SR wheel block

10.2019

Partner of Experts

STAHL CraneSystems

SR wheel block

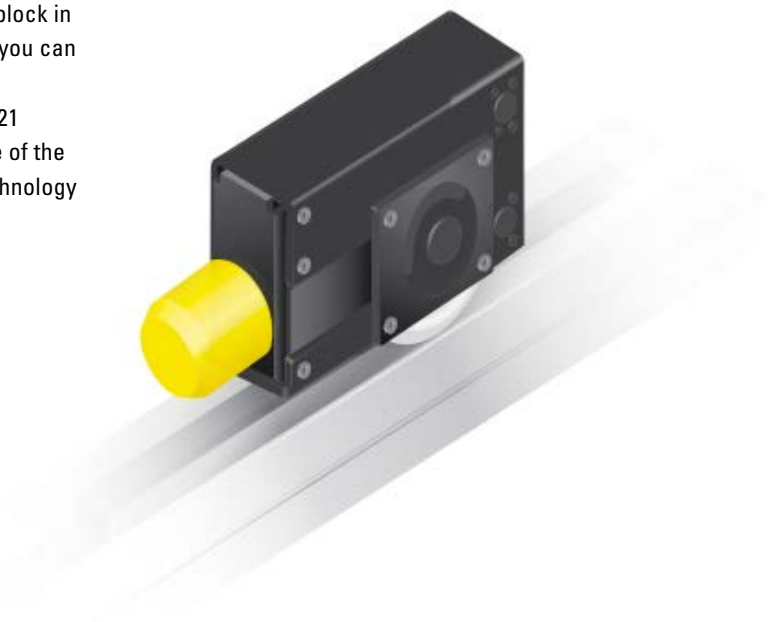
The SR wheel block is used wherever loads need to be moved. This is possible in crane, trolley and systems building as well as in custom applications and special constructions. Compact, powerful and maintenance-friendly. Users, crane manufacturers and system builders like the robust wheel block, which 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. IP 66 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.

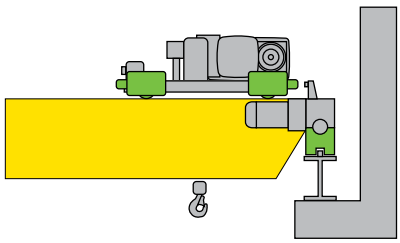
The facts

- 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

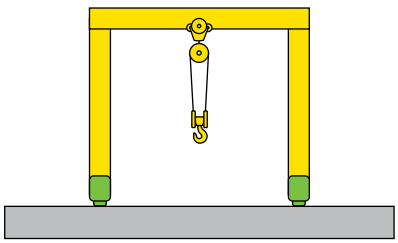


Various designs and trolley versions for the SR wheel block cover a variety of applications. They are tailored individually to your specific requirements. The travel drives are generally equipped with pole-changing travel motors. But here, too, we are open to your wishes. Our wheel blocks are renowned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

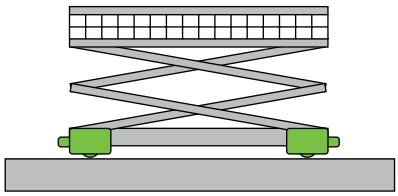
Examples



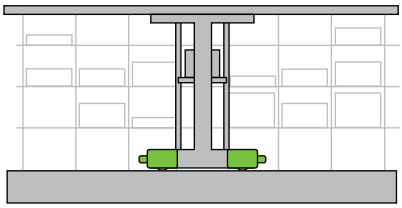
Crane installations



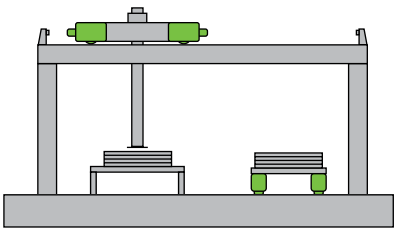
Portal cranes



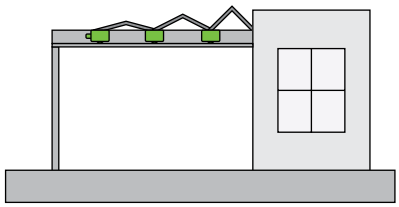
Lifting platforms



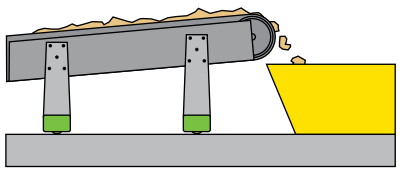
Storage and retrieval machines



Transportation systems



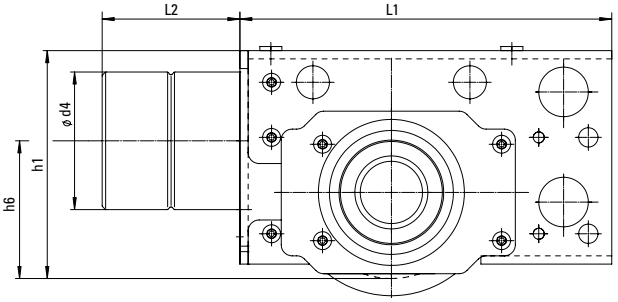
Architectural applications



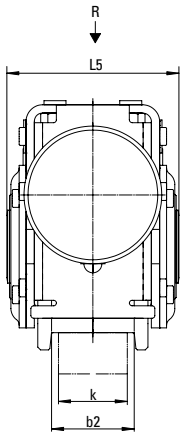
Conveying systems

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 this wheel block is its simple, universal and flexible mounting thanks to prepared connections.



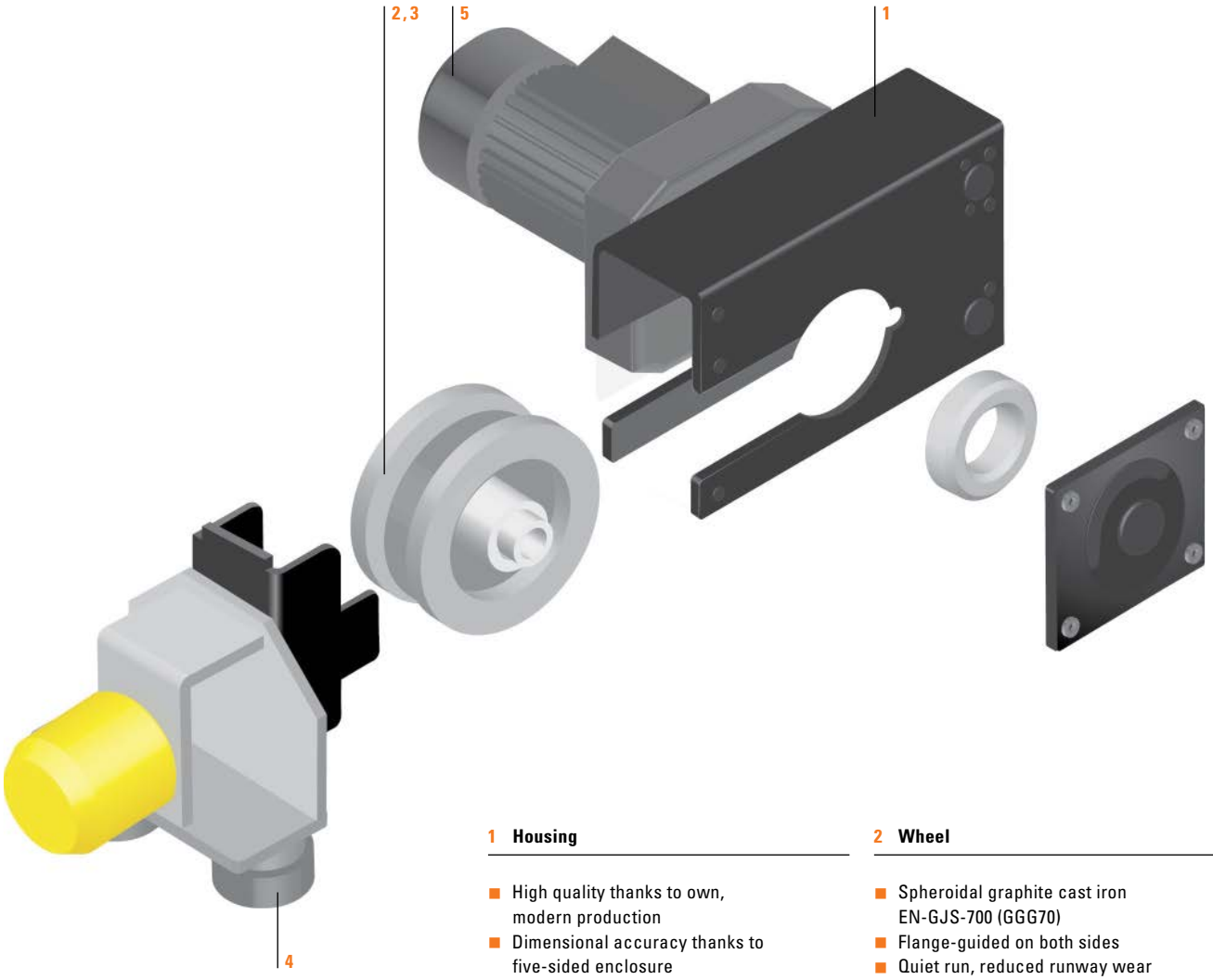
Side view



Front view

Technical data (subject to change)

Type	SR 125	SR 160	SR 200	SR 250	SR 315	SR 400
Wheel-∅ 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
∅ 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 own, 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 (GGG70)
- Flange-guided on both sides
- Quiet run, reduced runway wear
- Low wear and strong 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, to reduce skewing forces, to minimise runway wear
- Minimisation of cornering forces and wear
- Wheel design without flange, the opposite side is equipped with a derailment protection device.
- Larger rail widths possible

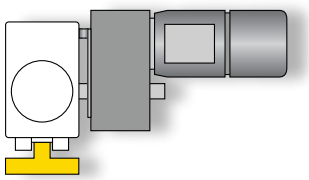
5 Drive

- 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

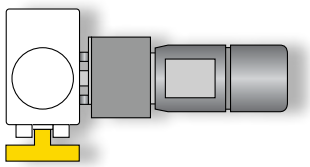
The options

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.

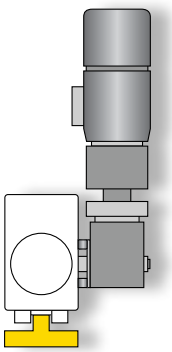


Vertical

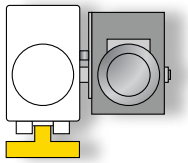


Horizontal

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.

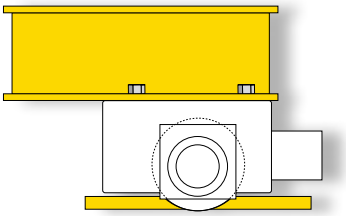


Vertical

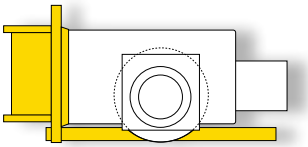


Horizontal

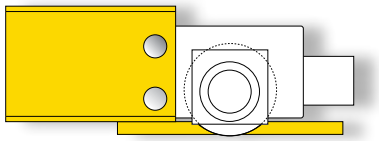
Mounting possibilities



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		IP 55	IP 66
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
	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	

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

Presented by

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