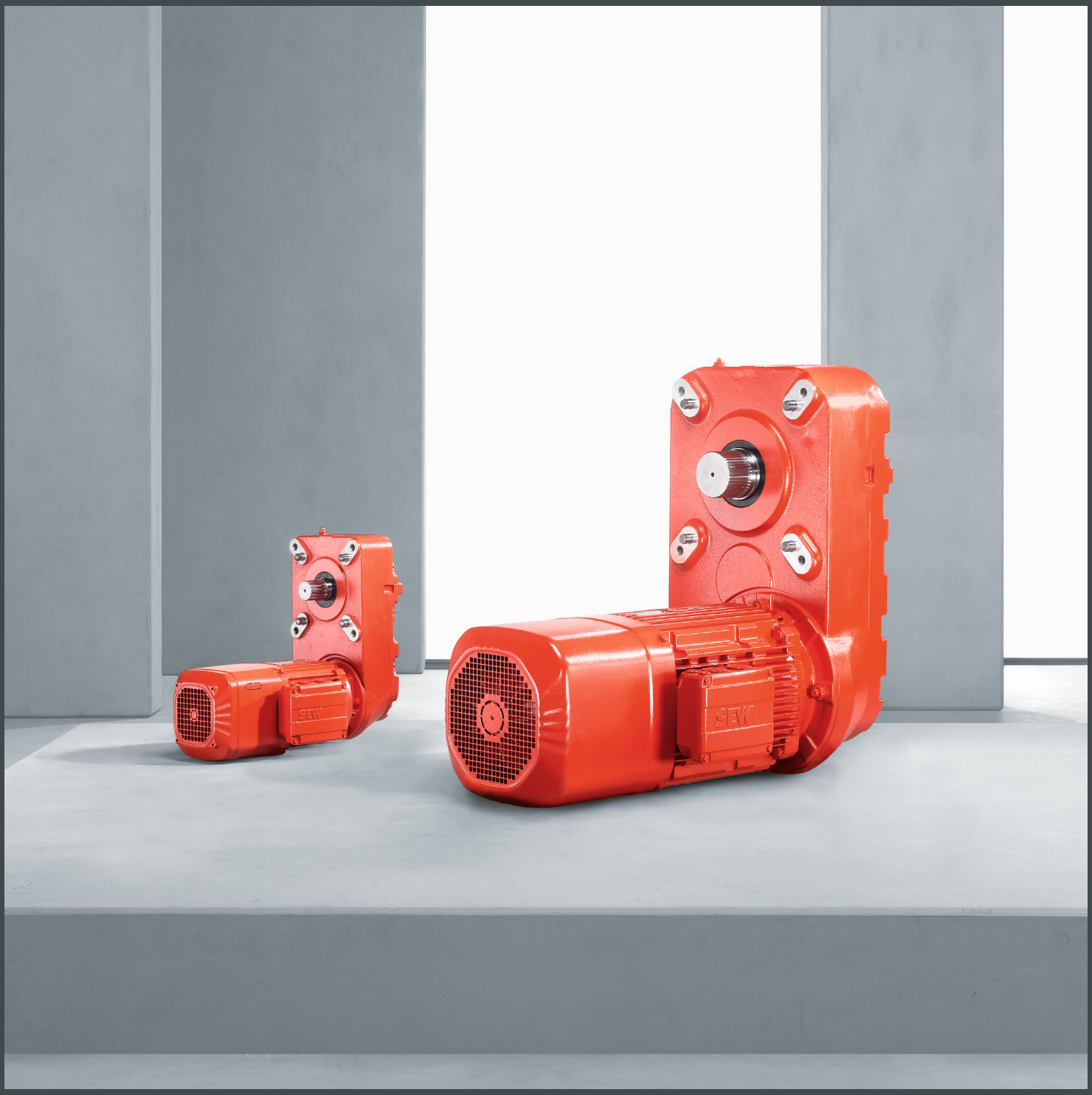
SEW EURODRIVE

G..7 gearmotors as hoist drives



System solution for hoists in cranes

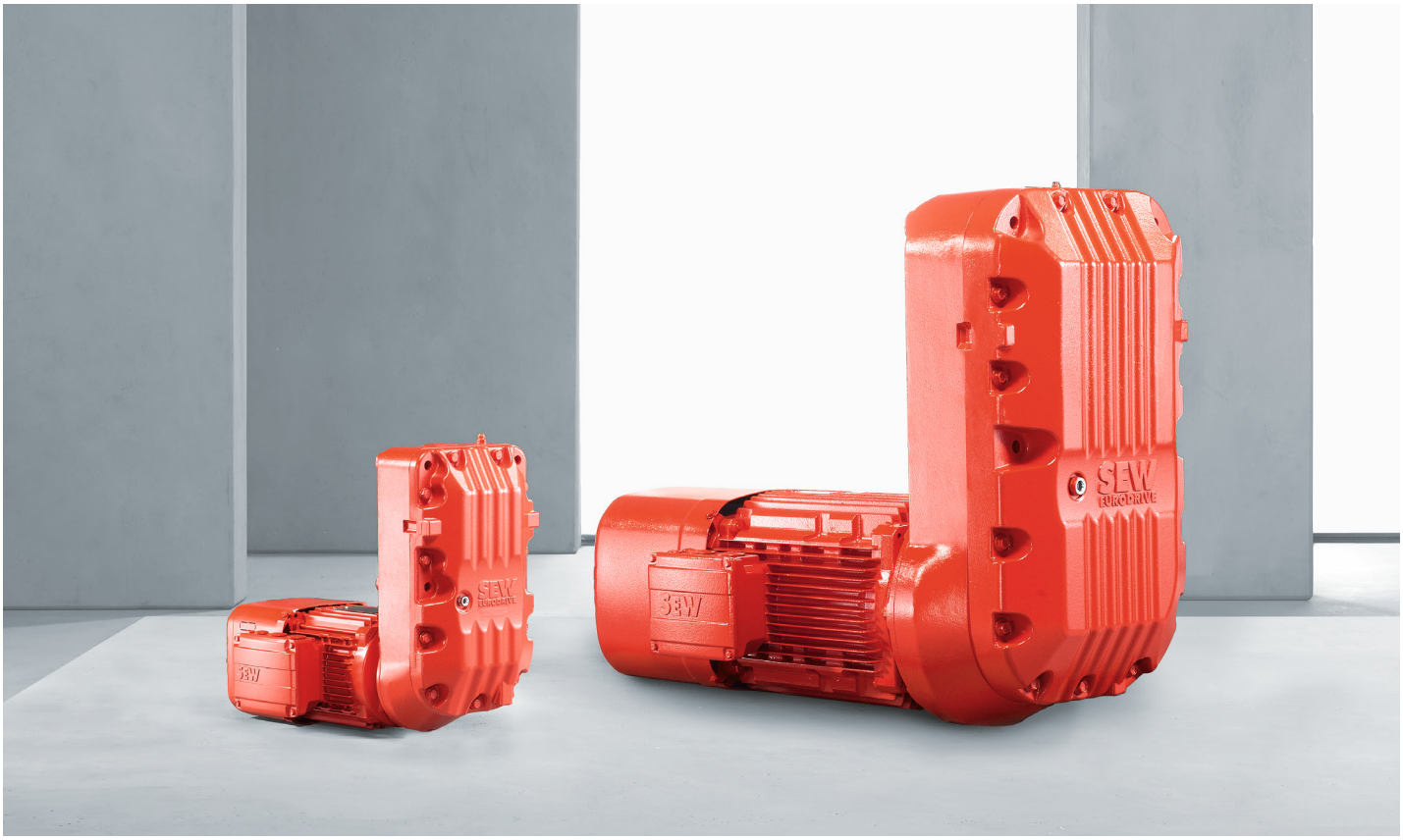
Worldwide, billions of products and containers are moved, loaded or conveyed using cranes every day. Crane systems are the core element of handling goods in manufacturing facilities, loading equipment, or container terminals. Reliable and powerful drive technology ensures the safe and dependable transport of goods at high throughput rates.

The lifting drives in crane hoists often include a parallel-shaft gear unit where rope drum and motor are arranged on the same side of the gear unit. Suitable drives have a wider center distance so that a large rope drum can be mounted onto the output shaft.

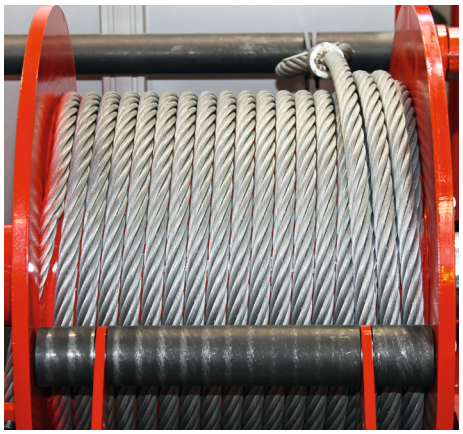
The new G..7 gear units by SEW-EURODRIVE were specifically designed for hoists and have an increased center distance. The gear units were designed specifically to be used as hoist gear units according to the FEM grouping and to the specifications regarding hoist load and lifting speed.

The hoist gear units are available in the 5 sizes: G67, G77, G97, G107 and G157 – for hoist loads ranging from 2 tons to 63 tons. The corresponding motors are pole-changing (12/2 poles) and have a performance of 0.35/2.3 kW to 2.8/17 kW. In addition, 4-pole motors designed for inverter operation (87 Hz) are also available. These motors have a performance ranging from 1.8 kW to 25 kW. Hoist speeds range from 0.5 m/min to 9.4 m/min with 4/1, 6/1 or 8/1 reeving.

The hoist velocities can be adjusted exactly to the requirements using the finely stepped gear ratios. Various drum diameters are possible, depending on the size of the hoist drive.









→ System solution – the complete application at a glance

- SEW-EURODRIVE offers a suitable travel drive, as well as a fitting frequency inverter for almost every lifting application.
- In addition to the G..7 hoist gear units with hoist loads of up to 63 t, SEW-EURODRIVE offers tailored solutions with industrial gear units, also for hoists with even larger hoist loads.

Areas of application

- Wire rope hoists
- Single-girder bridge crane with monorail trolley running on an I-beam
- Double-girder overhead crane with dual-rail trolley
- Bridge cranes
- Gantry cranes

→ Benefits

- The modular motor concept of SEW-EURODRIVE offers numerous sizes, design variants, and options that can be combined with the new G..7 hoist gear units.
- The gear units are designed according to FEM standard.
- Wide center distances allow for the use of large drum diameters, and therefore shorter drums.
- Different drum diameters can be used, depending on the gear unit size.
- The rope drum bearing is mounted directly onto the output shaft of the gear unit, this helps to reduce the costs.
- Finely stepped gear ratios allow for adjusting the hoist velocity exactly to your requirements.
- Light-weight aluminum housings reduce the overall weight that needs to be moved by the trolley.

→ Technical key data of the hoist drives

- Sizes: 5 sizes; G67, G77, G97, G107 and G157
- Hoist loads: 2 tons up to 63 tons
- Motor powers:
  - Pole-changing motors 12/2-pole, 0.35/2.5 kW to 2.8/17 kW
  - 4-pole motors for inverter operation, 87 Hz 1.8 kW to 25 kW
- Hoist velocities: 0.5 m/min to 9.4 m/min
- Drum diameter: Various possible drum diameters, depending on the size
- Output shaft: Multiple-spline shaft acc. to DIN5480 as standard

Further information can be found at:

Industrial gear units
Delivery time program – Industrial gear units to go
Gear units
Inverter technology

SEW-EURODRIVE GmbH & Co KG
Ernst-Blickle-Str. 42
76646 Bruchsal
T 07251 75-0
F 07251 75-1970
sew@sew-eurodrive.de
www.sew-eurodrive.de

Climate neutral
Print product
ClimatePartner.com/53552-1902-1001