

INKOMA /ALBERT

Great ideas need drive.

HSG SCREW JACK





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.

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

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

TECHNICAL INFORMATION

MODEL	MAX. DYNAMIC LIFTING FORCE $F_{DYN. [kN]}$	MAX. STATIC LIFTING FORCE $F_{STAT. [kN]}$	LIFT PER REVOLUTION $N/L [mm]$	RATIO N/L_1	SPINDLE $D [mm]$
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TRAPEZOIDAL SPINDLE R, S, SA, SV, SVA

HSG-0	-	2,5	1 / 0,25	4:1 / 16:1	Tr 16x4
HSG-1	-	5	1 / 0,25	4:1 / 16:1	Tr 18x4
HSG-2	-	10	1 / 0,25	4:1 / 16:1	Tr 20x4
HSG-3	-	25	1 / 0,25	6:1 / 24:1	Tr 30x6
HSG-4	-	50	1 / 0,25	7:1 / 28:1	Tr 40x7
HSG-5	-	100	1 / 0,25	9:1 / 36:1	Tr 60x9
HSG-200	-	200	1 / 0,25	10:1 / 40:1	Tr 70x10
HSG-300	-	300	1 / 0,25	12:1 / 48:1	Tr 90x12
HSG-400	-	400	1 / 0,25	12:1 / 48:1	Tr 100x12
HSG-500	-	500	1 / 0,25	14:1 / 56:1	Tr 120x14

ROTATING VERSION R



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	75,5	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

TRANSLATING VERSION S



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

RATIO N: normal, L: slow

LUBRICATION: Grease

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

Special sizes and designs are possible - please enquire.

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Great ideas need drive.



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