Crane Components
Main Products Outline

Arguably the most reliable rope hoist
Podem is one of the world’s leading suppliers of complete range of crane components to all sized independent crane manufacturers around the world

Timeline

April 1, 1961
The official establishment of Podem.
The Bulgarian based state owned production company was created to supply the crane industries in European countries with electrical wire rope hoists.

1981
Podem became the biggest hoists manufacturer worldwide. Production capacity reached 100,000 wire rope hoists per year. Podem created distributions in more than 70 countries around the world represented by its commercial structures Balkancarpodem and other Podem brand names.

2001
The former state owned company was fully privatized. The new company Podemcrane AD – the successor of Podem, started operation and continued to promote the Podem brand along with the new one Podemcrane.

2018
The company is the biggest crane component manufacturer in CEE and has remained at the forefront of technological developments in the industry. 30 000 sq.m high-tech production factory with modern equipment located in EU. Sales of hundred standard products in more than 55 markets.

By using Podem’s products you will get:
• Quality products in full compliance with the International standards
• Highest possible reliability level offered in the industry as a result of very big experience in product design, modern production organization and strict quality control
• Competitive prices for standard and non-standard hoists and crane kits
• Up-to-date technical characteristics of the products thanks to our close connection with our distributors and knowledge of the markets
• Different lifting solutions matching your individual needs thanks to experienced team of mechanical and electrical engineers and flexible organization
• Full range of spare parts not only for the existing models but also for all products produced in the past
• Marketing support
Thanks to our 55 years experience in the development and production of hoisting equipment, Podem can deliver high quality reliable products at most competitive price.

Main Products

**Wire Rope Hoists and Trolleys**

The range provides solutions for new industrial cranes or replacement applications.

**Standard technical features:**
- Monorail or double girder hoist
- Standard capacity: from 1 to 50 t
- FEM group: 1 Am – 3 m

**Advantages:**
- Highest possible reliability levels offered in the industry
- Operational safety
- Long life
- Excellent price/performance ratio
- Easy maintenance
- Low service costs

**End Carriages**

Podem crane manufactures end carriages for single or double girder cranes. We can support individual design for different crane manufacturers.

**Standard technical features:**
- Type: Overhead, Gantry or Underslung cranes
- Standard capacity: from 1 to 50 t
- Span: up to 32 m
- Wheel diameter: up to 500 mm

**Motor-reducers (Crane Drives)**

Developed for driving of travel mechanisms for material handling equipment (trolleys, cranes, etc.).

**Standard technical features:**
- From 0.37 to 3 kW
- Wheel diameter from 125 to 500 mm

**Chain Hoists**

Comprehensive range with compact design, superior quality and high standard of safety.

**Standard technical features:**
- Capacity: from 125 to 5 000 kg

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**Special Solutions**

Podemcrane offers also advanced engineering for custom made solutions in various industries:
- Hoist and end-carriages up to 100 t
- Various power supply
- Ability to operate in various environmental conditions and climatic zones:
  - Cold: up to –40 °C
  - Tropical or Hot climate: up to +50 °C
- Curved monorail trolley
- Radio controlled and tandem
- Frequency controlled speed
- Besides the standard type the trolley can be designed for 2 hoists with same or different capacities
- Components for ladle, galvanized, chemical or food industry
Podemcrane offers wide range of components for new cranes as well as for modernization of existing crane systems: standard and custom-built cranes.

Components can be individually engineered to suit different requirements. All our products and components are designed, engineered and manufactured in Europe, comply with the European standards and bear the CE mark.

Podemcrane crane components follow latest innovations in the field of crane building using 55-years experience and know-how of worldwide partners.

**Single Girder Cranes**

Compact construction allowing maximum utilization of room height:

- Overhead, Suspended or Gantry Crane kits
- Standard capacity: 1 – 16 t
- Standard span: 5 – 32 m

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**Main Characteristics:**

<table>
<thead>
<tr>
<th>Capacity, t</th>
<th>Duty Mode (FEM group)</th>
<th>Lifting Height, m</th>
<th>Lifting Speed, m/min</th>
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</tbody>
</table>

**Optional Devices for Podem Crane Kit:**

- Bus-bar Conductor Systems
- Inverter control for lifting
- Anti-collision devices
- Load LED display
- Horn
- Energy drag chain
- Crane spot lights, etc.

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**Standard Podem Crane Kits:**

- Hoist unit including trolley mechanism and electrical control panel
- End-carriages with plates, buffers and travel drives
- Crane Control Panel
- Control (RRC or pendant)
- Festoon system - preassembled
- Drawings for main girder fabrication
- Accessories (lights, towing arm, panel holder, etc.)

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**Podemcrane Crane Kit:**

- Low-Headroom or Normal Headroom Monorail Hoist
- Plug&Play Assembly
  Quick plug in connector, all cables are with plugs and labeled connections.
- Lifting Reducer
  Planetary gearboxes developed specially for lifting mechanism offer high reliability and compact size. Lubricated for life for minimum maintenance.
- Lifting Motor
  Cylindrical or Conical. Dual or Single speed. Optional inverter control for smooth acceleration of lifting speed. Overheat protection prevents motor’s damage.
- Radio Remote Control or Independent Pendant
  It is a reliable model with compact-size, ergonomic handsets, safety functions and easy installation. Back-up pendant (connected to the control panel) is very reliable, with ergonomic compact design and easy for handling and operation.
The main Podem crane kits features are reliability, safety and attractive cost effectiveness intended to crane manufacturers or crane service providers.

Advantages for the customer:
- Reduced transport costs
- Reduced manufacturing costs of the entire crane by using the preset components
- Reduced on-site installation time by Plug&Play Podem crane kit because of less working steps and prepared cables and connections

Double Girder Cranes

Applied when greater capacity and higher operation required. In equal conditions double girder cranes offer greater lifting heights:
- Overhead or Gantry Crane kits
- Standard capacity: 2000 – 50000 kg
- Standard span: 5 – 32 m

Main Characteristics:
- Capacity, t
- Duty Mode (FEM group)
- Lifting Height, m
- Lifting Speed, m/min
- Hoist Travel Speed, m/min
- Crane Travel Speed, m/min

6. Travel Limit Switches
   Travel limit switches for cross and long travel - pre- and limit switching in both directions of travel.

7. Festoon System
   European made cable carrying line (in galvanized steel or in stainless steel) is a handy, efficient and safe system for electrical distribution.

8. Maintenance Platform
   Safety and easy for assembling.

9. Double Rail Crab
   With one or two lifting mechanisms.

10. Rope Guide
    Made of tough fiber-plastic or metal guarantees reliable operation even in critical environments. Rollers mounted on anti-friction bearings allow smooth rope lead and prolong the life of the rope.

11. Contactor Control
    The high quality contactor control for reliable performance in any conditions.

12. Over-load Limiter
    All hoists are with overload limiter are with 2 reaction thresholds: Warning and Stop.
    Optional monitoring system or load display. Advantages for maintenance: the operating data of the hoist can be read out with a laptop.

13. End-carriages
    End-carriages for EOT cranes with wheel diameters from 125 mm to 500 mm. Beam Connection Plates and buffer-stops are supplied as standard. End-carriages for suspension cranes – spans up to 20 m, up to 12.5 t.

14. Crane Travel Drives
    Low-maintenance drives with inverter as standard.
Other Podem Crane Components

Enclosed Conductor Systems
- Compact, reliable and safe electrical power supply
- Continuous copper conductor system: 35 – 320 A
- Jointed copper conductor system: 50 – 400 A
- Safety features complying with European Low Voltage directive 2006/95/EC
- IP23/IP44 protection class possible
- Modular concept and easy mounting
- High grade 99.9% pure copper conductors
- Low wear of brushes and trolleys
- Options for special applications (galvanizing, steel mill, cement industry)

Gantry Crane Kits
- Know-how and advanced engineering experience
- Wide range of single or double girder crane
- Standard capacity: 5 – 50 t
- Span: from 10 to 35 m
- Indoor or outdoor application
- Control by RRC or cabin

Crane kit doesn’t include, fixed and flexible legs. Podem could provide fabrication drawings for metal structure.

Jib Cranes
- Column- and wall-mounted slewing jib cranes
- Largest slewing jib crane programme
- Capacity from 125 to 20 000 kg
- Outreach max. from 2 to 12 m
- Indoor or outdoor
- Slewing manual or electrical
- Largest program for standard and special accessories
- Short response time for offers, orders, spare parts and any kind of questions
Project Reference
## Standard Products Table

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<th>Capacity (kg)</th>
<th>Groups</th>
<th>Hoist type</th>
<th>Rope falls</th>
<th>Lifting speed (m/min)*</th>
<th>Lifting height (m)</th>
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</tbody>
</table>

For more information and technical catalogue please contact our local distributor.

Podemcrane AD
1 General Nikolov St.
5300 Gabrovo, Bulgaria
1 +359 66 801 375
f +359 66 801 390
sales@podem.bg
podem.bg

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