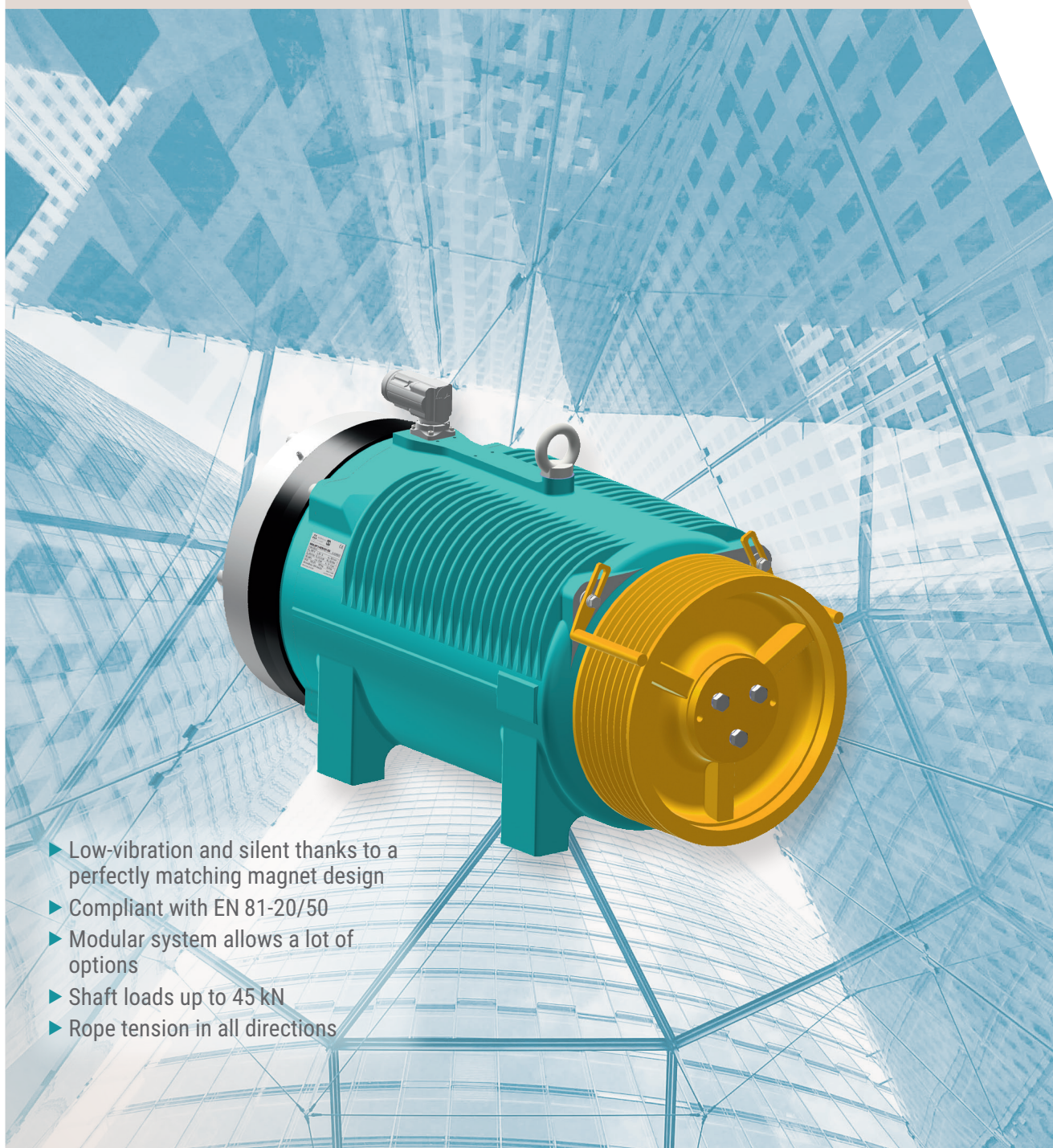


# WSG-MF

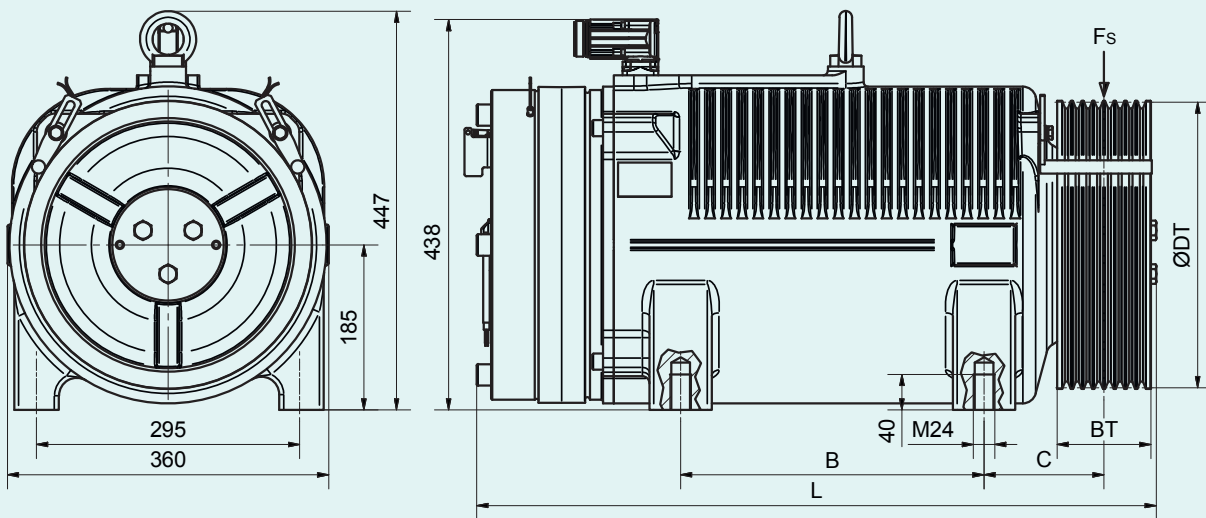
GEARLESS SYNCHRONOUS LIFT MACHINE



- ▶ 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 45 kN
- ▶ Rope tension in all directions

# WSG-MF

## GEARLESS SYNCHRONOUS LIFT MACHINE



WSG-	MF.1				MF.2			MF.3	
dia. D <sub>T</sub>	240	270	320	400	270	320	400	320	400
B <sub>T</sub>	120	120	120	105	120	120	105	120	150
C	142	142	142	134.5	142	142	134.5	142	157
L	639	639	639	630	763	763	754	771	804
B	235				340			340	
m <sub>G</sub> [kg]	241				286			315	
J <sub>G</sub> [kgm <sup>2</sup> ]	0.57	0.66	0.81	1.41	0.77	0.92	1.52	1.03	2.04

### 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 45 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-MF.1				WSG-MF.2				WSG-MF.3									
torque (S3-40 %) M <sub>N</sub> [Nm]	500				700				900									
max. torque M <sub>max</sub> [Nm]	950				1,330				1,710									
brake torque M <sub>br</sub> [Nm]	2 x 600				2 x 900				2 x 1,200									
traction sheave D <sub>T</sub> [mm]	240	270	320	400	270	320	400	320	400									
for loads Q [kg]	up to 1,350	up to 1,275	up to 1,075	up to 850	up to 1,800	up to 1,350	up to 1,200	up to 1,800	up to 1,600									
suspension	table applies for 2 : 1																	
v [ms]	P <sub>N</sub> [kW]	I <sub>N</sub> [A]	P <sub>N</sub> [kW]	I <sub>N</sub> [A]	P <sub>N</sub> [kW]	I <sub>N</sub> [A]	P <sub>N</sub> [kW]	I <sub>N</sub> [A]	P <sub>N</sub> [kW]	I <sub>N</sub> [A]	P <sub>N</sub> [kW]	I <sub>N</sub> [A]	P <sub>N</sub> [kW]	I <sub>N</sub> [A]	P <sub>N</sub> [kW]	I <sub>N</sub> [A]		
0.5	4.2	15.0	3.7	11.5	3.1	11.5	2.5	8.0	5.2	17.5	4.4	13.0	3.5	11.5	5.6	16.5	4.5	16.5
0.63	5.2	15.0	4.7	15.0	3.9	11.5	3.1	11.5	6.5	17.5	5.5	17.5	4.4	13.0	7.1	21.0	5.7	16.5
1.0	8.3	19.0	7.4	19.0	6.2	15.0	5.0	15.0	10.4	26.0	8.7	21.0	7.0	17.5	11.2	26.5	9.0	21.0
1.6	13.3	28.0	11.9	28.0	10.0	22.0	8.0	19.0	16.6	35.0	14.0	31.5	11.2	26.0	18.0	40.0	14.4	32.0
2.0					12.5	28.0	10.0	22.0			17.5	35.0	14.0	31.5	22.5	45.5	18.0	40.0

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