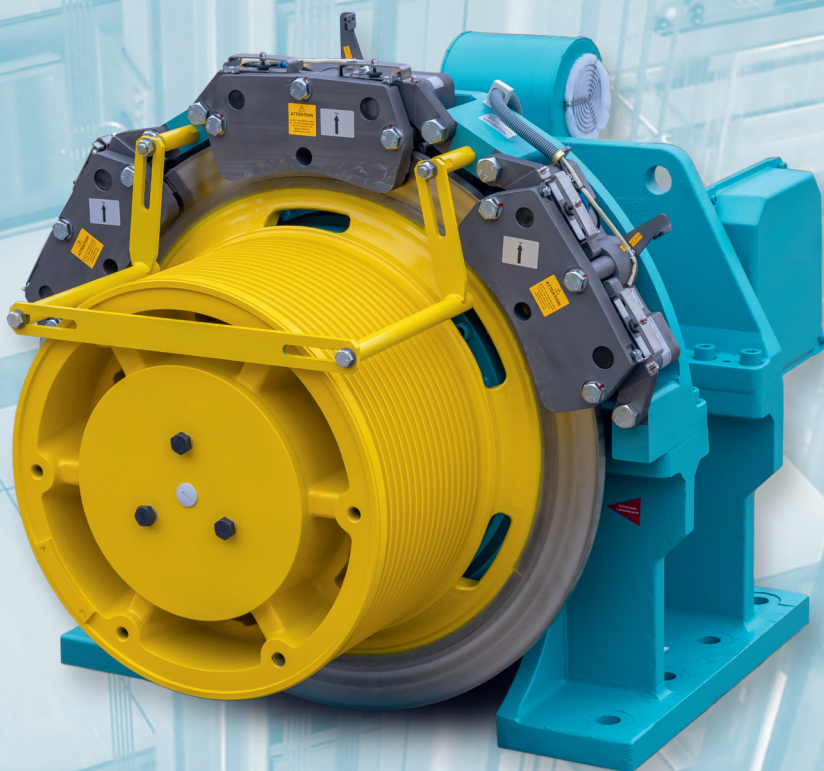


# WSG / WGG-29

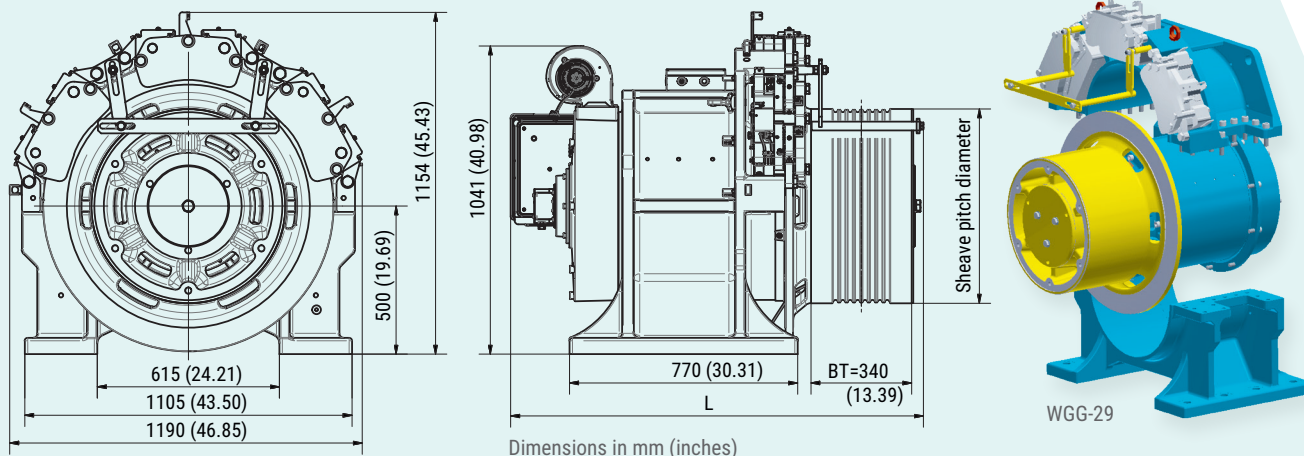
## GEARLESS SYNCHRONOUS TRACTION MACHINE

- ▶ High performance up to 11,000 lbs rated load (2 : 1) and 2,000 fpm speed (1 : 1)
- ▶ High energy efficiency
- ▶ Extremely low operating noise, excellent ride comfort
- ▶ Rope tension in all directions
- ▶ Customized bed plates available
- ▶ Compliant with ASME A17.1
- ▶ UL/CSA approved



# WSG / WGG-29

## GEARLESS SYNCHRONOUS TRACTION MACHINE



### FEATURES

- For fast elevators with an excellent ride comfort (suspension 1:1 up to 2,000 fpm)
- WGG-29 with patented split housing design - ideal for modernization (The heaviest single component weights only 3,300 lbs.)
- High efficiency, reduced power consumption, extremely low-noise level
- Solid construction for permissible shaft loads at the traction sheave up to 67,420 lbs
- Safety brake system with electro-magnetical release, two/three multi-pole spring-operated brakes with a holding braking torque  $2/3 \times 3,390$  ft-lbs, manual release as an option, contacts for brake control
- EC type-examination certificate according to EN81-20/50, can be used for UCM solution
- Interchangeable traction sheave, positive locking with rotor, groove profiles according to lift system
- Synchronous motor, 22-pole, with high-efficiency permanent magnets, insulation class 155 (F), low noise ventilation, temperature control, terminal box
- Variable options regarding voltage, speed, torque, measuring system and traction sheave parameters

\*) On request a traction sheave with 27 or 29.53 inch is also available.

Machine		WSG / WGG-29.1			WSG / WGG-29.2			WSG / WGG-29.3		
torque S1 (S3-40 %)	M <sub>N</sub> [ft-lbs]	1,770 (2,800)			2,290 (3,610)			2,950 (4,650)		
max. torque	M <sub>max</sub> [ft-lbs]	5,160			6,640			8,560		
brake torque	M <sub>br</sub> [ft-lbs]	2 x 3,390 / 3 x 3,390			2 x 3,390 / 3 x 3,390			3 x 3,390		
sheave pitch diameter *)	D <sub>T</sub> [inch]	25.59			25.59			25.59		
for rated loads	Q [lbs]	up to 6,600			up to 8,800			up to 11,000		
suspension		table applies for 2 : 1								
motor currents applicable to 500...620 V DC link voltage	speed [fpm]	η <sub>N</sub> [rpm]	P <sub>N</sub> (S1) [hp]	I <sub>N</sub> (S1) [A]	η <sub>N</sub> [rpm]	P <sub>N</sub> (S1) [hp]	I <sub>N</sub> (S1) [A]	η <sub>N</sub> [rpm]	P <sub>N</sub> (S1) [hp]	I <sub>N</sub> (S1) [A]
	200	60	20.1	48	60	26.0	59	60	33.5	74
	400	119	40.3	89	119	52.0	107	119	67.1	130
	600	179	60.4	120	179	78.0	153	179	101	208
	800	239	80.5	179	239	104	213	239	134	257
	1,000	299	101	212	299	130	265	299	168	345
motor length	L [inch]	54.88			54.88			54.88		
weight (for WGG-29)	m [lbs]	5,750 (6,130)			5,950 (6,330)			6,230 (6,615)		

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