

KSH Bevel gear high speed screw jack

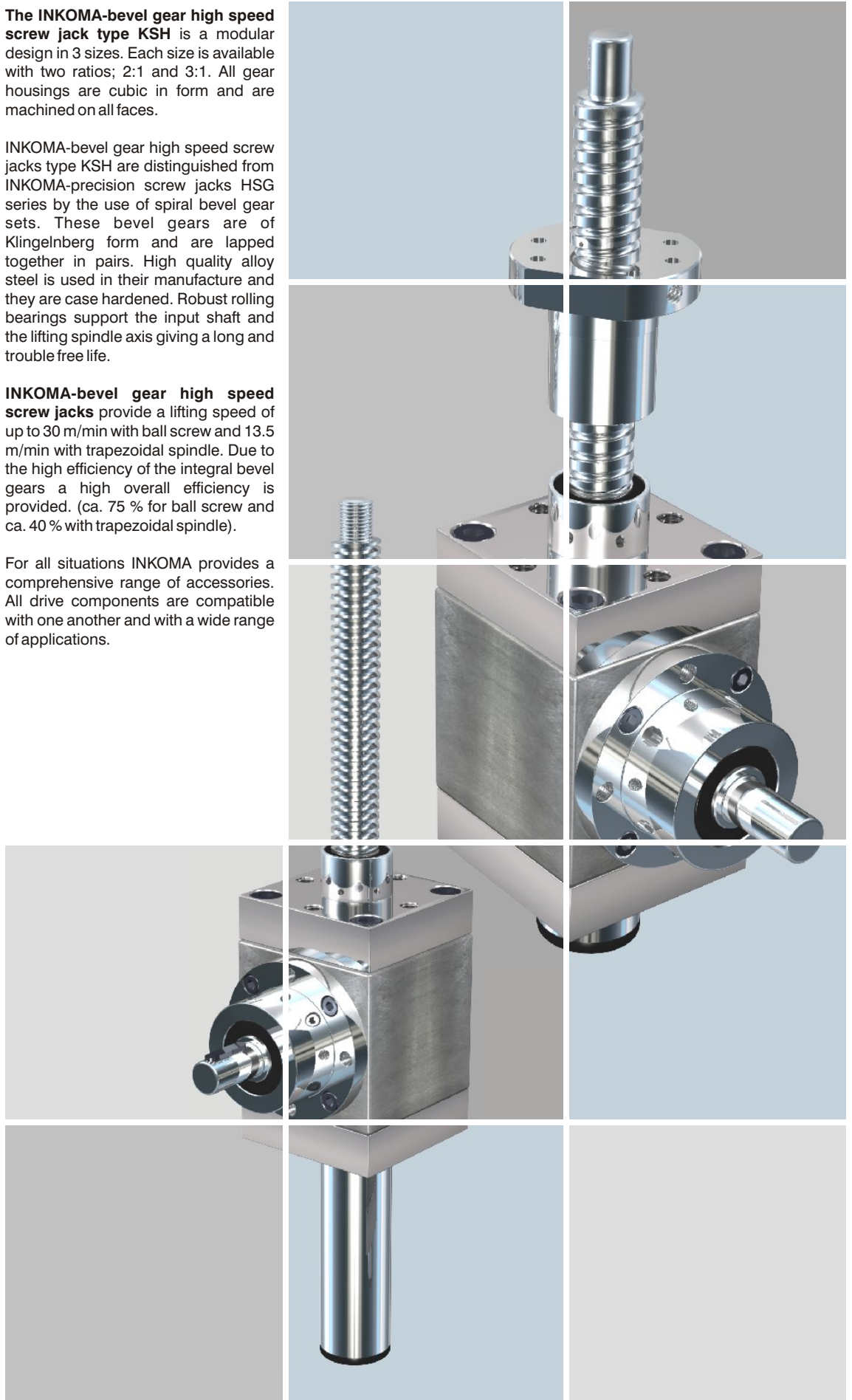
INKOMA-GROUP

The **INKOMA-bevel gear high speed screw jack type KSH** is a modular design in 3 sizes. Each size is available with two ratios; 2:1 and 3:1. All gear housings are cubic in form and are machined on all faces.

INKOMA-bevel gear high speed screw jacks type KSH are distinguished from INKOMA-precision screw jacks HSG series by the use of spiral bevel gear sets. These bevel gears are of Klingelnberg form and are lapped together in pairs. High quality alloy steel is used in their manufacture and they are case hardened. Robust rolling bearings support the input shaft and the lifting spindle axis giving a long and trouble free life.

INKOMA-bevel gear high speed screw jacks provide a lifting speed of up to 30 m/min with ball screw and 13.5 m/min with trapezoidal spindle. Due to the high efficiency of the integral bevel gears a high overall efficiency is provided. (ca. 75 % for ball screw and ca. 40 % with trapezoidal spindle).

For all situations INKOMA provides a comprehensive range of accessories. All drive components are compatible with one another and with a wide range of applications.



KSH Bevel gear high speed screw jack

Rotating version R



Translating version SA, SVA



Rotating version R

In rotating version (R) linear motion of the nut results from rotational motion in the spindle. The spindle is axially fixed in the screw jack gearbox.

R: Rotating spindle

Translating version SA, SVA

In translating version (SA, SVA) the linear motion results from movement of the spindle. In the translating spindle version the spindle moves axially through the screw jack gearbox. It is necessary to ensure that the spindle is fixed against rotation. Over-travel of the spindle is limited by a travel limiter (SA). Use of the rotation prevention device prevents potential spindle rotation (SVA).

SA: Translating spindle with travel limiter

SVA: Translating spindle with rotation prevention and travel limiter

Ratio: 2:1, 3:1

Lubrication: Oil

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

	Order code	F_{dyn} max. dynamic lifting force [kN]	F_{stat} max. static lifting force [kN]	Lift per revolution N / L [mm]	Ratio N / L i	Spindle d [mm]
Trapezoidal spindle R, SA, SVA	KSH-1	-	15	2,5 / 1,66	2:1 / 3:1	Tr 24x5
	KSH-2	-	40	3,5 / 2,33	2:1 / 3:1	Tr 40x7
	KSH-3	-	90	4,5 / 3,0	2:1 / 3:1	Tr 60x9
Ball screw spindle SA, SVA	KSH-1-KGS-25x5	14,9	15	2,5 / 1,66	2:1 / 3:1	KGS 25x5
	KSH-1-KGS-25x10	13,2	15	5 / 3,33	2:1 / 3:1	KGS 25x10
	KSH-2-KGS-40x5	23,4	40	2,5 / 1,66	2:1 / 3:1	KGS 40x5
	KSH-2-KGS-32x10	33,4	40	5 / 3,33	2:1 / 3:1	KGS 32x10
	KSH-2-KGS-32x20	29,7	40	10 / 6,66	2:1 / 3:1	KGS 32x20
	KSH-3-KGS-63x10	76	90	5 / 3,33	2:1 / 3:1	KGS 63x10
Ball screw spindle R	KSH-1-KGS-25x5	14,9	15	2,5 / 1,66	2:1 / 3:1	KGS 25x5
	KSH-1-KGS-25x10	15	15	5 / 3,33	2:1 / 3:1	KGS 25x10
	KSH-2-KGS-40x5	23,3	40	2,5 / 1,66	2:1 / 3:1	KGS 40x5
	KSH-2-KGS-40x10	39,8	40	5 / 3,33	2:1 / 3:1	KGS 40x10
	KSH-2-KGS-40x20	23,8	36	10 / 6,66	2:1 / 3:1	KGS 40x20
	KSH-3-KGS-63x10	84,7	90	5 / 3,33	2:1 / 3:1	KGS 63x10
	KSH-3-KGS-63x20	90	90	10 / 6,66	2:1 / 3:1	KGS 63x20

Special sizes and designs are possible - please enquire.



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