# WELD MODE ROOT PIPE







# **Experience the Benefits of ROOT PIPE**

The Warrior® Edge 500 DX welding system features a specialized ROOT Pipe WeldMode designed for welding root passes on pipes. ROOT Pipe is optimized for welding vertical down to increase productivity. This mode excels at gap bridging, ensuring consistent fusion while minimizing spatter.

The ROOT Pipe WeldMode uses an enhanced short circuit transfer process with a novel type of adaptive control that delivers consistent and smooth metal transfer for a more stable weld puddle. Improved stability gives the operator better control even when welding at faster travel speeds, plus it suppresses the conditions that lead to the formation of spatter. Even though this WeldMode produces lower heat input for reduced distortion, its gap-bridging ability promotes consistent fusion without excessive reinforcement on the backside of the joint. In addition, there is no need for a voltage sense cable which simplifies set-up and reduces the risk for mistakes.

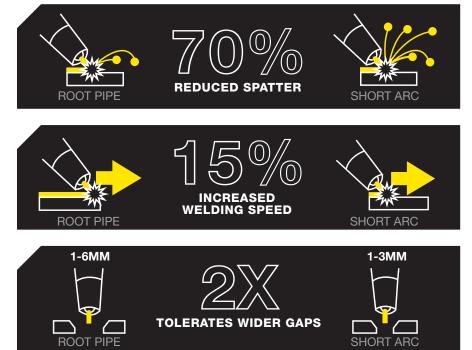
The ROOT Pipe WeldMode helps improve your root welding with these key benefits

- Focused arc that optimizes gap bridging in vertical down applications
- Higher welding speed with maintained quality
- Adapative process providing out of the box performance, reducing need of adjustments.
- Great performance with no need for arc voltage reference cable

With easy to use, advanced WeldModes like ROOT Pipe on Warrior Edge DX, manufacturers and fabricators benefit from optimized productivity, improved quality, and simplified training.

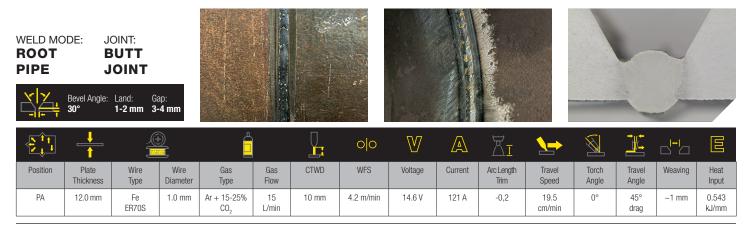
# **FEATURES**

# ROOT PIPE VS SHORT ARC



SMOOTH AND STABLE ARC WITH EASY GAP BRIDGING ABILITY AND EXCELLENT PENETRATION CONTROL

#### **APPLICATION**



WELD MC ROOT PIPE	B	OINT: BUTT OINT					x		1				5		
	Bevel Angle: <b>30°</b>	Land: Ga <b>1-2 mm 3</b> -	ap: <b>-4 mm</b>											-	
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Position	Plate Thickness	Wire Type	Wire Diameter	Gas Type	Gas Flow	CTWD	WFS	Voltage	Current	Arc Length Trim	Travel Speed	Torch Angle	Travel Angle	Weaving	Heat Input
PG	12.0 mm	Fe ER70S	1.0 mm	Ar + 15-25% CO.	15 L/min	5 mm	4.2 m/min	14.6 V	121 A	-0,2	19.5 cm/min	0°	45° drag	~1 mm	0.543 kJ/mm

WELD MC ROOT PIPE	B	OINT: BUTT OINT Land: G. 1-2 mm 3	ар: <b>-4 mm</b>					400					R		
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Position	Plate Thickness	Wire Type	Wire Diameter	Gas Type	Gas Flow	CTWD	WFS	Voltage	Current	Arc Length Trim	Travel Speed	Torch Angle	Travel Angle	Weaving	Heat Input
PE	12.0mm	Fe ER70S	1.0mm	Ar + 15-25% CO <sub>2</sub>	15L/min	10mm	4.2m/min	14.6V	121A	-0,2	19.5cm/min	0°	15° - 20° drag	~1mm	0.543kJ/ mm

# **RECOMMENDED EQUIPMENT**

POV	VER	SOL	JRCE

Warrior Edge 500 DX

# WIRE FEEDER

RobustFeed Edge BX / CX

# TORCH

- EXEOR 4.0<sup>2</sup> W, Conical 14 mm gas nozzle: 0458465882, Contact tip protruding 7mm: 0700025856
- Exeor 3.0G-S air cooled torch optimized for root pass welds

# FILLER METAL

OK Aristorod 12.50, 1.0 mm Purus 42 CF, 1.0 mm





