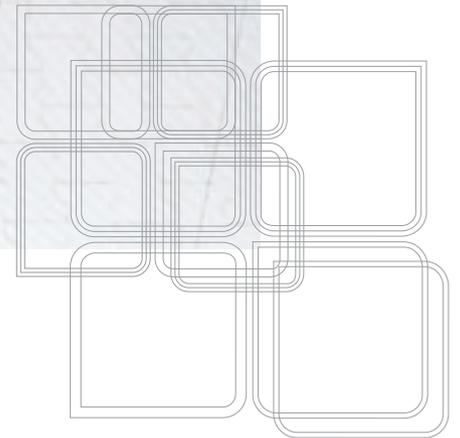
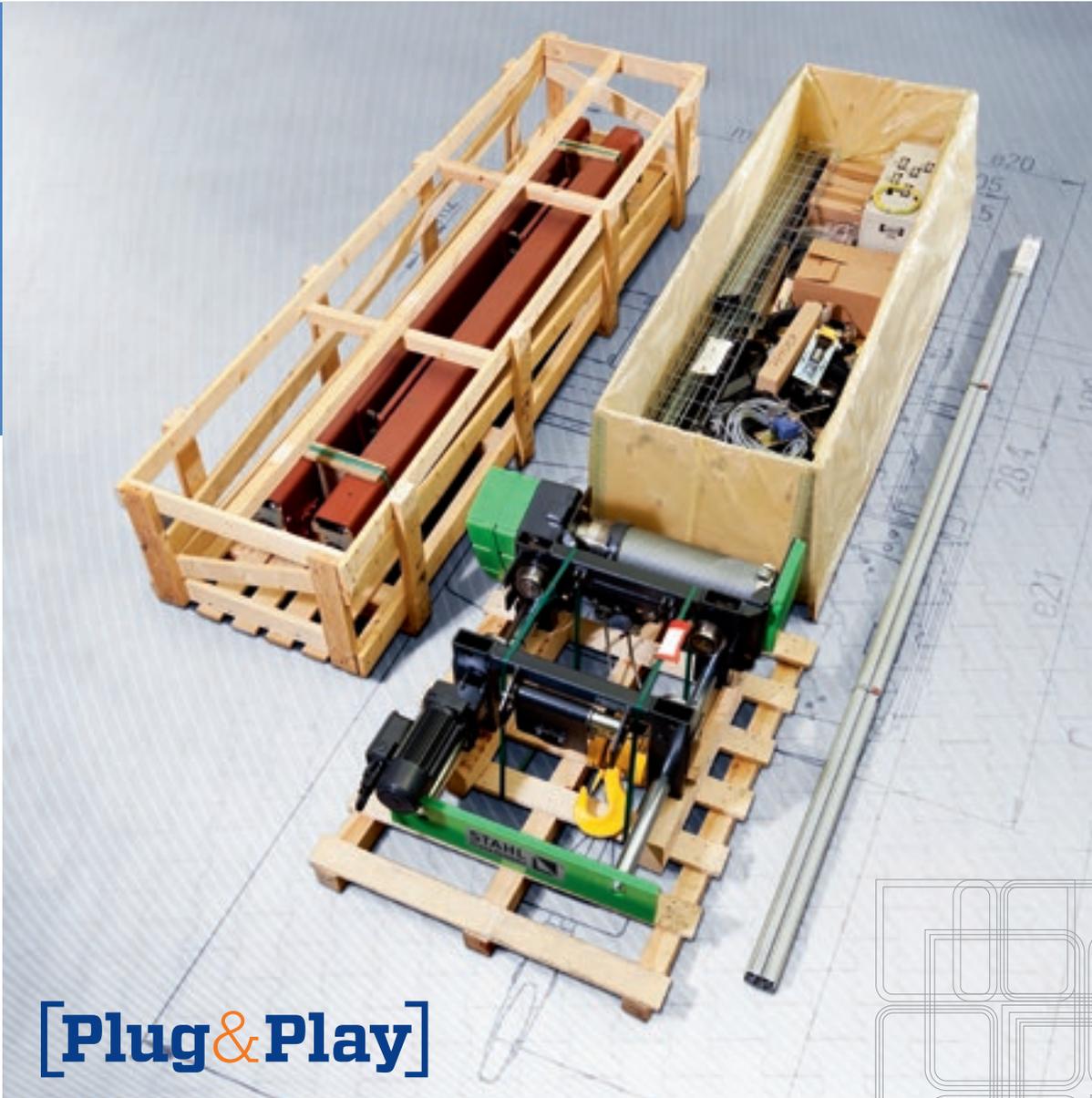


# The CraneKit for Crane Builders

03.2013



Partner of Experts

**STAHL**  
CraneSystems 

# The CraneKit

STAHL CraneSystems' CraneKit creates a new opportunity for crane manufacturers around the world to process orders efficiently and cost-effectively while keeping the planning outlay manageable. With the aid of the structured CraneGuide planning software you can plan and offer your customers the optimum crane system.

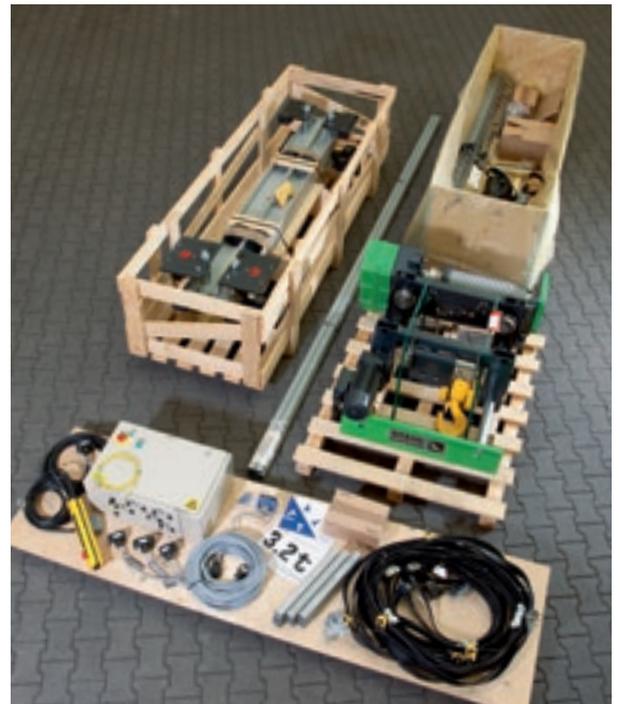
STAHL CraneSystems produces the hoist, the components and equipment, tests everything and then preassembles and delivers the completed CraneKit. This comprises the hoist, the crane endtrucks, the travel drives, power supply system including cables, C-rails and all other accessories, crane control, control pendant or radio remote control and documentation.

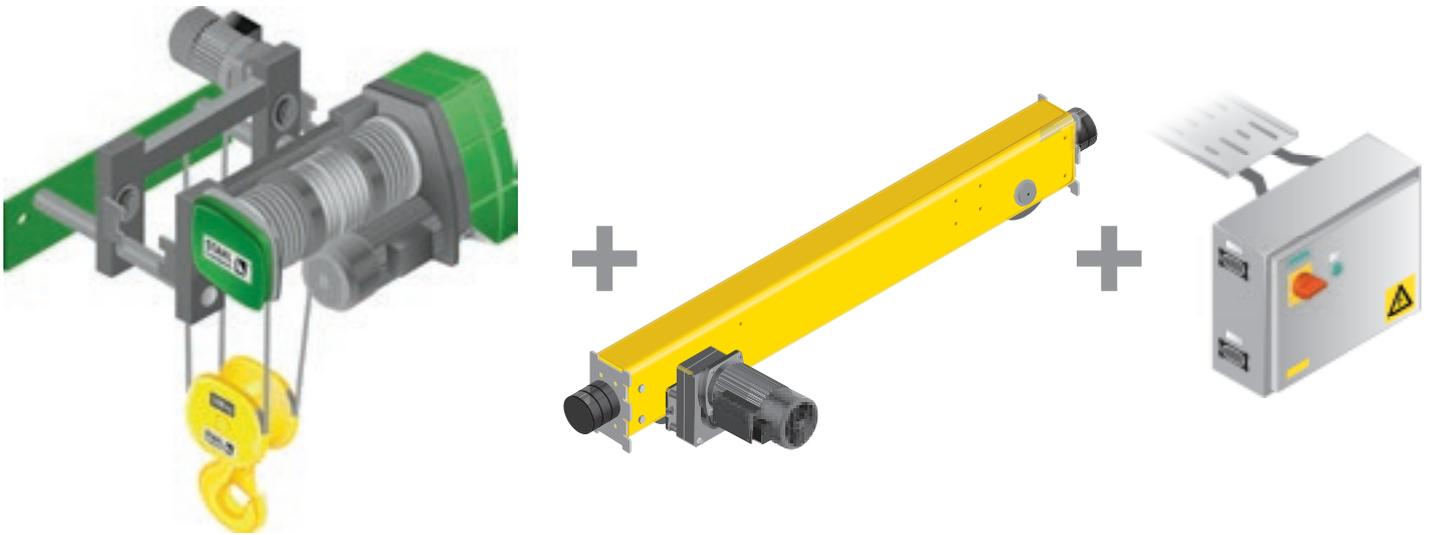
Erecting the crane system on site on the plug&play principle is then fast and easy.

## The facts

- All components are tested before delivery
- Pre-fabricated cables as far as is technically possible
- All connections are clearly labeled
- Cable trolleys are pre-assembled
- Convenient planning and ordering using the CraneGuide software

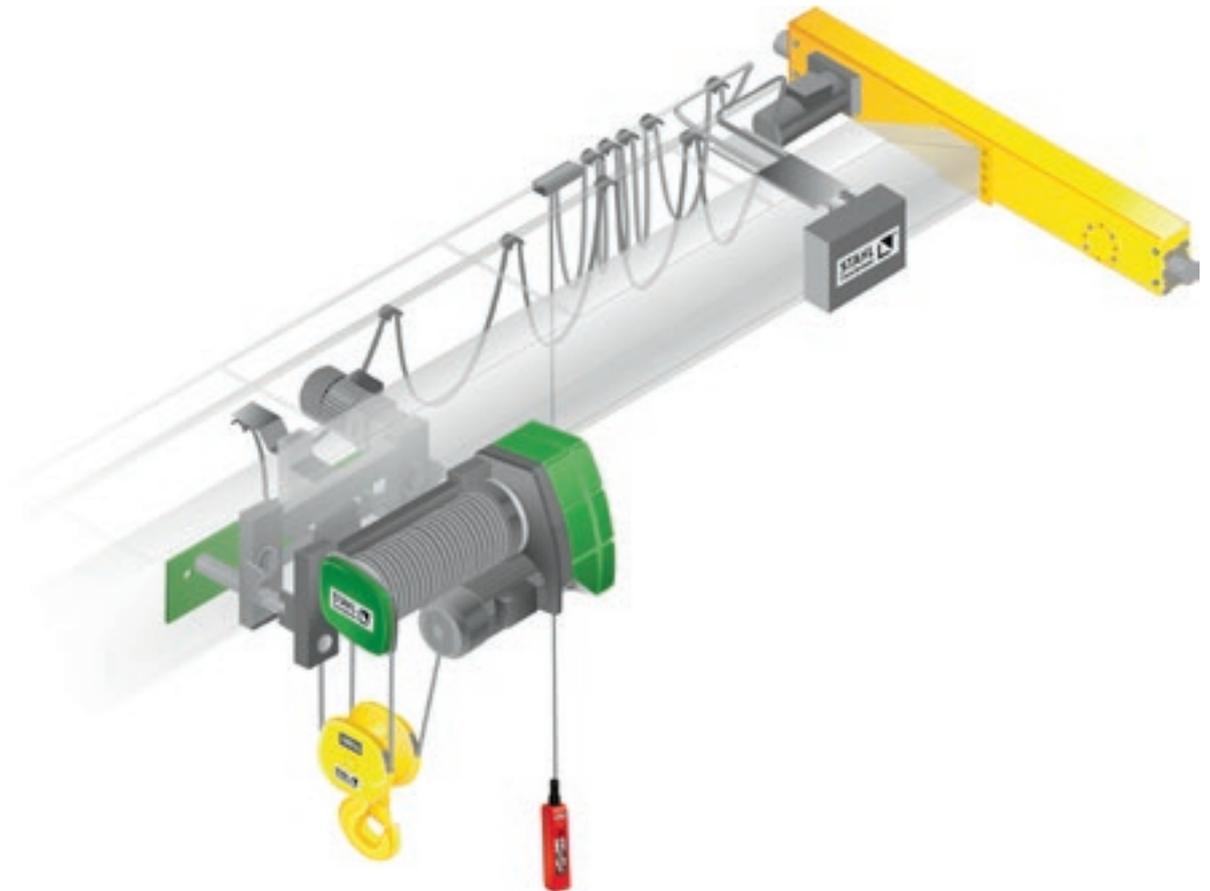
The components are carefully packed and accompanied by all necessary documentation and assembly instructions.





The CraneKit comprises lifting,  
drive and control technology modules.

[Plug & Play]



# Lifting technology



## The SH wire rope hoist

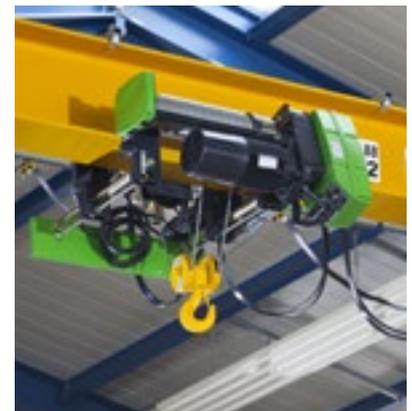
The attractive design of STAHL CraneSystems' wire rope hoists masks a compact, sturdy construction which is largely low-maintenance. They are reliable, powerful and long-lived. These adaptable SH wire rope hoists are of uncompromisingly modular design and constructed for the load capacity range up to 30 US Ton. The SH series is available in five frame sizes.

For higher load capacities up to the heavy lifting range AS wire rope hoists and SHW/SW winches from the standard program are available on request.

Off-standard applications and customized solutions too can be built cost-effectively thanks to the modular design of the standard components. You will find further information in the relevant brochures or on our website.

## The facts

- SH wire rope hoist in 5 frame sizes
- Largely maintenance-free, low wear, long service life according to FEM
- Equipped as standard with two hoisting and two travel speeds
- Particularly smooth starting and braking characteristics
- As standard, high-quality safety components for increased safety at work





■ Standard

Type	S.W.L. up to [US Ton]	Top running trolley OE*	Monorail trolleys KE
SH 3	3	■	■
SH 4	7,5	■	■
SH 5	15	■	■
SHR 6	15	■	■*
SH 6	30	■	■*

\* Available on request

# Drive technology



## The endtrucks and travel drives

The robust crane endtrucks from STAHL CraneSystems are manufactured in up-to-date series production. They can be mounted both on suspension cranes and top-running cranes; adjusting them to the crane runway profile is made simple. Suitable solutions for all applications can be found with the aid of the various wheel diameters.

The precisely controlled travel drives set your crane in motion and help to position the load quickly and accurately without disruptive load swing. The smooth starting and braking characteristics and steady acceleration ensure a high degree of safety in operation and a long service life.

## The facts

- Robust and long-lived
- Buffer stops supplied as standard
- Various wheel diameters
- Wheels in self-lubricating spheroidal graphite cast iron
- Precisely controlled low-noise travel drives



#### Endtrucks for top running cranes



- 8 different wheel diameters from 3 1/2 in to 15 3/4 in
- Spans up to 132 ft
- Safe working load up to 30 US Ton

#### Endtrucks for suspension cranes



- 3 different wheel diameters from 3 1/8 in to 5 in
- Spans up to 92 ft
- Safe working load up to 10 US Ton

#### Frequency inverters for hoisting and for cross and long travel



- Stepless acceleration and braking extend system life
- Smooth starting and braking ensures minimum load swing

#### Crane travel drives



- Low-maintenance crane travel drive
- Stepless frequency control in a ratio of 1:10 supplied as standard
- Integrated disk brake

# Control technology



## The electrical components

Standard contactor controls for all customary control voltages are available. All significant components are supplied with plug connections as far as this is technically possible and meets project requirements.

You can however supplement the standard equipment of your individual CraneKit with convenient accessories. You can choose from various control and monitoring components and optional frequency inverters for hoists and travel drives. This supplementary equipment increases safety in material transport and extends the life of the system.

## The facts

- Standard contactor controls for all customary control voltages
- Plug connections as far as possible
- Numerous coordinated additional components

### Control pendant



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

### Radio remote control units



- Micron push-button transmitter with belt clip, as an option signal feedback from crane
- Spectrum joystick transmitter with harness
- Automatic battery chargers with replacement batteries

### Hoist limit switch



- In standard version, the hoist is equipped with a gear limit switch for top and bottom hook position and an operational limit switch for top hook position.
- As an option, up to eight switching elements can be fitted to the switch. This permits for example further stopping positions and operational limiting in bottom hook position.

### Travel limit switches for cross and long travel



- Fast/slow changeover (pre-switching) and limiting in both directions of travel

### Warning light and horn



- Visual and acoustic signal transmitters such as horn and flashing light can be mounted on travel carriages.
- The signal transmitters can be activated by a button on the control pendant.

### SLE22



- Continuous load monitoring by overload cut-off even if hoist is at a standstill
- Monitoring of motor temperature for hoist and travel motor
- Operating data logging, e.g. operating hours, motor management
- Output relay for additional functions

### Overload cut-off



- Load measured at rope anchorage, LET overload cut-off
- Load measured at gear torque support, LEI overload cut-off
- Mechanical load measurement at rope anchorage

# The CraneGuide

STAHL CraneSystems provides the CraneGuide, a new, intuitively structured planning software designed specifically for crane manufacturers. The program permits access to our entire standard product range. You can always find the optimum solution for your customers in the regularly updated CraneGuide database. Project planning for crane systems couldn't be more convenient. In the CraneGuide you define the design parameters and requirements in input fields and are automatically presented with a selection of matching lifting, drive and control technology and other crane components. You can judge right away what the system will look like in 2D or 3D visualisation. You receive precise information on technology and prices and can calculate your crane system whenever you want and on the basis of your individual terms of supply. This is of course also possible offline to a certain extent, however quotation drawings can only be drawn up online. The information and specifications can be exported as a Word file and then edited.

Simply integrate the data into your quotation, make use of it for order acknowledgements or data sheets with drawings and illustrations.

When your planning is completed, the order placed and the data transmitted to STAHL CraneSystems, all you have to do is wait for your individually assembled CraneKit to be delivered.

## The facts

- Structured and intuitive
- 2D and 3D visualization
- Precise information on technology and price
- Data export in customary formats
- CraneKit supplied directly to you on schedule

You can export the quotation as a Word file, edit it and then integrate it into your general quotation.





You can define your CraneKit and its components in the clearly laid out form view. After you have configured it, various data sheets and drawings, for example of endtruck connections, are available. The 3D visualization of the components selected helps you plan the crane system. The CAD data can be exported for later adaptation.

# Assembly

Your CraneKit from STAHL CraneSystems comprises crane components for under running and top-running single girder cranes. CraneKits for double girder top-running cranes can also be supplied on request. Every single component is manufactured to a high standard of quality and exhaustively tested before being meticulously packed. Assembly is user-friendly, conveniently arranged and based on the plug and play principle. The straightforward, detailed assembly instructions are a great help. Some components are supplied pre-assembled and need only be pushed in and bolted. Cables are ready mounted on the cable trolleys. As far as it is technically possible and meets the application conditions, all cables are supplied with plugs, and all connections are clearly labeled. This not only saves you valuable time but reassures you that everything is correct.

## The facts

---

- Detailed assembly instructions
- Pre-assembled components
- All cables are supplied with plugs as far as is technically possible
- All connections are labeled
- Cables ready mounted on cable trolleys
- Time-saving final erection



# [Plug & Play]



## A capable partner

Over 130 years of practical approach and experience and the constant drive to invention and development characterize our history. We have played a decisive role in developing the industry in many fields. Today we are one of the world's leading brands and the major manufacturer of explosion-protected hoists and crane components. Chain hoists, wire rope hoists, winches, drive and control technology, condition monitoring systems; technically and economically, STAHL CraneSystems' products rank in the premium class at international level.

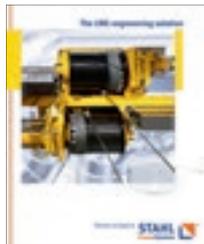
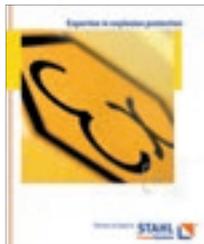
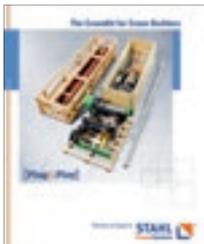
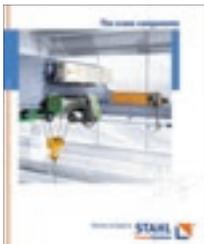
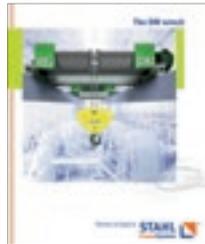
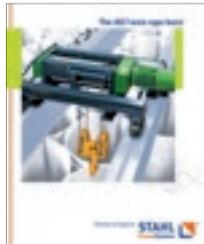
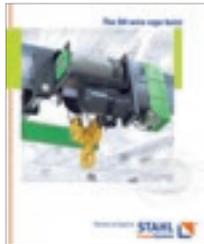
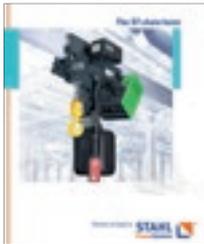
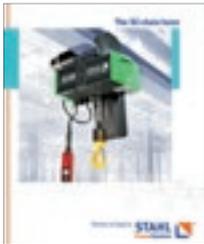
We are pleased to relay our specialist knowledge directly to our customers.

You will find comprehensive information in our extensive brochures and on our website. If you should still have questions, you can contact the STAHL CraneSystems' subsidiary responsible for you directly.

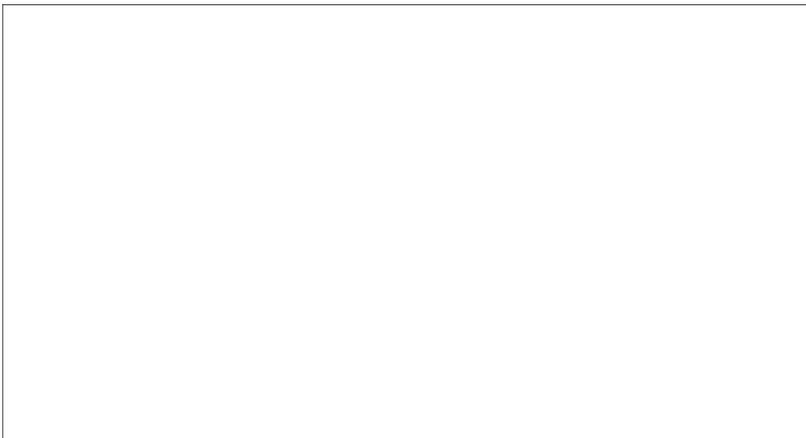
STAHL CraneSystems is the »Partner of Experts« and supplies first-class hoists and crane components exclusively to crane builders.







Presented by



➔ [www.stahlcranes.com](http://www.stahlcranes.com)

STAHL CraneSystems, Inc.  
6420 Dorchester Road,  
29418-5102 Charleston, SC, USA  
Phone +1 843 7 67 19 51, Fax +1 843 7 67 43 66  
infous@stahlcranes.com

*Partner of Experts*

