

Power Wave® AC/DC 1000® SD

Increased productivity, quality and flexibility

Software-driven output delivers maximum control over the deposition rate and penetration in single or multi-arc environments.

Features

- 380-575 VAC, 50/60 Hz Voltage Input – offers the ability to be connected anywhere in the world.
- No hardware reconfiguration required with easy polarity switching – eliminates downtime.
- Easy to parallel machines or run multiple arcs.
- 3-Phase voltage Input – eliminates the imbalance associated with transformer-based AC welding machines.
- 95% power factor correction – enables connection of multiple machines on the same plant infrastructure for lower installation costs.
- Severe duty – can be stored outdoors. IP23 rated.
- ArcLink®, ethernet and DeviceNet™ communication – offers remote process monitoring, control and troubleshooting.
- True Energy™ – measures, calculates and displays instantaneous energy in the weld for critical heat input calculations.
- Production Monitoring™ 2.2 – track equipment usage, store weld data and configure limits to assist in welding efficiency analysis.
- Software based controls – can be upgraded as new features become available.
- iARC™ digital control – 90 times faster than the previous generation, delivering a responsive arc.



Processes
• Submerged arc

Recommended Wire Feeders

- K3048-1 Cruiser™ Tractor
- K3083-1 Tandem Cruiser™
- K2814-1 MAXsa® 10 Controller
- K2370-2 MAXsa® 22 Feed Head

Key Options

- K2444-3 CE Filter (Required option for UE)
- K1811-x Heavy Duty Process Sense Lead - 15/30 m
- K2683-x Heavy Duty ArcLink® Control Cable - 7.5/15/30 m
- K1785-x Control Cable (Heavy Duty) - 3.5/7.5/15 m
- K285 Concentric Flux Cone Assembly
- K231-1 Contact Nozzle Assembly for 2.4, 3.2, 4.0 mm Wire
- K148A Positive Contact Nozzle Assembly for 2.4-3.2 mm Wire
- K148B Positive Contact Nozzle Assembly for 4.0-4.8 mm Wire



Technical Specifications

Product	Item Number	Input Power	Output Range (A)	Rated Output	Input Current @ Rated Output	Weight (kg)	Dimensions HxWxD (mm)
Power Wave® AC/DC 1000® SD	K2803-1*	380/400/460/500/575V/3/50/60	100-1000	1000A/44V/100%	82/79/69/62/55	363	1250 x 488 x 1174

* (1) Filter is required to meet CE conducted emission requirements. The K2444-3 must be used with the K2803-1.

Cruiser® & Tandem Cruiser®

Submerged Arc Welding Tractor

The self-propelled, modular Cruiser™ and Tandem Cruiser™ travel carriages can deliver deposition rates up to 13 kg per arc, per hour for butt and fillet joints on lengthy plate welding applications common in bridge or barge decking, large tank fabrication or shipbuilding.

Features

- Reliable operation – strong, rigid and stiff, especially when you need it most:
 - Sturdy welded base frame.
 - Substantial steel mast stands up to daily construction site use.
 - Simple cast wheels – equipped with high temperature and slip resistant rubber tires.
 - Robust tube and clamp design – trouble-free feeding component mounting.
 - Adjustable extended length outriggers – make it easy to guide tractor movement.
- Advanced control pendant – removable, lightweight, impact resistant aluminium user interface can be used



to save procedures, apply limits and lockouts for any or all controls.

- Multiple configurations – flexible system allows set up with or without a track and three- or four-wheel operation. Tandem model not recommended for three wheel operation.

Technical Specifications

Product	Item Number	Input Power	Rated Output	Travel Speed (m/min)	Gear Box	Wire Feed Speed range (m/min)	Wire Size Range (mm)	Weight (kg)	Dimensions HxWxD (mm)
Cruiser Tractor	K3048-1	40V DC	1000A / 100%	0.25 - 2.5	142:1 95:1 ⁽¹⁾ 57:1 ⁽¹⁾	0.4 - 5.0	2.4 - 5.6	94	736 x 584 x 914
Tandem Cruiser™ Tractor	K3083-1					0.4 - 7.6 1.3 - 12.7	1.6 - 3.2 1.6 - 2.4	136	927 x 1156 x 1054

⁽¹⁾ Optional

Processes
• Submerged arc

Unit Includes

- Conduit Tubing, 1.5 m
 - 4 mm., 600 amps Contact Nozzle Assembly; 4 mm. Contact Tip
 - Nozzle Extension 127 mm
 - Curved Nozzle Extension, 45°
 - Nozzle Extension Insulator
 - Flux Tubing and Hose Clamps
 - Wire Reel Assembly
 - Wheels for Track Operation
 - Front and Rear Outriggers
 - Enclosed Wire Reel (2 for Tandem)
- Note: Does not include a control cable.*

Key Options

- K1733-5 Wire Straightener
- K396 Track Section
- K3070-1 Tiny Twin Kit

