	100	1,11 / 0,28	9:1 / 36:1	KGS 40x10
	HSG-5-KGS-50x5	22	75,7	0,55 / 0,13	9:1 / 36:1	KGS 50x5
HSG-5-KGS-50x10	58,7	100	1,11 / 0,28	9:1 / 36:1	KGS 50x10	
Ball screw spindle - R	HSG-0-KGS	2,5	2,5	1,25 / 0,31	4:1 / 16:1	KGS 12x5
	HSG-1-KGS	5	5	1,25 / 0,31	4:1 / 16:1	KGS 16x5
	HSG-2-KGS-20x5	10	10	1,25 / 0,31	4:1 / 16:1	KGS 20x5
	HSG-2-KGS-25x10	10	10	2,5 / 0,63	4:1 / 16:1	KGS 25x10
	HSG-3-KGS-32x5	21,5	25	0,83 / 0,21	6:1 / 24:1	KGS 32x5
	HSG-3-KGS-32x10	25	25	1,67 / 0,42	6:1 / 24:1	KGS 32x10
	HSG-4-KGS-40x5	23,4	50	0,71 / 0,18	7:1 / 28:1	KGS 40x5
	HSG-4-KGS-40x10	39,8	50	1,43 / 0,36	7:1 / 28:1	KGS 40x10
	HSG-5-KGS-63x10	84,7	100	1,11 / 0,28	9:1 / 36:1	KGS 63x10
	HSG-5-KGS-63x20	100	100	2,22 / 0,56	9:1 / 36:1	KGS 63x20
	HSG-200-KGS-80x10	93,4	200	1,00 / 0,25	10:1 / 40:1	KGS 80x10
	HSG-200-KGS-80x20	135	200	2,00 / 0,50	10:1 / 40:1	KGS 80x20

Special sizes and designs are possible - please enquire.

INKOMA



INKOMA - GROUP Headoffice

Sitz der INKOMA Maschinenbau GmbH

Neue Reihe 44

D - 38162 Schandelah - Germany

phone: +49/(0)5306-9221- 0

fax: +49/(0)5306-9221-50

e-mail: info@inkoma.de

internet: www.INKOMA-GROUP.com

Request our [complete catalogue](#) or visit us on the [Internet](#). You can obtain a free download of our brochure or the product drawing of the selected item using the [CADENAS](#) facility.