SGT screw jack

INKOMA-GROUP

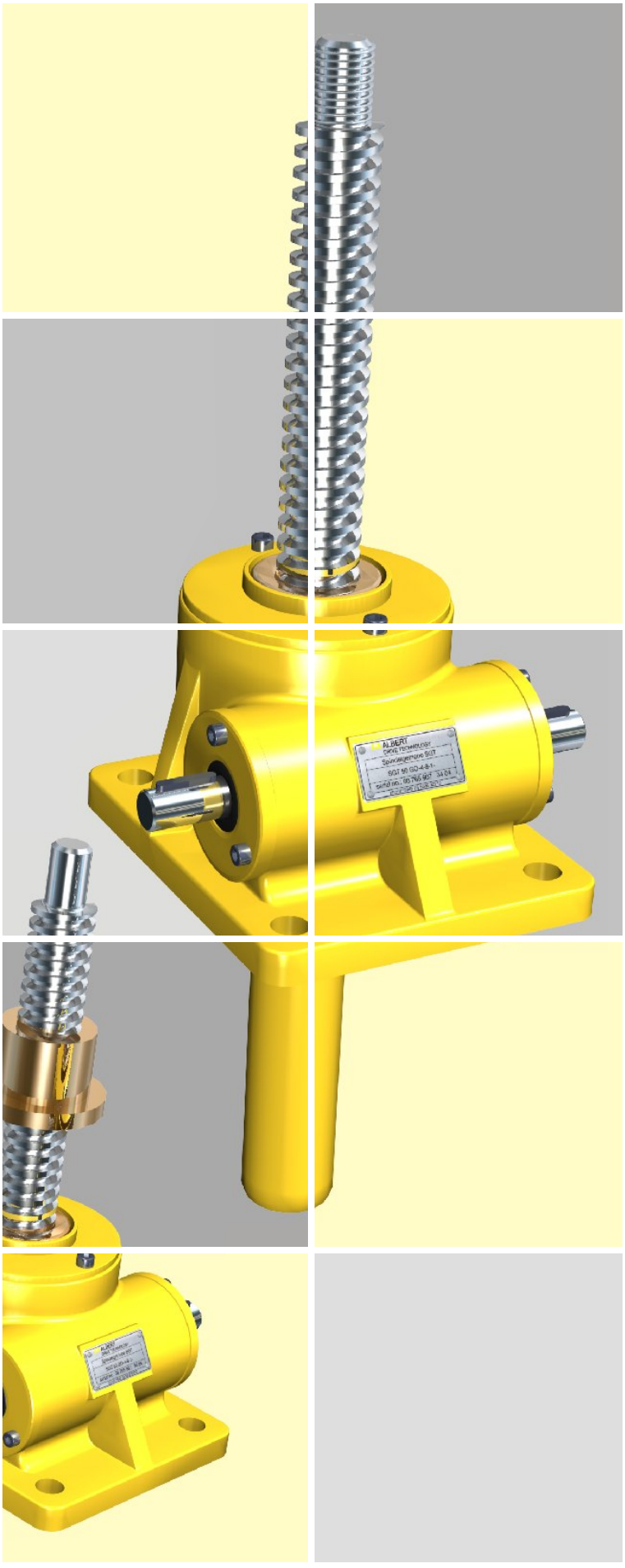
ALBERT-SGT-screw jacks are electromechanical transmission components suitable for a wide spectrum of industrial machinery. A range of 11 sizes, coupled with a modular approach to nut and installation arrangements, satisfy customer design requirements.

The range has a logical progression of load capability between 5 and 1000 kN. Higher loads are possible and spindles up to 10m long can be provided. Normal stroke speeds up to 0.05m/s: For higher speeds please enquire.

Logically designed combinations of standard components, with good interchangeability, make simple installation possible whilst permitting operation in any chosen position and attitude with minimum space requirement.

ALBERT-SGT-screw jacks can be provided with electrical, hydraulic, pneumatic and manual inputs. Precise relative motion is provided for screw jacks used in combination but with unequal loads. Rest positions are maintained by the self locking trapezoidal spindle or by the use of a brake motor.

The wide range of available accessories ensures the closest possible match to customer requirements.



SGT screw jack

Basic design

G configuration (basic design) has two versions: GO (basic design, spindle above) and GU (basic design, spindle below). In both cases the spindle moves to transmit the linear lifting motion. The spindle is axially guided through the screw jack gear housing. Any tendency of the spindle to rotate must be resisted.

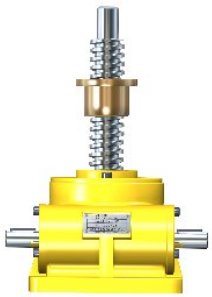
Version GO

Version GU

Running nut design

L configuration (running nut) has two versions: LO (running nut, spindle above) and LU (running nut, spindle below). The axial movement of the nut transmits the linear lifting motion due to spindle rotation. In this configuration the spindle is axially fixed in the gear housing.

Version LO



Version LU

	Order code	Static lifting force [1] $F_{max.}$ [kN]	Lift per revolution N / L [mm]	Ratio N / L i	Spindle d [mm]
Trapezoidal spindle - GO, GU	SGT 5	5	0,6 / 0,25	10 / 24	Tr 20x6
	SGT 20	20	1 / 0,25	6 / 24	Tr 26x6
	SGT 30	30	1 / 0,25	6 / 24	Tr 30x6
	SGT 50	50	1,17 / 0,29	6 / 24	Tr 40x7
	SGT 150	150	1,5 / 0,5	8 / 24	Tr 60x12
	SGT 200	200	1,5 / 0,5	8 / 24	Tr 65x12
	SGT 300	300	1,5 / 0,5	10,66 / 32	Tr 90x16
	SGT 350	350	1,5 / 0,5	10,66 / 32	Tr 100x16
	SGT 500	500	1,5 / 0,5	10,66 / 32	Tr 120x16
	SGT 750	750	1,5 / 0,5	10,66 / 32	Tr 140x16
	SGT 1000	1000	1,67 / 0,56	12 / 36	Tr 160x20
Trapezoidal spindle - LO, LU	SGT 5	5	0,6 / 0,25	10 / 24	Tr 20x6
	SGT 20	20	1 / 0,25	6 / 24	Tr 26x6
	SGT 30	30	1 / 0,25	6 / 24	Tr 30x6
	SGT 50	50	1,17 / 0,29	6 / 24	Tr 40x7
	SGT 150	150	1,5 / 0,5	8 / 24	Tr 60x12
	SGT 200	200	1,5 / 0,5	8 / 24	Tr 65x12
	SGT 300	300	1,5 / 0,5	10,66 / 32	Tr 90x16
	SGT 350	350	1,5 / 0,5	10,66 / 32	Tr 100x16
	SGT 500	500	1,5 / 0,5	10,66 / 32	Tr 120x16
	SGT 750	750	1,5 / 0,5	10,66 / 32	Tr 140x16
	SGT 1000	1000	1,67 / 0,56	12 / 36	Tr 160x20

[1] The values for max. load apply only for initial jack selection. The actual permitted lifting force depends on the version of the jack and the operating conditions.

Special sizes and executions are possible, please enquire.

Ratio: **N**: normal, **L**: slow

Lubrication: grease

Accessories: see accessories for SGT screw jacks

ALBERT

Maschinenfabrik ALBERT GmbH
Technologiepark 2
A - 4851 Gampern - Austria

phone: +43/(0)7682-39080-10
fax: +43/(0)7682-39080-99
e-mail: office@albert.at
internet: www.ALBERT.at

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