

Automation of rectifying lime machine (make the control of speed and motion using Micromaster 440)

AUTOMATIZAR
AUTÓMATAS - TABLEROS - CONTROLES

Contact:

Street
ZIP code location
Country
Region (optional)
Phone: +49 91111-0000000
Fax: +49 91111-0000000

Founding year:

YYYY

Employees:

xyz

Solution
Partner

SIEMENS

Automation

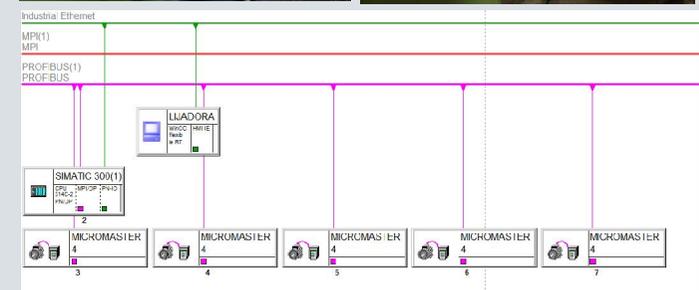
Solution Partner: AUTOMATIZAR
Customer: Bellota (Manizales/Colombia)
Segment: Metalworking

Requirements of the customer:

- What were the requirements?
- Perform motor speed control
- Obtaining motor parameters as a source of feedback
- Increasing the productivity of the production line of limes
- What was the task?
- Use more economical raw material, increase the number of limes per shift and increase the profitability of the units produced
- What were the challenges / visions / needs?
- Use control equipment with 220V voltage level
- Performing control using abrasive stones motor current

Short description of the solution

Design, implementation and commissioning of speed control through bus parameters on micromaster 440



Automation of rectifying lime machine (make the control of speed and motion using Micromaster 440)

AUTOMATIZAR
AUTÓMATAS - TABLEROS - CONTROLES

Contact:

Street
ZIP code location
Country
Region (optional)
Phone: +49 91111-0000000
Fax: +49 91111-0000000

Founding year:

yyyy

Employees:

xyz

Solution
Partner

SIEMENS

Automation

Implementation by the Solution Partner:

- Perform the rectification of limes using the variable speed control of micromaster 440 on voltage level 220VAC
- Through the development of automation, modernize production plant and the rectifying line
- The main reason of use micromaster technology was the need to work with voltage 220VAC
- Using Siemens products, equipment integration is easier and efficient.
- We used the line systems SIMATIC S7-300, SIRIUS, SIMATIC NET MICROMASTER of the Totally Integrated Automation



Benefits for the customer:

- The efficiency of the production line has increased about 200%, the repeatability of the process improves the quality and uniformity
- The new rectifying stone reduced investment in hardware about 500%
- Operating costs were reduced because only one operator is needed for every 3 machines
- Were reduced maintenance costs because it went from a stoppage of 8 hours for maintenance to a 15 min stop

