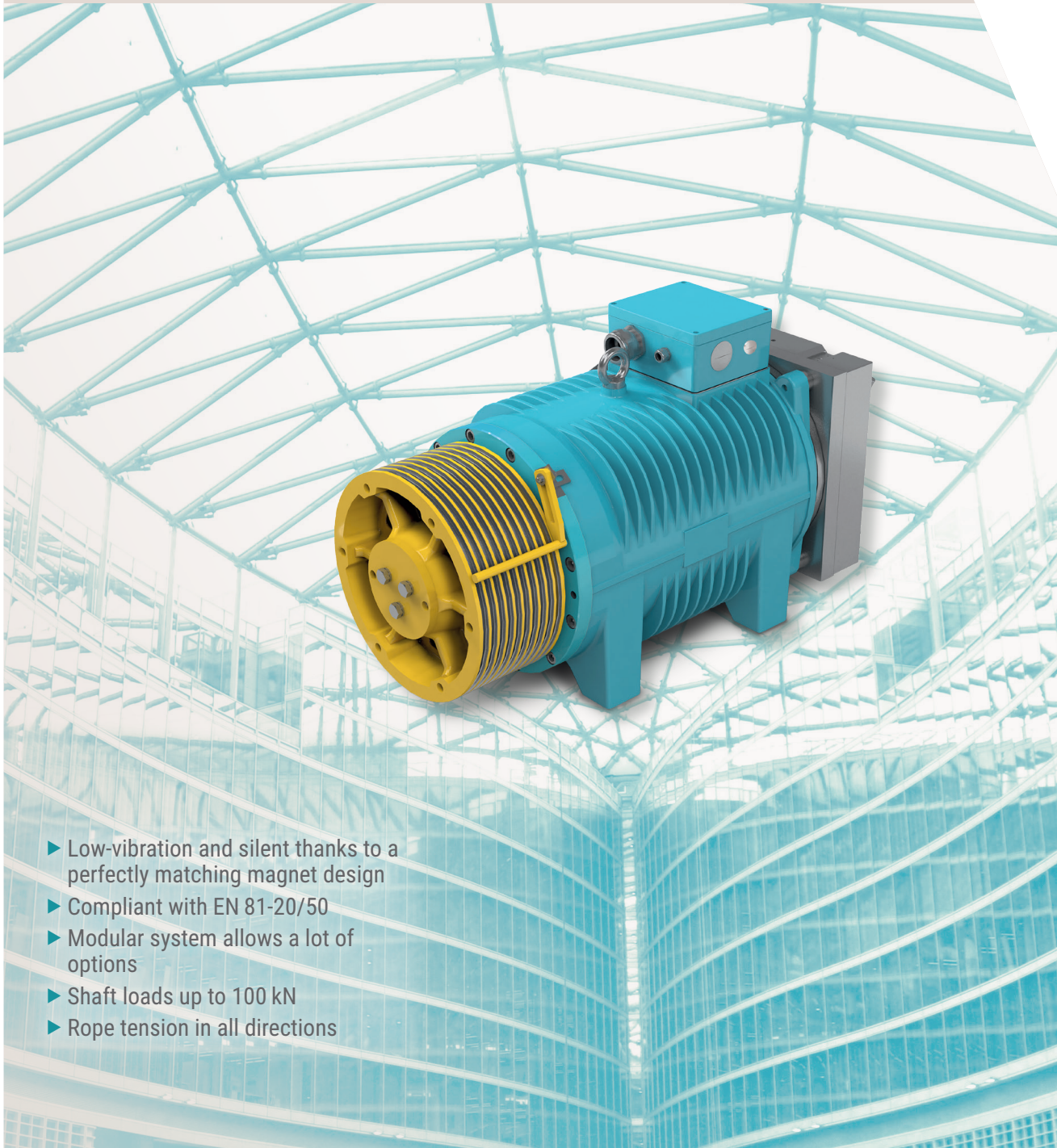
WITTUR

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

safety in motion™

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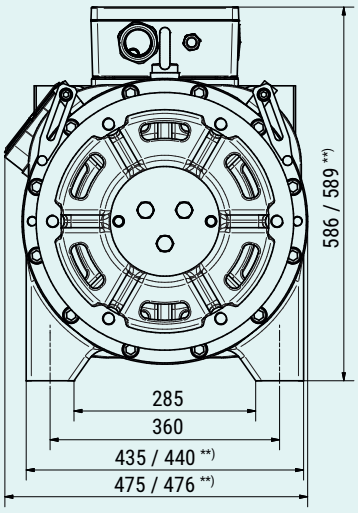

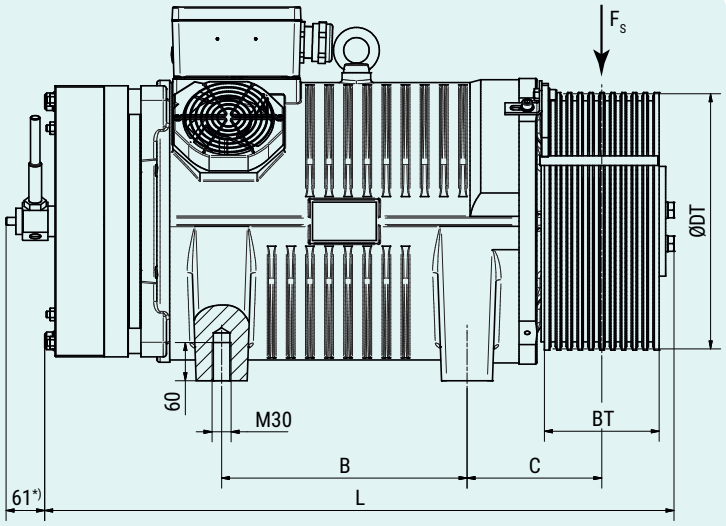

*) only for WSG-LF.3/S
**) for WSG-LF.1/2

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	194.5	202	202	194.5	202	202	211.5	218	218	211.5	218	218
L	900			900			987			987		
B	310			310			385			385		
m_G [kg]	570	610	640	610	650	685	720	765	790	750	800	825
J_G [kgm^2]	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

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 2,050						2 x 2,050					
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]	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	17.5	4.7	17.5	4.4	17.5	7.6	22.5	6.3	22.5	5.8	22.5	10.4	31.0	8.7	31.0	8.0	31.0	11.7	34.0	9.7	34.0	9.0	34.0
1.0		9.0	24.5	7.5	24.5	6.9	24.5	12.0	32.0	10.0	32.0	9.2	32.0	16.5	43.0	13.7	43.0	12.7	43.0	18.5	49.5	15.4	49.5	14.2	49.5
1.6		14.4	42.0	12.0	33.0	11.1	33.0	19.2	52.0	16.0	42.0	14.8	42.0	26.4	65.0	22.0	53.0	20.3	53.0	29.6	82.0	24.7	66.0	22.8	66.0
2.0		18.0	58.0	15.0	42.0	13.8	42.0	24.0	72.0	20.0	52.0	18.5	52.0	33.0	86.5	27.5	65.0	25.4	65.0	37.0	89.0	30.8	82.0	28.5	82.0
2.5		22.5	64.0	18.7	58.0	17.3	58.0	30.0	79.0	25.0	72.0	23.1	72.0			34.4	86.5	31.7	86.5	46.2	106	38.5	89.0	35.6	89.0
3.0		27.0	72.0	22.5	64.0	20.8	58.0	36.0	87.0	30.0	79.0	27.7	72.0					38.1	86.5			46.2	106	42.7	106
3.5						24.2	64.0					32.3	79.0												

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