High speed with electric and pneumatic systems in the production of special metallic tubes

Customer
Tecdisma Ltd., located in the north-west of Spain, is a leading company in the market of technological solutions for machine design, production, assembly and start-up for the automotive industry.

Project
Smart solutions for a machine that produces hybrid tubings at high speed.

Requirements
- Rapid and simple commissioning
- Compact and robust solution for handling at high speed
- Increased flexibility and productivity

Solution
Standard solutions from Festo:
- **Toothed belt and spindle axes EGC/EGC-HD**
  Compact and robust
- **Terminal CPX with valve terminal MPA-S**
  Saves space and money
- **Radial grippers DHRS**
  Precise, powerful, compact
- **Standard cylinder DSBC-PPS**
  Simple and reliable
- **Service units MS series**
  Perfect compressed air preparation

Highlights
- Reduced production time up to 70%: Thanks to its automatic settings, Tecdisma can adapt the machine to new tubing formats in just 2 minutes
- Increased flexibility thanks to decentralized control concepts and different fieldbus connections
- Standard solutions from Festo are used for most of the pneumatic and electrical movements

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High speed with electric and pneumatic systems in the production of special metallic tubes: Products and solutions

Toothed belt and spindle axes EGC/EGC-HD
- Optionally with a guide or as a heavy-duty version (EGC-HD) with two guide rails
- Maximum load capacity and rigidity
- Very short cycle times due to maximum dynamic response
- Modular product with flexible options

Terminal CPX
Ideal as automation platform, valve terminal partner or as remote I/O – it is electric, open and direct. It is also the perfect platform for electrical peripherals. With CPX, you can integrate pneumatic and electrical control chains easily, quickly, flexibly and seamlessly into all automation concepts and company-specific standards – and into Industry 4.0 as well!

Valve terminal MPA-S
Maximum function integration, many electrical connection options, multi-pin plug, Festo I-Port, fieldbus and a comprehensive diagnostics concept. In addition: extremely compact and with the most modern valve technology. Optional: with integrated proportional pressure regulator VPPM-SPA for combined pressure sensing and pressure regulation

Radial grippers DHRS
- Max. repetition accuracy
- Gripping force retention
- Wide range of options for mounting on drive units
- Can be used as a double-acting and single-acting gripper
- Suitable for external and internal gripping

Standard cylinder DSBC-PPS
- Self-adjusting pneumatic end-position cushioning
- High flexibility thanks to the wide range of variants
- Standard profile with two sensor slots
- Comprehensive range of accessories
- Robust and attractively priced

Service units MS series
- A comprehensive concept for compressed air preparation
- For simple standard applications and application-specific solutions
- With integrated safety technology as well as pressure and flow sensors
- Maximum flow rates with minimum space requirement