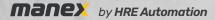


DIGITAL AND EXPERT MAINTENANCE

Digital and expert maintenance



MANEX SERVICES

WHAT PROBLEMS DO WE SOLVE?

process.

SYSTEMS IN WHICH WE SOLVE THEM:

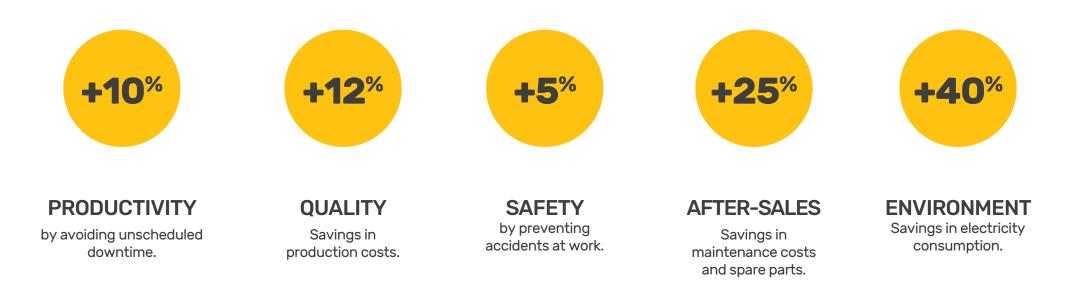
- Hydraulic Power Units.
- Greasing and Lubrication Systems.
- Tool Cooling.





MANEX SERVICES

WHAT BENEFITS DO WE GENERATE?



* Average values based on information shared by leading industrial companies in Euskadi.

MANEX by **HRE Automation**

MANEX SERVICES

HOW DO WE DO IT?

DIGITAL AND EXPERT MAINTENANCE

Providing expertise in hydraulic systems and equipment as a SERVICE for the optimisation of their operation and maintenance, thus ensuring clients' competitiveness.





AFTER-SALES SERVICES

From diagnostics of the initial situation to the design and implementation of the most appropriate preventive maintenance, with guaranteed spare parts stock.



DIGITAL SERVICES

From monitoring equipment and system status to predicting anomalies during operation.

MULTI-BRAND SERVICES

MANEX AFTER-SALES SERVICES

From diagnostics of the initial situation to the design and implementation of the most appropriate preventive maintenance, with guaranteed spare parts stock.

MEMA

PREVENTIVE MAINTENANCE AND REPAIRS *

Implementation of the work under the maintenance plan and corrective interventions.

Result: Performance reports.

(*) The monitoring of the implementation is provided through digital services.

TRAINING

• Tailor-made training programmes for implementing the defined maintenance plan.

Result: Qualification and certification of maintenance personnel at basic and advanced levels.

SECURE STORAGE

• Storage of necessary spare parts at HRE facilities.

Result: Guaranteed spare parts stock.

MAINTENANCE DESIGN

• Co-design of the most appropriate preventive maintenance plan.

Result: Preventive maintenance plan and list of spare parts and tools required.

DIAGNOSTICS FOR RESETTING

- Analysis and diagnostics of the initial state of the hydraulics in any machinery.
- Definition of minimum start up conditions.

Result: Informe de evaluación del estado inicial de los equipos.

REMOTE SUPPORT

• Email/phone both for questions about use and for incidents.

MULTI-BRAND SERVICES

MANEX DIGITAL SERVICES

From monitoring equipment and system status to predicting anomalies during operation.



MANEX MULTI-BRAND SERVICES



MANEX IoT

Ad-hoc incorporation of the most suitable IoT sensor system for the acquisition of high-quality raw data.

 $\rangle\rangle\rangle$



MANEX INSIGHTS

Web-cloud platform with useful information for data-based decision making as respects maintenance.

 $\rangle\rangle\rangle$



MANEX APP

Mobile assistant to facilitate the resolution of incidents and the implementation of maintenance.



• Remote support that takes advantage of the connection to the machine.

• Online monitoring of signals obtained from sensors. • Configuration of alarm/alert thresholds by HRE/client

• Generation of automatic alarms and alerts.

• Dashboards and KPIs (optional).

TELESERVICE

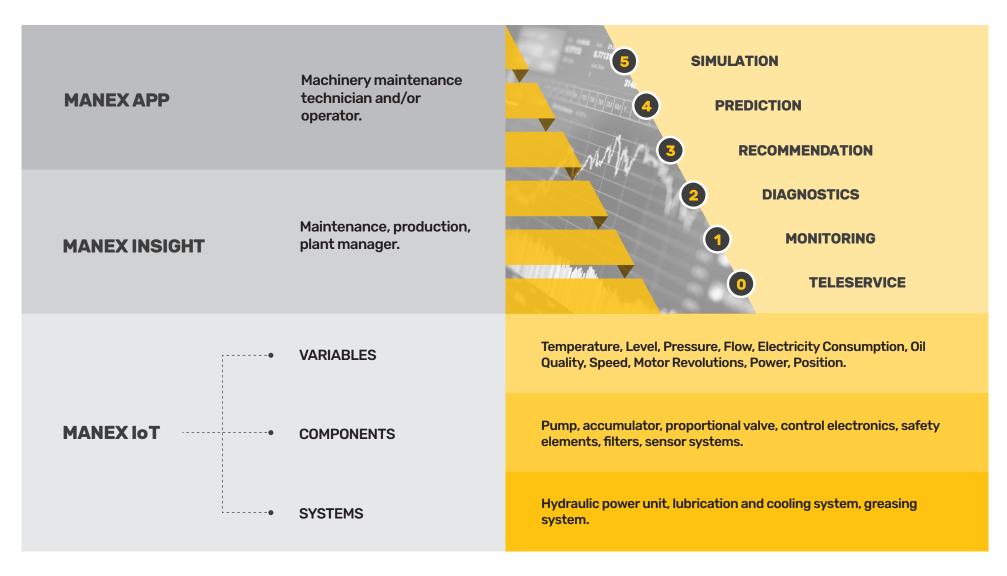
• Notifications (optional).

MONITORING

Digital and expert maintenance

MANEX DIGITAL SERVICES

SUMMARY







Are you interested in finding out more? manex@hre.es