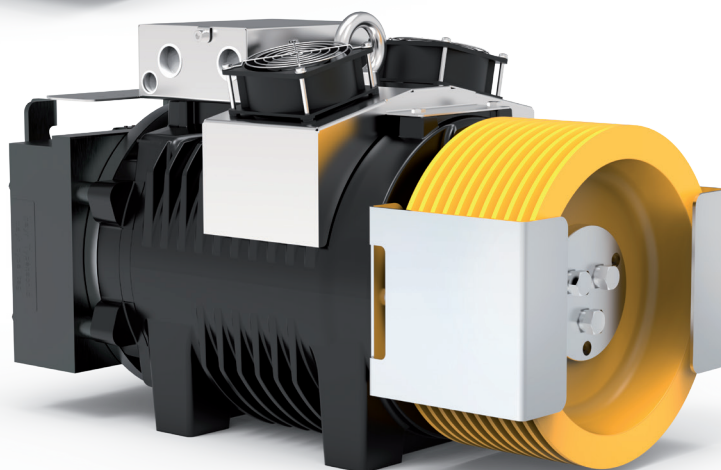
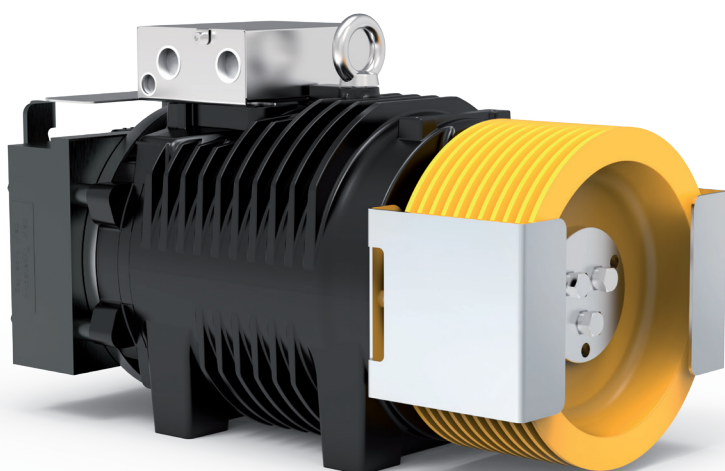


SG30

GEARLESS MACHINES



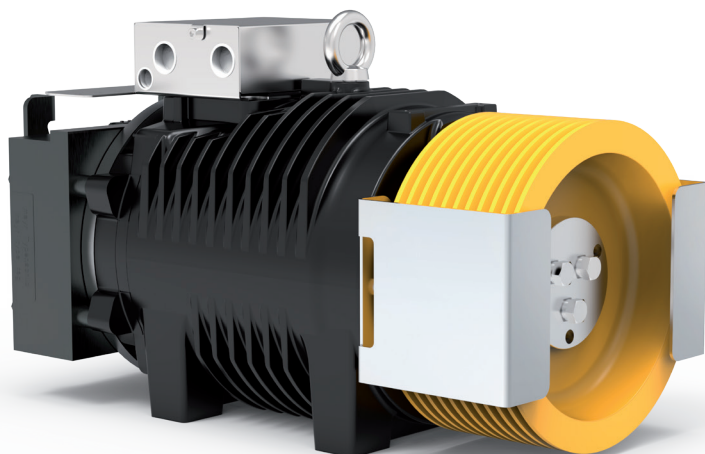
Model	For rated loads up to [kg]	Car speed range in 2:1 [m/s]	Traction sheaves diameter range [mm]	Max Static Load [kN-kg]
SG30	2000	0,63 ... 2,50	120(*) , 160(*), 200, 210, 240, 270, 320, 360, 400	34,3-3500

With sheave on drive side.

* Pu-coated ropes.

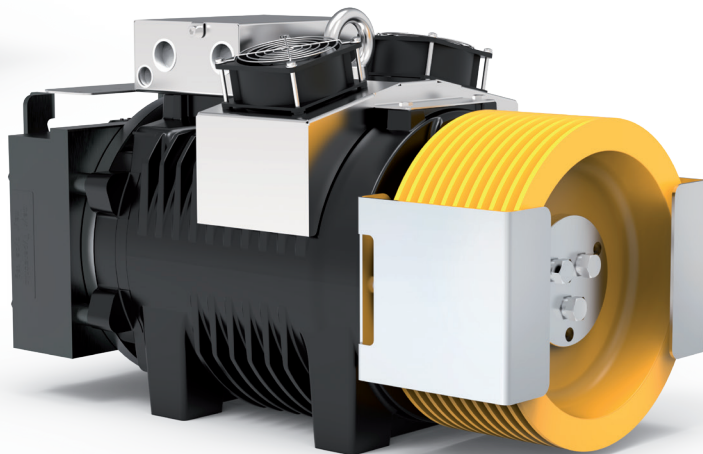
Highlighted pulley diameter is the one used to calculate max allowed capacity in standard condition (see calculation for each model). Sample data; for more detailed evaluations we recommend our product configurator.





SG30 Gearless without fan kit

Rated Torque **395 Nm SG30F (S3 40%)**
 Braking Torque **2x410 Nm**
 Power Range (min - max) **2,1 - 13,9 kW**
 Maximum Static Load **34,3 kN - 3500 kg**
 Maximum Weight **193 kg**
 Motor Rated Voltage **360 V - 208 V**



SG30F Gearless with fan kit

CONFIGURATION EXAMPLES TABLE**

Model	Ø Traction sheave	Car speed	Q Rated load	P Car weight	rpm	P ***	I ***	Installation frequency	Ropes Nr x diameter Ø
	[mm]	[m/s]	[kg]	[kg]	[min ⁻¹]	[kW]	[A]	[Hz]	[mm]
SG30145B	120	0,63	2000	1650	199	7,72	20,19	33,2	8 x Ø 6,5 (*)
SG30145B	120	1,00	1600	1600	380	10,00	29,80	53,0	8 x Ø 6,5 (*)
SG30145B	160	0,63	1275	1400	199	5,02	17,51	24,9	7 x Ø 6,5 (*)
SG30145B	160	1,00	1275	1400	254	7,99	20,30	39,6	7 x Ø 6,5 (*)
SG30145B	160	1,60	1275	1400	380	12,67	31,53	63,5	7 x Ø 6,5 (*)
SG30145B	200	0,63	1000	1200	120	4,45	12,25	20,0	10 x Ø 6,5
SG30145B	200	1,00	1000	1200	199	7,10	19,33	31,9	10 x Ø 6,5
SG30145BF	200	1,60	800	950	380	9,38	29,40	50,8	10 x Ø 6,5
SG30145BF	200	2,00	675	930	380	10,26	25,80	63,4	10 x Ø 6,5
SG30145B	210	0,63	1000	1200	120	4,46	12,87	19,1	10 x Ø 6,5
SG30145B	210	1,00	1000	1200	199	7,06	20,29	30,2	10 x Ø 6,5
SG30145B	210	1,60	800	950	291	9,47	23,37	48,5	10 x Ø 6,5
SG30145BF	210	2,00	675	930	380	10,28	35,20	60,7	10 x Ø 6,5
SG30145B	240	0,63	800	950	120	3,49	11,50	16,7	7 x Ø 6,5
SG30145B	240	1,00	800	950	199	5,66	18,55	26,5	8 x Ø 6,5
SG30145B	240	1,60	800	950	254	9,06	21,51	42,4	8 x Ø 6,5
SG30145BF	240	2,00	675	930	380	9,87	29,42	53,0	9 x Ø 6,5
SG30145B	320	0,63	675	930	120	3,00	13,22	12,5	5 x Ø 8
SG30145B	320	1,00	675	930	120	4,75	13,22	19,8	5 x Ø 8
SG30145B	320	1,60	480	700	199	5,82	15,88	31,8	5 x Ø 8
SG30145B	320	2,00	480	700	254	7,26	18,41	39,7	5 x Ø 8
SG30145BF	320	2,50	450	680	380	8,66	27,52	49,7	5 x Ø 8

Configurations specifications	
Harmonized standards of reference	EN 81-20 e EN 81-50
Roping	2:1 - Conventional Single Wrap
Machine position	Top
Compartment efficiency	0,9
Nr of deflection pulleys on ball bearing	2 for rated load ≤ 1000 kg - 3 for rated load > 1000 kg
Counterweight balancing	50%
Travel height	30 m
Duty cycle	S3 40%
Starts/hour	180
Wrap angle	180°
Acceleration	0,3÷0,5m/s ² for car speed ≤ 1 m/s - 0,5÷0,7m/s ² for car speed > 1 m/s

Refer to the product configurator for the value of the short circuit torque, the relative speed and the minimum voltage that allows the operation of gearless machine.

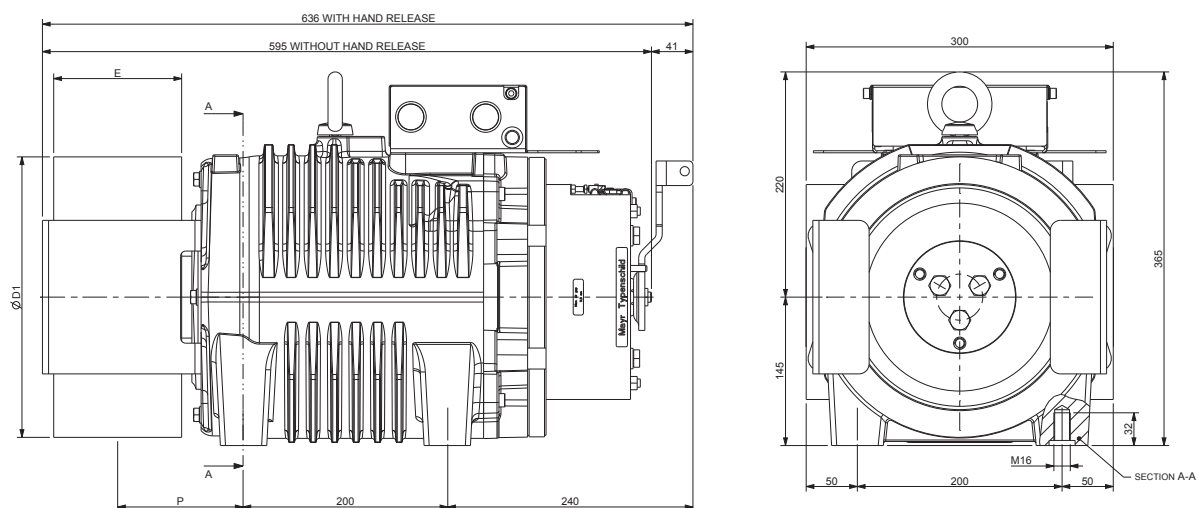
* Pu-coated ropes

** Sample data; for more detailed evaluations we recommend our product configurator.

*** Values referred to configuration table (360V)

SG30 - DIMENSIONS

Mod. SG30145B



Ø D1	E	P	Max Weight	Inertia	Roping System	Torque S3 40%	Max Static Load	Max Power **
[mm]	[mm]	[mm]	[kg]	[kgm ²]		[Nm]	[kN - kg]	[kW]
120	125	123	190	0,15	CSW *	330	34,3 - 3500	11,1
160				0,19				
200				0,27				
210				0,30				
240				0,42				
270				0,53				
320		118		0,60				
360	100	110		0,78				
400				1,07				

Brake Specifications

Braking Torque: 2x410 [Nm]

Standard Supply Voltage: 207 [V DC]

Power: 2x82 [W]

Degree of Protection: IP10

Standard Encoder Data

Type: Absolute EnDat

Model: Heidenhain ECN 1313

Positions values/rev: 2048 imp 13 bits

Degree of Protection: IP40

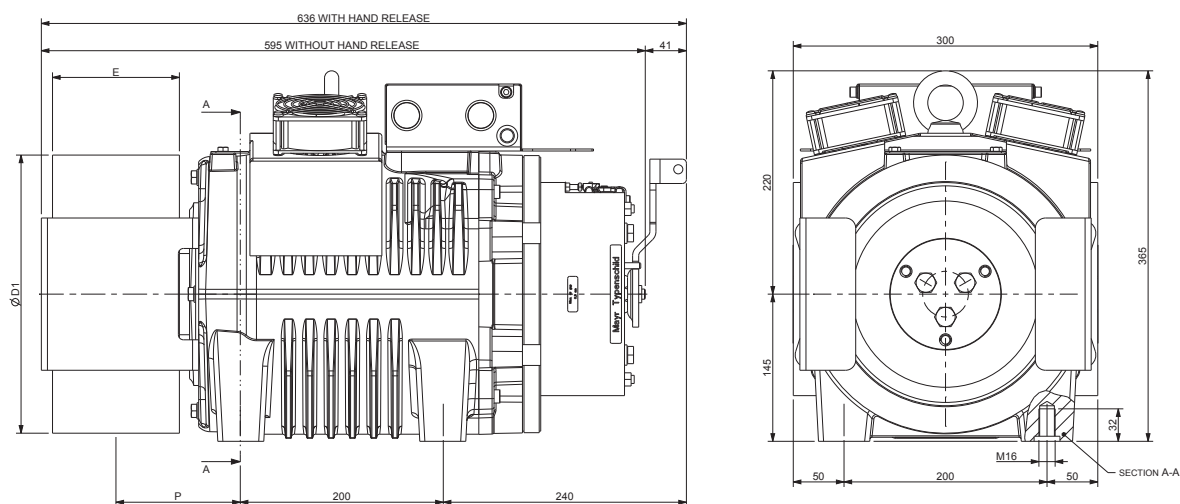
Standard Cable Length: 10 [m]

* CSW: Conventional single wrap.

** Sample data; for more detailed evaluations we recommend our product configurator.

SG30F - DIMENSIONS

Mod. SG30145BF



Ø D1	E	P	Max Weight	Inertia	Roping System	Torque S3 40%	Max Static Load	Max Power **	
[mm]	[mm]	[mm]	[kg]	[kgm ²]		[Nm]	[kN - kg]	[kW]	
120	125	123	193	0,15	CSW *	395	34,3 - 3500	13,9	
160				0,19					
200				0,27					
210				0,30					
240				0,42					
270				0,53					
320	100	118	110	0,60	CSW *	395	34,3 - 3500	13,9	
360		110		0,78					
400				1,07					

Brake Specifications

Braking Torque: 2x410 [Nm]

Standard Supply Voltage: 207 [V DC]

Power: 2x82 [W]

Degree of Protection: IP10

Standard Encoder Data

Type: Absolute EnDat

Model: Heidenhain ECN 1313

Positions values/rev: 2048 imp 13 bits

Degree of Protection: IP40

Standard Cable Length: 10 [m]

Ventilation data

Voltage: 220 [V]

Power: 2x16 [W]

* CSW: Conventional single wrap.

** Sample data; for more detailed evaluations we recommend our product configurator.



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