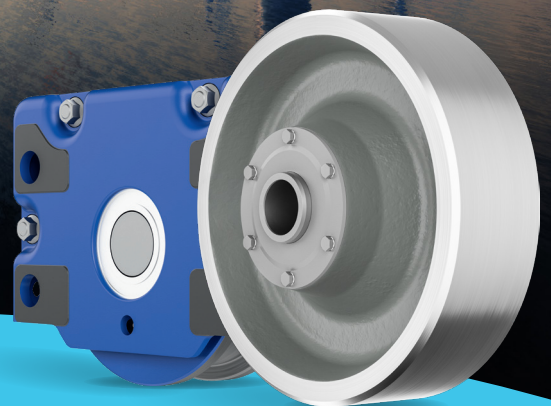
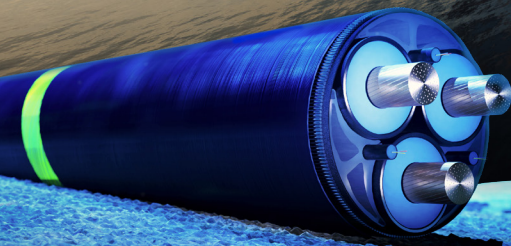




KARL GEORG

SOLUTIONS FOR OFFSHORE CABLE LAYING

Supported by Karl Georg products, cables find their way to offshore wind farms to supply the world with green energy. Cable carousels, for example, are already guided and driven by crane wheels and thus contribute their share to the support of renewable energies.

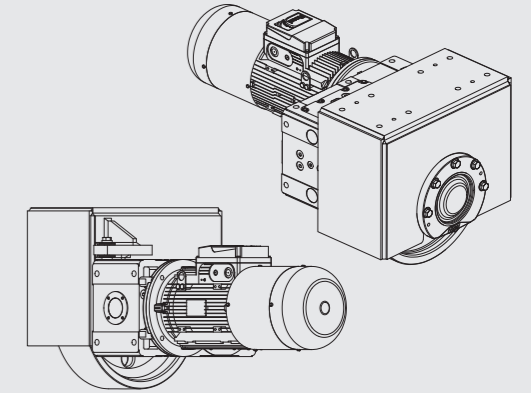
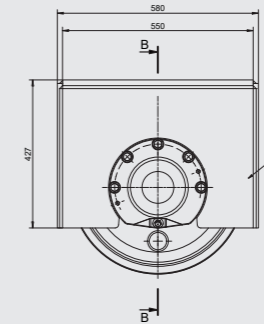
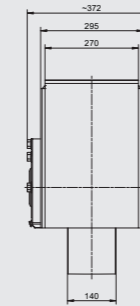




APPLICATION EXAMPLE

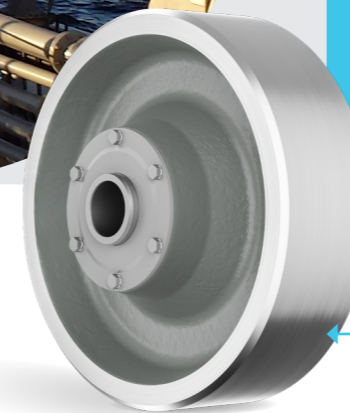
How a construction can look in concrete terms, you can see well in this example of driven and non driven wheel blocks, designed for a cable lay carousel. In this case, about 170 wheel blocks driven by 500 x 140 KG 130 wheel sets without wheel flangs where designed to support on- and offshore

cable carousels moving on a circle track. With nearly 60 years of experience, we will provide the right solution - designed for your application.



Wheel block non driven with RNE 500 x 140 KG130 wheel set.

Wheel block driven with RAE 500 x 140 KG130 wheel set, with drive shaft and torque support.



CRANE WHEEL MATERIAL:

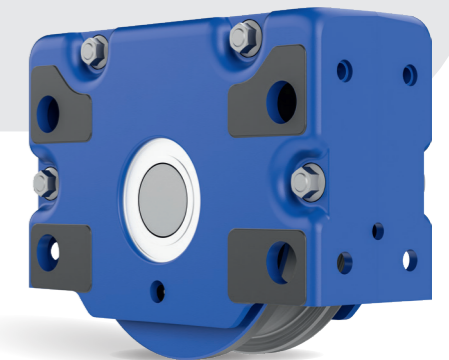
- Spheroidal graphite iron (GJS-700-2)
- EN-GJS-800-2

ALTERNATIVELY:

- Solid material or binding 42CrMo4 / 34CrNiMo6, Stainless Steel CuAl-xx (Bronze), Polyamide PA12, Vulkollan

OPTION:

- Running thread slip free hardened



CABLE CAROUSELS running on Karl Georg Wheels

Wheel Sets

Wheel Blocks*

Cable lay carousels are permanently installed, deck mounted or underdeck carousels which store cable for use during cable lay operations. When laying power cable, these typically rotate to minimise stresses on cable, whereas for fibre optic lay, they can remain static. These carousels are designed with a load spreading grillage to suit the intended vessel to help reduce the modifications required to the deck.

Power cable carousels are rotating or static structures used to handle and store cable on or offshore. Cable carousels are used for the storage of cable during cable lay operations. The carousels rotate when laying the power cable to minimize the stress on the cable. Karl Georg has designed various different wheel sizes and types to carry the carousel load of up to 5.000 tons to ensure smooth and continuous operation.

For over 50 years, KARL GEORG has supplied crane travel wheels to factory/DIN standards or customer drawings in diameters from 100 to 1,250 mm and in batch sizes from 1 upwards.

Our crane wheel materials – forged steel, cast steel or ductile cast iron – are carefully matched to the specific use case. Crane wheels can be executed with or without a wheel flange or gear wheel, and with rolling or plain bearings. Depending on requirements, we can also offer anti-slip surface layer hardening as well as custom colours.

Our drive solution for a low-maintenance direct-driven system with manufacturer-neutral choice of gearbox. High load-bearing capacities plus a compact form factor ensure maximum power density in your facility.

Karl Georg wheel blocks are available in the sizes 160, 200, 250, 250-V (reinforced), 315, 400 and 500. Able to handle loads from 6.8 to 40 t, these are turnkey drive units that are capable of supporting a wide range of conveying scenarios. Offering a wide choice of connection options (bolt, head, face or flank connection) and many additional, application-specific features (high-temperature or ATEX models, Vulkollan® wheels, etc.), these are the ideal, universal solution for machinery manufacturing and plant engineering

i Further information and technical details can be found at www.karl-georg.de.



HIGH AVAILABILITY



EASY TO INSTAL



FLEXIBLE DRIVE SELECTION

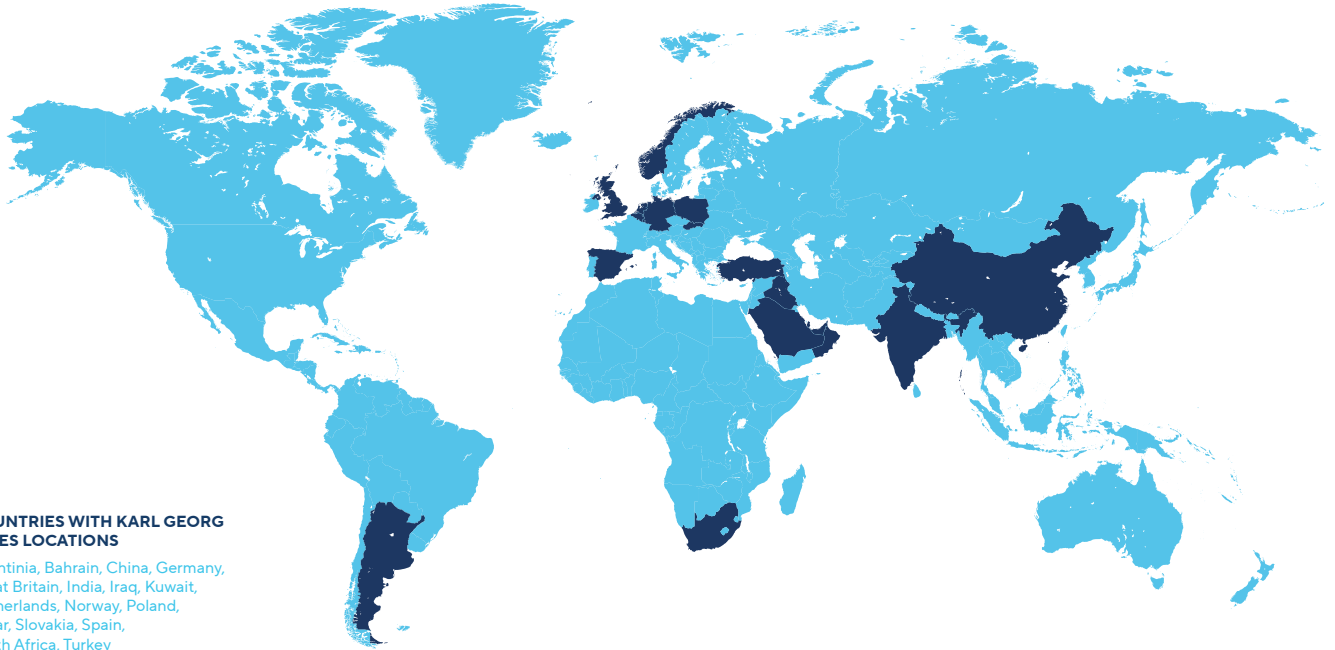


HIGH TEMPERATURE RESISTANCE



SALT WATER RESISTENT

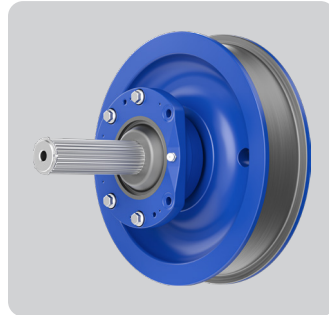
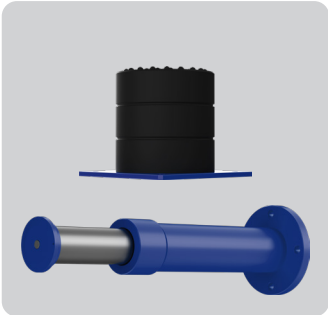
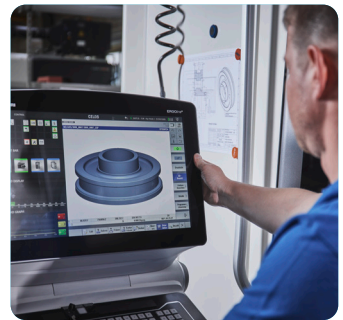
* Shown wheel block: RB250x65 with wheel flange, other wheel flange recesses or design without wheel flanges possible.



COUNTRIES WITH KARL GEORG SALES LOCATIONS

Argentina, Bahrain, China, Germany, Great Britain, India, Iraq, Kuwait, Netherlands, Norway, Poland, Qatar, Slovakia, Spain, South Africa, Turkey

FURTHER INFORMATION



MORE INFORMATION ONLINE AT KARL-GEORG.DE



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