

## MCM-4000

The 3 in 1 machine

- measurement
- cutting/beveling
- welding

5-AXIS PORTABLE CNC 3D  
CUTTING/BEVELING AND WELDING MACHINES  
**RECOMMENDED TO ONSHORE AND OFFSHORE WIND  
TOWERS MANUFACTURERS!**

MCM machines are a true portable CNC scanning, cutting, beveling and welding machines that eliminates the biggest bottleneck in the steel wind towers production On&Offshore!

MCM 3D Oxy-fuel CNC 3D cutting&beveling head ensure top quality welding preparation each time!

MCM SAW ACDC welding head/processes that increase deposition rate, boost productivity will significantly reduce the largest component of welding costs – labor and overhead!.



### MCM machines are available in the configuration:

- MCM: Mini / 1000 / 4000 / 5000+
- Upon request: to be confirmed any different CNC working area
- Oxy-fuel cutting&beveling kit for single V or double sided bevel
- Recommended option: SAW ACDC Single Wire

### Features&Benefits:

- Short setup time and easy handling
- Each workpiece (e.g. doorframe) is scanned to automatically generate individual CNC cutting/beveling and CNC welding path
- Top quality weld preps
- Precise root gap 1-3mm
- Welding defect rate less 1%
- No grinding
- One-man operation
- On-line support connection
- Excellent Return On Investment (ROI)!
- Multiple successful installations to the Clients in the Wind Business!

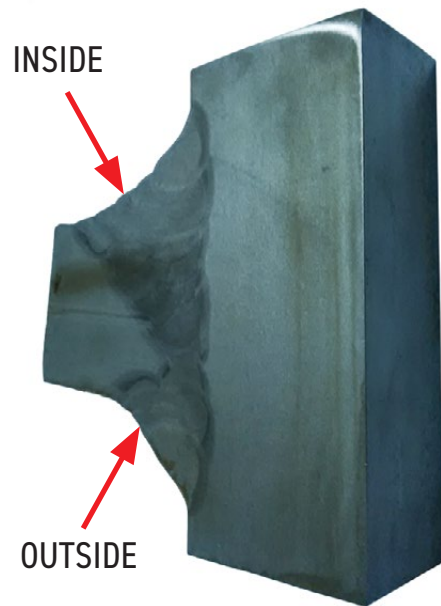
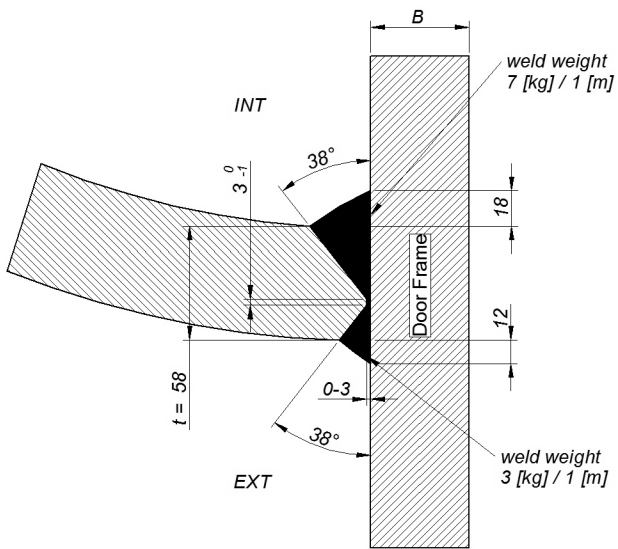


## ON&OFFSHORE WIND TOWERS APPLICATION:

### DOOR / VENTILLATION FRAMES

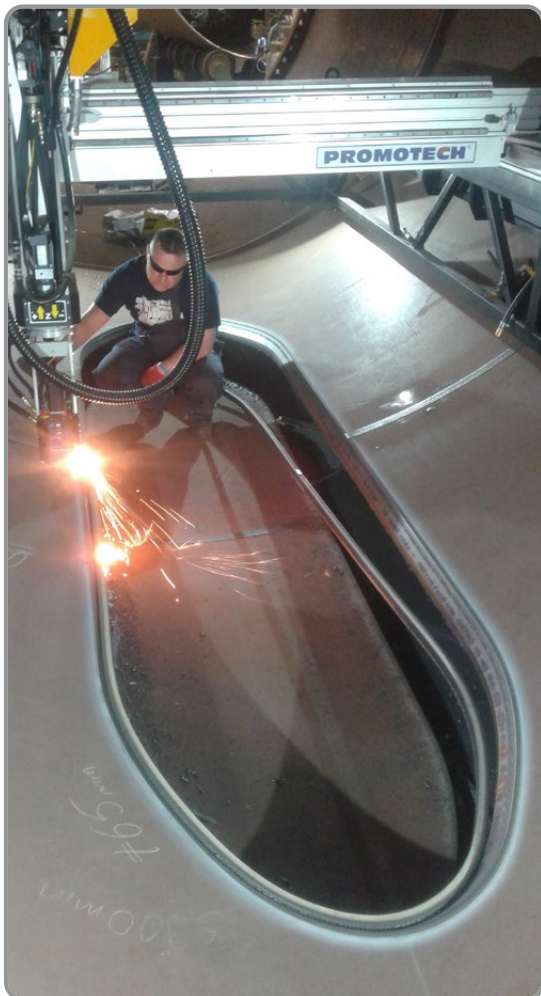
Weld prep: Oxy-fuel double bevel (single bevel also available)

Welding: SAW ACDC 4.00mm single wire



MCM SAW welding joint design: double bevel 2/3 inside; 1/3 outside

### Semi-automatic 3D CNC Oxy-fuel cutting&beveling inside tower section



One-man operation!



**Semi-automatic 3D CNC SAW ACDC welding inside&outside of tower section!**



**One-man operation!**

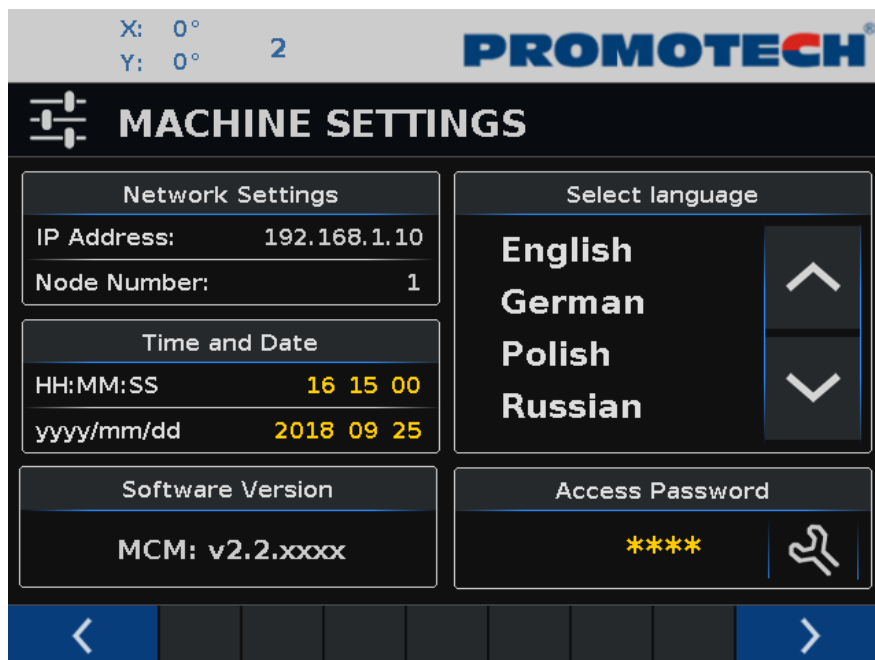
**Recommended Column&MCM work-station  
for fast and easy handling Inside&Outside tower section!**



## Standard technical data to MCM Onshore and Offshore applications

	Tower section ID	Max. width/length of door / ventilation frame
MCM Special	Min. 3.0 m	Up to 0.5 x 1 m
MCM 1000	Min. 3.5 m	Up to 1 x 2 m
MCM 4000 S	Min. 3.5 m	Up to 1.25 x 4 m
MCM 4000 W	Min. 4.0 m	Up to 1.28 x 4 m
MCM 5000+ / Offshore	Min. 4.9 m	Upon request
CNC 3D Oxy-fuel straight cut/bevel head		YES
CNC 3D SAW ACDC		Recommended (optional)
Max. wire electrode diameter		SAW Single Wire 4.00mm
Min. welding dep. rate at 100% arc time - 6kg/hr/ Heat Input		6 kg/hr 21.6 kJ/cm
One-man Operation		YES

### On-line support connection available!



Built-in network router enables remote access to machine interface (VNC Network)



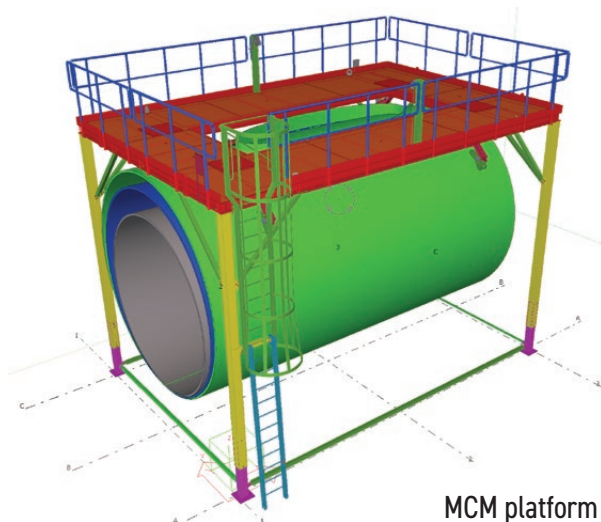
Compatible with mobile and desktop devices



WIFI and cable connections



On-request software updates and machine diagnostics



MCM platform

More information available at [www.promotech.eu](http://www.promotech.eu)



Mitglied im DVS - Deutscher Verband für Schweißen und verwandte Verfahren e. V.



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