

SR wheel block



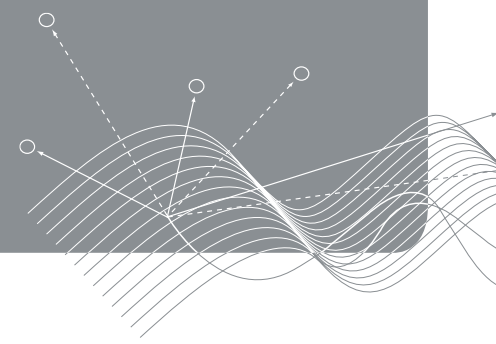
03.2022

Partner of Experts

STAHL
CraneSystems



SR wheel block



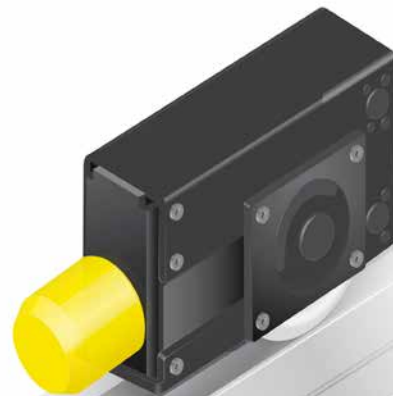
The SR wheel block is used wherever loads need to be moved. This is possible in crane, trolley and systems building as well as in custom applications and special constructions. Compact, powerful and maintenance-friendly. Users, crane manufacturers and system builders appreciate the robust wheel block, which is designed on the basis of proven, low-maintenance components. Controlled serial production of the standard components affords you economic advantages. The SR wheel block is a generally acknowledged quality product of the highest order.

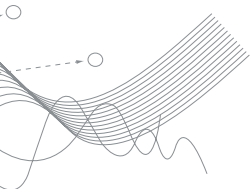
Used for your individual solutions, the SR wheel block from STAHL CraneSystems comes in six different sizes for wheel loads from 5,000 kg to 30,000 kg. Thanks to different mounting configurations, the wheel block can be used universally and flexibly. For out-of-the-ordinary requirements, our experts in the development department will devise special solutions tailored to your needs.

Various special designs are available for use under special conditions. IP66 protection is, for example, necessary for use in the open without protective cover or when water jets are present. Optional guide rollers or protection against derailment contribute to the increased safety of your system. You can even use the SR wheel block in potentially explosive environments. On request, you can obtain the complete wheel block programme in explosion-proof design for Zone 1, Zone 2, Zone 21 and Zone 22. It's no coincidence that we are one of the market leader for explosion-protected lifting technology and crane components.

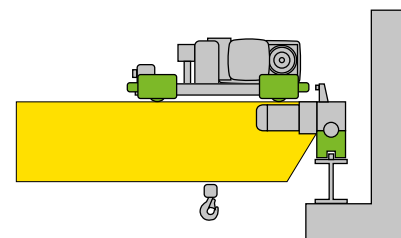
The facts

- Six sizes for wheel loads from 5,000 kg to 30,000 kg
- Three standard configurations for connection to customer structures
- Low-maintenance direct drive with two speeds
- Strong, durable standard components
- Maintenance-free anti-friction bearing
- Optionally with frequency-controlled motors
- Optional version with angle drive
- Optionally in explosion-proof design according to ATEX and IECEx
- Other versions on request



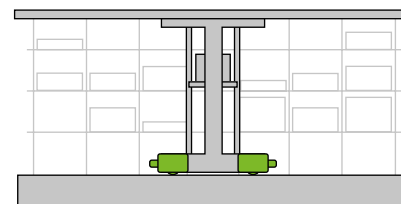
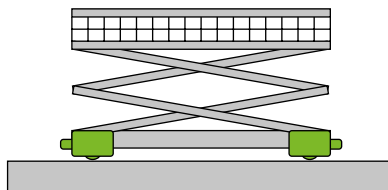
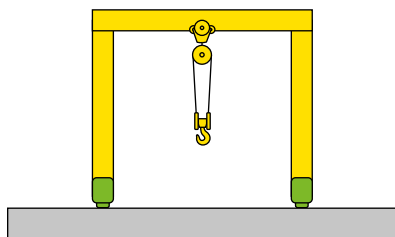


Various designs and trolley versions for the SR wheel block cover a variety of applications. They are tailored individually to your specific requirements. The travel drives are generally equipped with pole-changing travel motors. But here, too, we are open to your wishes. Our wheel blocks are renowned worldwide for their flexible and varied use.



Examples

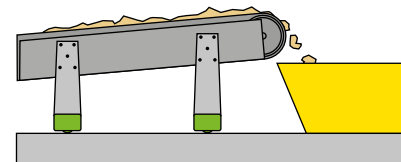
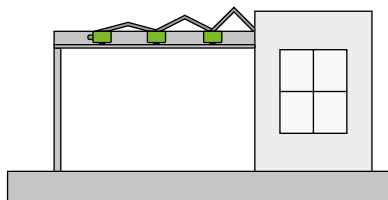
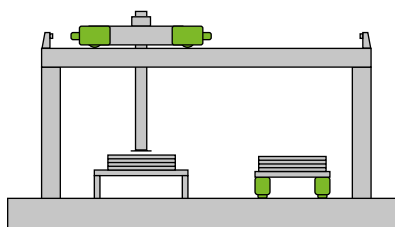
Crane installations



Portal cranes

Lifting platforms

Storage and retrieval machines



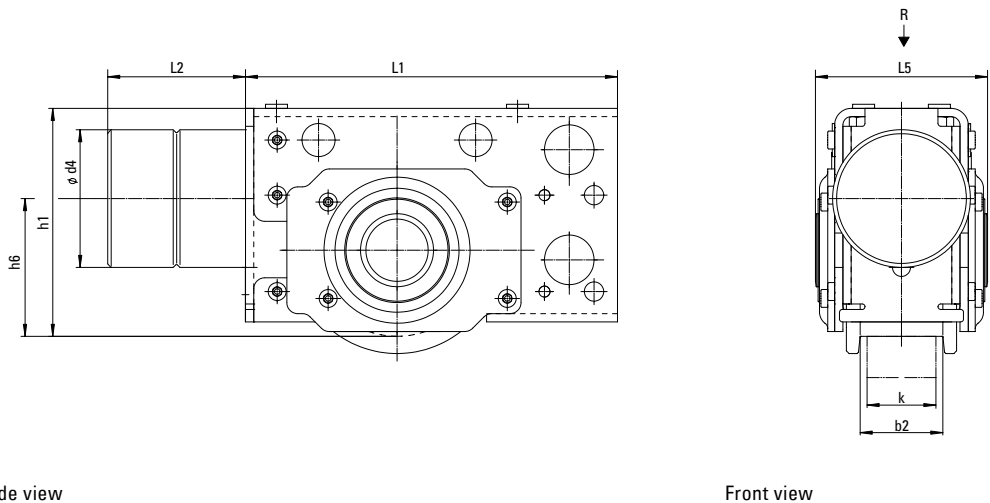
Transportation systems

Architectural applications

Conveying systems

The technology

It is a reassuring feeling to know what technology there is in the SR wheel block. The largely maintenance-free standard components of the modular wheel block are matched to each other optimally. They guarantee constant performance, long service life and high efficiency. One important feature of the wheel block is its simple, universal and flexible mounting thanks to prepared connections.

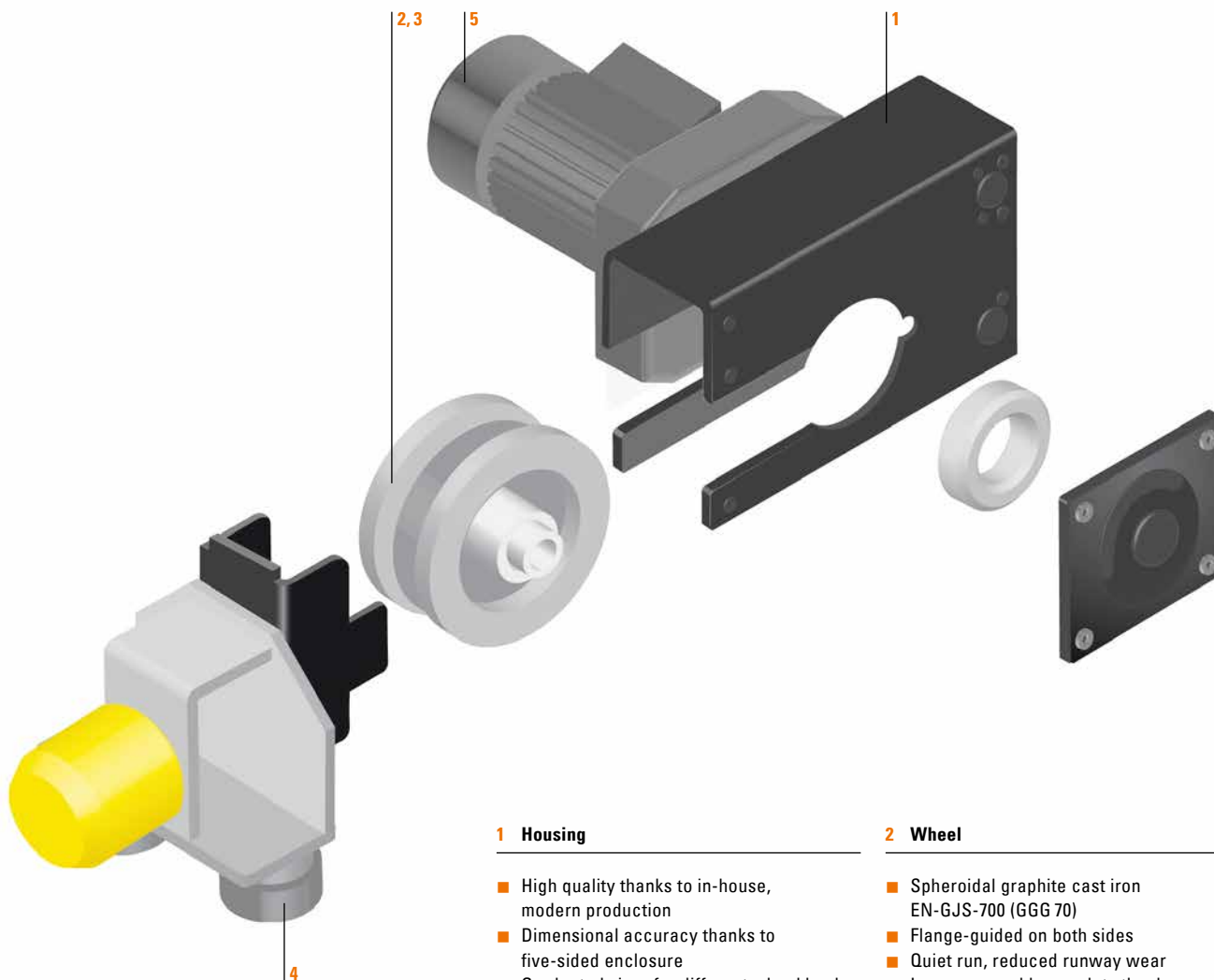


Side view

Front view

Technical data (subject to change)

Type	SR 125	SR 160	SR 200	SR 250	SR 315	SR 400
Wheel- \varnothing in mm	125	160	200	250	315	400
Max. wheel load in kg	5,000	7,000	10,000	16,000	22,000	30,000
L1 in mm	273	345	408	437	500	658
L2 in mm	100	125	125	160	160	200
L5 in mm	135	172	189	208	230	322
h1 in mm	165	190	235	295	350	440
h6 in mm	100	100	100	100	100	155
$\varnothing d4$ in mm	100	125	125	160	160	200
Rail width k in mm	40, 50	40, 50, 60	40, 50, 60	40, 50, 60, 70	50, 60, 70, 80	60, 70, 80, 100



1 Housing

- High quality thanks to in-house, modern production
- Dimensional accuracy thanks to five-sided enclosure
- Graduated sizes for different wheel loads
- Optionally with buffer

2 Wheel

- Spheroidal graphite cast iron EN-GJS-700 (GGG 70)
- Flange-guided on both sides
- Quiet run, reduced runway wear
- Low-wear and heavy-duty thanks to self-lubrication
- Maintenance-free anti-friction bearing thanks to lifetime lubrication

3 Wheel change

- Easy inspection of flange wear
- Easy replacement of the wheel: after removing the buffer flange, the wheel can be pulled out from the front after pulling off the bearing and bearing flange

4 Guide rollers and derailment protection

- Applications: for extra wide rails, to reduce travelling resistance and skewing forces, to minimise cornering forces and runway wear
- Wheel design without flange, the opposite side is equipped with a derailment protection device
- Larger rail widths possible

5 Drive

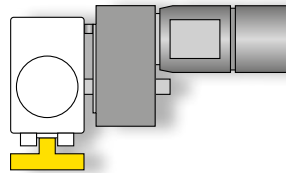
- Pole-changing travel motors
- Low-maintenance direct drive (vertical/horizontal) with torque support
- Optionally single or centralised drive or without drive
- Optionally with frequency-controlled motors
- Space-saving angle drive

The options

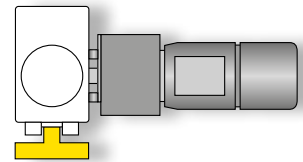
It is always possible to make things better. Although first class as a standard product, you have the possibility to make your SR wheel block even safer, more economical and easier to use with a variety of mechanical, electrical and electronic add-ons. This also increases the lifetime of the wheel blocks. The range of add-ons makes it possible for you to improve the performance of the wheel block and to adapt it to your personal requirements. Below we show a few examples of equipment and options. If you need further information, please visit our website at www.stahlcranes.com or contact us directly.

Standard travel drive

The travel drive is mounted ex works upright on the wheel block with a torque support. The standard drive can optionally also be mounted horizontally against the wheel block.



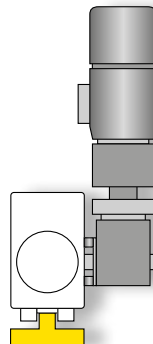
vertical



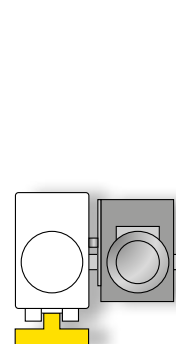
horizontal

Angle travel drive

The angle travel drive saves valuable space and guarantees optimal accessibility for maintenance work even in confined spaces. It is used, for example, in portal cranes or in storage technology when passing through recesses.

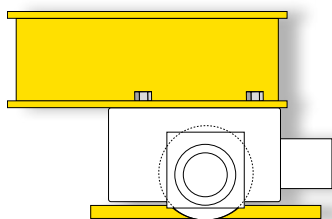


vertical



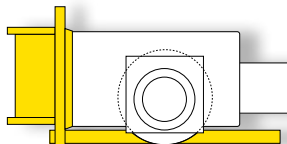
horizontal

Mounting possibilities



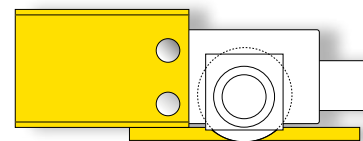
Head connection H

The steel structure is bolted on directly at the top of the wheel block.



Welded connection W

The wheel block end is welded directly to the supporting structure without intermediate flange.



Inserted connection I

The wheel block is pushed in between two cheeks and fastened with bolts. Lateral fine adjustment and fastening by threaded pin and nut.

		Standard	Options
Ambient temperature	Wheel block	–20 °C to +40 °C	–20 °C to +60 °C, –20 °C to +70 °C, –30 °C to +40 °C
	Frequency inverter	–20 °C to +50 °C (non-condensing)	–
Protection according to EN 60529		IP55	IP66
Coating	Colour	Dark grey RAL 7021 Prime coat KTL	in all other colours according to RAL colour chart
	Corrosion protection	Steel shot blasting according to DIN EN ISO 12944-4, rust removal degree SA2.5	–
	Coat thickness	20 µm	to 240 µm
Finish/Powder coating		Polyurethane top coat	Epoxy resin basis
Buffer		–	a buffer can be mounted on the front end of the wheel block
Mounting possibilities travel drive		Standard travel drive vertical or horizontal	Angle travel drive vertical or horizontal
Travel motor control	50 Hz	pole-changing 5/20 m/min and 10/40 m/min	frequency controlled Control range 1:10
	60 Hz	pole-changing 6.3/25 m/min and 12.5/50 m/min	
Motor supply voltage	50 Hz	380 – 415 V	all voltages possible
	60 Hz	440 – 480 V	



Argentina Australia Austria Belgium Brazil Canada Chile **China** Colombia Croatia Czech Republic
Denmark Ecuador Egypt Estonia Finland **France** Germany **Great Britain** Greece Hongkong Hungary **India** Indonesia

Ireland Israel Italy Jordan Latvia Lebanon Lithuania Malaysia Mexico
Netherlands Nigeria Norway Pakistan Peru Philippines Poland **Portugal** Rumania Russia

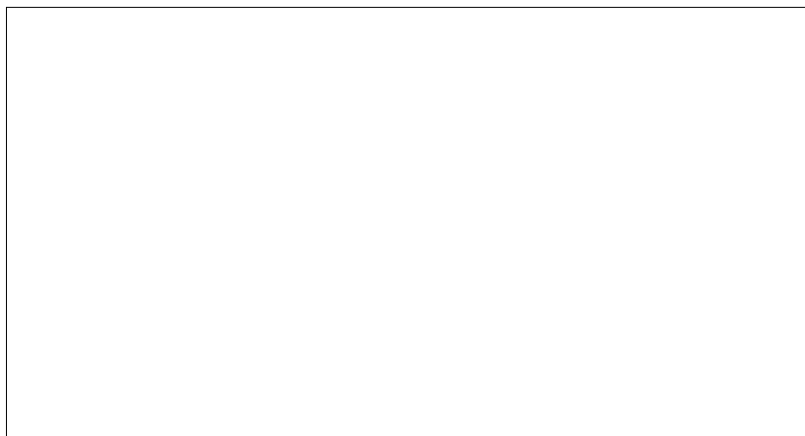
Singapore Slovakia Slovenia South Africa South Korea **Spain** Sweden Syria
Taiwan Thailand Turkey **UAE** Uruguay **USA** Venezuela Vietnam

Sales partners **Subsidiaries**

You can find this and other brochures at www.stahlcranes.com/download. We will gladly also send them to you by post.



Presented by



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



MEMBERS OF COLUMBUS MCKINNON

