

Company Profile

Hoisting Solutions | Power Transmission



dynamic oil

The Flexible Thinking Company.

Flexible thinking is the ability to quickly
switch gears and find new approaches
to solve problems.

This is what we do!

Company



■ Dinamic Oil, established in 1970, is an Italian manufacturer of hoisting winches and planetary gearboxes. With 45 years of experience constantly improved by research and development, we have adopted a “flexible thinking” approach that allows us to offer customized solutions for industrial applications and mobile machines. Dinamic Oil, with headquarters in Modena, has consolidated its position on the international market, where it now has three production units, 8 subsidiaries in Europe, the Americas and Asia and an extensive network of distributors around the world. Human relations in business are a major part of what makes a business work. Ease of communication, talented people with expertise, and a friendly approach combined with our “flexible thinking” and culture of innovation are the ingredients of our company philosophy and the reason for our success.

History



1970

Company Foundation. Production of radial piston motors.

1973

Production of hydraulic winches.

1990

Acquisition of Oildrive (Planetary gearbox, orbit motor and wheel drive manufacturer established in 1981).

1992

Acquisition of Oliostip (Radial piston motor manufacturer established in 1970).

1996

Quality Certification ISO 9001.

2001

Acquisition of gearbox division of GB Ricambi (high torque planetary gearbox manufacturer).

2004

Dinamic Oil China opens in Shanghai.

2005

Acquisition of the new production facility in Bomperto, Modena.

2008

Dinamic Oil India opens in Delhi.

2010

Dinamic Oil North America opens in Charlotte (NC).

2011

Dinamic Oil Asia Pacific opens in Singapore.

2013

Dinamic Oil Norway opens in Oslo.

2014

Expansion of the gearbox range for the sugar industry.

Mission

The background of the slide is a blurred industrial scene. In the foreground, a robotic arm with a red grinding wheel is visible, positioned over a conveyor belt. The background shows shelves filled with various industrial components and materials, creating a sense of a busy manufacturing environment.

■ Maintaining and improving our “flexible thinking” to offer the best customized solutions on the market and to globalize our company. Improving our quality standards and internal procedures. Becoming a partner of major OEMs. Opening new subsidiaries in main markets that are still not adequately covered.



Application Markets



■ Thanks to our "flexible thinking", Dinamic Oil winches and gearboxes are ideal for driving all industrial systems and self-propelled machines such as crawler cranes, loader cranes, tunnel boring machines (TBM), biogas plants, palm oil crystallizers, conveyors, deck cranes, jack-up systems, tensioners, and cane mills. In every application where "application engineering" is an added value, Dinamic Oil offers innovative and advanced solutions for maximum operative efficiency.

TBM

Tunnel
Boring
Machines



Mobile Cranes



Rough Terrain Cranes
Special Cranes

Loader Cranes

Mobile Cranes

Pick and Carry Cranes

Construction Earthmoving



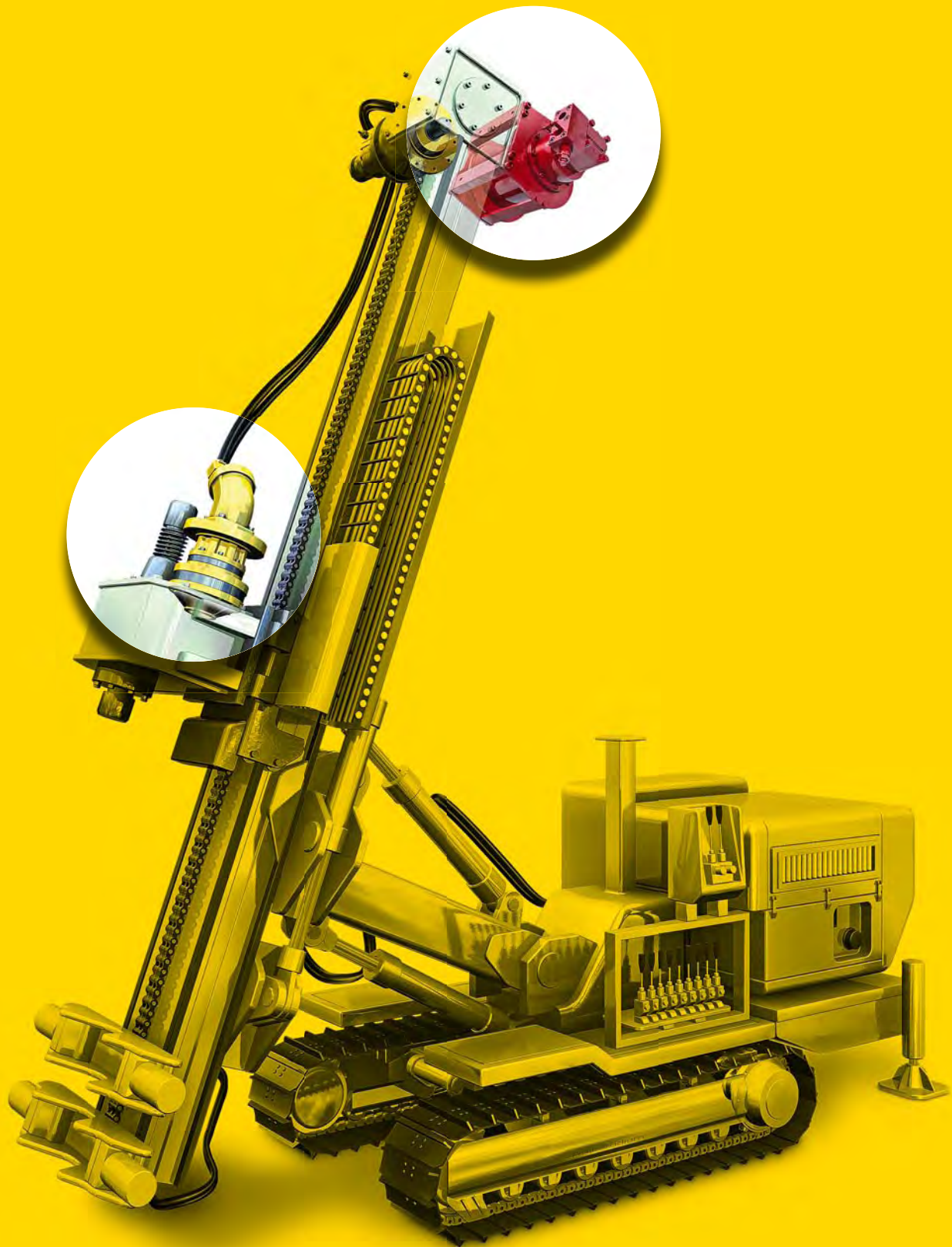
Crawler Cranes
Undercarriage

Excavators
Bulldozers and
Skid Steer Loaders

Tower and Luffing Cranes
Off-Road Vehicles

Concrete Pumps

Drilling



Vertical Drilling Machines

Horizontal Drilling Machines

Piling Machines

Mining



Dredgers

Brick Extruders

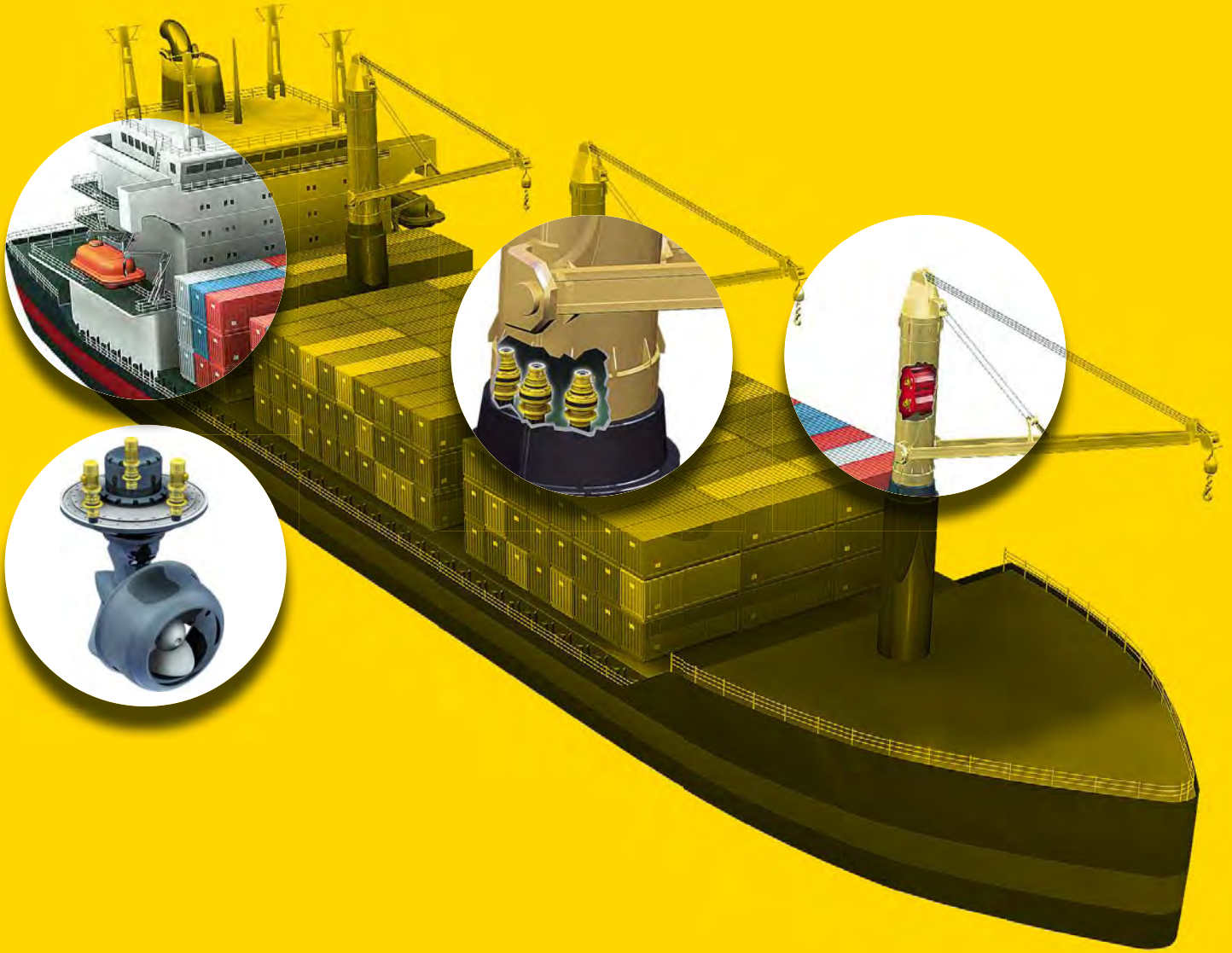
Mineral Processing
Conveyors

Mine Winders

Bucket Elevators

Thickeners / Clarifiers /
Decanters

Marine



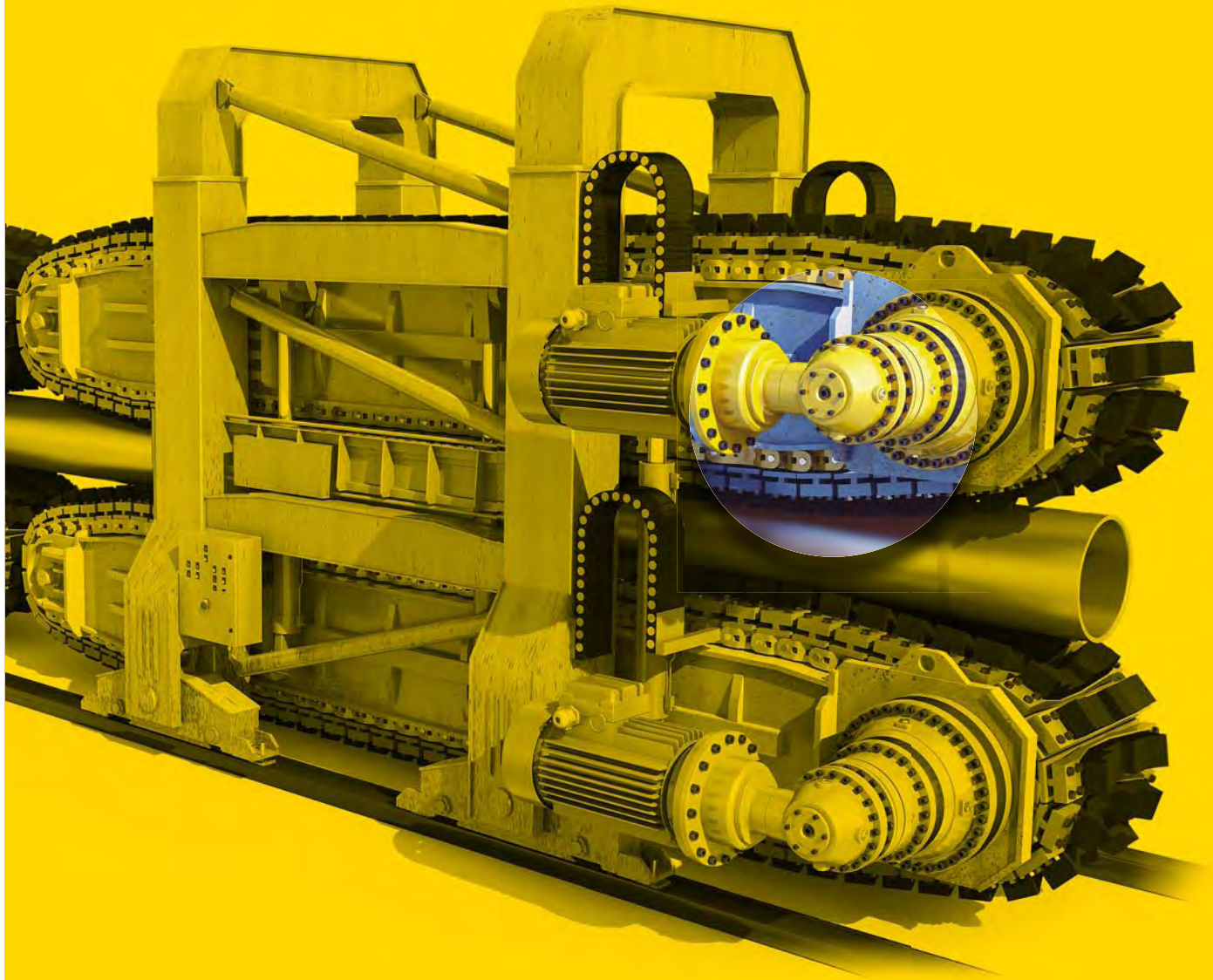
Capstans
Pods / Azimuts / Thrusters

Life Boat Winches / Davits
Container Handlers

Anchor Winches / Windlasses
Boat Lifts

Deck Cranes
Pipeline Equipment

Offshore



Cable Laying Equipment
Tensioners

Offshore Platform Cranes
FPSO Winches

Offshore Machinery

Jack-up Systems

Industrial Applications



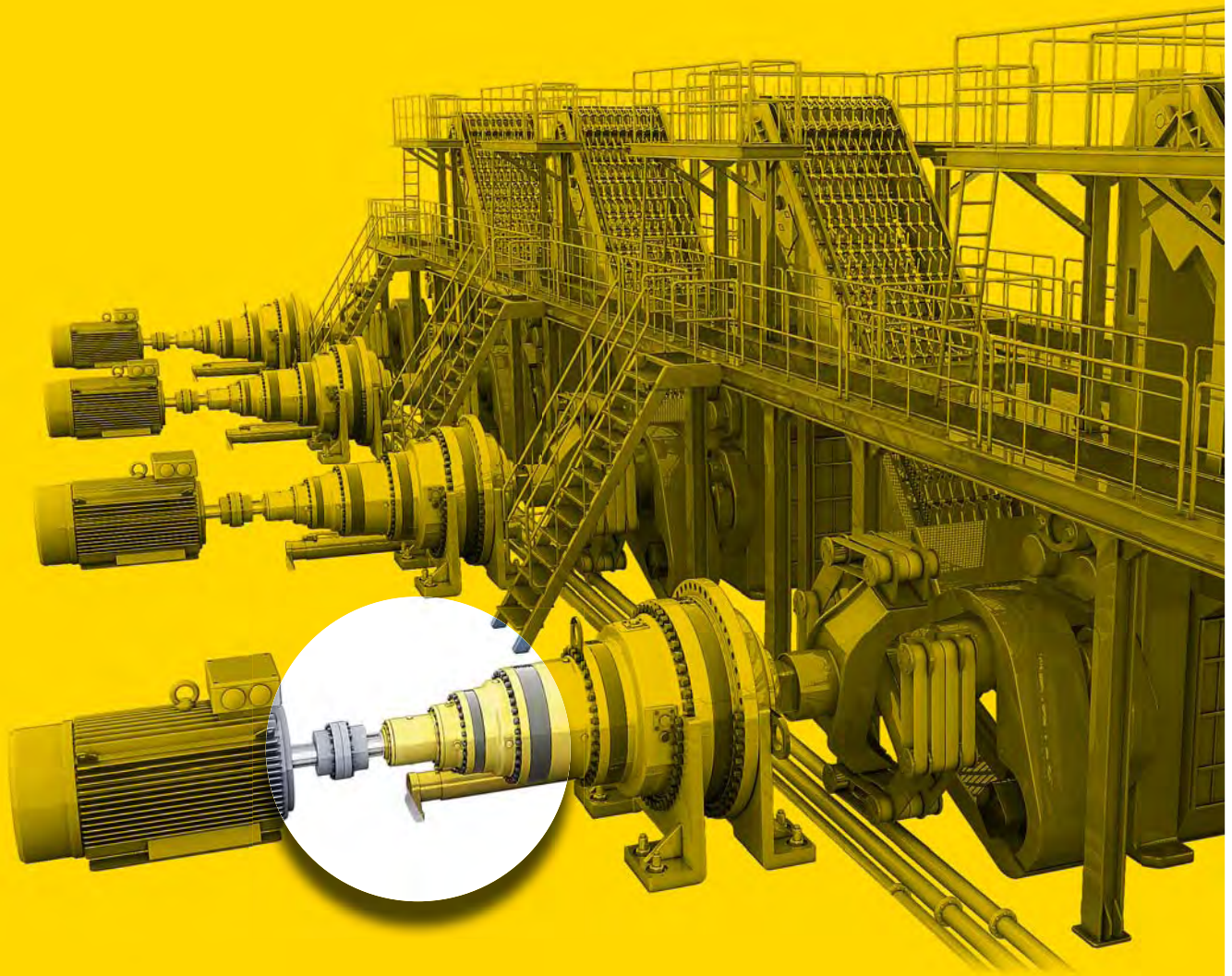
Amusement Park Industry
Cement Plants

Palm Oil Industry
Industrial Handling Systems

Pulp and Paper Industry
Steel Industry

Mixers

Sugar Technologies



Crystallizers
Cane Conveyors

Cane Diffusers
Cane Shredders

Cane Mills

Dewatering Presses

Product Range


Dynamic Oil manufactures hoisting winches and planetary gearboxes for industrial applications and mobile machines. Winches are motor-driven machines used for hoisting or pulling, composed of a drum around which a rope is wound and attached to the load being moved. Gearboxes are geared mechanical transmissions that transmit the movement of a motor to the machine on which they are applied, reducing the speed and multiplying the delivered force (torque).



Mechanical Transmission







Planetary Gearboxes

Slewing Drives



Planetary gearboxes come in 33 sizes with an ISO torque ranging between 1,000 Nm and 3,000,000 Nm. With a design that ensures high performance in compact dimensions, they are suitable for a wide range of applications including mobile machines, drilling, marine, mining and industrial machinery. Countless customized solutions make this gearbox range adaptable to any kind of application where compact and reliable mechanical transmission is needed.



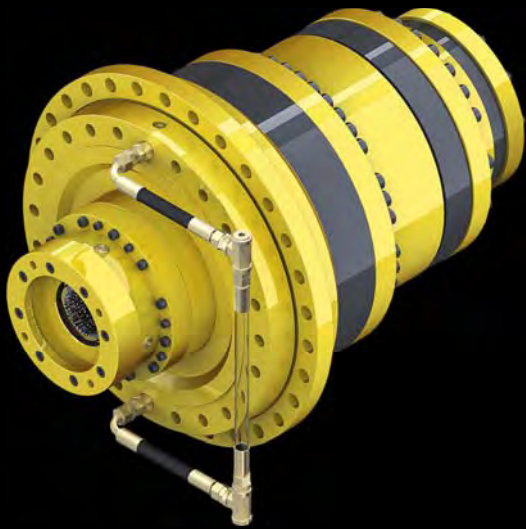
Planetary slewing drives come in 14 sizes with a FEM (M2 L2 T2) torque ranging between 3,000 Nm and 210,000 Nm. Special solutions are also available for torque values of up to 2,000,000 Nm. These gearboxes have a compact design and strong output suitable for applications with high radial loads. Each model can be supplied with a pinion shaft or a male shaft configuration (splined or cylindrical). Among the many accessories available, static brakes can be fitted in a low opening pressure version (suitable for closed loop circuits) or in a dry version (suitable for high speed motors). Some models have ABS type approval for Azimuth Thruster applications. Design type approval from all other major rating organizations is available on request.

The background image shows a close-up of industrial machinery, likely a part of a conveyor system or a large-scale material handling equipment. It features heavy metal frames, pulleys, and thick steel cables. The entire image is overlaid with a uniform yellow color, giving it a monochromatic industrial look. The text is white and bold, standing out against the yellow background.

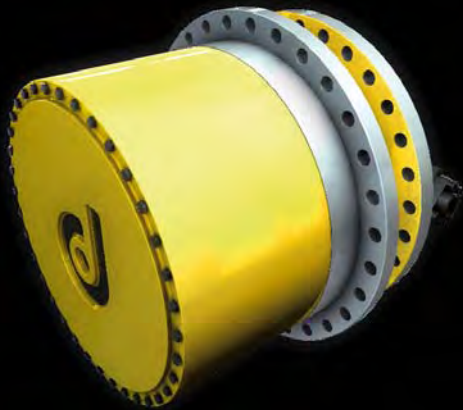
**Winch
Drives**

**Track
Drives**

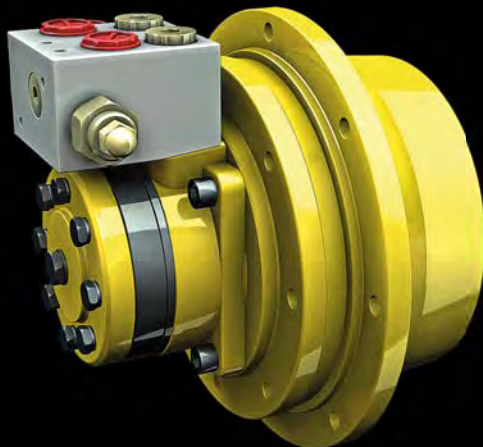
**Wheel
Drives**



Winch drives come in 17 sizes with a FEM (L2 T5 M5) torque ranging between 5,000 Nm and 118,000 Nm. Special solutions are also available for torque values of up to 300,000 Nm. This category includes rotating case gearboxes designed to fit inside a winch drum. To ensure isostatic load distribution on the winch, the gearbox is designed with a single supporting bearing. The external negative static brake facilitates maintenance as required in marine applications. Several models have DNV type approval. Design type approval from all other major rating organizations is available on request.



Track drives come in 10 sizes with a maximum torque ranging between 100,000 and 865,000 Nm, equivalent to machine weights of between 30 and 300 Tons (excavators) or between 100 and 450 Tons (crawler cranes). The models are designed with ground gears and a steel case and carriers to satisfy even the most demanding applications. Modular stage composition allows for an extended ratio range. These features make the EH series particularly suitable for alternative applications such as wheels drives, winch drives and marine pipe layer drives.



Wheel drives come in 5 sizes with a maximum torque ranging between 800 and 3,500 Nm. These models are suitable for track drive and wheel drive applications due to the relatively high load supported by the bearings (8,000 kg in the EH models). Several accessories are available (including static brake, disengagement system, and control valves).

Winches





Hydraulic Hoisting Winches

Motor Drums



These winches have a line pull capacity ranging from 500 kg to 30 Tons. They are equipped with orbit motors or axial piston motors and a negative multi disc brake. A variety of accessories is also available: tension rollers, third wrap indicators, load sensing, grooved drums, level-winds, and absolute encoders. Medium Marine Grade Paint is standard on all winches. Customized winches can be produced according to specific requirements (e.g. manriding, double cable drum, special grooved drum, customized dimensions).



This range of motorized drums offers a nominal torque capacity of between 26,000 Nm and 195,000 Nm. The design is optimized for the heaviest applications in the drilling, mobile and marine sectors. Product certificates are available on request (DNV, ABS, LR, GL and other major rating organizations).

The background is a red-tinted photograph. The upper portion shows a tower crane's lattice structure against a dark sky. The lower portion is a close-up of a mechanical winch with a large metal drum and a thick cable. The text is overlaid on this image.

Tower Cranes Winches

Hydraulic Pulling Winches



This range of electric and hydraulic hoist winches was designed for tower crane applications. Each lifting or pulling drive is developed according to customer specifications. The series offers high performance in compact dimensions.



This range of pulling winches has a line pull capacity of between 1 and 30 t. The design incorporates three independent components (hydraulic motor, static brake and planetary gearbox) to provide maximum reliability and easy maintenance.

Quality



■ We supply components that must work without fail for decades: therefore, quality is an essential factor for us. Dinamic Oil is UNI EN ISO 9001:2008 certified. Our Quality Service works closely with major certification organizations to provide, when needed, type approval such as DNV and ABS, design approval and product certificates.



Branches

All components are manufactured in our plant and company headquarters in Italy. Our subsidiaries around the globe assemble, test, and customize our products and also provide after-sales service and spare parts delivery.



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