



STRONG GEAR!



GEAR MACHINES BY SLC



**SLC**

Sautter Lift Components

# WORM GEAR TYPE SWG

SOLID, RELIABLE, SMOOTH-RUNNING



## TECHNOLOGY

- › **Quality**  
Product „Made in Germany“ with high running-smoothness, caused by an optimised gear geometry
- › **Easy change of traction sheave**  
simple, quick and without special tools
- › **Low maintenance**  
roller bearings of high quality, use of synthetic oil
- › **Internal development, manufacturing and quality assurance**  
according to ISO 9001:2008 as well as to Lifts Directive 95/16/EG, Annex XIII
- › **Wide motor range**  
one speed VVVF, dual-speed
- › **Matched drive system from one source**  
consisting of high quality gear, special lift motor, hollow shaft encoder and Control Techniques frequency inverter with line filter and brake resistor
- › **SLC is authorised Drive Partner**  
of Control Techniques

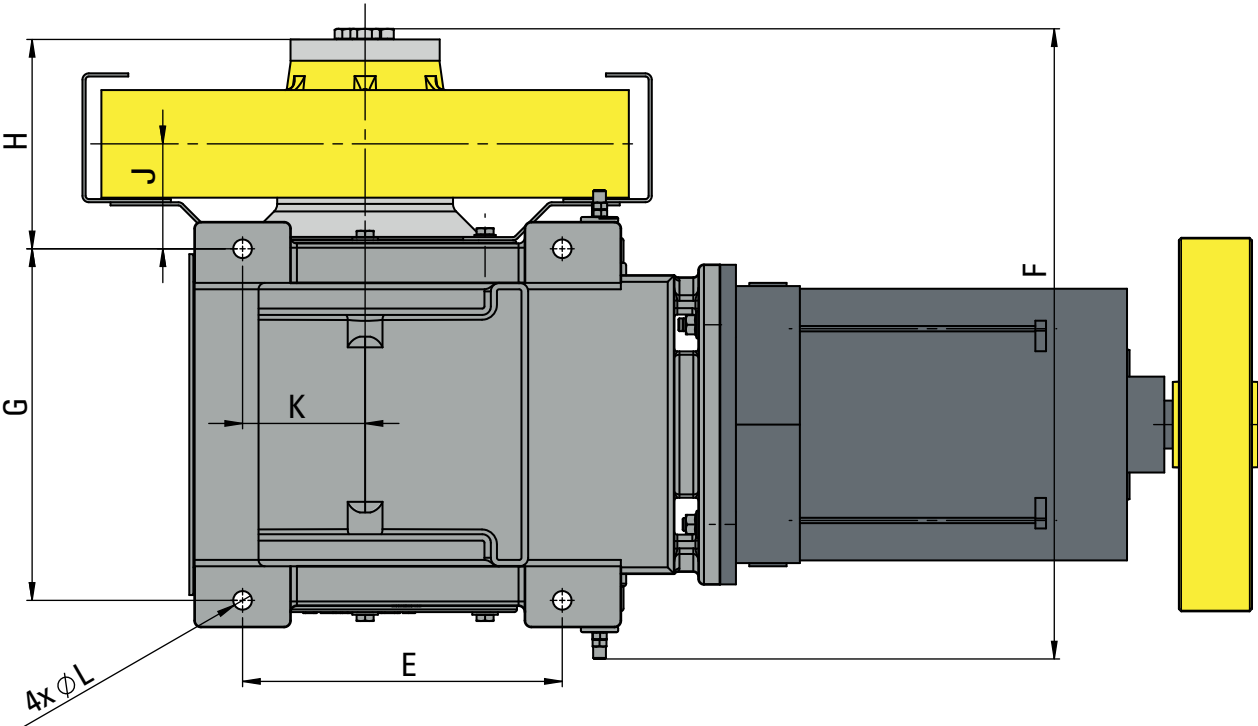
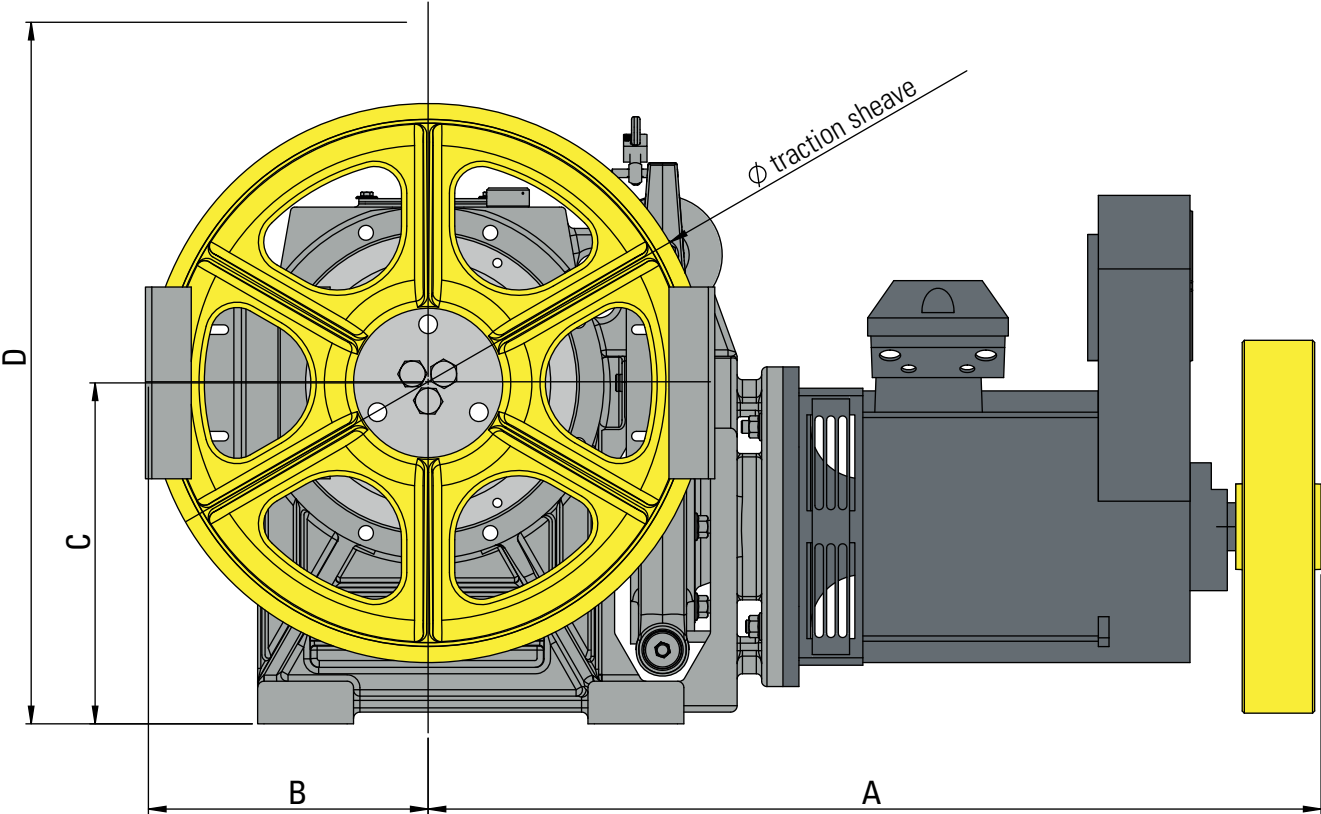
## BRAKE SYSTEM

- › **Very compact construction**  
dual-circuit brake with DC-magnetic clamp, pot magnet construction
- › **High durability**  
electromagnetic units without any moving parts, magnetic coils are completely sealed
- › **Extremely powerful**  
integrated quick action over-excitation rectifier for 196V/98V DC-operation, generates high starting power with reduced starting time
- › **Wear resistant**  
use of buna-resin-bonded and asbestos-free special brake lining, strengthened with steel wool

DIMENSIONS SWG

Type	Max. static load [N]	Diameter traction sheave	A	B	C	D	E	F	G	H	J	K	L
SWG 0	30,000	400 /520	800	221/281	270	475/535	245	489	290	158	73	94	17.5
SWG 1	50,000	400/440/520/560	838	221/241/281/301	322	527/547/587/607	300	592	330	197	99	115	17.5
SWG 2	75,000	520/560/600	990	281/301/321	360	625/645/665	340	649	360	259	126	130	22.0
SWG 3	110,000	520/560/600	1050	281/301/321	394	659/679/699	370	706	410	266	150	142	22.0

All dimensions in mm



## TECHNICAL DETAILS

### Suspension 1:1, dual-speed (50 Hz)

	30m travel height, without compensation ropes		
v [m/s]	0.63	0.8	1.0
Q = 350 kg	ropes: 4x8		
	SWG0, 51:1, TS400 3.2kW (4.4PS) 4.8A/44Nm	SWG0, 39:1, TS400 4kW (5.4PS) 6.3A/55Nm	SWG0, 39:1, TS520 5.5kW (7.5PS) 8.2A/78Nm
Q = 500 kg	ropes: 4x10		
	SWG0, 51:1, TS400 4kW (5.4PS) 7A/55Nm	SWG0, 39:1, TS400 5.5kW (7.5PS) 9A/78Nm	SWG0, 39:1, TS520 6.8kW (9.2PS) 12.4A/100Nm
Q = 630 kg	ropes: 4x10		
	SWG0, 51:1, TS400 5.5kW (7.5PS) 8.4A/78Nm	SWG0, 39:1, TS400 6.8kW (9.2PS) 11.5A/100Nm	SWG1, 40:1, TS520 7.5kW (10.2PS) 13.4A/113Nm
Q = 750 kg	ropes: 4x10		
	SWG1, 51:1, TS400 5.5kW (7.5PS) 9.9A/78Nm	SWG1, 51:1, TS520 6.8kW (9.2PS) 13.7A/100Nm	SWG1, 40:1, TS520 7.5kW (10.2PS) 15.7A/113Nm
Q = 1000 kg	ropes: 6x10		
	SWG1, 51:1, TS400 6.8kW (9.2PS) 14.1A/100Nm	SWG1, 51:1, TS520 10kW (13.6PS) 17.6A/152Nm	SWG1, 40:1, TS520 10kW (13.6PS) 21.3A/152Nm

#### General remarks:

Selection tables showing brief examples,  
other dimensioning on request

PS means german horsepower (1PS = 0,7355kW)

#### Description: dual-speed

v	travel speed
Q = payload	ropes: number x diameter  <b>Gear type</b> , ratio, traction sheave diameter motor power, rated current/starting torque

#### Description: one speed VVVF

v	travel speed
Q = payload	ropes: number x diameter  <b>Gear type</b> , ratio, traction sheave diameter motor power, rated current/starting current  inverter type

### Suspension 1:1, one speed VVVF (50 Hz)

	30m travel height, without compensation ropes			40 m travel height, with compensation ropes	
v [m/s]	0.63	0.8	1.0	1.6	2.0
Q = 450 kg	ropes: 4x10			ropes: 4x10	
	SWG0, 51:1, TS400 3kW (4.1PS), 6.8A/11A	SWG0, 39:1, TS400 4kW (5.4PS), 8A/12.7A	SWG0, 39:1, TS520 5kW (6.8PS), 10.1A/16.9A	SWG1, 50:2, TS520 7.5kW (10.2PS), 15.2A/29.1A	SWG1, 39:2, TS520 9kW (12.2PS), 17.1A/31.3A
	UNI SP 2401	UNI SP 2401	UNI SP 2401	UNI SP 2403	UNI SP 2403
Q = 630 kg	ropes: 4x10			ropes: 4x10,	
	SWG0, 51:1, TS400 4kW (5.4PS), 9A/13.4A	SWG0, 39:1, TS400 5kW (6.8PS), 11.2A/17.5A	SWG0, 39:1, TS520 7.5 kW (10.2PS), 14.9A/23.8A	SWG1, 50:2, TS520 9kW (12.2PS), 18.8A/34.9A	SWG1, 39:2, TS520 11kW (15PS), 23.6A/42.4A
	UNI SP 2401	UNI SP 2401	UNI SP 2403	UNI SP 3401	UNI SP 3401
Q = 1000 kg	ropes: 6x10			ropes: 6x10	
	SWG1, 51:1, TS400 7.5kW (10.2PS), 14.9A/22.5A	SWG1, 51:1, TS520 7.5kW (10.2PS), 18.9A/28.5A	SWG1, 40:1, TS520 9kW (12.2PS), 20.5A/31.8A	SWG2, 45:2, TS520 15kW (20.4PS), 30.4A/57.8A	SWG2, 45:2, TS600 18.5kW (25.2PS), 33.9A/62.4A
	UNI SP 2403	UNI SP 3401	UNI SP 3401	UNI SP 3401	UNI SP 3402
Q = 1600 kg	ropes: 6x13			ropes: 6x13	
	SWG2, 51:1, TS520 11kW (15PS), 29.2A/43.6A	SWG2, 46:1, TS520 13kW (17.7PS), 28.0A/44.2A	SWG2, 38:1, TS520 15kW (20.4PS), 32.5A/52.9A	SWG2, 28:1, TS600 23kW (31.3PS), 41.7A/75.3A	SWG2, 45:2, TS600 26kW (35.4PS), 49.5A/87.7A
	UNI SP 3401	UNI SP 3401	UNI SP 3402	UNI SP 4401	UNI SP 4401
Q = 2000 kg	ropes: 6x13			ropes: 8x13	
	SWG3, 51:1, TS520 15kW (20.4PS), 31.9A/53A	SWG3, 46:1, TS520 15kW (20.4PS), 33.9A/53A	SWG3, 46:1, TS600 18.5kW (25.2PS), 36.4A/58.1A	SWG3, 27:1, TS560 26kW (35.4PS), 51A/93.5A	SWG3, 43:2, TS560 30kW (40.8PS), 60.6A/106.9A
	UNI SP 3402	UNI SP 3402	UNI SP 4401	UNI SP 4401	UNI SP 4403
Q = 2500 kg	ropes: 8x13			ropes: 8x13	
	SWG3, 51:1, TS520 18.5kW (25.2PS), 39.9A/61.4A	SWG3, 46:1, TS520 23kW (31.3PS), 38.1A/59.5A	SWG3, 46:1, TS600 23kW (31.3PS), 45A/70.4A	SWG3, 27:1, TS560 37kW (50.3PS), 66.3A/120.6A	SWG3, 43:2, TS560 37kW (50.3PS), 77.8A/136.4A
	UNI SP 4401	UNI SP 4401	UNI SP 4401	UNI SP 4403	UNI SP 4403



# FREQUENCY INVERTER TYPE UNIDRIVE SP

## UNIVERSAL CONTROL



**SLC IS AUTHORISED  
DRIVE PARTNER OF CT**

### KEY FEATURES

UNIDRIVE SP with SLC application menu is the ideal drive solution for lift controllers, suitable for a diverse range of geared and gearless machines. It can control asynchronous motors in closed loop flux vector or sensorless vector mode.

The same drive also controls high performance permanent magnet synchronous motors. Designed for the lift industry, UNIDRIVE SP has embedded features that are tailored for easy integration in lift controllers to provide the best riding comfort with high safety integrity.

- › Optimised speed control
- › Optimised speed loop
- › High precision 'direct-to-floor' travel control
- › Zero speed holding with position control
- › Inertia and load compensations
- › Optimised running curve
- › Certified solution without motor contactors
- › Quick start function
- › SLC setup-menu:
  - Simplified operation (less than 50 parameters)
  - Text indicator with help function
  - Sequence of parameters in accordance to setup procedure
  - Change between SLC-menu and expert mode possible



### TECHNICAL DETAILS

Type	Max. motor rated power [kW]	Max. motor rated current [A]	Max. motor starting current [A]	Remarks
SP 2401	5.5	13.0	22.7	9.0 kHz
SP 2402	7.5	16.5	28.8	
SP 2403	11.0	25.0	43.7	
SP 3401	15.0	32.0	56.0	
SP 3402	18.5	40.0	70.0	
SP 3403	22.0	46.0	80.0	
SP 4401	30.0	60.0	105.0	
SP 4402	37.0	74.0	129.5	
SP 4403	45.0	96.0	168.0	

**EMERSON**  
Industrial Automation

### Certificate

This is to certify that:

**SLC Sautter Lift Components  
GmbH & Co. KG**

is authorised to sell  
Control Techniques Drives  
& Automation Products





## COMPONENTS THAT MOVE

Having emerged from a major German lift company, SLC Sautter Lift Components rests on more than 100 years of experience in lift manufacturing. Quality, a long life-cycle and the technological advance of our products make us bound to this tradition.

We are the lift experts. With our wide variety of products we master the entire lift system.

SLC supplies you with components and solutions for modernisation as well as with complete lifts, certified according to DIN EN ISO 9001:2008 and to Lifts directive 95/16/EG, Annex XIII.



**TÜVRheinland®**  
**CERT**  
**ISO 9001**

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