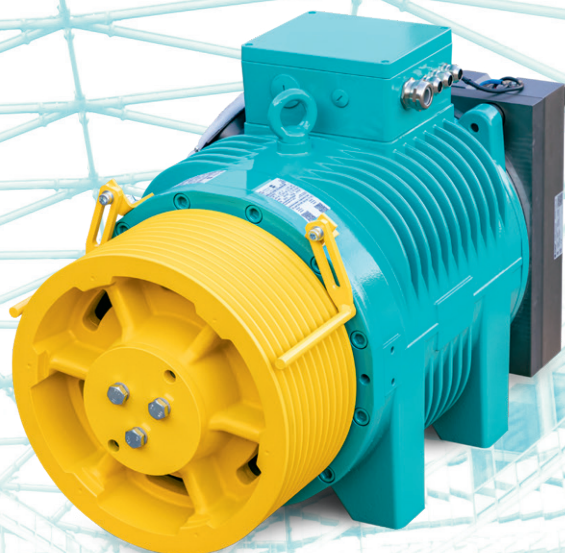


# WSG-LF

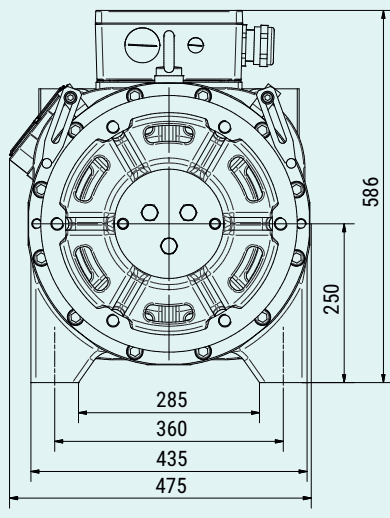
## GEARLESS SYNCHRONOUS LIFT MACHINE

- ▶ Low-vibration and silent thanks to a perfectly matching magnet design
- ▶ Compliant with EN 81-20/50
- ▶ Modular system allows a lot of options
- ▶ Shaft loads up to 100 kN
- ▶ Rope tension in all directions
- ▶ UL/CSA certification (option)



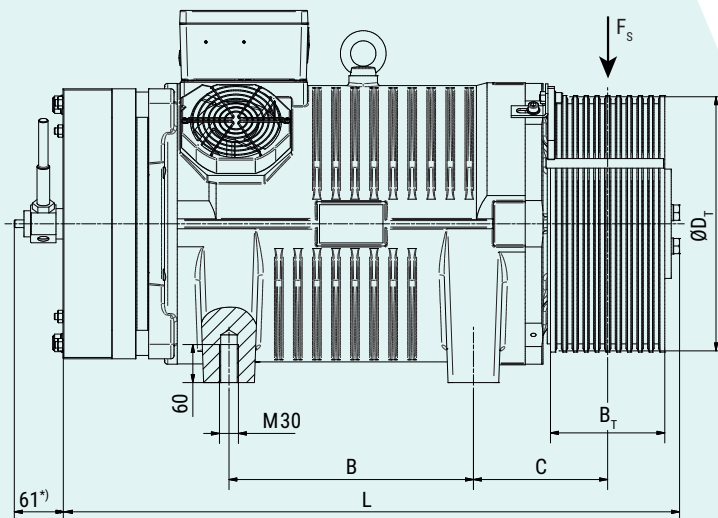
# WSG-LF

## GEARLESS SYNCHRONOUS LIFT MACHINE



Dimensions in mm

\*) only for WSG-LF.3/S



WSG-	LF.1			LF.2			LF.3			LF.S		
dia. $D_T$	400	480	520	400	480	520	400	480	520	400	480	520
$B_T$	180	195	195	180	195	195	180	195	195	180	195	195
C	211.5	218	220	211.5	218	220	211.5	218	220	211.5	218	220
L	905			905			987			987		
B	272			272			385			385		
$m_G$ [kg]	570	610	640	610	650	685	720	765	790	750	800	825
$J_G$ [kgm <sup>2</sup> ]	2.5	4.6	6.4	2.6	4.7	6.5	2.8	4.9	6.7	2.9	5.0	6.8
$F_s$ [kN]	63			63			63			100		

### FEATURES

- Compliant with EN 81-20/50
- Rope tension in all directions
- Modular system allows a lot of options
- Low-vibration and silent thanks to a perfectly matching magnet design
- Solid construction for permissible shaft loads at the traction sheave up to 100 kN
- Safety brake system with electro-magnetical release, manual release as an option, contacts for brake control, dust over for the brake air gap
- EC type-examination certificate according to EN 81-20/50, can be used for UCM solution
- Synchronous motor, 20-pole, with high-efficiency permanent magnets, insulation class 155 (F)
- Variable options regarding voltage, speed, torque, measuring system and traction sheave parameters

\*) On request a traction sheave with a diameter of 320, 600, 650 or 686 mm is also available.

Motor type		WSG-LF.1			WSG-LF.2			WSG-LF.3			WSG-LF.S		
torque (S3-40 %)	$M_N$ [Nm]	900			1,200			1,650			1,850		
max. torque	$M_{max}$ [Nm]	1,800			2,400			3,300			3,700		
brake torque	$M_{br}$ [Nm]	2 x 1,200			2 x 1,500			2 x 2,000			2 x 2,000		
traction sheave	$D_T$ [mm]	400	480	520	400	480	520	400	480	520	400	480	520
for loads up to	Q [kg]	1,600	1,250	1,050	2,050	1,750	1,550	2,750	2,200	2,000	3,000	2,500	2,200
suspension		table applies for 2 : 1											
	v [ms]	$P_N$ [kW]	$I_N$ [A]	$P_N$ [kW]	$I_N$ [A]	$P_N$ [kW]	$I_N$ [A]	$P_N$ [kW]	$I_N$ [A]	$P_N$ [kW]	$I_N$ [A]	$P_N$ [kW]	$I_N$ [A]
	0.63	5.7	20.5	4.7	20.5	4.4	20.5	7.6	26.0	6.3	26.0	5.8	26.0
	1.0	9.0	28.4	7.5	28.4	6.9	28.4	12.0	35.0	10.0	35.0	9.2	35.0
	1.6	14.4	41.6	12.0	35.6	11.1	35.6	19.2	53.0	16.0	45.5	14.8	45.5
	2.0	18.0	50.4	15.0	50.4	13.8	41.5	24.0	64.0	20.0	64.0	18.5	53.0
	2.5	22.5	63.9	18.7	56.6	17.3	50.4	30.0	87.2	25.0	74.0	23.1	64.0
	3.0	27.0	73.5	22.5	63.9	20.8	56.6	36.0	96.0	30.0	87.2	27.7	74.0
	3.5					24.2	63.9					32.3	87.2

Reference values. Achievable nominal load depends on specific elevator system data.