

2024

---

# Product Catalogue

# SAY GOODBYE TO COMPLEX SETUPS

## SAY HELLO TO EFFORTLESS PIPE WELDING

With the newest technology and many years of welding experience put into our machines, we have developed something outstanding for the welding industry. Our solutions are developed to be easy to use. Explore the different and benefits with WeldingDroid.

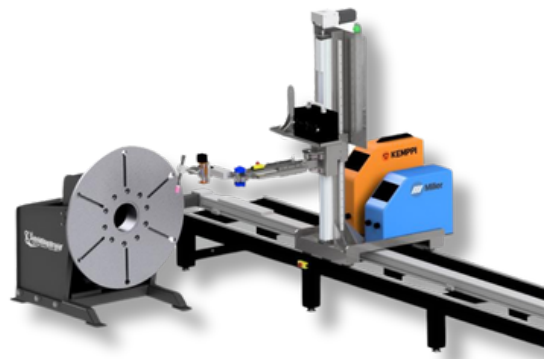
1.

WELDINGDROID  
WS



2.

WELDINGDROID  
WS MANIPULATOR



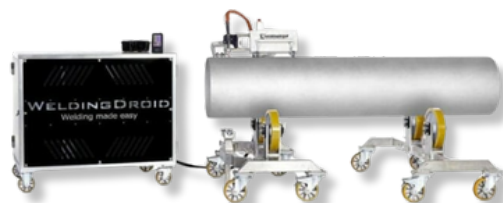
3.

WELDINGDROID  
MINIDROID



4.

WELDINGDROID  
X2



1.

WS

Efficient 4 axis  
welding automation

2.

WS MANIPULATOR

Ideal for most  
applications

3.

MINIDROID

TurnKey Solution

4.

X2

Flexible, portable and  
efficient

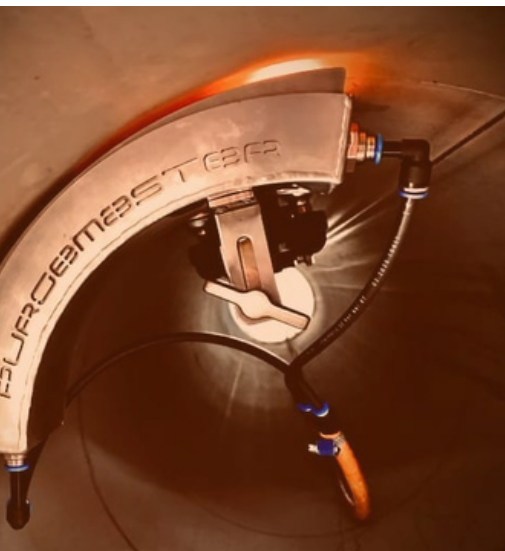
# THE PURGEMASTER

One of the time consuming and expensive operations when welding pipes, is the purging. To ensure that no oxidation occurs on the inside of the pipes mostly a purging with gas is made. This fills the pipe with gas and the pipe is continuously flushed during welding. Imagine that you could just apply gas where the welding takes place, and that the gas inside the pipe follows the torch on the outside of the pipe. Sounds impossible, but it is not thanks to WeldingDroids patented PurgeMaster system.

SAVE UP TO  
**90%**  
ON YOUR PURGING

## FEATURES & BENEFITS

- Through the utilization of strong magnets, the PurgeMaster always follows the torch.
- Due to the 360° wheels the PurgeMaster can be slid sideways and through elbows.
- No need for attaching wires or similar tools to the PurgeMaster.
- Simply slide it out when you are finished welding.
- Through different inserts we cover any available size of pipe from Ø250mm and up (up to 10mm thickness).
- The gas consumption can be reduced by up to 90% depending on diameter and length of pipe.
- Avoid long flush times and uncertainty of the PPM level during the weld.
- WeldingDroid offers a complete package ready to use for pipe applications.



# WELDINGDROID WS

Since its introduction the WeldingDroid WS has redefined pipe welding across the industries, by making welding easier, faster and less stressful for the welder. The WeldingDroid WS dramatically improves operational efficiency, optimises the level of quality and consistency of the welds and enables the operator to make substantial savings on every weld.

WELDINGDROID  
WS



WIFI REMOTE CONTROLLER

## CUSTOMIZABLE

- From diameter Ø100mm to Ø4000mm
- Length up to 14 meter
- Round & Longitudinal weld\*
- GTAW/GMAW or both\*\*
- AVC
- Oscillation
- Gasvalves: Purge & Trail\*\*
- Coldwire/Hotwire
- WLL max. 6t.

\* Longitudinal welding up to Ø1000mm on top of pipe, above Ø1000mm is side-in welding  
\*\* Optional

## FEATURES

- Z-Axis motor
- Adjustable welding arm
- Rollers (2 with sync. motors)
- Guide rails for adjustment
- Motor full length (longitudinal weld)
- Wirefeeder for GTAW
- GTAW/GMAW or both
- Customized frame

## WELD HEAD

- Oscillation
- Height control AVC
- Wireguide (cold-/hotwire)
- Torch 300 amp.
- Adjustable torch mount.

## CONTROLLER

- Remote controller for programming
- Control all parameters
- Save/load programs
- Data will be saved (cloud-based)
- Automatic welding
- Joystick for controlling during weld
- Easy to program

## SPECIFICATIONS

### Application

Single/multi pass pipe-to-pipe, pipe-to-fitting

### Pipe range diameter

Ø100 - Ø4000mm (4" - 160")

### Pipe range length

Up to 14 meter

### Maximum weight of pipe

6.000 kg (6t)

### Oscillation module

Max. adjustment of torch: 100mm (4")

Max. oscillation width: 40mm

Max. oscillation stop time: 5 seconds

### Water cooled torch

300 Amps. continuous

### Welding machine

Kemppi (GTAW/GMAW)

### Power supply

3 x 400V

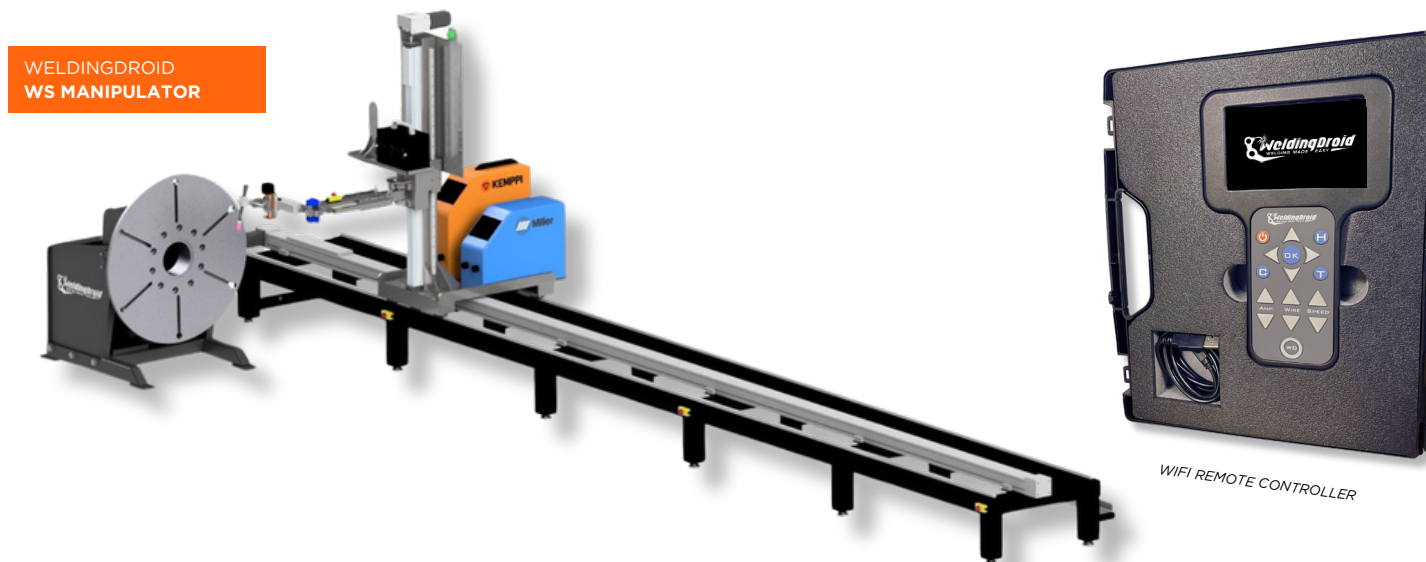
## WELD TIMES GTAW/TIG

Material	Diameter	Thickness	Weld time	Heat input	Passes
SS	256mm	3mm	3min. 11sec	0.33 kJ/mm	1
SS	306mm	3mm	5min. 47sec.	0.29 kJ/mm	1
SS	704mm	2mm	10min. 56sec.	0.49 kJ/mm	1

Material	Diameter	Thickness	Weld time all	Heat input	Passes
CS	222mm	6mm	17min 20sec.	0.62 kJ/mm	2 (R+C)
CS	160mm	14mm	31min 32sec.	0.68 kJ/mm	4 (R+F+F+C)
CS	240mm	8mm	21min. 32sec.	0.78 kJ/mm	2 (R+C)

# WELDINGDROID WS MANIPULATOR

The new 2024 WS Manipulator streamlines and automates the welding process, making it more efficient. With advanced technology and a user-friendly interface, the WS Manipulator guarantees precise and accurate welds. Say goodbye to complex setups and hello to effortless pipe welding.



## CUSTOMIZABLE

- From diameter Ø100mm to Ø4000mm
- Length up to 14 meter
- Round & Longitudinal weld\*
- GTAW/GMAW or both\*\*
- AVC
- Oscillation
- Gasvalves: Purge & Trail\*\*
- Coldwire/Hotwire
- WLL max. 6t.

\* Longitudinal welding up to Ø1000mm on top of pipe, above Ø1000mm is side-in welding  
 \*\* Optional

## FEATURES

- Z-Axis motor
- Adjustable welding arm
- Rollers (2 with sync. motors)
- Guide rails for adjustment
- Motor full length (longitudinal weld)
- Wirefeeder for GTAW
- GTAW/GMAW or both
- Customized frame

## WELD HEAD

- Oscillation
- Height control AVC
- Wireguide (cold-/hotwire)
- Torch 300 amp.
- Adjustable torch mount.

## CONTROLLER

- Remote controller for programming
- Control all parameters
- Save/load programs
- Data will be saved (cloud-based)
- Automatic welding
- Joystick for controlling during weld
- Easy to program

## SPECIFICATIONS

### Application

Single/multi pass pipe-to-pipe, pipe-to-fitting

### Pipe range diameter

Ø100 - Ø4000mm (4" - 160")

### Pipe range length

Up to 14 meter

### Maximum weight of pipe

6.000 kg (6t)

### Oscillation module

Max. adjustment of torch: 100mm (4")

Max. oscillation width: 40mm

Max. oscillation stop time: 5 seconds

### Water cooled torch

300 Amps. continuous

### Welding machine

Kemppi (GTAW/GMAW)

### Power supply

3 x 400V

## WELD TIMES GTAW/TIG

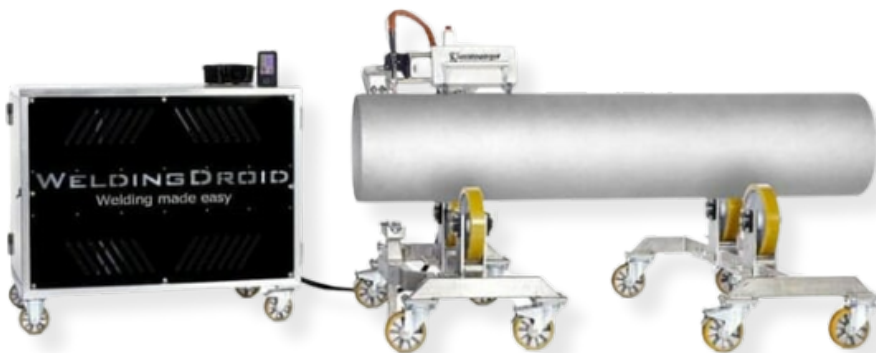
Material	Diameter	Thickness	Weld time	Heat input	Passes
SS	256mm	3mm	3min. 11sec	0.33 kJ/mm	1
SS	306mm	3mm	5min. 47sec.	0.29 kJ/mm	1
SS	704mm	2mm	10min. 56sec.	0.49 kJ/mm	1

Material	Diameter	Thickness	Weld time all	Heat input	Passes
CS	222mm	6mm	17min 20sec.	0.62 kJ/mm	2 (R+C)
CS	160mm	14mm	31min 32sec.	0.68 kJ/mm	4 (R+F+F+C)
CS	240mm	8mm	21min. 32sec.	0.78 kJ/mm	2 (R+C)

# WELDINGDROID X2

Since its introduction the WeldingDroid X2 has redefined pipe welding across the industries, by making welding easier, faster and less stressful for the welder. The WeldingDroid X2 dramatically improves operational efficiency, optimises the level of quality and consistency of the welds and enables the operator to make substantial savings on every weld.

## WELDINGDROID X2



WIFI REMOTE CONTROLLER

### POWERFUL TOOL

- From diameter Ø100mm to Ø1000mm
- Length from 600mm
- GTAW/GMAW
- AVC
- Oscillation
- Gasvalves: Purge & Trail
- Coldwire/Hotwire\*
- WLL max. 2t.

\* Optional

### FEATURES

- Z-Axis motor
- Adjustable arm with easy lift
- Rollers (2 with sync. motors)
- Guide rails for adjustment
- Cabinet with welding machine
- Wirefeeder for GTAW
- GTAW/GMAW or both
- Frame with rollers and motors

### WELD HEAD

- Oscillation
- Height control AVC
- Wireguide (cold-/hotwire)
- Torch 300 amp.
- Adjustable torch mount.

### CONTROLLER

- Remote controller for programming
- Control all parameters
- Save/load programs
- Data will be saved (cloud-based)
- Automatic welding
- Joystick for controlling during weld
- Easy to program

### SPECIFICATIONS

#### Application

Single/multi pass pipe-to-pipe, pipe-to-fitting

#### Pipe range diameter

Ø100 - Ø1000mm (4" - 40")

#### Pipe range length

Rollers distance 5 meters (pipe longer)

#### Maximum weight of pipe

2.000 kg (2t)

#### Oscillation module

Max. adjustment of torch: 100mm (4")

Max. oscillation width: 40mm

Max. oscillation stop time: 5 seconds

#### Water cooled torch

300 Amps. continuous

#### Welding machine

Kemppi (GTAW/GMAW)

#### Power supply

3 x 400V

### WELD TIMES GTAW/TIG

Material	Diameter	Thickness	Weld time	Heat input	Passes
SS	256mm	3mm	3min. 11sec	0.33 kJ/mm	1
SS	306mm	3mm	5min. 47sec.	0.29 kJ/mm	1
SS	704mm	2mm	10min. 56sec.	0.49 kJ/mm	1

Material	Diameter	Thickness	Weld time all	Heat input	Passes
CS	222mm	6mm	17min 20sec.	0.62 kJ/mm	2 (R+C)
CS	160mm	14mm	31min 32sec.	0.68 kJ/mm	4 (R+F+F+C)
CS	240mm	8mm	21min. 32sec.	0.78 kJ/mm	2 (R+C)

# WELDINGDROID MINIDROID

Small portable TurnKey Solution for smaller pipes. Ideal for pharma, because of the high quality and the datacollection. Press the *Start-button* and the operation begins.

WELDINGDROID  
MINIDROID



WIFI REMOTE CONTROLLER

## TURNKEY SOLUTION

- From diameter Ø6mm to Ø160mm
- Carbon steel, stainless steel and high alloy
- TIG/GTAW with or without wire
- Hotwire for thicker material
- Ideal for pharma

## FEATURES

- TurnKey Solution
- Adjustable chuck
- Can weld smaller pipes, collars, flanges and much more
- Cabinet with welding machine
- Wirefeeder for GTAW

## WELD HEAD

- Oscillation
- Height control AVC
- Wireguide (cold-/hotwire)
- Torch 300 amp.
- Adjustable torch mount.

## CONTROLLER

- Remote controller for programming
- Control all parameters
- Save/load programs
- Data will be saved (cloud-based)
- Automatic welding
- Joystick for controlling during weld
- Easy to program

## SPECIFICATIONS

### Application

Single/multi pass pipe-to-pipe, pipe-to-fitting

### Pipe range diameter

Ø6 - Ø160mm (0.25" - 6.25")

### Oscillation module

Max. adjustment of torch: 100mm (4")

Max. oscillation width: 40mm

Max. oscillation stop time: 5 seconds

### Water cooled torch

300 Amps. continuous

### Welding machine

Kemppi (GTAW/GMAW)

### Power supply

3 x 400V

# WELDINGDROID HOTWIRE

Stand Alone Hotwire-system. Fits all wirefeeder systems.

WELDINGDROID  
HOTWIRE



Increase filler  
material up to  
**400%!**

## HIGHER PRODUCTIVITY

- Hotwire system for all machines
- 3 different wireheating steps (1, 2 and 3)
- Increase filler material up to 400%.
- Works with all wirefeeders
- Easy to mount

# GTAW & GMAW MULTIPASS WELDING

## GTAW

The head on all WeldingDroid machines, are made for pipe-to-pipe and pipe-to-fitting welds. With the special mount, the torch can be angled in all positions. Oscillation is fully controllable and can be adjusted in width, height and even stoptimes in the outer position for perfect penetration. This provides a fully controlled weld for rootpass-filler and cap. The functionality of this weld head improves productivity by increasing duty cycle and reducing repair rates.

## GMAW

The machines has the possibility also to weld GMAW. It can even be made with both GTAW and GMAW in one solution. If the rootpass shall be welded with GTAW and the filling with GMAW, this is possible. Quick and easy torch replace.

# PARTNERS & CUSTOMERS



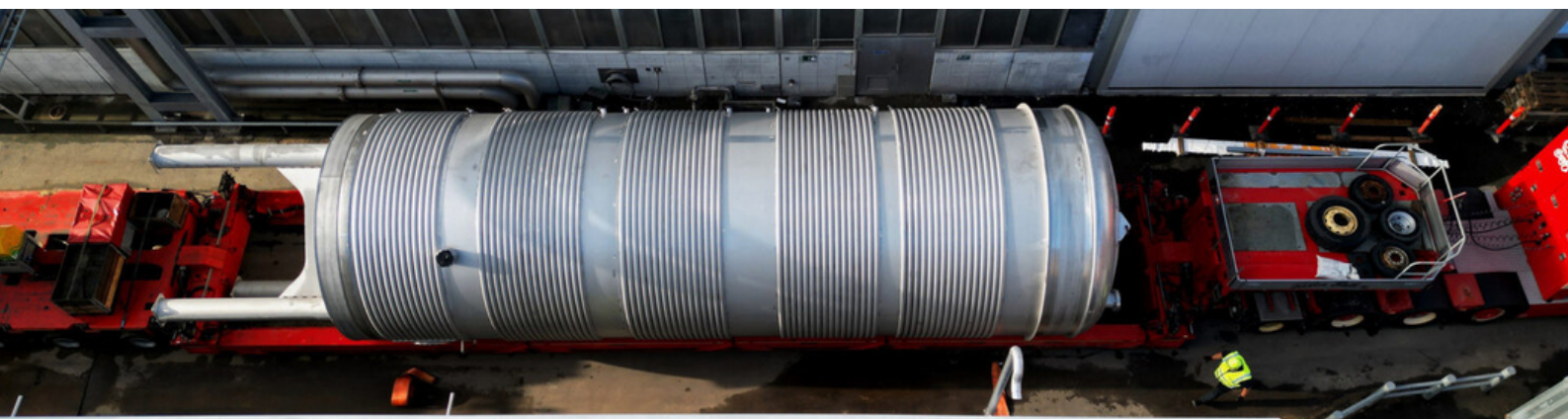
## CUSTOMER CASE

### LP KOLDING A/S

#### Automatic welding machine spares employees for bad working positions

- "In the spring, we installed a new tool in our production: an automatic welding machine. It has been developed and designed to take over tasks that risk putting unnecessary strain on our colleagues - and it has already saved us hundreds of hours of work in uncomfortable positions. The reason for the new acquisition was a large task, which entailed many hours of monotonous work in uncomfortable positions."

- "In connection with the fact that we had to deliver the largest tank ever in LP Kolding's history, there was the prospect of many hours of monotonous welding work in connection with edge welding on some cooling pipes. Due to the size of the tank, much of the work would have to be done by employees lying on their stomachs on lifts and working underneath them. It puts a strain on both the job satisfaction and the physique. That's why we decided to investigate whether we couldn't find a better solution", says Bjørn Beyer, who was both the project manager on the tank and was given the task of developing the welding machine.



# READY FOR YOUR **WELDINGDROID** **ADVANTAGE?**

Contact us or one of our dealers to learn more about how WeldingDroid can improve operational efficiency, optimise quality and consistency of your pipe welds, while also achieving significant savings on every weld.

[\*\*www.weldingdroid.com\*\*](http://www.weldingdroid.com)

