



## GEAR MACHINES BY SLC

**STRONG GEAR!**



**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 optimized gear geometry
- › **Easy change of traction sheave**  
simple, quick and without special tool
- › **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, Hohlwellentacho and Control Techniques frequency inverter with line filter and brake resistor
- › **SLC is authorised Drive Partner of Control Techniques**

## SERVICE BRAKE

- › **Very compact construction**  
dual-circuit brake with DC-magnetic clamp, pot magnet construction
- › **High durability**  
no wear parts, coils are completely sealed
- › **Extremely powerful**  
integrated over-excitation rectifier for 196V / 98 V 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

## TECHNICAL DETAILS

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

	25m travel height, without compensation ropes				40 m travel height, with compensation ropes	
v [m/s]	0.63	0.8	1.0	1.2	1.6	2.0
<b>Q = 450 kg</b>	ropes: 4x10				ropes: 4x10	
	<b>SWG0</b> , 51:1, TS400 3.0kW, 6.8A/11.0A	<b>SWG0</b> , 39:1, TS400 4.0kW, 8.0A/12.7A	<b>SWG0</b> , 39:1, TS520 5.0kW, 10.1A/16.9A	<b>SWG1</b> , 50:2, TS400 5.0kW, 11.2A/20.2A	<b>SWG1</b> , 50:2, TS520 7.5kW, 15.2A/29.1A	<b>SWG1</b> , 39:2, TS520 9.0kW, 17.1A/31.3A
	UNI SP 2401	UNI SP 2401	UNI SP 2401	UNI SP 2401	UNI SP 2403	UNI SP 2403
<b>Q = 630 kg</b>	ropes: 4x10				ropes: 4x10,	
	<b>SWG0</b> , 51:1, TS400 4.0 kW, 9.0A/13.4A	<b>SWG0</b> , 39:1, TS400 5.0 kW, 11.2A/17.5A	<b>SWG0</b> , 39:1, TS520 7.5 kW, 14.9A/23.8A	<b>SWG1</b> , 50:2, TS400 7.5 kW, 15.8A/27.1A	<b>SWG1</b> , 50:2, TS520 9.0kW, 18.8A/34.9A	<b>SWG1</b> , 39:2, TS520 11.0kW, 23.6A/42.4A
	UNI SP 2401	UNI SP 2401	UNI SP 2403	UNI SP 2403	UNI SP 3401	UNI SP 3401
<b>Q = 750 kg</b>	ropes: 4x10				ropes: 5x10	
	<b>SWG1</b> , 51:1, TS400 5.0kW, 10.6A/16.9A	<b>SWG1</b> , 51:1, TS520 7.5kW, 14.1A/22.5A	<b>SWG1</b> , 40:1, TS520 7.5kW, 16.7A/27.2A	<b>SWG1</b> , 50:2, TS400 9.0kW, 17.0A/28.7A	<b>SWG1</b> , 50:2, TS520 11.0kW, 22.3A/40.6A	<b>SWG1</b> , 39:2, TS520 13.0kW, 26.4A/48.4A
	UNI SP 2401	UNI SP 2403	UNI SP 2403	UNI SP 2403	UNI SP 3401	UNI SP 3401
<b>Q = 1000 kg</b>	ropes: 6x10				ropes: 6x10	
	<b>SWG1</b> , 51:1, TS400 7.5kW, 14.9A/22.5A	<b>SWG1</b> , 51:1, TS520 7.5kW, 18.9A/28.5A	<b>SWG1</b> , 40:1, TS520 9.0kW, 20.5A/31.8A	<b>SWG1</b> , 50:2, TS400 11.0kW, 23.1A/37.6A	<b>SWG2</b> , 45:2, TS520 15.0kW, 30.4A/57.8A	<b>SWG2</b> , 45:2, TS600 18.5kW, 33.9A/62.4A
	UNI SP 2403	UNI SP 3401	UNI SP 3401	UNI SP 3401	UNI SP 3401	UNI SP 3402
<b>Q = 1600 kg</b>	ropes: 6x13				ropes: 6x13	
	<b>SWG2</b> , 51:1, TS520 11.0kW, 29.2A/43.6A	<b>SWG2</b> , 46:1, TS520 13.0kW, 28.0A/44.2A	<b>SWG2</b> , 38:1, TS520 15.0kW, 32.5A/52.9A	<b>SWG2</b> , 38:1, TS600 18.5kW, 36.9A/60.5A	<b>SWG2</b> , 28:1, TS600 23.0kW, 41.7A/75.3A	<b>SWG2</b> , 45:2, TS600 26.0kW, 49.5A/87.7A
	UNI SP 3401	UNI SP 3401	UNI SP 3402	UNI SP 4401	UNI SP 4401	UNI SP 4401
<b>Q = 2000 kg</b>	ropes: 6x13				ropes: 8x13	
	<b>SWG3</b> , 51:1, TS520 15.0kW, 32.9A/53.0A	<b>SWG3</b> , 46:1, TS520 15.0kW, 32.9A/53.0A	<b>SWG3</b> , 46:1, TS600 18.5kW, 36.4A/58.1A	<b>SWG3</b> , 34:1, TS520 23.0kW, 42.0A/69.0A	<b>SWG3</b> , 27:1, TS560 26.0kW, 51.0A/93.5A	<b>SWG3</b> , 43:2, TS560 30.0kW, 60.6A/106.9A
	UNI SP 3402	UNI SP 3402	UNI SP 4401	UNI SP 4401	UNI SP 4401	UNI SP 4403
<b>Q = 2500 kg</b>	ropes: 8x13				ropes: 8x13	
	<b>SWG3</b> , 51:1, TS520 18.5kW, 39.9A/61.4A	<b>SWG3</b> , 46:1, TS520 23.0kW, 38.1A/59.5A	<b>SWG3</b> , 46:1, TS600 23.0kW, 45.0A/70.4A	<b>SWG3</b> , 34:1, TS520 26.0kW, 50.5A/83.4A	<b>SWG3</b> , 27:1, TS560 37.0kW, 66.3A/120.6A	<b>SWG3</b> , 43:2, TS560 37.0kW, 77.8A/136.4A
	UNI SP 4401	UNI SP 4401	UNI SP 4401	UNI SP 4401	UNI SP 4403	UNI SP 4403

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

	25m travel height, without compensation ropes		
v [m/s]	0.63	0.8	1.0
<b>Q = 450 kg</b>	ropes: 4x10		
	<b>SWG0</b> , 51:1, TS400 3.2kW, 6.2A/44.0Nm	<b>SWG0</b> , 39:1, TS400 4kW, 8.0A/55.0Nm	<b>SWG0</b> , 39:1, TS520 5.5kW, 10.3A/78.0Nm
<b>Q = 630 kg</b>	ropes: 4x10		
	<b>SWG0</b> , 51:1, TS400 5.5kW, 8.3A/78.0Nm	<b>SWG0</b> , 39:1, TS400 5.5kW, 10.6A/78.0Nm	<b>SWG1</b> , 40:1, TS520 7.5kW, 13.2A/113Nm
<b>Q = 750 kg</b>	ropes: 4x10		
	<b>SWG1</b> , 51:1, TS400 5.5kW, 9.7A/78.0Nm	<b>SWG1</b> , 51:1, TS520 6.8kW, 13.4A/100Nm	<b>SWG1</b> , 40:1, TS520 7.5kW, 15.5A/113Nm
<b>Q = 1000 kg</b>	ropes: 6x10		
	<b>SWG1</b> , 51:1, TS400 7.5kW, 13.2A/113Nm	<b>SWG1</b> , 51:1, TS520 9kW, 15.8A/125Nm	<b>SWG1</b> , 40:1, TS520 10.0kW, 21.0A/152Nm

#### Description: one speed VVVF

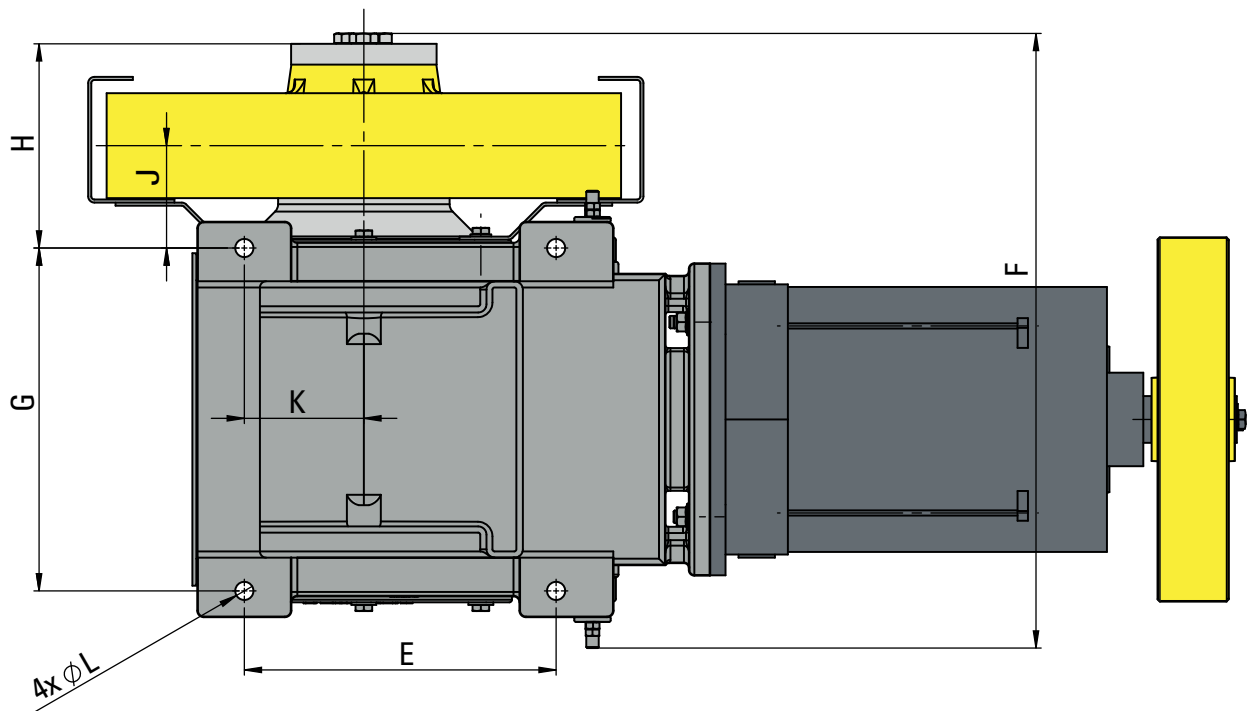
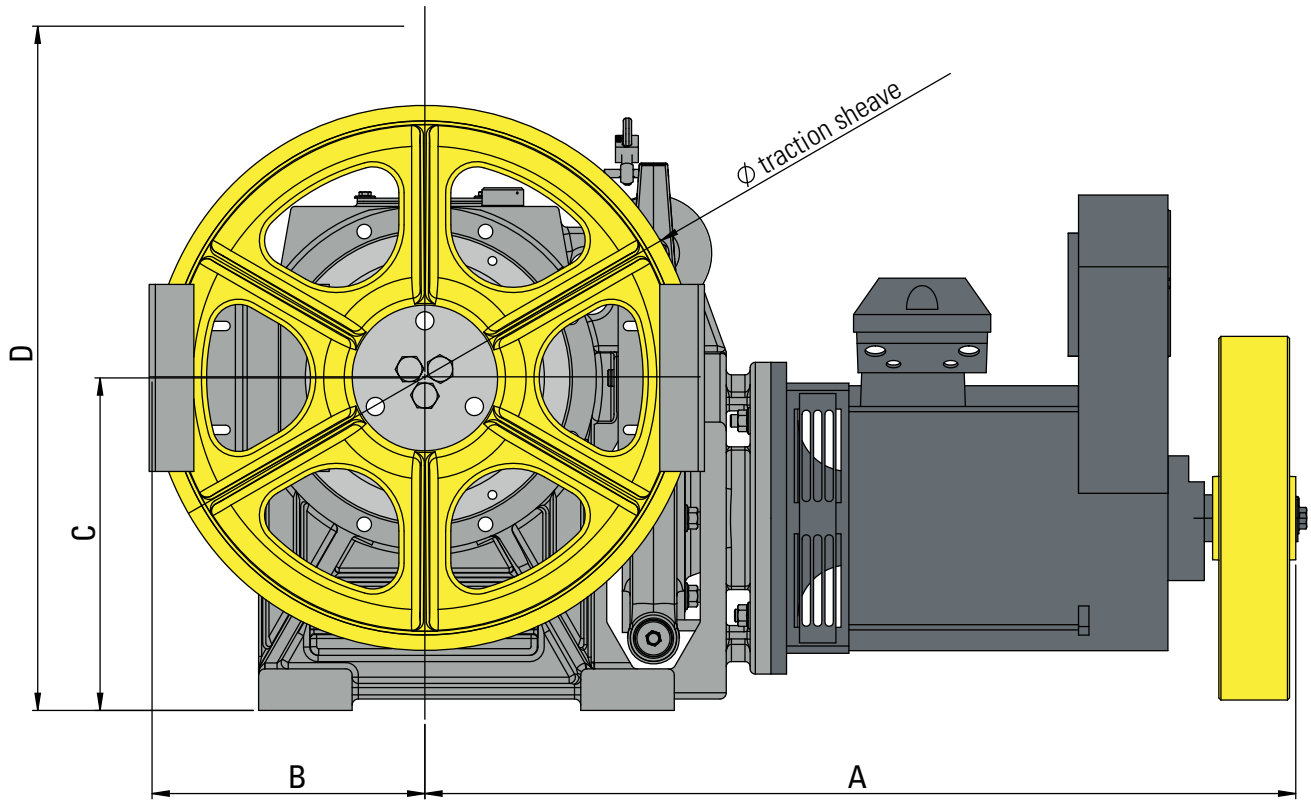
v	travel speed
Q = payload	ropes: number x diameter, F = car weight
	<b>Gear type</b> , ratio, traction sheave diameter motor power, rated current/starting current
	inverter type

#### Description: dual-speed

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

DIMENSIONS SWG

Type	Diameter traction sheave	A	B	C	D	E	F	G	H	J	K	L
SWG 0	400 /520	800	221/281	270	475/535	245	489	290	158	73	94	17.5
SWG1	400/440/520	838	221/241/281	322	527/547/587	300	592	330	197	99	115	17.5
SWG2	520/560/600	990	281/301/321	360	625/645/665	340	649	360	259	126	130	22.0
SWG 3	520/560/600	1050	281/301/321	394	659/679/699	370	706	410	266	150	142	22.0



# FREQUENCY INVERTER TYPE UNIDRIVE SP

## UNIVERSAL CONTROL



**SLC IS AUTHORISED  
DRIVE PARTNER OF CT**

### FEATURES

- › Universal frequency inverter optimised for lifts  
(AC Motor Open / Closed Loop, Servo- or regeneration operation)
- › For all lines | all powers | all motors
- › Universal encoder input accepts 14 different signal types
- › Integrated DC reactor (EN61000-3-12)
- › EN 12015 with line filter and reactor
- › Integrated monitoring system for brake contact and contactor separation
- › 10 speeds
- › Comfort S-ramp function
- › Positioning for parking, direct approach and pointed arc travel
- › Auto brake release
- › Quick start function
- › Certified „null-contactor“-solution
- › SLC setting up menu:
  - simplified operation (less than 50 parameters)
  - text display with help function
  - sequence of parameters in accordance to commissioning
  - change between SLC-menu and expert mode



### 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	12 KHz pulse rate
SP 2402	7,5	14,8	28,8	
SP 2403	11,0	19,7	40,2	
SP 3401	15,0	32,0	56,0	8 KHz pulse rate
SP 3402	18,5	37,7	70,0	
SP 3403	22,0	37,5	80,0	
SP 4401	30,0	60,0	105,0	8 KHz pulse rate
SP 4402	37,0	64,4	129,5	
SP 4403	45,0	75,0	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 the Haus-hahn Modernization Centre, 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 modernization as well as with complete lifts, certified according to DIN EN ISO 9001:2008 and to Lifts directive 95/16/EG, Annex XIII.



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