

# The SCF chain hoist

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Now with frequency control and ESR

*Partner of Experts*

**STAHL**  
CraneSystems



# The SCF chain hoist

The SCF chain hoist from STAHL CraneSystems with frequency-controlled hoist motor and Extended Speed Range (ESR) is the logical extension of the SC chain hoist programme. Initially designed for the working load range from 125 kg to 2,500 kg, other variants for higher working loads from 3,200 kg to 5,000 kg are in the planning stage and will follow shortly. The chain hoists can be used as stationary hoists or with frequency controlled travel motors.

The frequency inverter ensuring smooth starting and braking characteristics, stepless speed control, active vibration damping and precise load positioning makes hoist operation even safer and more convenient. It is installed in the modular design housing of the standard SC chain hoist programme. All components are easily accessible for maintenance in the housing whose length is increased by approx. 10 cm.

The Extended Speed Range function (ESR) lets you profit from a further increase in productivity. This control enables the hoisting speed to be increased to 200% when the hoist is unloaded or lifting loads up to 30% of the maximum working load. At 50% maximum working load the hoisting speed can be increased to 150%.

The SCF chain hoist from STAHL CraneSystems has a double overload protection, both a monitored mechanical slipping clutch and an electronic overload detection to disconnect the chain hoist safely.

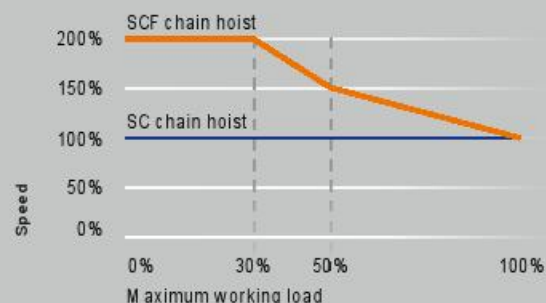
The active vibration damping system and the intelligent motor control with shock damping also increase safety in operation. If vibrations or shock loads arise the speed of the drive shaft is actively influenced, diminishing the stress on the hoist. This prolongs the service life of chain and hoist.

## The facts

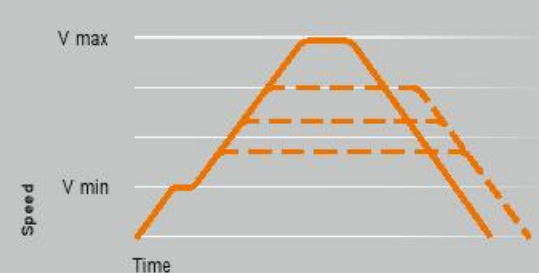
- Maximum working load from 125 kg to 2,500 kg
- IP 55 protection
- Ambient temperature  $-10^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$
- Frequency-controlled hoisting speed with integrated frequency inverter and wide speed range
- Load-dependent hoisting speed, Extended Speed Range
- Programmable hoist limit switch
- Slack chain monitoring, manual overtravel possible at slow speed
- Electronic overload detection
- Vibration and shock load damping system
- Integrated load spectrum memory and operating hours counter

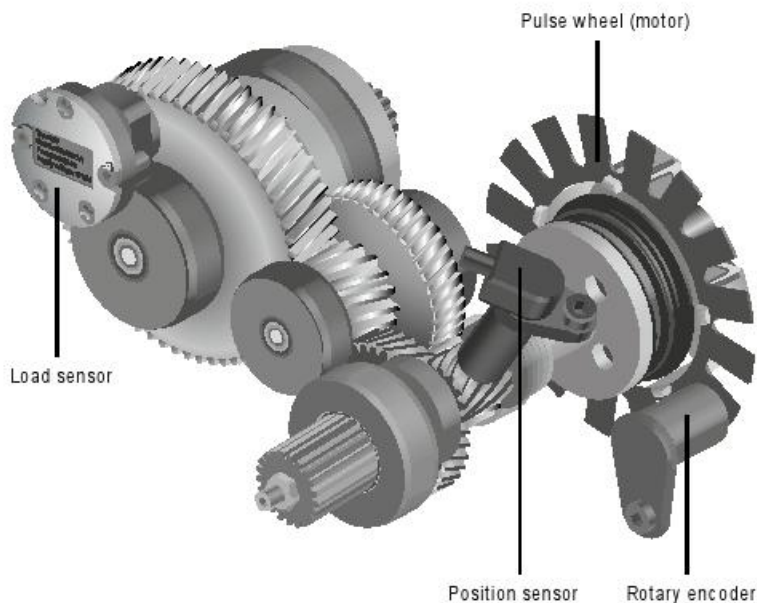
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»The SC chain hoist«.

The Extended Speed Range function (ESR) offers increased productivity at reduced loads

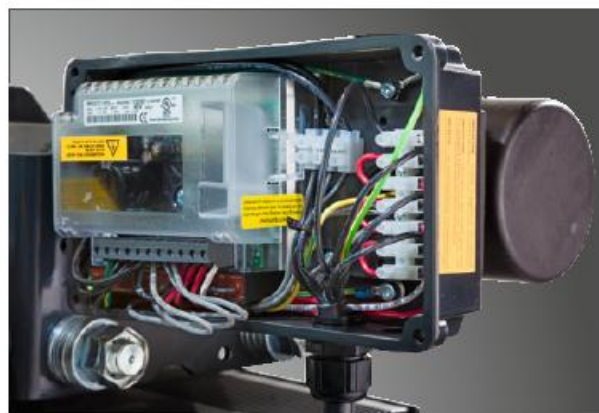


The frequency inverter offers convenient operation with variable speeds





Frequency inverter for hoist motor



Frequency inverter for travel motor

Type	Max. working load	Reeving	Speed		ESR	kg	ISO	DC
			min m/min	rated m/min				
SCF 05	125 kg	1/1	0.7	24	32	80	M 5	50%
SCF 05	250 kg	1/1	0.7	16	32	80	M 5	50%
SCF 05	320 kg	1/1	0.7	12.5	32	80	M 4	50%
SCF 05	500 kg	1/1	0.7	8	16	160	M 5	50%
SCF 05	630 kg	1/1	0.7	6.5	16	160	M 4	50%
SCF 10	500 kg	1/1	0.7	16	32	160	M 5	50%
SCF 10	630 kg	1/1	0.7	12.5	32	160	M 4	50%
SCF 10	800 kg	1/1	0.7	9	16	320	M 5	50%
SCF 10	1,000 kg	1/1	0.7	8	16	320	M 5	50%
SCF 10	1,250 kg	1/1	0.7	6.5	16	320	M 4	50%
SCF 10	1,600 kg	2/1	0.35	4.5	8	630	M 5	50%
SCF 10	2,000 kg	2/1	0.35	4	8	630	M 5	50%
SCF 10	2,500 kg	2/1	0.35	3.2	8	630	M 4	50%



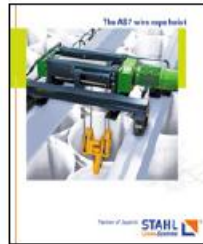
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