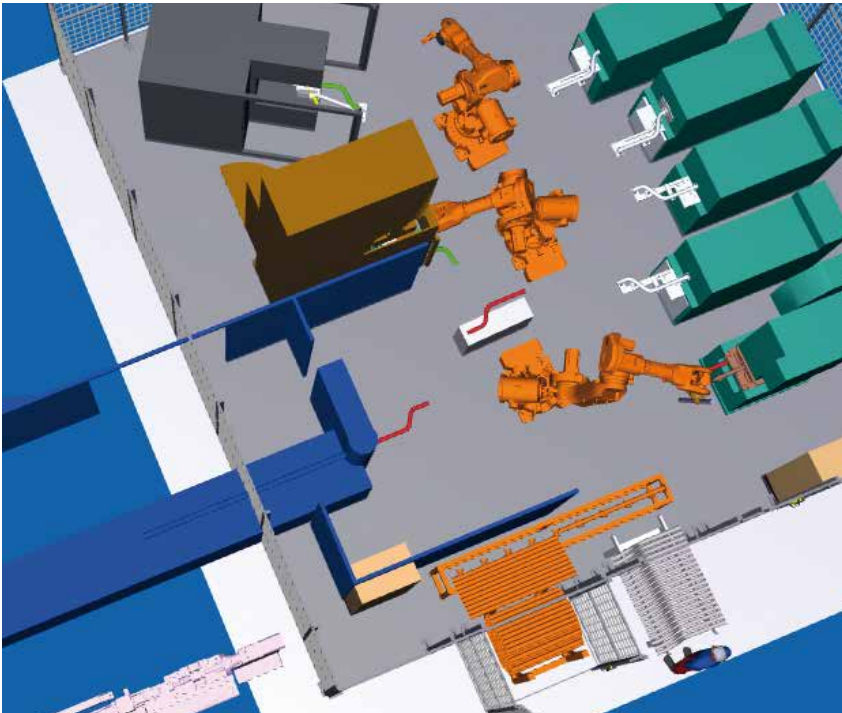


# AUTOMATIC PIPE-BENDING AND END MACHINING LINE FOR EXHAUST GAS PIPES

## SAMPAS

efficient robot solutions

ROBOTIC SYSTEMS  
AND AUTOMATION SOLUTIONS



### 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.

The pipe is then placed on a conveyor belt.

### Task:

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

### Processing stations:

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

### Your benefit:

⊕ Production of several varieties with different diameters

⊕ Cost savings thanks to complete automation

⊕ Using robots reduces the error rate and hence ensures quality

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### Technical details:

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

### Our services:

- Project planning and management
- Robot PLC and visualisation
- Programming
- Electronic and mechanical design
- Commissioning
- Production interfaces
- Manufacture and assembly

### 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 only Robotic systems and automation solutions but also the appropriate testing technology to test surfaces and dimensional accuracy and completeness.

**SAMPAS GmbH takes care  
of everything:**

... project planning  
and programming,  
project management,  
production interfaces, activation,  
operational approval, production  
oversight and much more!

**We look forward  
to hearing from you!**

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