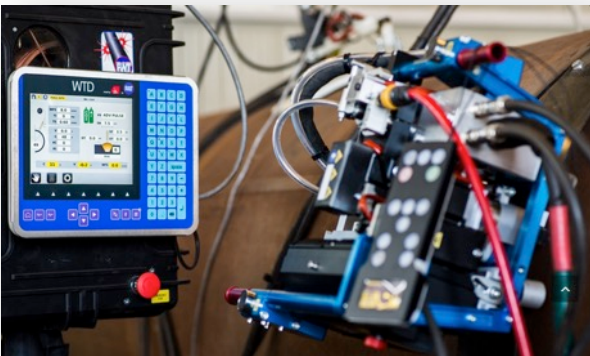


# APC Pipeline Automatic Welding Service

APC utilizes PWT's DWS0.3 system that allows welding with or without the copper backing system, thanks to the enhanced advanced pulsed arc welding process. The advantage is to have a light equipment able to weld root to cap and easy to use in different environment conditions.

## EASY

- Simple remote with minimum number of buttons and switches, easy for welders
- Single torch but highly effective process to deliver higher value for money while keeping it simple.
- All electronic is onboard the welding head: less cables, less plugs, less separate boxes
- Simple Windows software application allows programming and actual weld data viewing
- Less parts, less costs and easier maintenance
- Air cooled only, no leak sensitive liquid cooling system



## EFFECTIVE

- Productivity very close to double torch systems but without any of their drawbacks: simple, light and reduced expat support.
- More compact: less wooden skids to support the pipe.
- Lighter than previous version: just 16Kg each head to make it easier for welders.
- Same welding head is used on both sides: no more side specific parts.
- Onboard data-logging with wireless connectivity to download parameters. Logged data include each separate gas flow and pre-heat temperature. GPS and burn through control.
- External root pass with or without copper back-up at more than 120 cm/min, 4.5 to 5mm thickness allowing remove clamp after root.
- Able to manage +/- 3mm high-low operation in slope and bends form maximum flexibility at site.



## FLEXIBLE

- Superfast disconnect and re-connect cabling between tractor and welding shack
- Same welding head can be used for both sides
- Same machine root to cap, same wire and automatic gas mix. No required change of torch accessories between passes.
- Same pay-welder can be used in semi-automatic mode on root pass and mechanized FCAW on fill and cap for tie-in welds
- Any light crawler can be used to handle the 700kg fully equipped welding shack with very limited foot print on tractor platform, or of course as well any heavier equipment
- Any current diesel generator 400V, 3P, 70 KVA at 50Hz (or equivalent 460V at 60Hz) can be used to power the unit

# APC Pipeline Automatic Welding Service

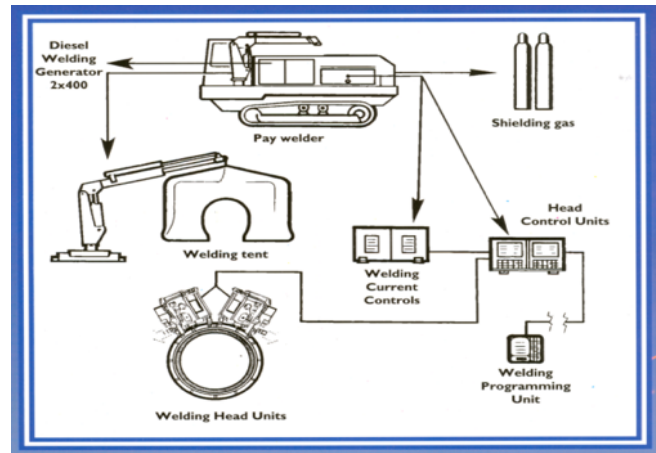
## DWS0.3 GENERAL FEATURES

Welding processes:

- MIG
- Pulsed
- Modified short circuit RMD

## APPLICATIONS

- Any steel normally welded with GMAW process;
- Any pipe diameter > 355mm (14");
- Any thickness > 6mm;
- Solid wire, metal cored or flux cored wire (diameter 0.8-2.0mm);
- All standard and modified bevels.



## SPECIFICATIONS

Welding parameters maximum range:

Current	Max 400 A
Voltage	Max 35 V
Welding Speed	Max 160 cm / min
Wire Feed Speed	Max 16 m / min
Oscillation Speed	Max 3.2 m /min
Oscillation Width	Max 32 mm
Dwell Time	Max 3.2 sec

## EXPERIENCE YOU CAN TRUST

Thousands kilometers of pipeline welded with PWT equipment around the world. In China, APC has supplied the equipment and provided services to Huayou Construction Branch of CPP, Liaohe Oilfield and Chongqing Gas Group for projects such as West-East Oil Pipeline. By utilizing the automatic welding system, we successfully reduced the project timeline as well as overall costs and improve the work efficiency. With more than 10 years of application, it is proved that the equipment is reliable and durable.

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