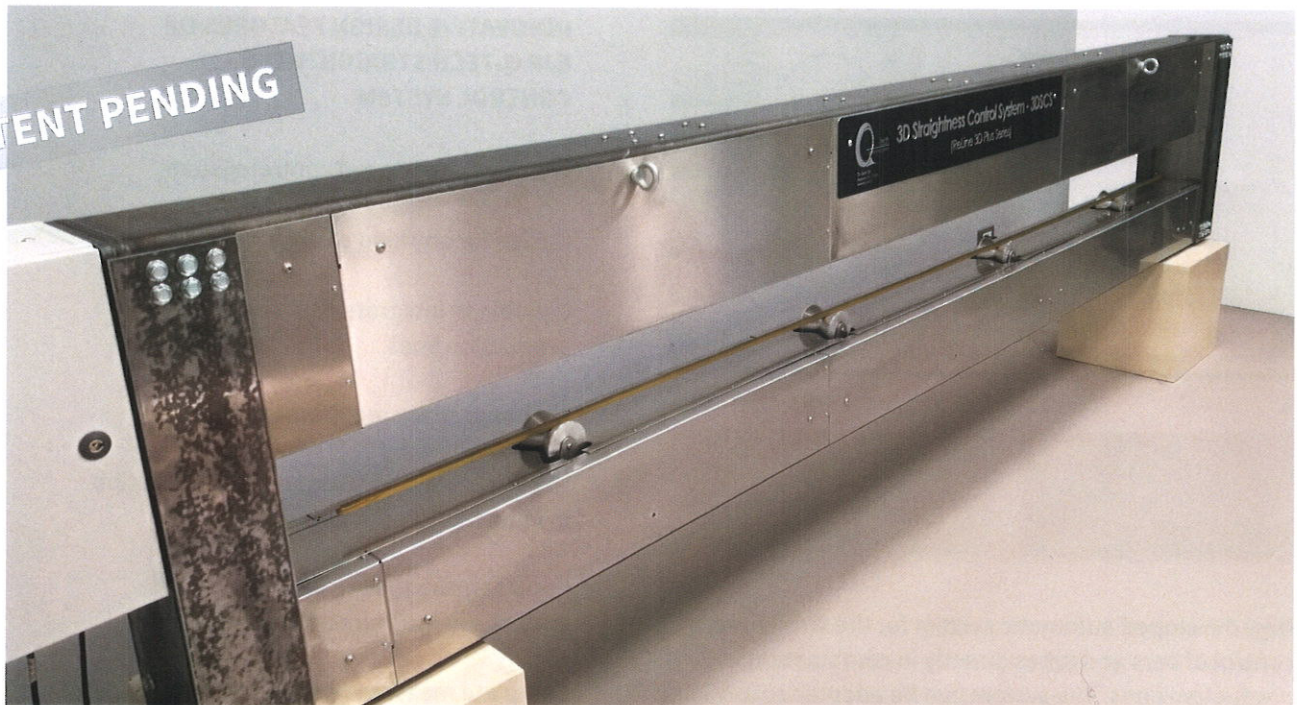


3D STRAIGHTNESS CONTROL SYSTEM TYPE RELINE 3D PLUS



PATENT PENDING



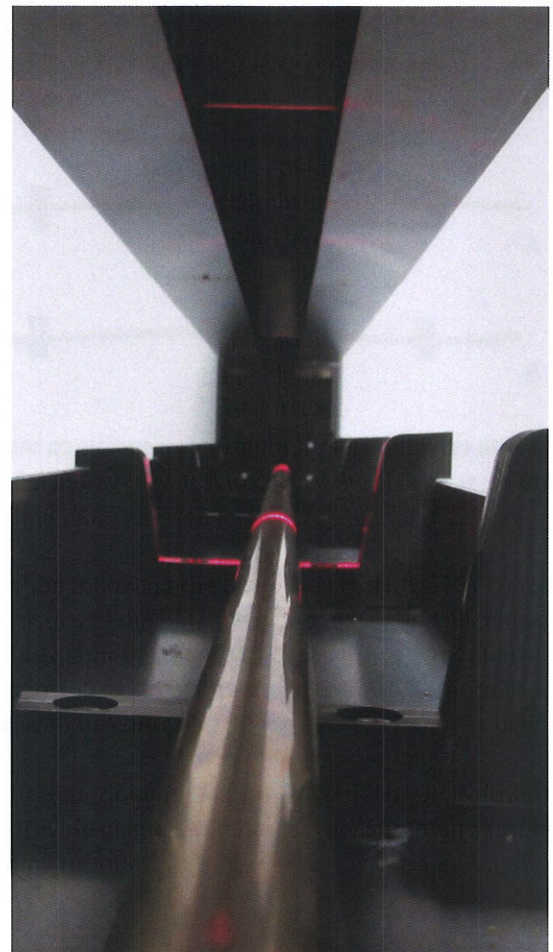
NEW UNIQUE PATENT APPLIED INNOVATIVE EJP Q-TECH STRAIGHTNESS CONTROL SYSTEM

EJP, Germany based manufacturer of finishing equipment for bars and tubes, and Q-TECH, Italy based manufacturer of optoelectronic systems, are glad to present their new 3D straightness control system type reline 3D plus.

Due to higher quality demand in bar and tube straightness, it is necessary not only to use the highly acknowledged precision straightening machines of EJP (2-Roll-straightener, 9-Roll-straightener, Multirollstraightener, Profilestraightener etc.) but also to verify and to certify the straightness of each individual bar.

Especially when following the basic idea of INDUSTRY 4.0 all characteristics of the bar/tube have to be controlled and verified. While diameter, length as well as surface could already be controlled in line, now also the straightness of the bar/tube can be controlled in line.

Thanks to the superior capabilities of Q-TECH, EJP is now capable to provide in line straightness measurement for new or existing production lines.

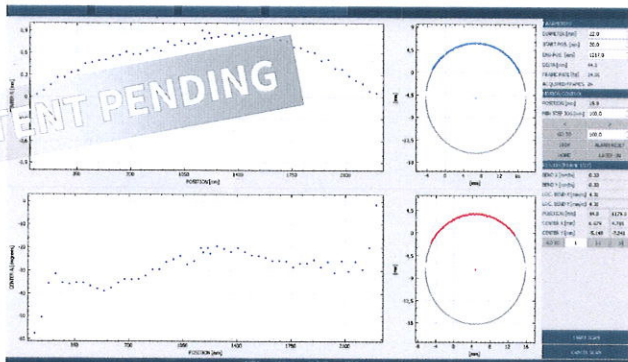


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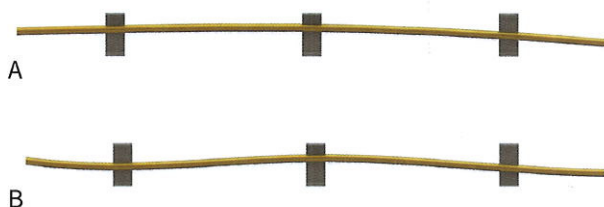


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3D STRAIGHTNESS CONTROL SYSTEM TYPE RELINE 3D PLUS



New developed automatic system for the straightness control of bars and tubes directly in combination with production lines. The system can be adapted to any kind of material (ferrous or non-ferrous). All kind of bar or tube sections can be controlled (max. diameter 80 mm). Measuring cycle within one second independently from bar length and bar geometry.



Due to the unique 3D analysis it is possible to measure the overall straightness (A) as well as the straightness per meter or any other length (B).

INNOVATIVE DESIGN FEATURES OF EJP Q-TECH STRAIGHTNESS CONTROL SYSTEM

Touchless highspeed control system

Usable for any kind of material shape

Capable to integrate into new or existing production lines

Minimum space requirement

Heavy duty frame structure for application in industrial production lines

Laser sensors type reline for high and accurate measurement of the material

Complete measurement of the 3D geometry of the bar

Scanning speed adaptable to line speed

Modular design for different bar length

Real time processing of scanned data

Easy interface via HMI for parameter setting

Interface with external automation systems possible



Q-TECH MANUFACTURING PROGRAMME

EQUIPMENT FOR INLINE QUALITY INSPECTION:

Measuring solutions for hot or cold machining processes
Measuring solutions for extruding/drawing plants
Laser sensors for product's profile detection
Laser systems for surface defects detection
Laser systems for 2D/3D dimensional control
Equipment for real 3D straightness measurement



EJP MANUFACTURING PROGRAMME

EQUIPMENT FOR THE FINISHING OF BARS, TUBES AND PROFILES:

Combined drawing systems for bars and tubes
Peeling equipment
Straightening equipment
Chamfering and milling equipment
Packaging equipment
Bar/tube testing equipment
Shotblasting equipment
Butt welding machines
Extrusion press runout equipment