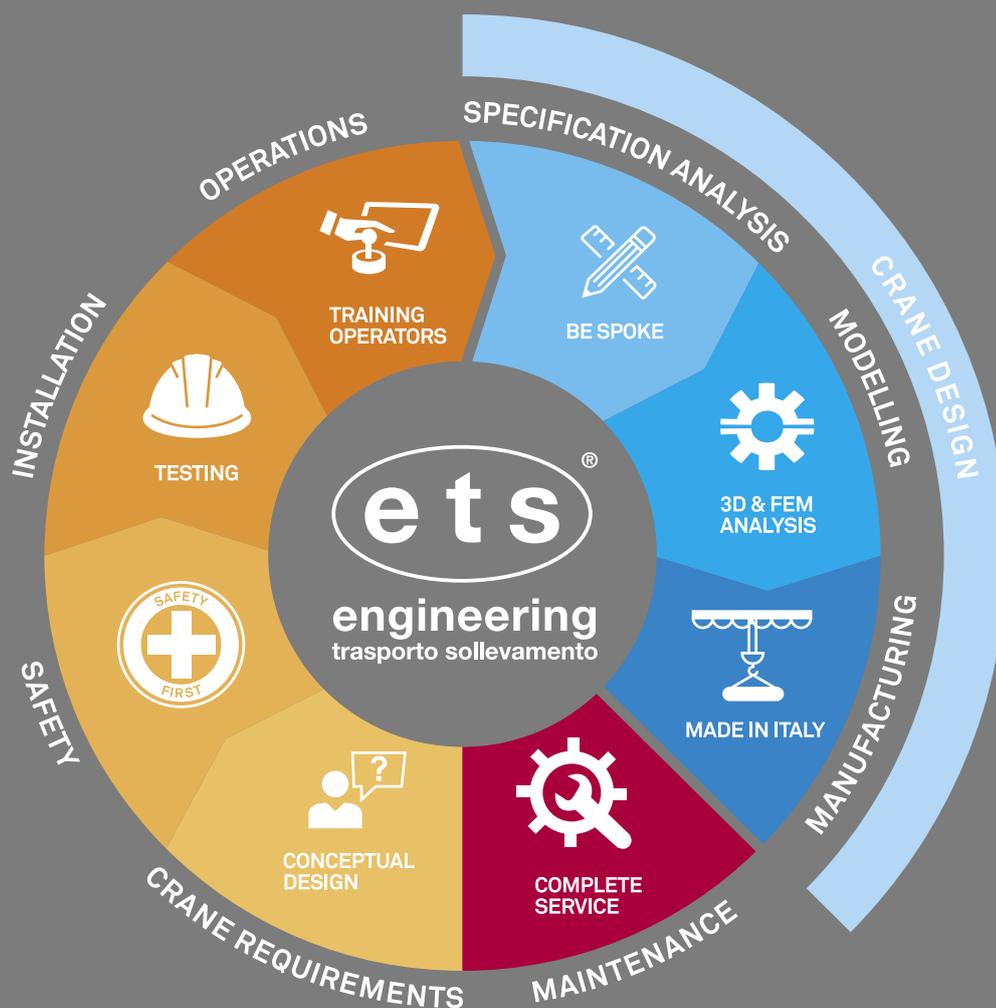




engineering  
trasporto sollevamento



# AUTOMATIC HANDLING

The way to lift your ideas

# THE COMPANY

**ETS engineering SpA is a Leading Company in the design and manufacturing of Automatic Cranes**

ETS main responsibility is towards the continuous improvement of the quality of the product with special attention to environment and safety.

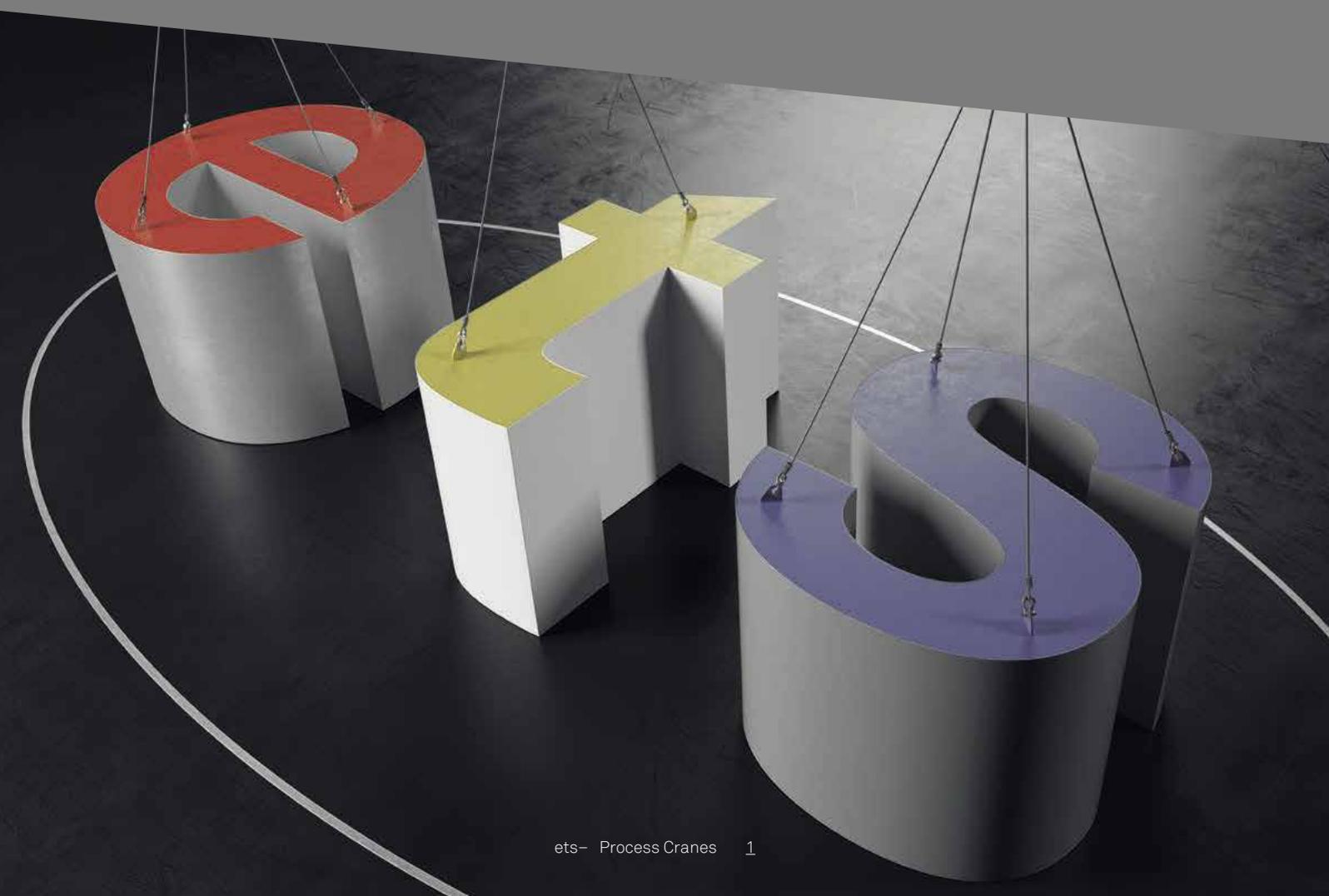
Modern technologies, constant training and commitment are the key factors that complete the great experience matured in the lifting sector after more than 40 years of activities.

Each achievement is the lifeblood for a new challenge.

Commitment, expertise, flexibility, innovation make ETS one of the most fair and dynamic companies of this sector in Europe with thousands of projects awarded all over the world for all major companies.

Follow us in our daily endeavor to study, design and realize for you.

THE WAY TO LIFT YOUR IDEAS.



# QUALITY

ETS Engineering Spa besides the design and production of cranes and hoists in accordance with Machine Directive 2006/42/EC, is also to design and produce cranes and hoists in accordance to European Directive Atex 2014/34/EU.

ETS is certified ISO 9001, ISO 14001 and OHSAS 18001 and notified through Bureau Veritas for the production of explosion-proof cranes with deposit of Technical File of Risk Analysis as prescribed by the Annex VIII of Atex Directive.

All products ETS satisfy safety requirements for explosion-proof areas Group II and Category 2 a 3 (Zone 1 and Zone 2 for Gas plus Zone 21 and 22 for Dust).

The explosion-proof classification comply with Exd and Exd/e enclosure protection.





# AUTOMATIC CRANES

## The benefits at a glance

### Reliability and high performance

- Bridge cranes permits to use the entire storage area
- Constant material flow
- Radar setting to handle the material on more congested area
- Waste mixing to prepare waste for feeding into the hopper

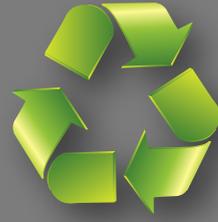
### Great flexibility

- Many solutions and options can be selected in easy way through our software to meet specific load handling requirements
- Fully Automatic, Semi-Automatic or Manual control always available
- Intuitive and fast operating system to facilitate the work of the operators

### Final Result

- Highest lifecycle of crane
- Less risk of failure
- Improved overall safety of the plant
- High volume of material processed
- Predictable maintenance cycle
- Reduction of general costs for services and spares







## CRANES KEY ROLE

Cranes play a decisive role in modern plants, where demanding environmental rules and guidelines are applied. Therefore, it is essential that handling devices will operate always at maximum efficiency from the beginning of the process up to the final stage.

We develop different process configurations from semi-automated cranes to fully automated cranes controlled remotely and ensuring simultaneous tasks to comply with production plans throughout the entire process.

If cranes stop, the process is paralysed, and production stops.







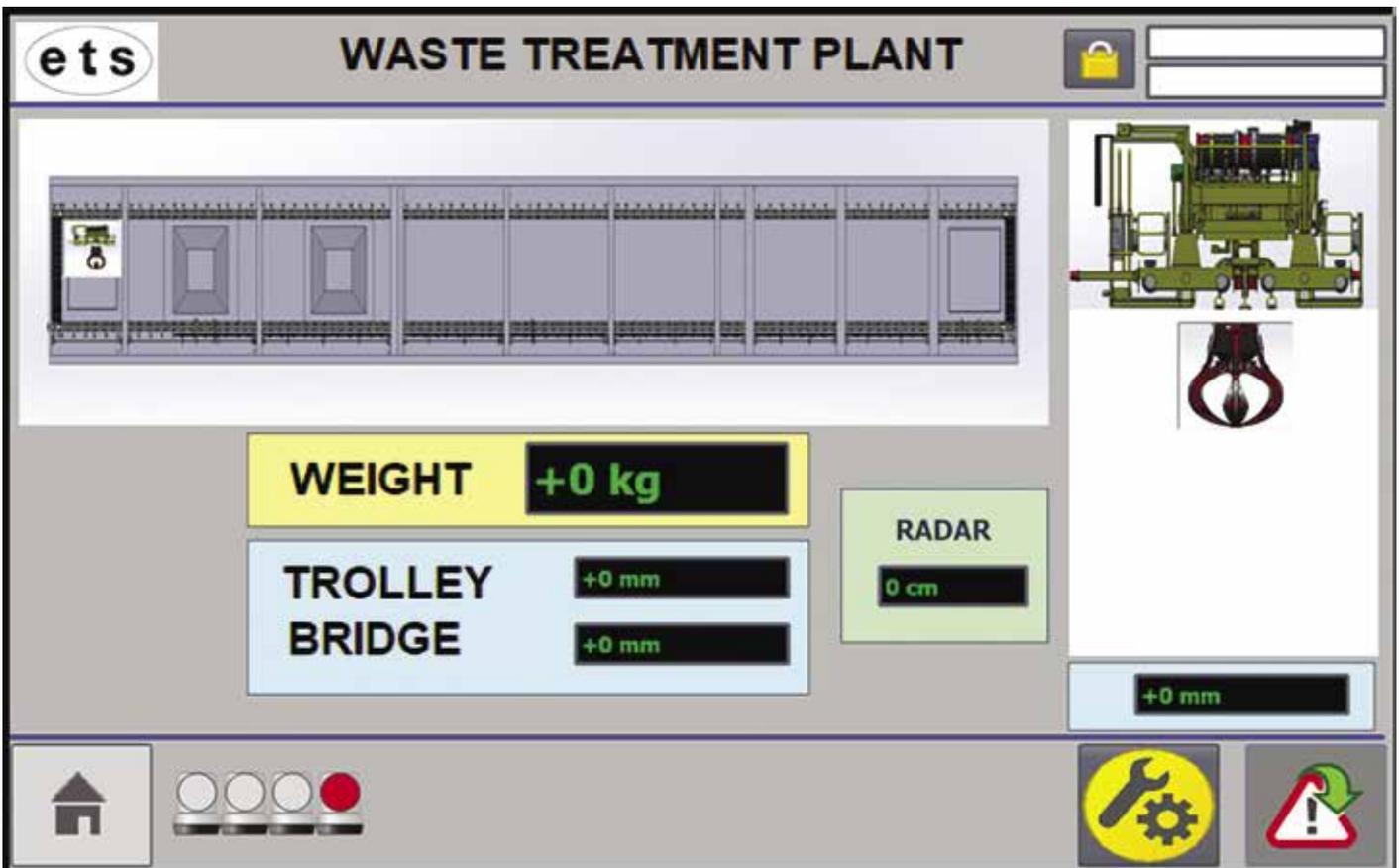
Waste Treatment, Sludge, Ash Handling and Biomass cranes are fully automated, versatile and reliable cranes with a compact and robust design. Precise and safety positioning and slack rope prevention reduce hazards and improves crane performance.

Adjustable Speed Range optimizes the speed of your crane according to the weight of the load.

Our specific software enables fully automated control of the working cycle to optimize handling efficiently and reliably.

Remote Monitoring to collect operating data, providing main information of crane status:

- Load visualisation
- Control by keyboard, mouse or App
- Messages with warnings and alarms
- Travel movements (x, y and z axis) are shown in motion
- Display of the filling levels
- Operating hour evaluation for all drives: crane, crab, trolley-hoist
- Intuitive user interface







## SERVICE

We provide specialized maintenance services and spare parts.  
We use many commercial worldwide brands easy to find in the marketplace.  
This assure the fastest way to install spares when needed and reduce at minimum plant downtime.

Our first aim is to guarantee highest standard levels on safety and productivity of our customers' operations.

That's the reason why PREVENTIVE MAINTENANCE is essential part of the job to preserve the system always at the top. We can create a Maintenance Plan based on your equipment, application and duty cycle.

We offer:

- Spare parts
- Maintenance program
- A Full Service assistance
- Modernizations
- Training
- Urgent repair services



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# HEALTH, ENVIRONMENT AND SAFETY



The need for respect of health, environment and safety is a prerogative of ETS work with rigorous attention to the main international standards.

ETS engineering has undertaken a course aimed at the protection of health, safety and environment in all the processes that concern the company. This occurs both on the production side and the services and assistance side.

## REMOTE ASSISTANCE

**ASSISTANCE  
CALL**



**ISSUE  
FIXED**

ETS will assure prompt assistance via Remote Control of Lifting Devices. This will generate a huge benefit for all our Customers with reduction of waiting time and minimizing of production stops and money saving. Full Service 24hrs all week.

**REMOTE ACCESS**



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