

Other Crane Components

ID Consulting Engineering offers wide range of components for new installations and for modernizing of existing cranes.

The crane components could be individually engineered to suit different requirements.

End Carriages



Motorized end carriages for single or double girder cranes. The design is done according to the span of the crane.

The steel structure is made from structural hollow sections or welded box type construction.

Technical features:

- Capacity - up to 20 000kg
- Group FEM 2m
- Span - up to 25m
- Wheel diameter 160-315 mm
- End carriage profile: Rectangular tube or welded structure
- Cranes girder connection: High-tensile bolt connection
- Ambient temperature -20°C to $+40^{\circ}\text{C}$ (other ambient temperatures on request)

When ordering End Carriages, indicate:

- Capacity, kg
- Span, m
- Crane type: single or double girder

Double Girder Trolleys



Trolleys are used for double girder cranes. Starting from 2 000kg to 50 000kg.

Technical Features:

- Operation temperature -20°C to $+40^{\circ}\text{C}$ (other ambient temperatures on request)
- Wheel loads up to 350 kN
- Wheel diameter 120-140 mm

Crane Drives



The TP gear motors are intended extremely for driving of travel mechanisms for material handling equipment (crane, trolleys, bridge cranes, etc.).

The gear motors consist of electric motor with cylindrical rotor and built-in brake, coupled by means of connector to a unfolded cylindrical reducer.

Advantages of TP series:

- Noiseless operation
- High reliability
- Saving of energy and the mechanical parts of drive gearboxes and brakes

Technical Features:

- from 0,37kW to 1,5kW
- voltage 380V and frequency 50 Hz
- operation mode group FEM 2m
- protection class IP44
- insulation class F

On customer's request the gearmotors may be produced for other voltages, frequencies and climatic conditions.

When ordering a Crane Drive TP series, indicate:

- type
- transmission ratio
- the electric motor type

for example: TP1160794T71B-4R BR11-4.

Electric Power Supply



Safe and reliable power supply is used for all new cranes. It is recommended in all cases of modernization of existing systems

The enclosed conductor system is a modern design, accident proof, with moving current collectors, to feed cranes and hoists.

Accomplishing international standards, the conductor system offers the maximum guarantee against undesirable accidental contacts, allows a fast assembly and a reliable working performance. The bars are supplied with the copper strip conductors already inserted in the isolated housing to be assembled consecutively. The electric joint of the conductors is made by connecting copper plates locked with bolt-nut. This assembly is covered with an isolated plastic joint.

The bars are manufactured, as standard, 4m. length with 4 or 5 copper conductors in five different sections (from 40 Amps. to 140 Amps.).

Technical Features:

- Safety - Due to its external isolation it is a protected line. It is the first protected line manufactured with sealing strips by co-extrusion system.
- Space – The conductor system fit into small spaces in comparison with other conventional electric feeding systems.
- Expansion-shrink – Every joint of the system acts as an expansion joint absorbing the differences in length due to the expansion-shrink of the system. So, no “special” expansion joints are required.
- Enlargements – As it is a modular system it is possible to enlarge or diminish the installation by adding or removing the modular tracks.
- Mounting – It is very easy and quick: in one passing the line is ready to work
- Repairs – If some track is broken it is easy to replace it for a new one without moving the rest of tracks of the line
- Working temperature – From -30°C to +55°C
- Degree of protection – IP 23

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Remote Control



Crane radio control systems have been designed for easy load handling and tough operation conditions.

Advantages:

- Increase productivity
- Reduce the risk of accidents
- Totally sealed and electrically shielded, resistant to the most demanding industrial environments
- Ergonomic design and performance for enhanced productivity

Technical Features:

- 2~6 commands or fully programmable relay configuration with maximum 16 relays output per command.
- Low power consumption transmitter. 2 AA batteries last up to 4 months
- Extra shock resistant relay specially for mobile devices
- Over 4.3 billion unique ID code available.
- Temperature range -35C /+80C
- Enclosure protection class IP 65
- Structure: Glass-Fiber or Durable nylon-fiber housing for extra shock resistance..
- Operating range up to 100 meters
- Pre-wiring standard cable making installation quick and easy.
- 3 stages LED battery power indicator.
- Feature acceleration delay time control (smooth moving for multiple speeds cranes)

Safety features:

- 4.3 billion unique ID code
- Hamming code
- enhanced watch-dog circuit

Engineered Solutions



ID Consulting Engineering-Podemcrane offers advanced engineering for custom made solutions in various industries.

Possible technical features:

- Different from standard lifting height and capacity
- Various power supply
- Ability to operate in various environmental conditions and climatic zones
- Curved monorail trolley
- Radio control
- Frequency controlled speed
- Other custom made solutions for different applications

The in-house design capabilities give us the opportunity to develop solutions targeted at bringing value to our customers.