



## Fully automated plant for production of Conveyor Rollers

### APPLICATIONS:

- Tube and Pipe manufactures
- Steel Plants and Bar processing lines
- Automotive industry
- Axle and roller production for intralogistics
- Bike and bicycle industry
- Furniture production...
- Peeling of ends
- Spinning of threads
- Automatic grooving



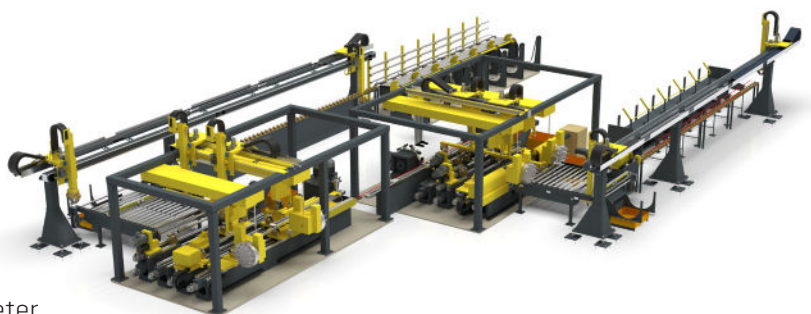
- Flaring of tubes
- Welding of Roller tops
- Automatic assembly of roller tops

### ADVANTAGES:

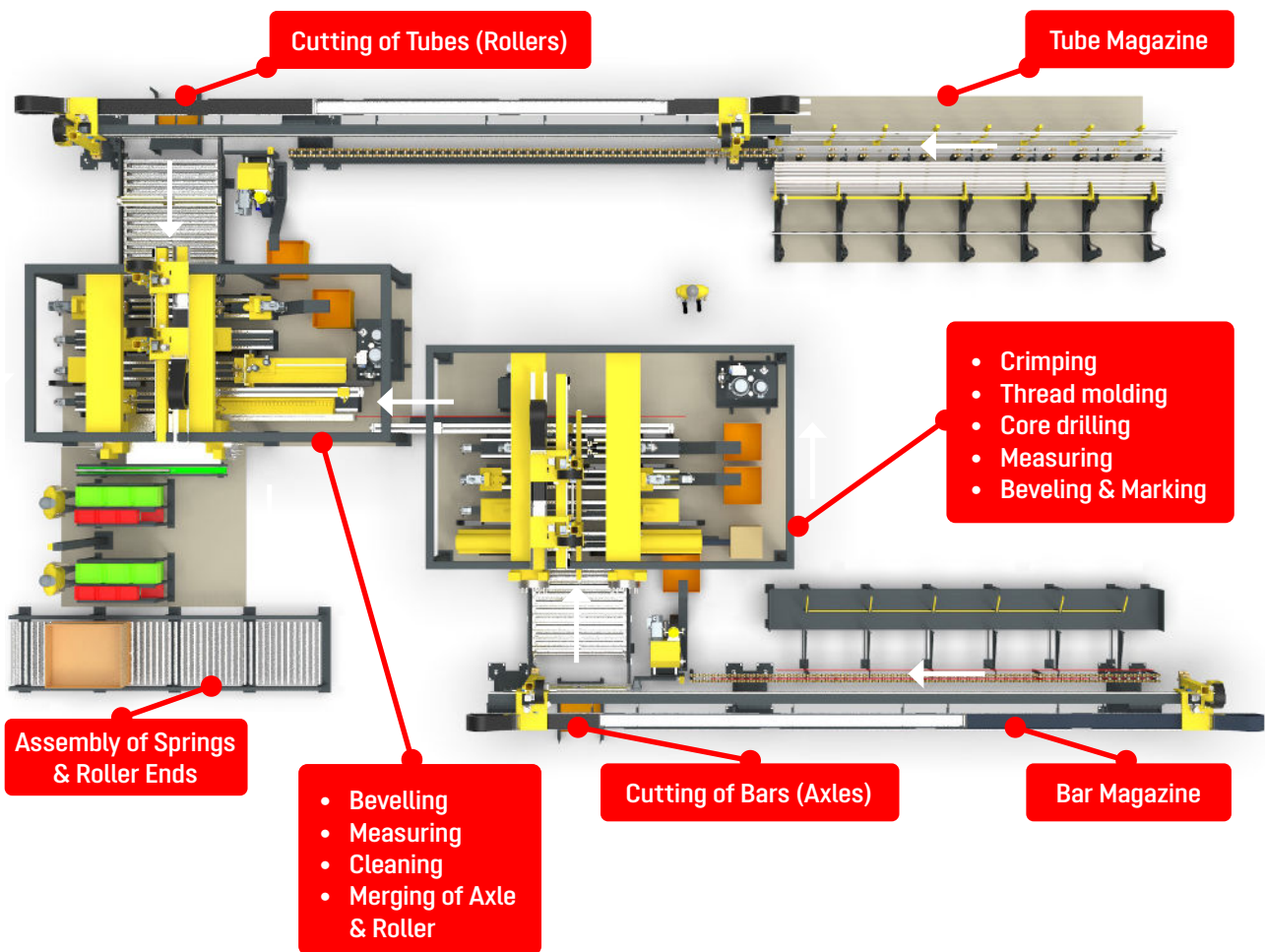
- Lot Size 1 production
- Customized production
- Material production just in time
- Minimum manpower required
- Automatic setup for each dimension possible
- Automatic tool change for end machining stations
- Machine designed for maximum output (<5sec per finished piece)
- Individually adaptable and expandable modular system
- Fully automatic quality checkup of finished product dimension with certificate
- Condition monitoring system and preventive maintenance AI

### TECHNICAL DATA:

- Roller Diameter 30/40/50/60 mm
- Axles 8/10/12/14 SK 8/11
- Axles with internal threads M8/M10
- Steel, galvanized Steel, Stainless Steel
- Individual Roller and Axles lengths 100 - 1500 mm
- Cycle Time 5 sec /Roller (Steel)
- Manual assembly of springs and roller ends
- Automatic setting up for different dimensions diameter
- Synchronous manufacturing of Rollers and Axles

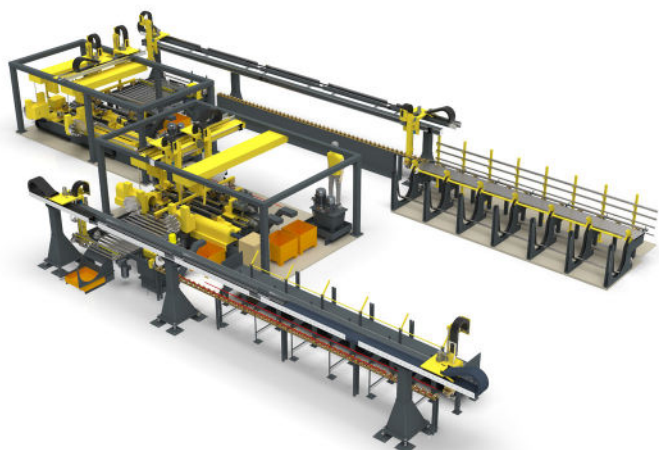


## PLANT OVERVIEW - FLOWSHEET



### AUTOMATION:

- Control System
- Siemens 840 D Solution Line
- Digital Twin
- Simulation of Production
- Failure Detection and Analysis
- Condition Monitoring
- Monitoring of spindles and guidings
- Preventive service strategies



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