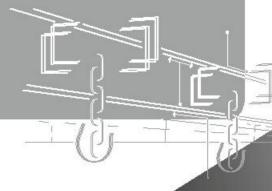
The SC chain hoist





The SC chain hoist



STAHL CraneSystems is adding an innovative, sophisticated chain hoist programme to its tried and tested classics: the SC chain hoist. Our engineers, working in a team of experienced, practically orientated specialists, have developed the upgradable SC chain hoist, equal to the challenges posed today and in the future. Naturally it complies with the latest RoHS directives and is particularly efficient as regards energy consumption and maintenance. We are convinced that users, crane builders and systems manufacturers will appreciate the extension to the product range.

The SC chain hoist is of modular design and proposed to the school of the SC chain hoist school of the SC series wariants for the S.W.L. rap.

The chain hoists cap.

suspension hod
hoists are equi
trolleys in vario
that distinguish
5-pocket chain
extra positive la
This reduces was and ensures permanent safety. The
chain guide is reinforced with a steel inless.

A further advantage of the SC chain holds is the arrament of brake, slipping clutch and motor op.

The slipping clutch is not in the power and thus has no inspect when the

standstill. In addition, a wider range of hoisting speeds is available, while the safe working load has been increased by 25 %. The impressive straight-lined design of STAHL CraneSystems' SQ chain hoist and the systematic continuation of the modular construction principle form the basis for developing and manufacturing purpose-built and engineering solutions for individual customers.





Developed by experts for experts



We've kept the good things, just added more of them. Our engineers, drawing on their many years of practical experience, were once more able to develop important innovations to meet your requirements. The spectrum of chain hoist types available is now even further differentiated, more flexible and adaptable. Increased operational reliability, performance and cost-effectiveness, those are the features of the new chain hoist. Here are the highlights of the new SC chain hoist:



Straight lines

The up-to-date straight-lined design of the SC chain hoist signalises functionality and maximum flexibility. It is the basis for customer-specific, purpose-built and engineering solutions. The clear, right-angled side faces and compact dimensions make it predestined for crane and systems building. It is particularly easy to adapt to the most varied requirements. Small, compact, straight-lined: that is not just visually attractive, but above all a direct and efficacious route to countless solutions.



All-metal

Only high-tensile powder-coated aluminium is used for the robust housing of the SC chain hoist. The special aluminium alloy is virtually as strong as steel. Plastic parts in the housing have consciously been avoided.



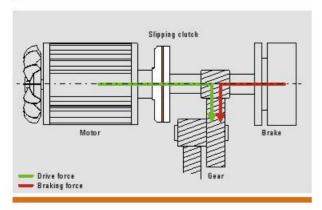
Plug-in components

The SC chain hoist is of modular design, all electrical components have plug connections. This means that this chain hoist is ready for use in short time. Modifications, retrofitting and upgrading can be carried out with minimal downtimes.



Maintenance-free brake

The asbestos-free brake is situated inside the housing and thus protected from environmental influences. The condition of the brake lining can be checked at any time through an axial drillhole. Direct action on the load is guaranteed by the new brake arrangement.



Precise slipping clutch

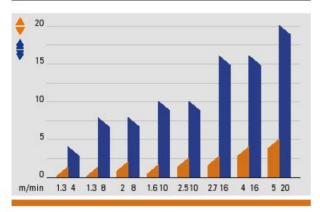
In the new SC chain hoist, brake, slipping clutch and motor are arranged on one axis. The slipping clutch is not in the power flux during braking and thus is not active when the system has come to a standstill. The use of partially synthetic oil keeps the friction coefficient of the clutch constant. Optimum response is reproducible thanks to precise adjustment by means of a fine thread.





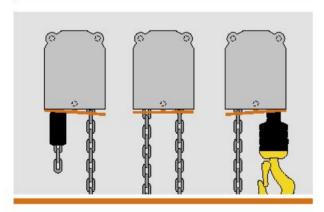
Robust gear

Flexible use in the most varied fields, that's what characterises all chain hoists from STAHL CraneSystems. You can rest assured that the gear of the SC chain hoist is designed for the most stringent requirements and demanding applications. The fully helical gearing always guarantees even, smooth running.



Extended range of hoisting speeds

The SC chain hoist programme is even more efficient and supplements our portfolio perfectly. A greatly extended range of hoisting speeds is available; and this in conjunction with a 25% increase in load capacity.



Hoist limiting

The SC chain hoist is equipped as standard with a hoist limit switch for top and bottom hook positions. A rocker switch integrated into the chain guide ensures that cut-off is reliable.



Frequency controlled electric trolley

You can choose travel motions with predefined or stepless speeds for the electric trolley. Frequency control ensures smooth starting and braking characteristics.





Innovative chain drive

You will find the new patented 5-pocket chain sprocket (EP 2 047 141 B1) and the field-proven, robust chain guide reinforced with a steel inlet. They are the basis for long service life and reliable operation even under extreme conditions.

The five asymmetrically arranged cogs of the new chain sprocket provide extra positive locking. This reduces the bending stress on the vertical chain link when the chain is under load.



Flexible control

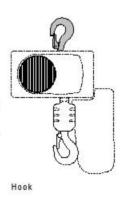
As standard, the SC chain hoist is equipped with a conventionally wired contactor control divided into a power section with main contactor and transformer and a control section. The modules are plug-in and exchangeable, facilitating simple, fast commissioning and high flexibility. In particular crane and systems builders will appreciate this characteristic.

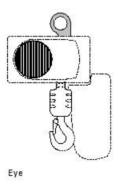
The models and trolley variants

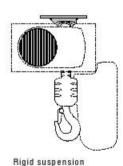
Different construction types and trolley variants for the SC chain hoist open up the most varied applications in crane and systems building. Individually tailored to your specific requirements as stationary hoist or for use with a trolley. The trolleys are equipped as standard with two travel speeds, as an option the frequency-controlled motors can also be supplied with stepless travelling speeds. Our chain hoists are known worldwide for their flexible and versatile use. Compact dimensions and extremely short approach dimensions help to make optimum use of the production shop.

Suspension for stationary version

The standard stationary SC chain hoist has hook suspension. However you can also choose eye suspension or rigid suspension. Eye suspension is used when the stationary chain hoist is never or only rarely moved to a different location, while the low headroom permits long hook paths even in low-ceilinged rooms. If the SC chain hoist is to be permanently mounted, for example in systems building, we recommend rigid suspension. Here too the extremely short headroom is of advantage. The rigid mounting also prevents the chain hoist swinging on the trolley.

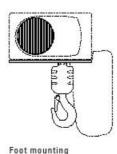




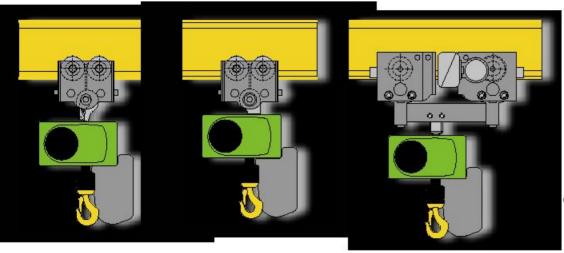


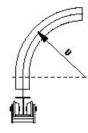
Foot mounting for stationary version

In order to utilise space optimally in low-ceilinged rooms the SC chain hoist can be bolted from below onto a foot mounting.





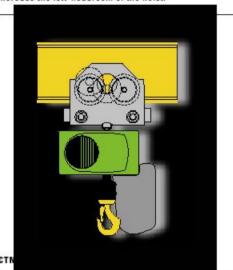




dius of bend down to 800 mm is possible

CTP push trolley

In standard version, the SC chain hoists are suspended by eye or hook from the smooth-running push trolleys. The push trolley does not increase the low headroom of the hoist.

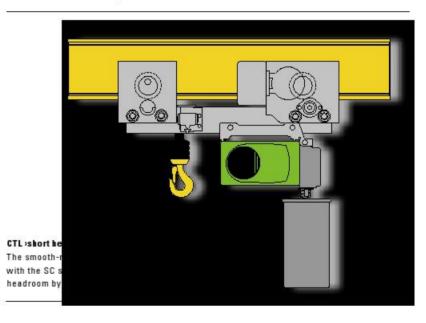


Even when the emock ranning electric transport and saftremely short headroom permitting long hook paths is typical.

CTA articulated trolley

The CTA articulated trolley is available for frequent travel around bends and narrow radii.

Depending on radius of bend, runway flange width or application it is equipped with one or two travel motors. The lateral guide rollers cause minimum wear.



■ Standard □ Option	Туре	Load capacity up to [kg]	Stationary	Push trolley CTP	Electric trolley CTN	Articulated trolley CTA	Short headroom trolley CTL	Extra short headroom trolley CTS	Dual chain hoists CTD
	SC 02	320	•		•	= *	.		*
	SC 05	630				*	*		= *
	SC 10	2,500	•			*	*		= *
	SC 16	3,200				*	.		= +
	SC 25	5,000	•			= *	•		*

The technology

It's reassuring to know what convincing technology is concealed in the innovative SC chain hoist. The largely maintenance-free components of the modular chain hoist are optimally matched to each other. They guarantee constant performance, high efficiency and long service life. An important feature of the SC chain hoist is the new arrangement of brake, slipping clutch and motor on one axis. This means that the slipping clutch is not in the power flux during braking. A further innovation is the patented 5-pocket chain sprocket which greatly reduces the bending stress on the vertical chain links under load and thus extends the service life of the chain.

2 Motor



- High standard classification in accordance with FFM
- Powerful motors with high duty cycle and number of switching operations
- Standard fan cooling
- Two hoisting speeds as standard permitting the load to be positioned accurately
- Bimetal temperature control

4 Brake



- Low-maintenance, asbestos-free electromagnetic disc brake with extremely long service life
- Oversized braking torque
- Brake wear can be measured through axial drillhole
- Safe in inching operation
- Brake within housing, protected from environmental influences

1 Chain drive



- Innovative patented chain sprocket, manufactured with state of the art production technology (EP 2 047 141 B1)
- Simple inspection and replacement of the chain sprocket thanks to over-mounted shaft bearing
- Enclosed chain guide
- Reliable functioning even in demanding applications

3 Control

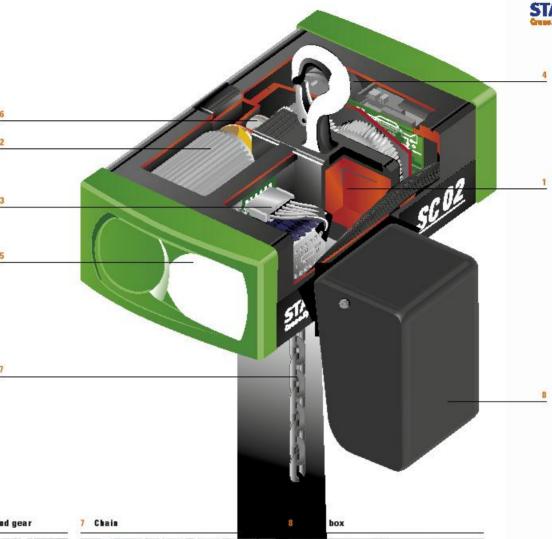


- Conventionally wired contactor control
- Power and control section separated
- All customary connecting and control voltages are available
- Plug connection of control pendant and travel motor
- As an option, available without control pendant
- Available with crane control

5 Paint



- Standard paint treatment as per RAL 6018 yellow-green and RAL 7021 greyish black
- Weather-resistant, impact-resistant powder coating
- Various treatment systems for outdoor use or corrosive ambient conditions
- Shade as per customer's requirement
- Coat thickness 70 μm



6 Overload slipping clutch and gear



- Slipping clutch in oil bath
- Slipping clutch outside power flux
- Precise adjustment by means of fine thread
- Accurate response
- No electronic limiting necessary
- Large dimensioned helical gear



- Tempered, galvanised and large dimensioned load chain
- Increased stress at working load thanks to higher elongation at break
- High FEM classification
- Stainless steel load chains are available as an option



- Large selection of chain boxes in plastic, sheet steel or textile
- Optionally available without chain box

The equipment

There's always room for improvement. Although it is already first-class in the standard version, you have the option of making your SC chain hoist even safer, more cost-effective, more convenient with numerous mechanical, electrical and electronic features. The supplementary equipment will boost the performance of the chain hoist and adapt it to your individual requirements. Here we show you just a small selection of supplementary equipment and options. If you need further detailed information, please contact us directly.

Vibration damper



 Minimises the vibrations produced by operating the chain hoist and transmitted to the load chain by the chain sprocket (polygon effect).

FMD1 slipping clutch test device



- Robust all-metal design
- Modern electronic test apparatus with field-proven sensor technology, high degree of accuracy ± 2%
- Test range up to 4,000 kg on one chain fall, suitable for chains up to 11.3 mm link thickness
- Protector for evaluation device and internal test program
- Simple intuitive handling

STH control pendant



- Robust control pendant with EMERGENCY STOP palm button and control cable
- All switching elements for hoist, cross and long travel are 2-step.
- IP 65 protection
- Additional buttons, for example to activate a horn, can easily be fitted.

Radio remote control units



- One-hand joystick operation for crane and hoist control
- IP 65 protection
- Ambient temperature -20 °C to +70 °C
- Multi-function key, selector switch, start and horn
- Powerful rechargeable li-ion battery (→16h) with charger and spare battery

RMI RadioMOVEit radio remote control



- Ergonomic one-hand pushbutton radio remote control with emergency stop function for all chain hoists
- Suitable for right- and left-handed operators
- Covers the whole load capacity range
- Spiral cable does not restrict the height of lift
- The remote control unit can be positioned anywhere on the chain fall independent of chain size
- Load is guided directly with the non-slip handles



	Standard	Options		
Ambient temperature	-20 °C to +50 °C	Space heaters for motor and electrics		
Protection to EN 60529	IP 55	IP 66		
Paint Colour	Greyish black/yellow-green RAL 7021/6018	All other colours from RAL colour chart		
D.F.T.	70 µm	120 µm to 240 µm		
Paint	Powder coating	Epoxy-resin base (240 μm)		
Control pendants	STH 1 control pendant with EMERGENCY STOP palm button	Radio remote control in pushbutton or joystick version		
		MOVEit one-hand control switch		
Control	Contactor control including main contactor	For crane builders, contactor control without transformer and without crane switch contactor		
Hoist motor control	Pole-changing	1 		
Travel motor control	20/5 m/min	-		
	10/2,5 m/min	frequency-controlled		
Motor supply voltage 50 Hz/60 Hz	380 – 41 5 V	All voltages possible		
Chain grade 8 to DIN 5684	Hardened and tempered	Stainless steel chain		
Safety factor	≥ 5,0	17		
Chain guide	Reinforced with steel inlet	Sandwich chain guide made of hardene spring steel plates		
Chain box	Plastic	Sheet steel, textile		
Load lifting elements	Load hook in bottom hook block	Thread bar, VAGH safety load hook		
		Galvanised load hook		
Limit switches	Hoist limit switch (top and bottom hook position)	-		
Travel limit switch	-	For up to four switching functions — pre- and end limiting in both directions of travel		
Overload cut-off	Slipping clutch	-		
Temperature control of travel motors	Bimetal	5		
Mechanical safety devices		Wheel arresters		
	Guide rollers for wide flange widths dependent on trolley type	Guide rollers for narrow flange widths		
Hoist brake	Dual surface magnetic brake with asbestos-free brake linings manual and release brake	Second brake		

The engineering

Engineering means innovation and individuality. Constantly redefining the lifting and transporting of loads for complex requirements is a job for our experts. Drawing on one of the widest product ranges of standard components, they regularly develop modern, individual off-standard and customised solutions. Hardly any other manufacturer of lifting and crane technology can offer you this diversity of precisely designed top quality customised solutions combined with maximum cost-effectiveness.

The modular SC chain hoist programme forms the basis for the most varied solutions. Compact construction, extremely low headroom, twin chain hoists or multi-reeved chain hoists, SCB big bag hoist, coupled chain hoists for four-point load pick-up. Various trolleys are available for all chain hoists. Customised system solutions individually adapted to your precise requirements are our forte. The experience and knowledge gained from over 135 years of crane technology give us the flexibility to develop and produce the optimum solution for your project in short time.

The facts

- Perfectly matched to your project
- Every hoist is the result of over 135 years of experience and expertise
- Short development time
- Cost-effective thanks to modular system
- Technically mature thanks to the use of field-proven standard components
- High quality and reliability ensured by in-house production









SCK chain hoist as [extra] short headroom trolley

If you do not want to lose even a millimetre of lifting height, STAHL Crane-Systems' SCK extra short headroom trolley is just the thing for you. The construction of the short headroom trolley itself saves a tremendous amount of space and reduces the headroom by 33 %. The extra short headroom trolley with its headroom reduced by 60 % achieves maximum hook paths particularly in extremely low-ceilinged rooms and fully deserves its name. The distance from the underside of the beam to the bed of the hook, just 210 mm at a load capacity of 5,000 kg and 185 at 3,200 kg, is extremely low and unique at present. The chain hoists used here, mounted vertically, are based on standard components of STAHL CraneSystems' SC chain hoist programme.

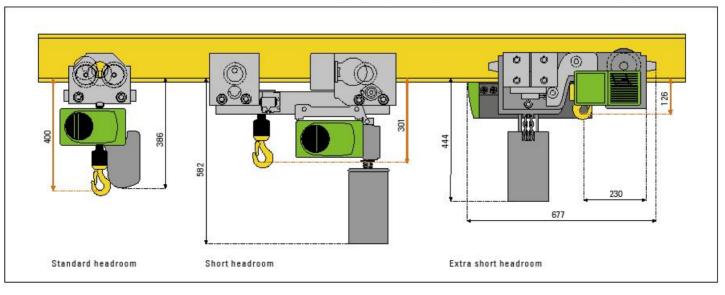
The patented chain drive is unique. Two separate chains running in synch act on a single bottom hook block. The load is lifted and positioned without swinging or vibrating.

The facts

- Compact dimensions achieving maximum height of lift
- Specially developed for lowceilinged rooms
- Low deadweight
- Load is lifted steadily and without swinging
- Largely maintenance-free
- Trolleys with no projecting edges for steady cross travel







The Support

Quality right down to the most minor detail is the standard STAHL CraneSystems is committed to. Not only in the field of crane technology, but also on the subject of support. You will find lifting and crane technology from STAHL Crane-Systems all around the world. Developed by engineers and experts, manufactured with maximum care following our well-known standard of quality. All around the world, many companies from various fields have decided on maximum safety and quality, on products from STAHL CraneSystems.

When it comes to sales, we are committed exclusively to capable, professional crane manufacturing partners. You can expect optimum support from them when your individual crane system with components from STAHL Crane-Systems is at stake. Consulting and erection of a new system, system-oriented testing and maintenance, modernisation, spare parts supply and training courses. Together with our subsidiaries and crane manufacturing partners we offer you perfectly coordinated support all over the world.









Spare parts - accessible right around the clock

Our own subsidiaries and numerous partners around the world ensure reliable spare parts supply and expert assistance in your area. Even decades after a series has been discontinued, spare parts are available all over the world right around the clock.



Training courses

We constantly keep our regional crane building partners up to date with training courses, seminars and information material. You too can profit directly from our expertise. We impart practical and theoretical knowledge in our own training centre or on your premises. The seminars on offer in the form of individual, basic and advanced courses cover all main product groups. However we would also be pleased to match a special programme to your individual specifications and requirements.

You will find our current seminar programme at www.stahlcranes.com/en/support



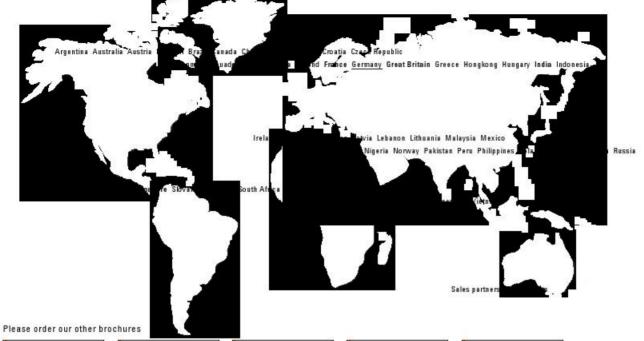
Customer service centre - in action all over the world

Our customer service centre is a service for our customers: wherever you are we assist your crane or systems builder with our experience and expertise whenever he needs us. Up-to-date diagnostic apparatus and condition monitoring systems stand by to support professional service and maintenance work. Not only you, but your system, are in safe hands. You can rely on us.

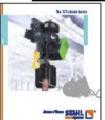
You will find our online service at www.web.stahlcranes.com.
and you can reach our customer service centre on customer.service@stahlcranes.com.

























Presented by

→ www.stahlcranes.com

STAHL CraneSystems GmbH Daimlerstr. 6, 74653 Künzelsau, Germany Tel +49 7940 128-0, Fax +49 7940 55665 marketing.scs@stahlcranes.com

Partner of Experts

