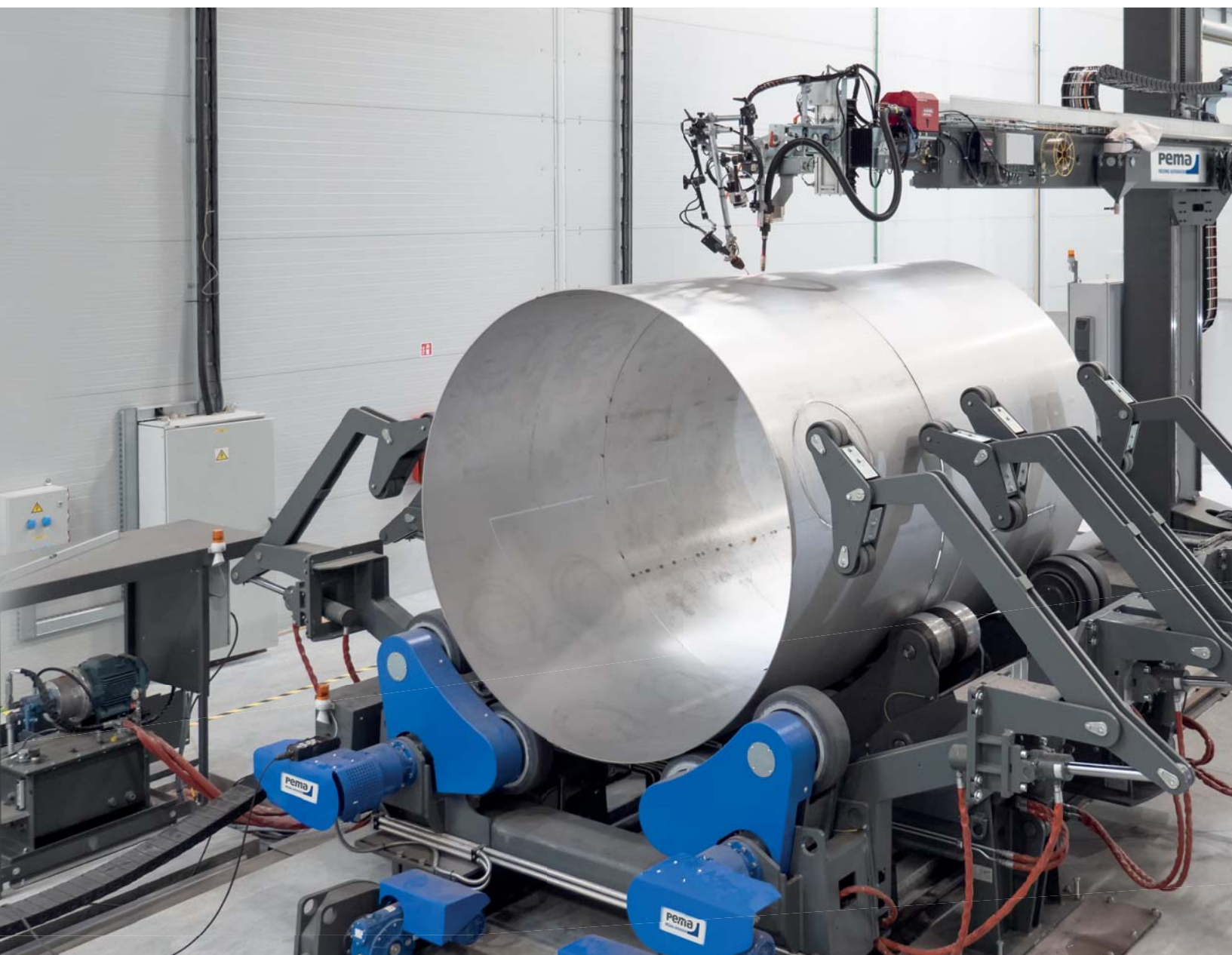


# PEMA TW5000-25 + MD 4x4

## 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.



- 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

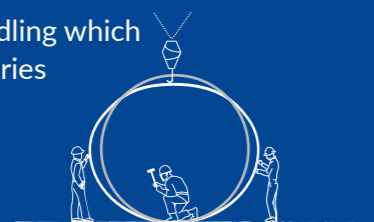


## CONVENTIONAL

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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