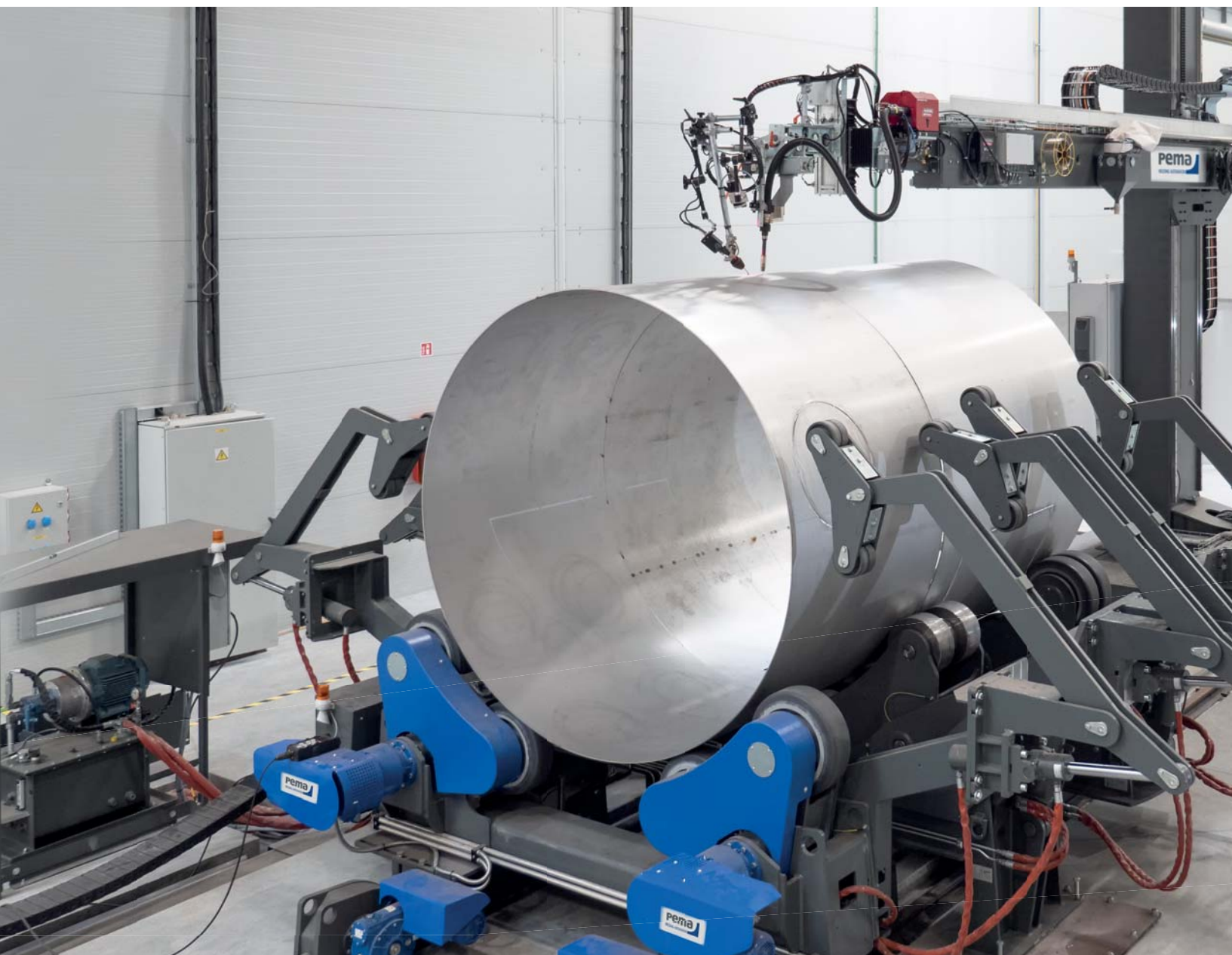


PEMA TW5000-25 + MD 4x4

ASSEMBLY STATION & WELDING COLUMN & BOOM

Pema
WELDING AUTOMATION



COST-EFFECTIVE

Only one operator is required to manage the entire manufacturing process.

COMPLETE SOLUTION

The solution includes both assembly and welding enabling fast and efficient production start-up.

PERFECT CIRCLE

Perfect quality even for thin wall shells. The innovative fit-up technology guarantees consistent circular shape.



PEMA ASSEMBLY AND WELDING

SOLUTION FOR TUBULAR STRUCTURES

PEMA Assembly and welding station is an innovative solution for manufacturing tubular and conical workpieces. The assembly line can be fully integrated with PEMA Column & Boom and PEMA control systems, therefore the operator is able assemble and weld in the same station.

THE NEW-GENERATION ASSEMBLY STATION.

PEMA Assembly and welding station increase your productivity, quality and efficiency.

4h → 1/2h

TIME SAVINGS

Time used to join two sections shortens from four hours to thirty minutes.

100%

QUALITY

Improve fit-up accuracy and reduce defect rate into half.

1

OPERATOR

Complete process from assembly to welding can be managed by one operator.

INNOVATIVE SOLUTION, GREATER PERFORMANCE.

Pema
WELDING AUTOMATION

- Precise assembly and flawless welds
- Integrated Column & Boom
- Modern and user-friendly operator interface by PEMA WeldControl
- Undamaged workpiece
- Only one operator required to manage the entire process
- Includes growing line feature

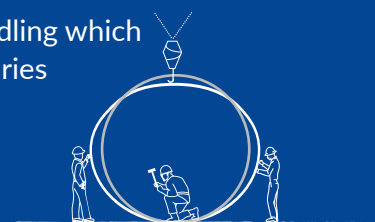


CONVENTIONAL

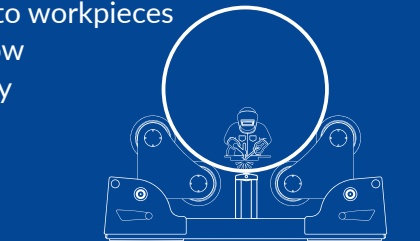
VS.

PEMA ASSEMBLY STATION

- Irregular in quality
- Time-consuming
- Cranes and additional accessories needed
- Requires manual handling which increases risks of injuries



- Boost in productivity
- High quality and circular shape guaranteed even for thin wall workpieces
- No damages to workpieces
- One-man show
- Highest safety



PEMA ASSEMBLY AND WELDING SPECIFICATION

- 1500-5000mm workpiece diameter* (60-200")
- 12,5t maximum weight of can
- 25t maximum weight of complete section
- 1200-3000mm length of single can (47-118")
- PEMA WeldControl 100
- 4m vertical movement (13')
- 4m horizontal movement (13')
- Single SAW welding head
- Camera system
- Lincoln Electric Powerwave Technology

*support arms working range 2-5m (80-200")

Stand out from competitors with **PEMA SOLUTIONS**

Half a century of global excellence. Pemamek has an extensive 50-year experience in designing and manufacturing welding automation solutions. Each PEMA solution is engineered according to customer's production needs and to reach the targeted productivity leap.



YOUR INDUSTRY, PEMA'S SOLUTION.

GENERAL FABRICATION

SHIPBUILDING

OFFSHORE AND PROCESS
EQUIPMENT

WIND ENERGY

HEAVY EQUIPMENT

POWER GENERATION

Pema
WELDING AUTOMATION

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