

## **“RECO-BLASTER®” – ROBOTISED PRECISION**

### **Automated treatment instead of manual work**

We have developed the media blast robot called “ReCo-Blaster®” to make blasting of large workpieces, especially of large serial parts, even more efficient.

Regarding economic efficiency, humanisation of the workplace and occupational safety our blasting robot sets highest standards.



# “RECO-BLASTER®” – EFFICIENCY THANKS TO 8 AXES

## Sophisticated technology

Our “ReCo-Blaster®” is designed as an 8-axis robot. All travelling axes are driven and controlled by electrical servo drives with absolute encoders via a robot control system. The blasting robot moves in longitudinal and cross direction along the full blastroom length. A rack and pinion drive ensures exact positioning.

Mounted to the crane trolley there is a driven vertical telescopic axis, underneath which there is a driven and sealed slewing ring bearing with internal toothing. With the help of this the servo drive can turn the manipulator around the vertical axis, on which the fifth and sixth axes are fixed. This ensures optimal mobility. A swivel joint and a swivel axis for the nozzle are mounted to those axes. They can optionally be preselected as continuous rotation axis.

To minimise wear the drives as well as all supply lines for the robot arms are incorporated in the housing. In addition, this part is equipped with double seals. This provides optimal protection against blast media getting in. Moreover, the robot arms have a polyurethane coating to protect them against blast media impact.



## Offline programming increases system efficiency

By means of CAD data, programming of the robot is carried out offline or through a hand-held control panel. During offline programming the blasting programmes for single parts are created by Robot Expert and an especially developed controller for the “ReCo-Blaster®”. In addition to the programming of the robot's travel way, the blast pressure, the blasting distance, the blasting speed as well as the type





Blast booth with "ReCo-Blaster"® for cleaning components of wind energy plants

of treatment can be individually defined for each teach point.

Furthermore, with the hand-held panel it is possible to subsequently modify the blast cleaning programme and upload the modifications into Robot Expert to convey and refresh programme data.

### Advantages:

- Surface treatment rate is up to 5 times higher than with manual blast cleaning
- Consistent blasting quality and reproducible results
- Very high working and process reliability
- Higher efficiency, especially in case of serial parts
- Offline programming of the blasting programmes
- Continuous blast cleaning process, also for large workpieces
- Durable and low-wear construction as well as good protection against blast media
- High flexibility, as eight axes allow the robot to move
- Retrofitting in existing blastrooms is possible
- Suitable for all types of blast media

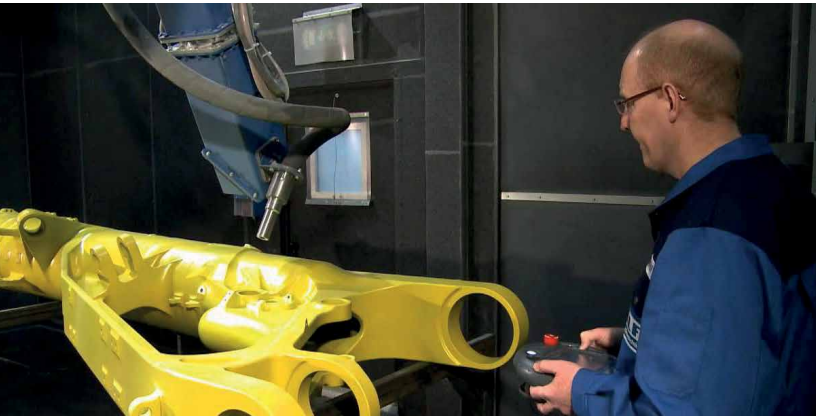
\* ReCo = Remote Control



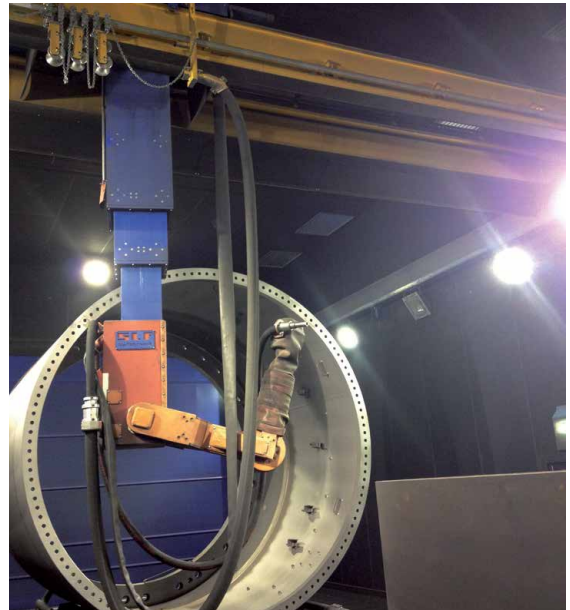
For further information on our "ReCo-Blaster"® please visit our website







Programming by means of a hand-held control panel



Blast robot for cleaning elements of wind towers

#### Technical data:

- Blast cleaning with a nozzle having 23 mm diameter
- Blasting pressure up to 8 bar
- 8 axes

#### Features:

- Electromotive servo drives
- Offline programming
- Additional hand-held operating panel
- Complete robot control system

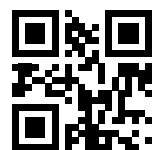
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