JSL series Aluminium* Bevel Gear Ball Screw Jacks

* Except for the largest model JSL40 which is ductile iron gear housing

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Spiral bevel gear jacks with ball screw spindle, integral mitre bevel gear, jack housing of high strength aluminium alloy with oxidation treatment (except JSL40).

Compared to cast iron gearbox they are light weight and dissipated heat quickly.

They feature 1, 2, 3 or 4 alloy steel input shafts with a choice of 2 gear ratios plus a choice of 3 ball screw leads to provide a wide range of performance capability.

These jacks are especially suited for high speed and high frequency operation due to utilizing spiral bevel gears and high quality ball screw spindles.

They also have high overall efficiency and may require a load holding brake depending on the application.

Complete Specifications

Model		JSL16	JSL20	JSL25	JSL32	JSL40
Rated dynamic load (kN)		1	3	5	10	15
Ball Screw Diameter x Lead (mm)		Ø16 x 5	Ø20 x 5	Ø25 x 5	Ø32 x 5	Ø40 x 5
		Ø16 x 10	Ø20 x 10	Ø25 x 10	Ø32 x 10	Ø40 x 10
		Ø16 x 16	Ø20 x 20	Ø25 x 25	Ø32 x 20	Ø40 x 20
					Ø32 x 32	Ø40 x 40
Gear ratio	H	**1:1**	**1:1**	**1:1**	**1:1**	**1:1**
Lift screw travel (mm), per turn of input shaft	H	5	5	5	5	5
		10	10	10	10	10
		16	20	25	20	20
					32	40
Gear ratio	L	**2:1**	**2:1**	**2:1**	**2:1**	**2:1**
Lift screw travel (mm), per turn of input shaft	L	2.5	2.5	2.5	2.5	2.5
		5	5	5	5	5
		8	10	12.5	10	10
					16	20
Overall Efficiency %		50	50	50	50	50
Starting Efficiency %		35	35	35	35	35
Max. permissible input power (kw)		0.55	1.1	1.5	3	4
Max. permissible input speed (rpm)		800	800	800	800	800
Permissible Input Torque (Nm)		15	30	49	140	200
No-Load Torque (Nm)		0.5	0.8	1	1.4	2
Duty Cycles		60%	60%	60%	60%	60%
Housing(Gearbox) Material		Aluminum Alloy				Ductile Iron

A full catalogue is in preparation and drawings are available on request.