



ADELIO LATTUADA®
EVOLUTION OF GLASS WORKING
Since 1978



AUTOMATION

cyberAL

THE AUTOMATION THAT IMPROVES YOUR PRODUCTIVITY



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EVOLUTION OF GLASS WORKING

Since 1978

PASSION, TECHNOLOGY, SERVICE: 40 YEARS OF MADE IN ITALY.

Our roots date back to 1978, when we started off as a technical service support company in Carbonate (province of Como).

We have been designing and building glass processing machines since the early 80s, becoming global market leaders over the years.

We offer flexible, high quality and technology solutions: for grinding, washing, automation and robotics, marble and stone processing, special machines and Industry 4.0.

> BESIDES HAVING A NETWORK OF AGENTS SCATTERED ACROSS THE GLOBE, WE ARE PRESENT IN NORTH AMERICA WITH LATTUADA NORTH AMERICA IN NORTHWOOD (OHIO).



3000+
Machines sold since 1978

70
Machine models

90%+
Exported production

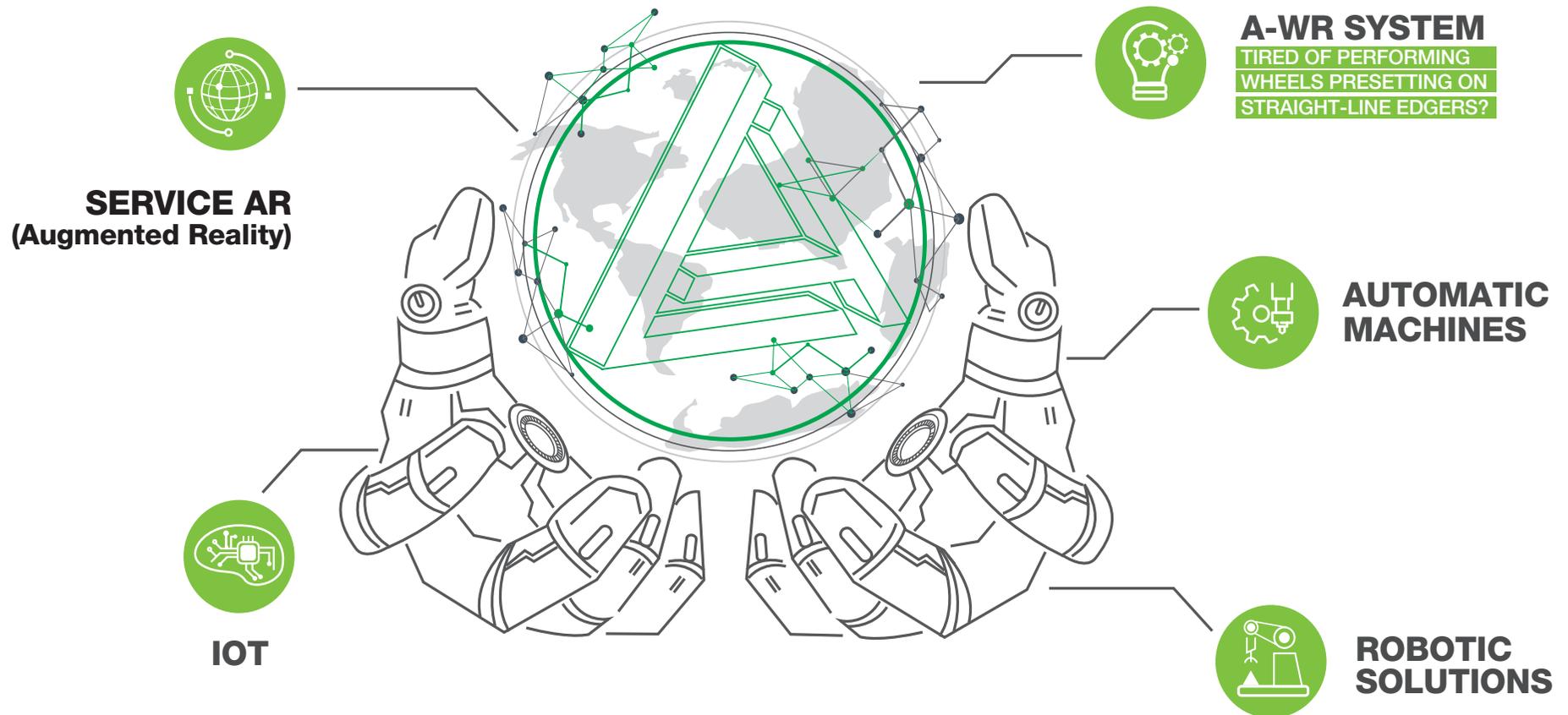
90
Countries where we are present

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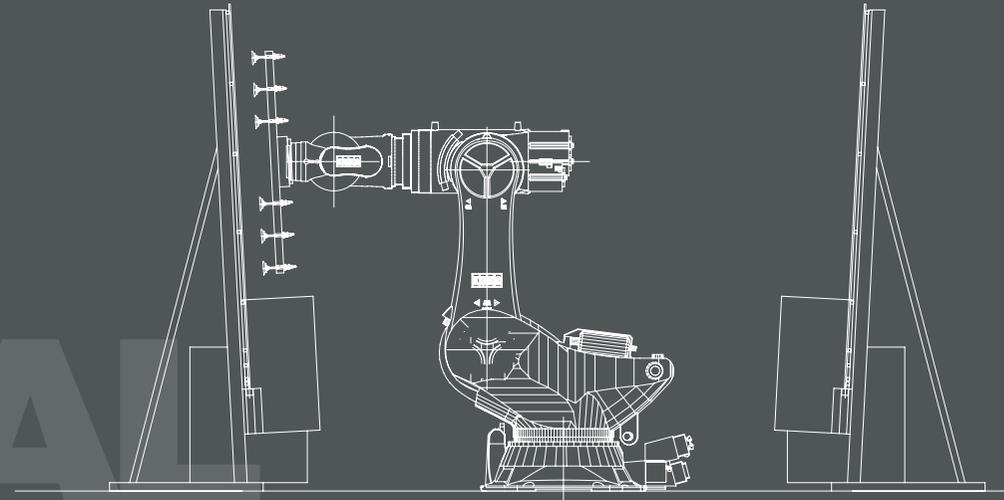
A CHOICE THAT GIVES YOU MORE

CYBERAL, AUTOMATION AND INTERCONNECTION FOR A TRULY INTEGRATED INDUSTRIAL PRODUCTION

Robots, automation, integration, Industry 4.0: glass processing steps into a new era. Those who opt for advanced solutions and technology can count on an effective competitive edge. Right from today, Adelio Lattuada will be by your side to help you achieve this new production and flexibility goal through CYBERAL.



cyberAI



KNOW-HOW

We are your partner in automation.

For more than 5 years we have dedicated internal resources and major investments in designing and building solutions that integrate robots and automation to support our glass processing machines.

Thanks to synergies with integrators with a decade of experience, we are in a position to offer up to date and world-class know-how and skills.



CONSULTANCY

Beyond the offer, consultancy.

A single global consultant partner for your current and future needs.

Thanks to a powerful simulation software, we can key in standard production data and values of your workday and compare them with those obtained from a presumed use of robots. This way, you can notice the difference and thus make the decision that best fits your efficiency and productivity boost needs.



SMARTNESS

Customised and smart machines.

Our machines have always been custom-built. With forty years of experience in the industry, we - at Adelio Lattuada - can modify configuration to meet your production needs. But that alone is not enough. We are committed towards making machines more automated and smarter by installing state of the art devices and sensors.



ASSISTANCE

Training and technical support, wherever you are.

Our teams are ready to give you appropriate training and technical support you may need, through our hotlines. Whether regarding the machine or the applications, you have a far-reaching network of agents and dealers at your disposal in every corner of the globe. As concerns robots, they require minimum maintenance considering their high and constant performance.



SKILLS

One application, one solution.

Thanks to world-class collaborations and supplies, our solutions gain in effectiveness and efficiency year by year. This contributes towards developing know-how and skills assets like few others can worldwide, keeping one guaranteed focus: building applications that are not only easy to implement and use, but that can also keep production performance constant over time.



INTEGRATION

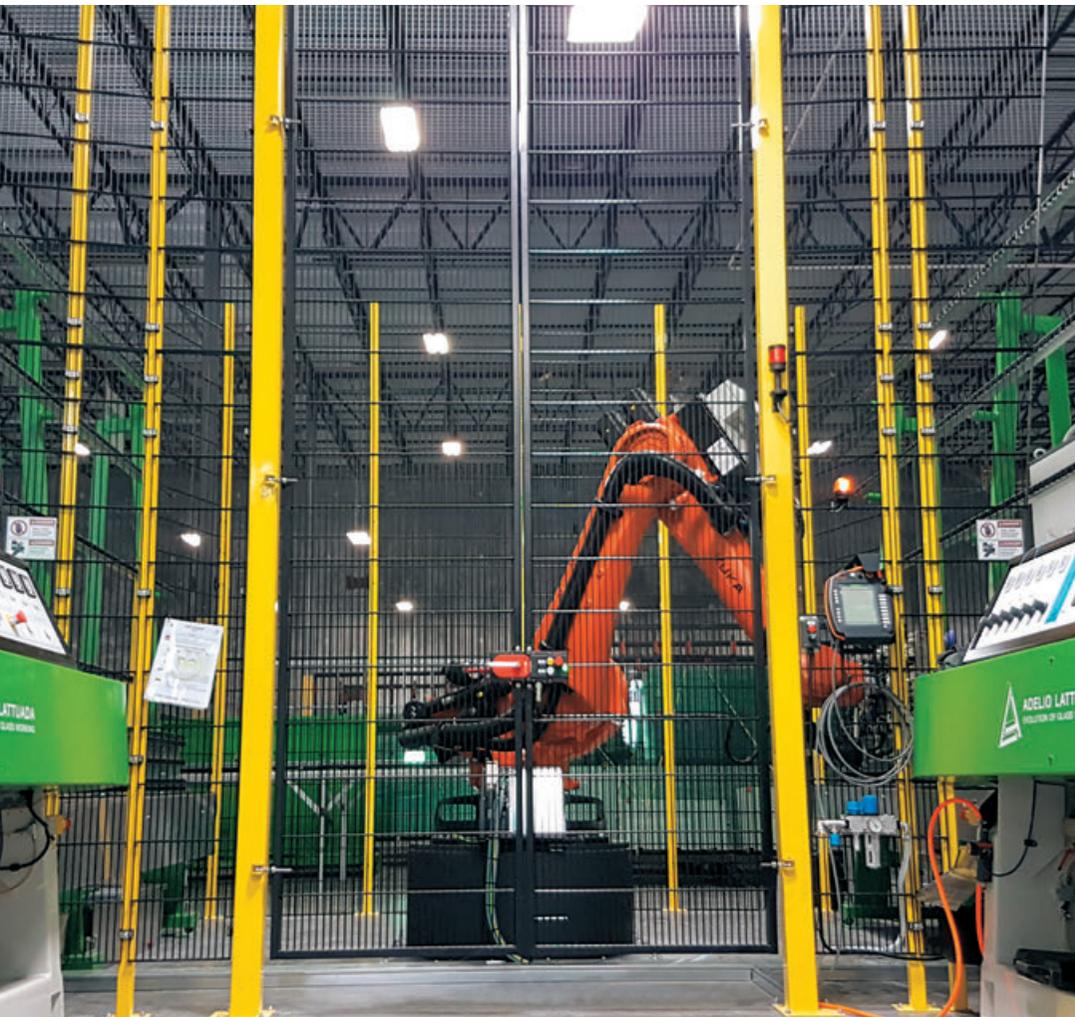
More targeted than ever before.

The more machines are integrated with each other through specially studied software, the greater their efficiency and productivity. We are working on getting rid of repetitive manuals and combining control operations: we aim at creating a system where machines can communicate with each other and can make autonomous decisions to maintain high production and safety level, eliminating errors.

A PERFECT SYNERGY
WITH TECHNOLOGY

ROBOTS

NEW INTEGRATED, FLEXIBLE AND CUSTOMISED
SOLUTIONS WITH THE FOLLOWING ADVANTAGES



- 01 CUSTOMISABLE SUCTION CUPS**
vacuum with Venturi system
- 02 HIGH FLEXIBILITY**
side by side processing of glasses of different sizes with minimum distance between them
- 03 AUTOMATIC MEASUREMENT OF GLASS**
pre-setting glass size is not required
- 04 EASE OF USE**
straight-line edging machines with standard maintenance
- 05 AUTOMATIC SPEED ADJUSTMENT**
depending on the sizes of the glass
- 06 LOWER COSTS**
just one operator required
- 07 HIGHER PRODUCTIVITY**
thanks to the high speed of this system
- 08 FULLY AUTOMATION OF MACHINES**
reducing the need to access to the area, safety and productivity increase
- 09 OPTION OF INTEGRATION**
with other machines
- 10 CONTINUITY ASSURED**
thanks to the low maintenance required by our machines



DIFFERENT CONFIGURATIONS AVAILABLE FOR THE IMPLEMENTATION IN SEVERAL APPLICATIONS:

(A) 2 EDGERS AND 1 ROBOT

The most sold

(B) 2 EDGERS AND 2/3 ROBOTS

For fully automated cells

(C) 1 EDGER AND 1 ROBOT

Fully automated cell in a reduced space

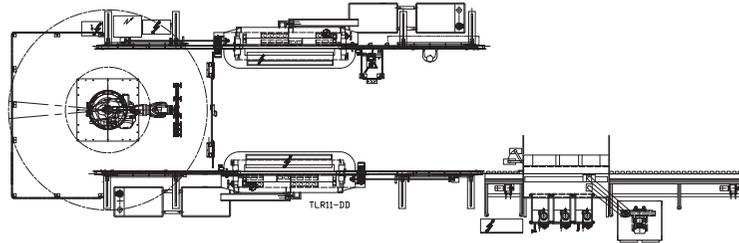
(D) 4 EDGERS AND 3 ROBOTS

Special solutions

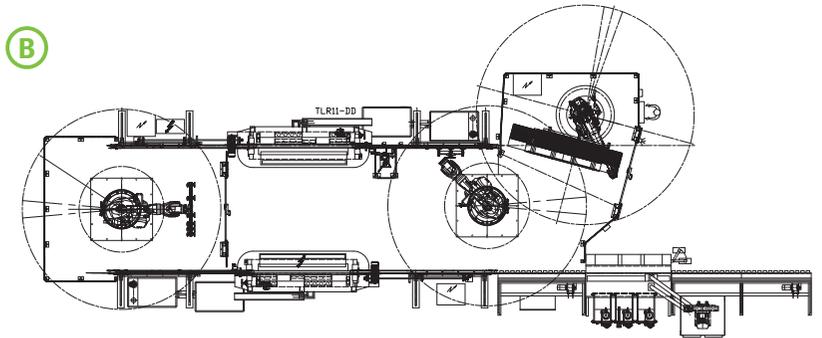
(E) INTEGRATION

With washers, CNCs, double-edgers, cutting, tempering or IG lines, etc.

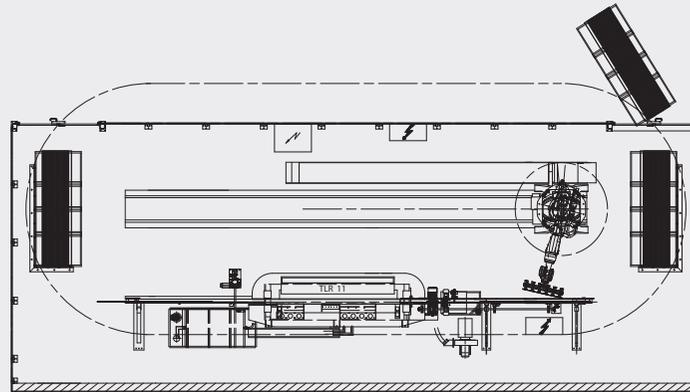
(A)



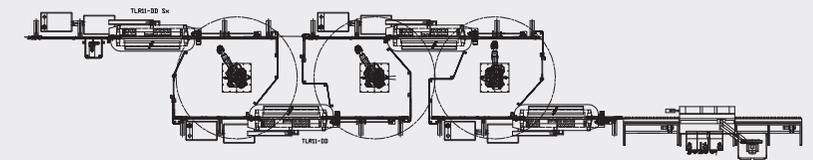
(B)



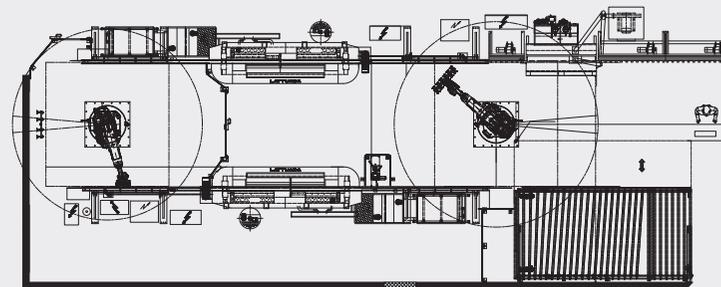
(C)



(D)



(E)



In partnership with:



SOLUTIONS FOR AUTOMATING ACTIVITIES
AND INCREASING PRODUCTION FLEXIBILITY

AUTOMATIC MACHINES

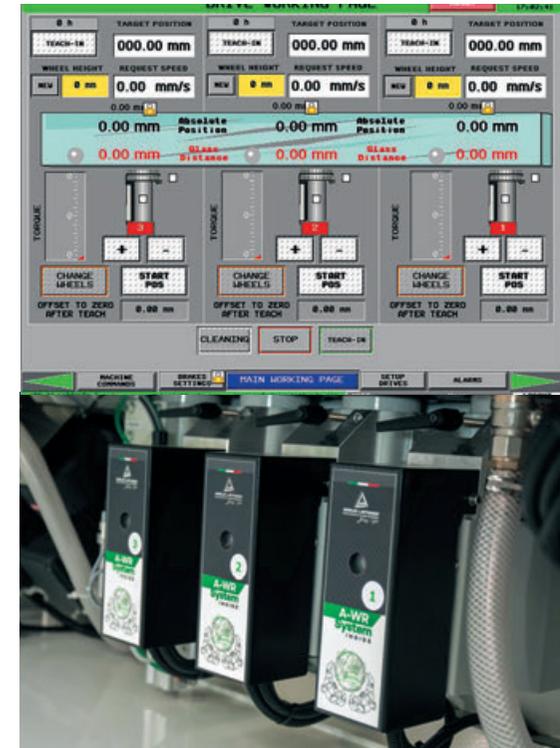
A-WR SYSTEM

THE EXCLUSIVE **A-WR SYSTEM** INTRODUCES A COMPLETELY
AUTOMATIC WHEELS SETTING MANAGEMENT, WHICH INCLUDES:

01. **Automatic pre-setting "ZERO" procedure** of diamond and resin wheels, without glass in less than one minute
02. **Automatic recover** of the polishing wheels' wear
03. **Automatic positioning** for the wheel's replacement
04. **Jog increase/decrease of the spindle position** (accuracy 0.01 mm)
05. **Automatic positioning on setpoint**
06. **Automatic backlash** recovery
07. **Automatic spindle cleaning procedure**
08. **Wheels wear warning**
09. **Spindle's problems warning**
10. **Manual unlocking** for any situation
11. **Motorized adjustable inlet conveyor**
12. **Digital ammeters and automatic alert system** for the polishing wheels wear
13. **Automatic detecting and compensating procedure** of the inlet conveyor belt wear

ADVANTAGES OF THE LATTUADA A-WR SYSTEM

01. WHEELS SETTING IN LESS THAN 1 MINUTE, INSTEAD OF AN AVERAGE 20/30 MINUTES MANUAL SETTING
02. HOMOGENEOUS WHEELS SETTING REGARDLESS OF THE WORK SHIFT AND THE OPERATOR ON THE MACHINE
03. EXTREMELY SIMPLE TO USE, NO SAMPLE GLASS NEEDED
04. HOMOGENEOUS WHEELS WEAR AND CONSISTENT PROCESSING QUALITY
05. INCREASED SPINDLES CLEANING THANKS TO THE AUTOMATIC CLEANING FUNCTION
06. REDUCED EXIT CONVEYOR BELT WEAR OR DAMAGING DUE TO AN INCORRECT WHEELS "ZERO" SETTING
07. EARLY WARNING ON POTENTIAL MAINTENANCE ISSUES
08. MORE QUALITY, MORE PRODUCTIVITY, LESS MAINTENANCE, LESS ERRORS... MORE MARGINALITY



SOLUTIONS FOR TRANSFORMING PRODUCTION
AND BECOMING A SMART FACTORY

INDUSTRY 4.0

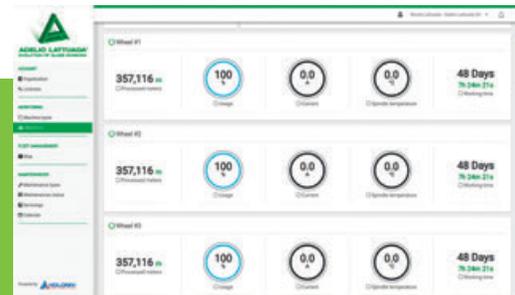
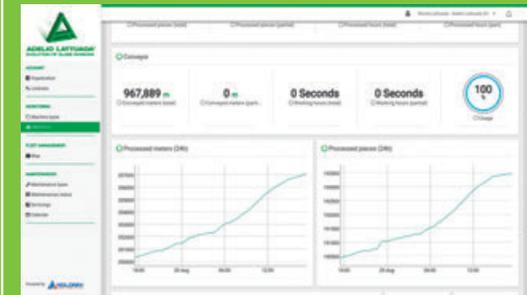
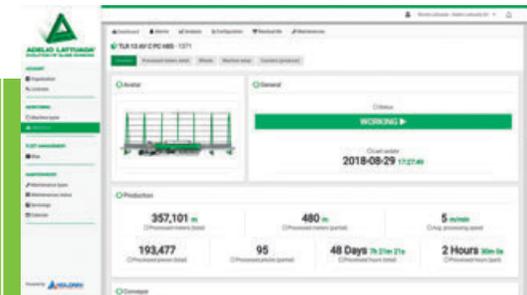
FROM WORDS TO RESULTS

Industry 4.0 has already become an active part of many companies, becoming a strong competitive factor. An approach that deeply changes the production process by implementing enabling technologies: a leap you can already take into the future through Adelio Lattuada products.

As a matter of fact, thanks to the PLM IOT i-Like Machines software, besides connecting machines to each other so as to monitor them constantly, we also provide clear data through an interface that is intuitive and easy to use.

THIS WILL ALLOW YOU TO:

- monitor production cycle in real time
- receive alerts in case of malfunctions
- optimise plant availability and production
- plan maintenance works
- reduce failures and downtime
- view machine use data and report records



THE SOFTWARE COMES WITH THE FOLLOWING MODULES:



MONITORING MODULE

- Monitoring machine production cycle in real time
- Alarms in case of malfunction



MAINTENANCE MODULE

- Optimising the planning and scheduling of maintenance works
- Reducing failures and downtime
- Viewing actions and data analysis records
- Maximising plant reliability and availability



ANALYSIS MODULE

- Viewing KPI and alarm records
- Accessing machine use report statistics



FLEET MANAGEMENT MODULE

- Machine fleet geolocation interface



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