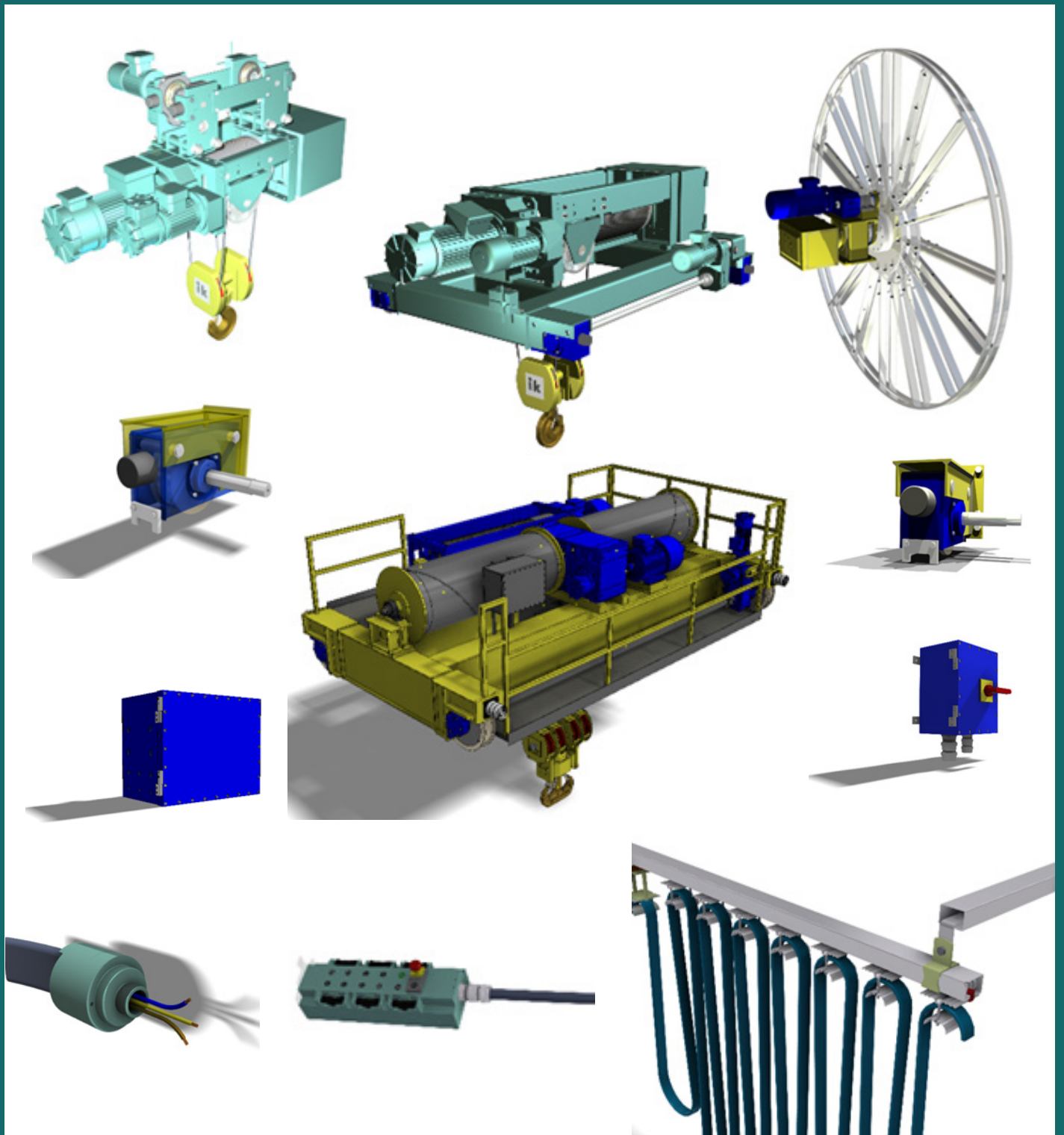




italkrane

THE HIGHEST LEVEL OF EXPLOSION PROTECTION

CRANE KIT







INTRODUCTION

Italkrane was founded in Milan in 1962 by Enzo Banfi and Giovanni Penati who were until 2015 respectively the Managing Director and the Chairman of the Company. The object of the company is the design, construction and commercialisation of lifting and transport equipment. The founding members of the company already had a vast technical and commercial experience acquired during many years at responsible levels in a company at the time market leader in the sector. The founding members wanted to establish a factory which would be able to revolutionise the then currently out-dated techniques of production of bridge cranes and electric hoists and to make innovative, scrupulously designed machinery and equipment using new and advanced technologies. At the beginning, priority was given to the construction of electromechanical parts only with consulting services enabling the client himself to build the supporting metal structures in such a way that modern and efficient plant could be made. After five years, the company transferred its offices to a site outside Milan, where facilities were available for metal carpentry work and complete equipment could be supplied. The site in Bussero (15 Km east of Milan) comprises a modern factory and separate office-building studied to-give the greatest pleasure from an ecological point of view and to be perfectly in harmony with the surrounding habitat. Since 1962, Italkrane supports customers in every phase of the development and construction of machines through a team of experienced technicians and engineers able to solve any problem. Our experience, gained in over half a century of activity, is a guarantee of reliability and competence. Italkrane also supplies all the components necessary to produce the crane with the exception of the relative structures (available, on request, the technical drawings for the construction of the structures).

Italkrane elaborates and realizes customized projects to satisfy every customer need with efficient solutions.



TAILOR MADE LIFTING EQUIPMENT



OUR STRENGTHS

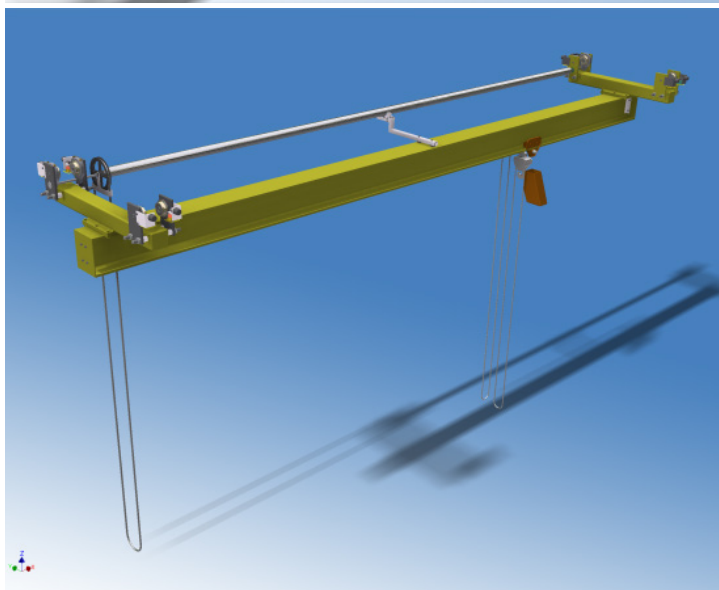
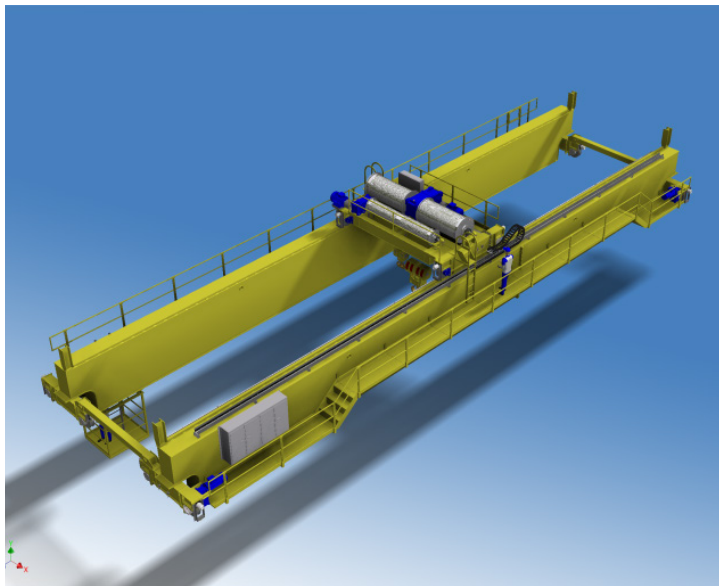
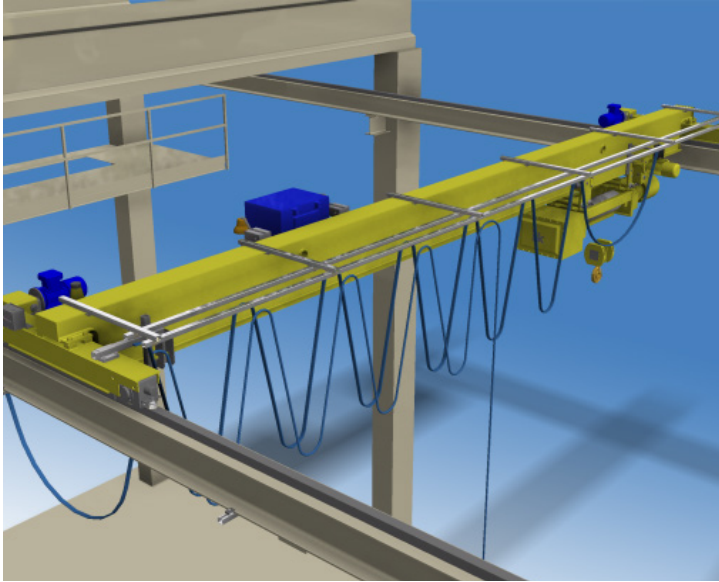
- One of the most comprehensive lifting technology programs
- Modular design
- Reliable, maintenance-friendly components
- Customized solutions
- In-house production in Italy
- Available in explosion-proof versions according to ATEX or IECEx

Italkrane has been meeting the needs of its customers for over sixty years. A great experience in the sector allows us to guarantee high-tech products. The skills acquired in the field are also essential for customizing the product according to the most varied customer needs. The result is unmatched versatility, for the highest level of reliability.





ITALKRANE SUPPLIES COMPLETE KITS FOR THE REALIZATION OF: SINGLE BEAM BRIDGE CRANE, DOUBLE GIRDER BRIDGE CRANE (capacity up to 150 t), SUSPENDEND BRIDGE CRANE

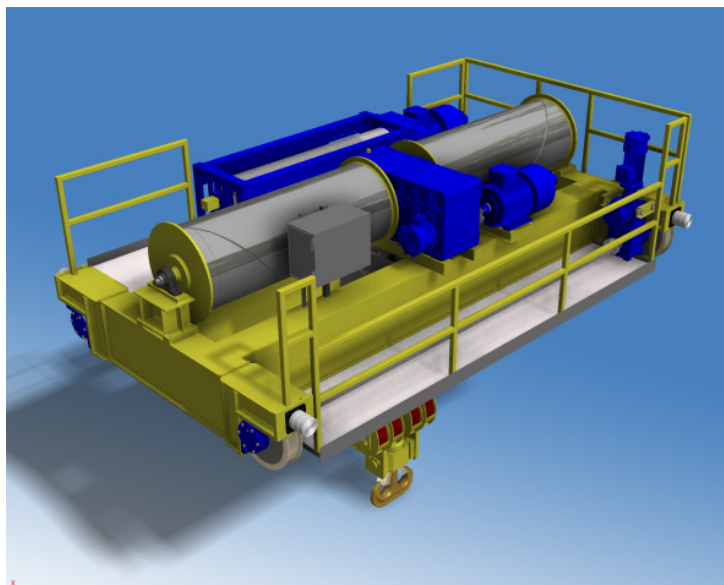
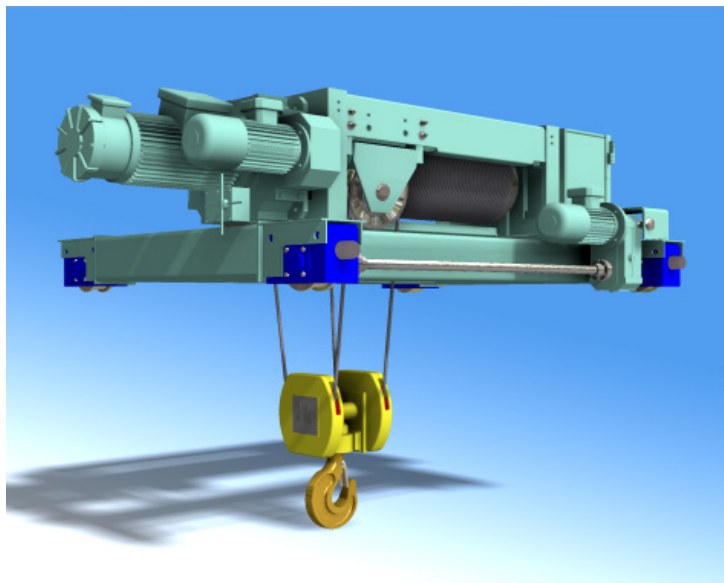


The hoisting technology applied to Italkrane products is among the most original and complete offered worldwide. The high-quality components are among the best available from a technical point of view. Users, crane manufacturers and plant builders appreciate these components both in terms of cost-effectiveness and for their completeness, proving their effectiveness in daily use. Italkrane can offer modern products, from chain and rope hoists to travel drives and wheel blocks, as well as electrical products and components for cranes, from robust and user-friendly control panels to complex control systems. All systems are designed to work together efficiently and reliably. Our hoisting technology is characterized by offering the right solution for every sector. And for completely unusual requirements, our experts in the technical department can develop special customized solutions. The complete program is available in explosion-proof versions for Zone 1, Zone 2, Zone 21 and Zone 22. Not for nothing we are one of the market leaders in explosion-proof lifting technology and crane components.

THE CRANE KITS

A set of electromechanical components designed by Italkrane for quick and easy assembly of complete cranes on site. An efficient, economical and environmentally friendly solution for your standard cranes, even in an explosion-proof area! With its electro-mechanism kits for underslung or overhead bridge cranes, both single and double girder, Italkrane offers to crane builders worldwide the possibility to complete orders efficiently and economically with a low design outlay and savings in organization and logistic costs. This also includes the support of our engineering team, if needed. The design, construction of crane structures, final assembly, service and supply of spare parts are left in the hands of local crane manufacturers. Italkrane manufactures the hoists, components and other electro-mechanical equipment to a high-quality standard and tests all lifting, travel-

ALL CRANES CAN BE EQUIPPED WITH: ELECTRIC ROPE HOISTS, WINCHES (capacity up to 150 t), ELECTRIC CHAIN HOISTS.



ling and control components. The complete kit is delivered in a high degree of pre-assembly. On-site operations are reduced to quick and easy final assembly. If you then need assistance, we will be happy to help!

The strengths of our kit

- Effective and economical
- Optional support from our engineers or service.
- On request, we can supply construction drawings for the structures.
- Available in explosion-proof version according to ATEX or IECEx.
- Our crane kit is truly complete (we supply all components except the metal structures).
- All products follow the latest national and international directives and laws.

THE PRODUCT PORTFOLIO

The range of hoists and rope winches

Behind the original, typically Italian design of italkrane's GOUP series rope hoists lie a compact, robust and low-maintenance structure. They are reliable, powerful and long-lasting. The rope hoists are made with a modular design and dimensioned for a working load of 500 kg to 40000 kg. The ARG winch program extends the range of applications to the load range up to 160000 kg. Non-standard applications and customized solutions can be realized economically thanks to the modular part structure of all rope hoists and winches. GOUP rope hoist programs and ARG winches are also available in explosion-proof versions according to the ATEX directive or the IECEx certification scheme. In our technical department, engineers and technicians develop customized, non-standard solutions tailored to your specific needs. Of course, they follow the latest national and international directives and laws.

Further information can be found in our brochures "Electric Rope Hoists GOUP Series," and "Rope Winches ARG Series".



The YoYo chain hoist program

The YoYo chain hoist program is one of the most reliable, versatile and robust hoists on the world market. It requires little maintenance and, thanks to its distinctive design, maximizes usable volume. With load ranges from 500 to 5000 kg, several types of configurations and various suspensions, the YoYo model series allows for countless possible combinations. They result in new and practical non-standard designs. This program is available in explosion-proof versions for Zone 1, Zone 2, Zone 21 and Zone 22 according to ATEX and IECEx.

For more information, see our brochure “The YoYo chain hoist”.



Electrical Components

Standard control devices are available for all common control voltages. In the basic version, the components are supplied with cable gland connections. However, the standard equipment can be effectively supplemented with options to suit your specific application.

You can choose from various control and monitoring components, as well as optional inverters for hoists and travel drives. This equipment increases safety in material handling and extends the life of the system.

Cable chain type feeding systems

Cable chain guarantees complete protection of the cables, extending their useful life, reduced maintenance as well as reducing to almost zero the space needed to park the trolleys in traditional festoon lines. The system is supplied complete with cable rack.

Festoon-type feeding systems

Delivered complete with galvanized C-rail, mounting hardware, lead trolley, brackets (optional) for clamping, cable trolleys, cables, junction box (terminal box) vertical cable and disconnecter.

Busbar

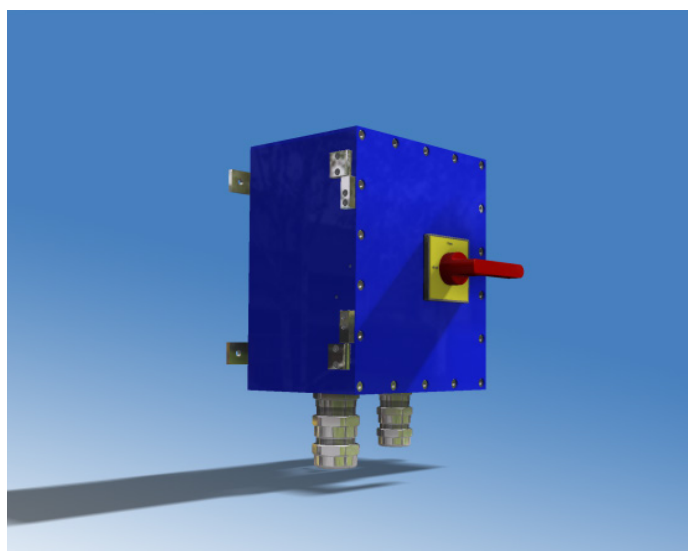
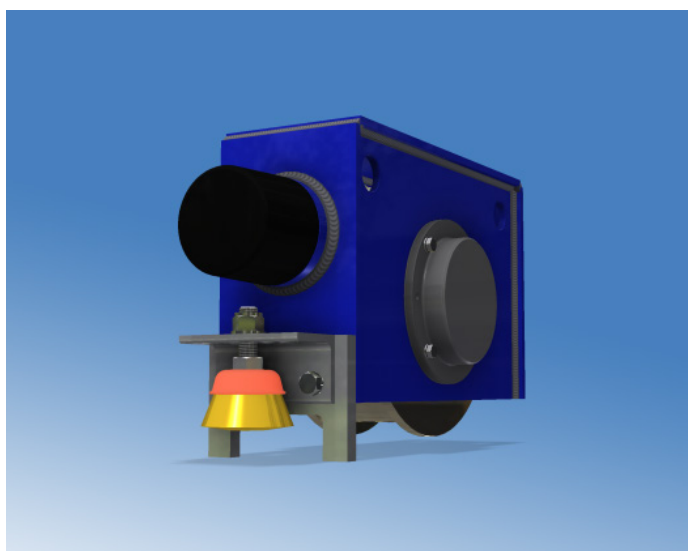
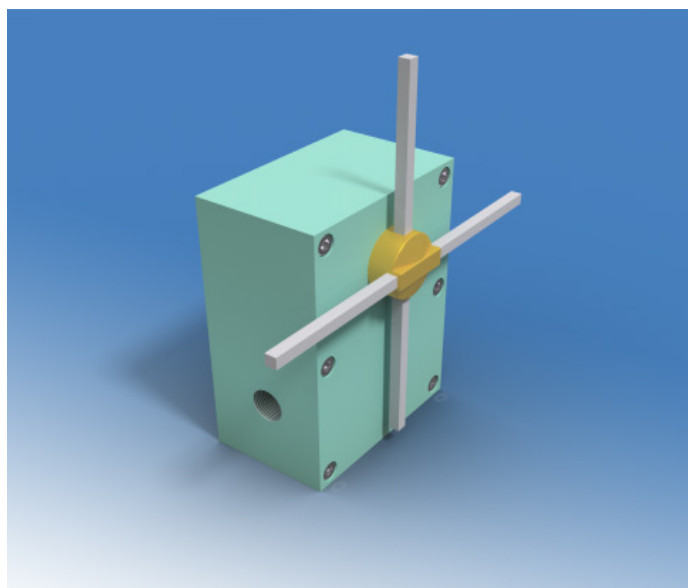
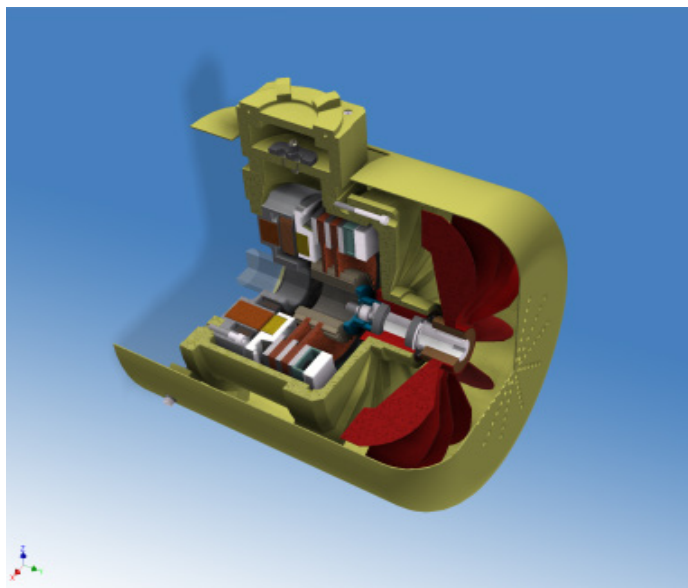
Delivered complete in straight multipole sections, mounting materials (brackets on request) and connection, current collector, vertical cable and main switch.

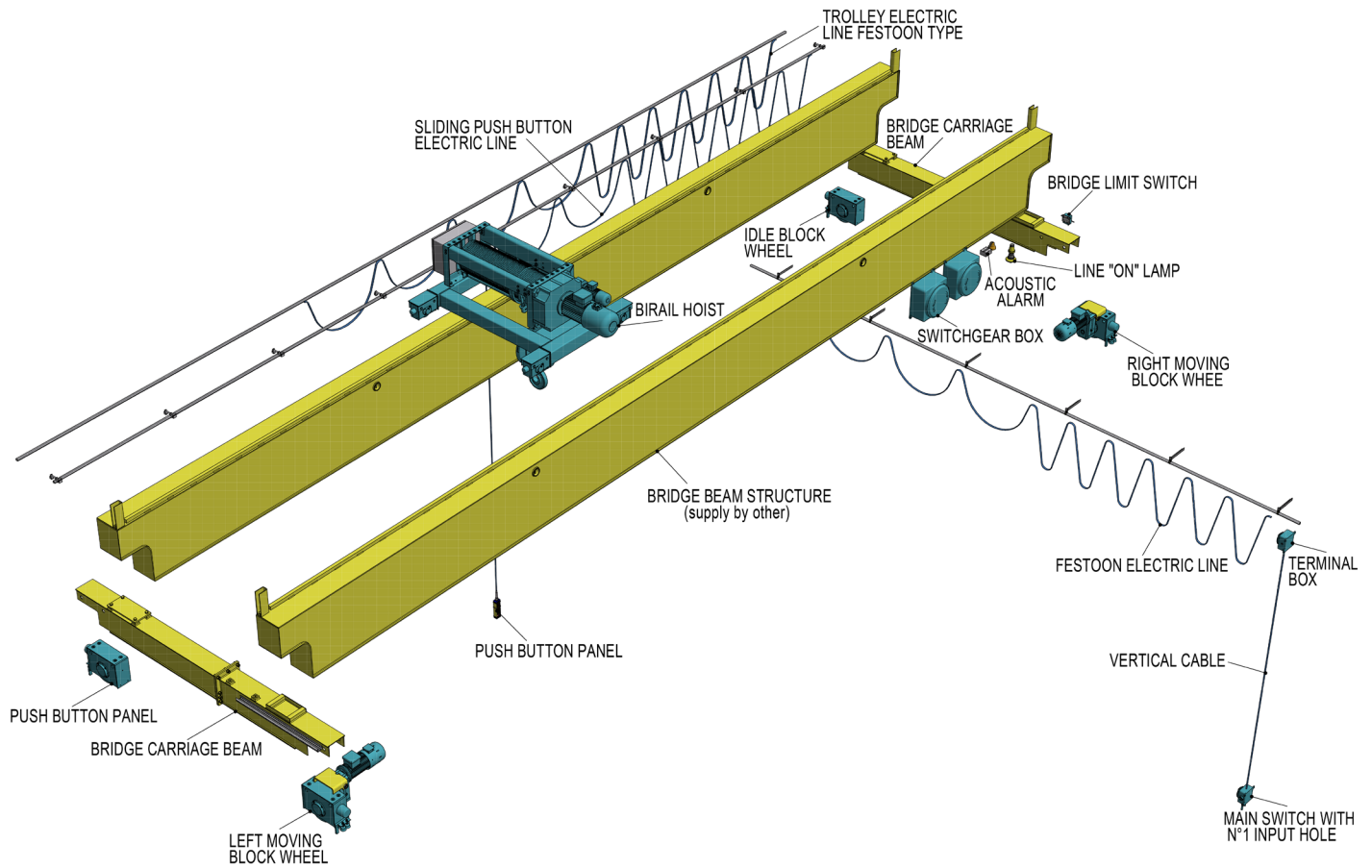
Control systems

- 2 speeds on all movements
- Minimum protection IP 55
- Temperature range -50 °C to +55 °C

Frequency converter for each movement

Extension of mechanism service life due to gradual acceleration and deceleration ramps
 Reduced load sway thanks to smooth acceleration and deceleration ramps, fast and precise load positioning.





Control panel

- Robust control panel with emergency stop button and control cable.
- IP 65 protection.
- Additional buttons can be implemented, e.g., to activate an acoustic warning device.
- Optional load display.

Radio remote control

- Pushbutton unit with belt clip, optionally also joystick version.
- Robust plastic housing.
- Protection IP 65-Other radio controls on request.

The wheel assemblies for cranes and travel drives

The robust italkrane wheel assemblies are manufactured according to modern series production. They are easy to fit on both overhead and gantry cranes. The wheels, made of high-quality steel with self-lubricating bearings, are available in various diameters. Safety stops are supplied as standard.

Wheel sets for overhead cranes

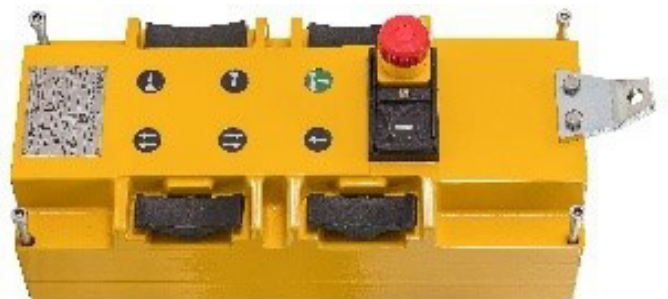
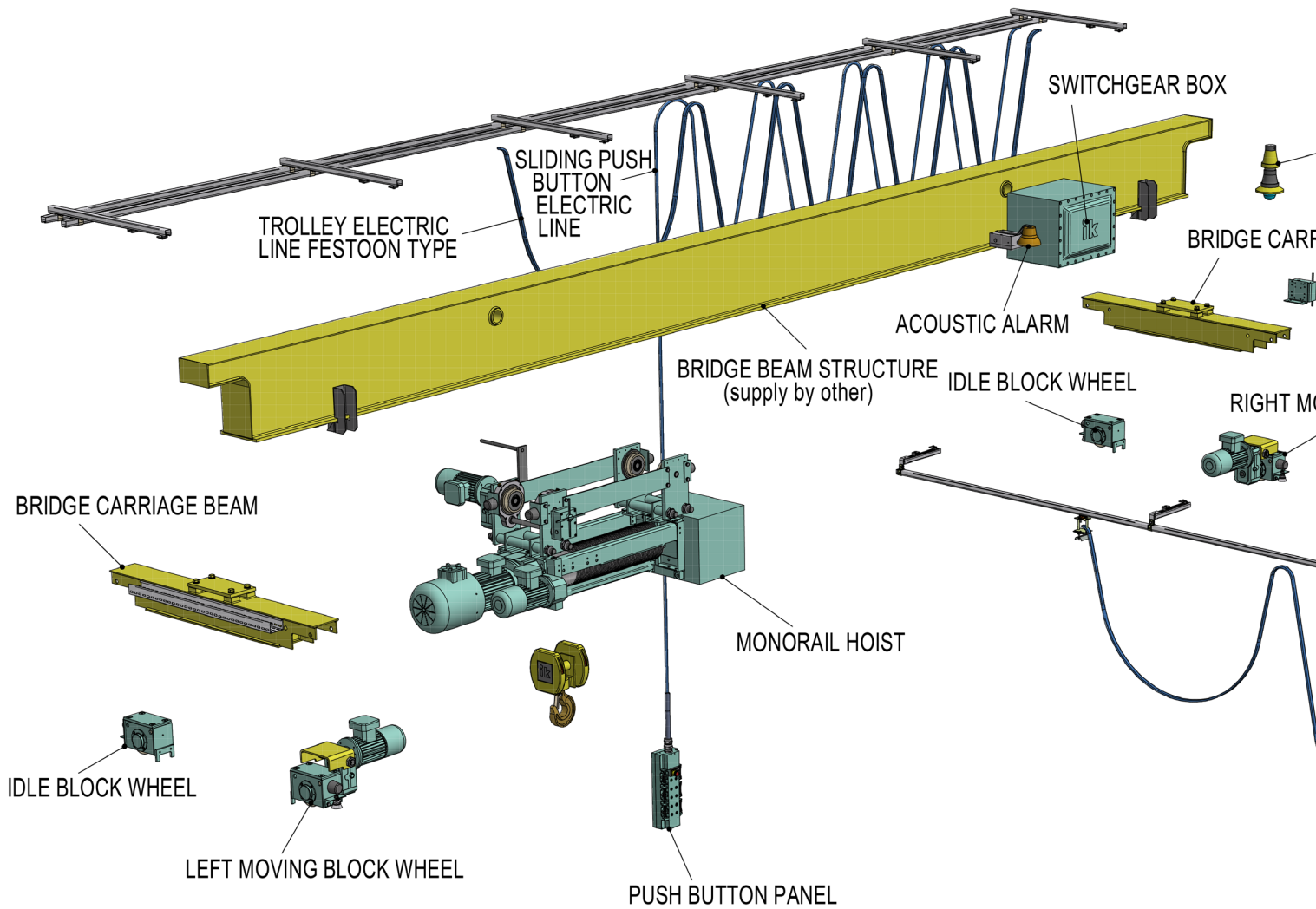
- 7 different wheel diameters, from 125 mm to 500 mm.
- Span up to 40 m.
- Load capacities from 125 kg to 160000 kg.
- Higher capacities on request.

Wheel sets for underslung cranes

- 6 different wheel diameters from 80 mm to 250 mm.
- Span up to 20 m.
- Load capacities from 125 kg to 16000 kg.

Wheel block

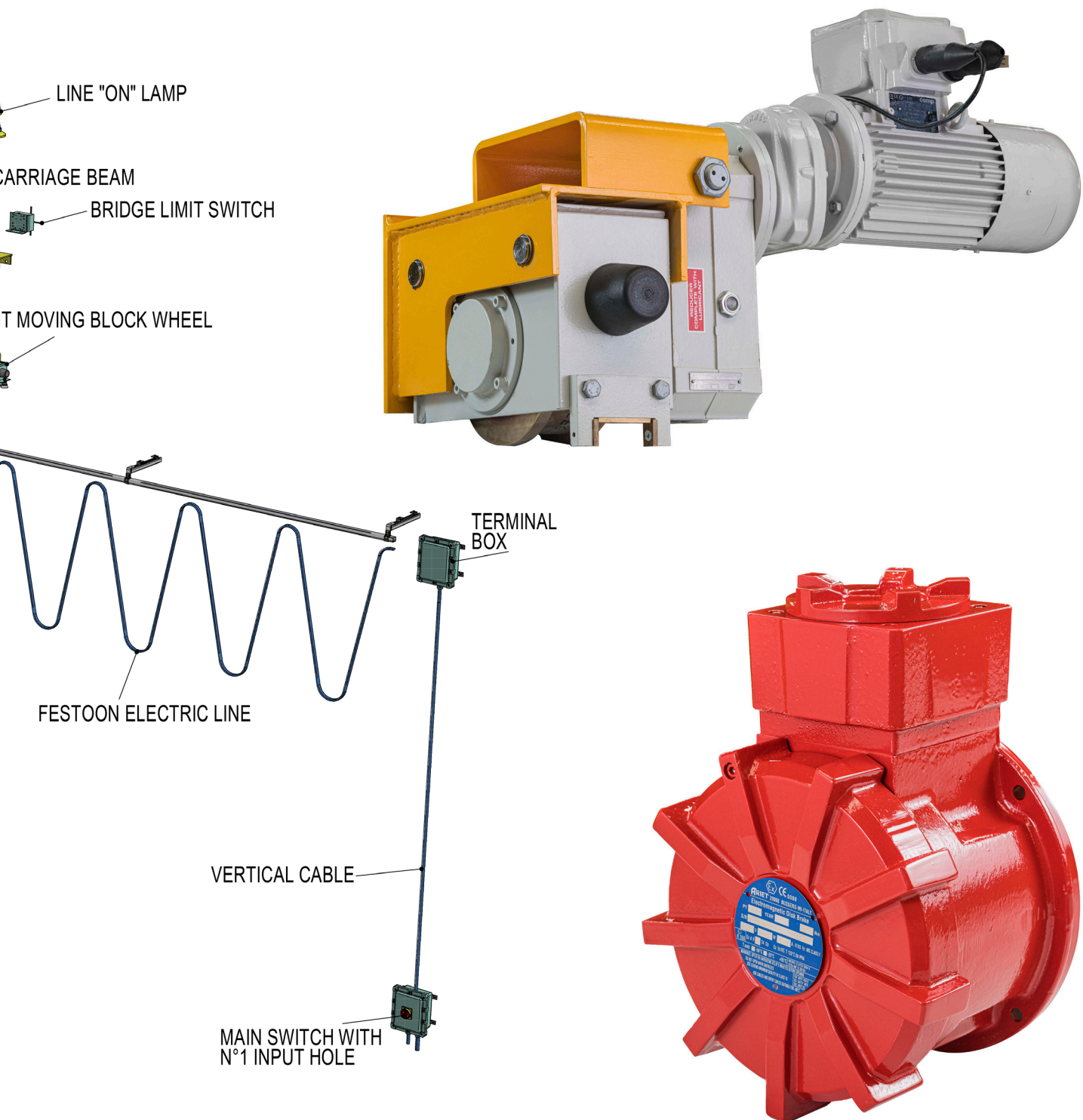
- 7 varied sizes for wheel loads from 2500 kg to 30000 kg.
- 3 standard configurations for connection to customer structures.



- Low-maintenance direct drive with two speeds.
- Maintenance-free anti-friction bearings.

Travel drives

- Low-maintenance crane travel drive.
- In standard version with two speeds in 1:4 ratio or with continuous frequency control in 1:10 ratio.
- Integrated disc brake designed specifically for lifting.





ITALKRANE lifting equipment

Bridge cranes

Electric wire rope hoists

Winches

Special cranes

Chain hoists

Crane kit

Components

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After sales: banfi@italkrane.it

Spare parts: bolzoni@italkrane.it