

Automatic pipe-bending and end machining line for exhaust gas pipes

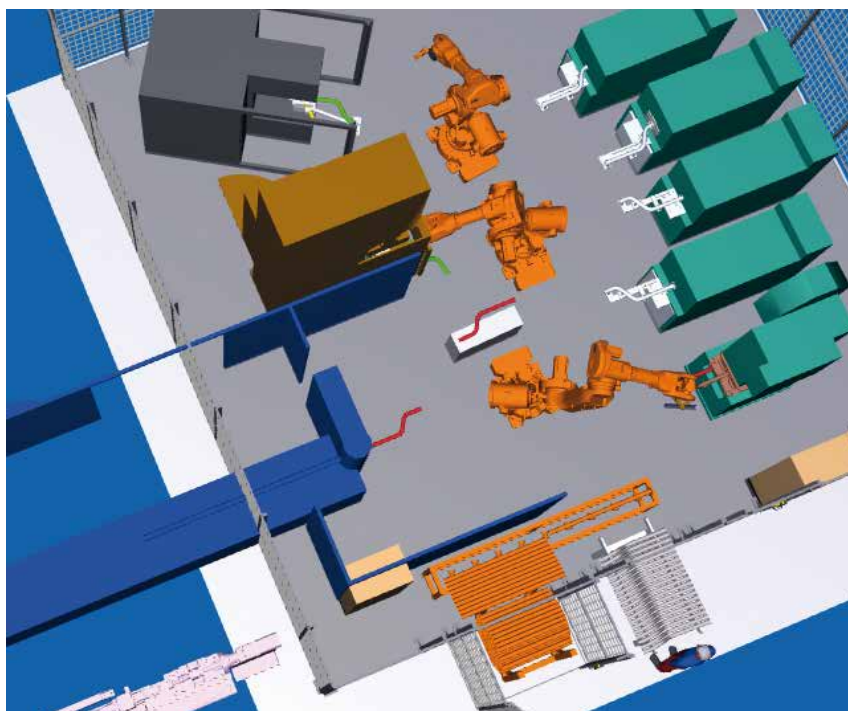


Task:

Several varieties of exhaust gas pipe with different diameters can be manufactured in this fully automated robot cell.

Our solution:

Three ABB robots equipped with double or single grippers feed the fixed pipe blanks to the different processing stations. First, the parts are separated and lined up after longitudinal welding. The weld joint is recognised optically by a colour sensor.



Processing stations:

- Bending machine
- Eccentric press
- End facing machine
- Separating and rolling machine
- Pipe forming machine

Your benefits:

+ **Production of several varieties**
with different diameters

+ **Cost savings**
thanks to complete automation

+ **Reduced error rate and quality assurance**
by using robots

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Technical details:

Workpiece	Lengths of 1.50 m to 3.00 m can be processed
Cycle time	48 sec./piece
Floor area	11.50 m x 15.00 m
Robot	3 ABB robots
Control	Siemens Simatic S7
Visualisation	WinCC Flexible

**We provide ready to use robot systems
and automation solutions:**



Processing:

- Deburring
- Milling
- Grinding
- Stroke filing
- Polishing



Assembly:

- Assembling
- Screwing
- Shrinking
- Pressing
- Glueing



Handling:

- Picking up
- Stacking
- Insertion
- Removal
- Placing

Everything from a single source:

Thanks to our integration into the **Pütz Group** and the resulting **synergy effects**, we are able to offer you not just robot systems and automation solutions, but also the appropriate test technology to test surfaces for dimensional accuracy.

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