

Cruiser™ and Tandem Cruiser™ Tractors

Processes

Submerged Arc

Product Number

K3048-1 Cruiser™

K3083-1 Tandem Cruiser™

Input Power

40 V DC

Rated Output

1000A at 100% Duty Cycle

Travel Speed in/min (m/min)

10-100 (0.25 – 2.5)

Gearing

Standard: 142:1

Optional: 57:1, 95:1

Wire Feed Speed Range ipm (m/min)

57:1 – 50 – 500 (1.3 – 12.5)

95:1 – 15 – 300 (0.4 – 7.5)

142:1 – 15 – 200 (0.4 – 5.0)

Wire Dia. Range in. (mm) Solid

57:1 – 1/16 – 3/32 (1.6 – 2.4)

95:1 – 1/16 – 3/32 (1.6 – 2.4)

142:1 – 1/16 – 7/32 (1.6 – 5.6)

Weight / Dimensions

See Page 4 for details

Cruiser™ Submerged Arc Welding Tractor

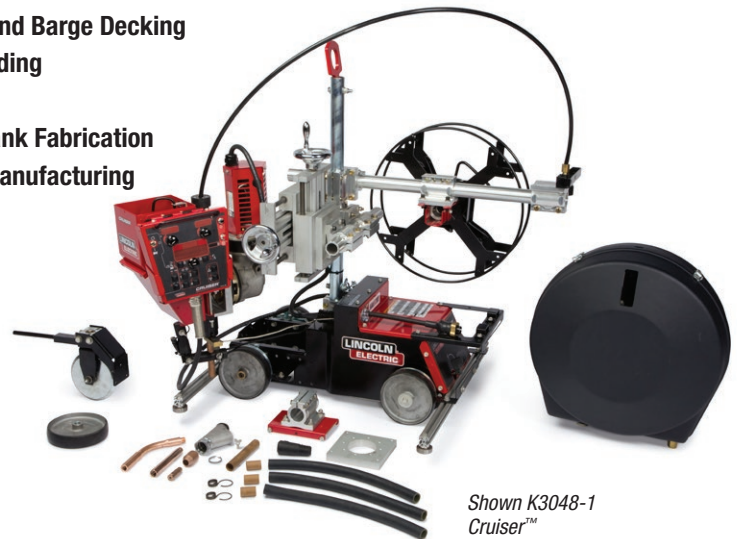
The self propelled, modular Cruiser™ and Tandem Cruiser™ travel carriages, used with the Power Wave® AC/DC 1000® SD power source, can deliver deposition rates up to 30 lbs per arc, per hour for butt and fillet joints on lengthy plate welding applications common in bridge or barge decking, large tank fabrication or shipbuilding.

FEATURES

- ▶ **Reliable Operation** – Strong, rigid and stiff especially where 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 aluminum user interface can be used to save procedures, apply limits and lockouts for any or all controls.
- ▶ **Common Expendable Parts** – All drive rolls, nozzles, contact tips and wire straighteners are shared with the MAXsa™ submerged arc wire drives.
- ▶ **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.

APPLICATIONS

- ▶ Bridge and Barge Decking
- ▶ Shipbuilding
- ▶ Offshore
- ▶ Large Tank Fabrication
- ▶ Heavy Manufacturing



Shown K3048-1 Cruiser™

WHAT'S INCLUDED

- ▶ Conduit Tubing – 5 feet (1.5 m)
- ▶ 5/32 in. 600 Amp Contact Nozzle Assembly
- ▶ 5/32 in. Contact Tip
- ▶ Nozzle Extension – 5 in. (127 mm)
- ▶ Curved Nozzle Extension, 45°
- ▶ Nozzle Extension Insulator
- ▶ Flux Tubing
- ▶ Flux 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.

RECOMMENDED POWER SOURCE

- ▶ Power Wave® AC/DC 1000® SD

INPUT OUTPUT

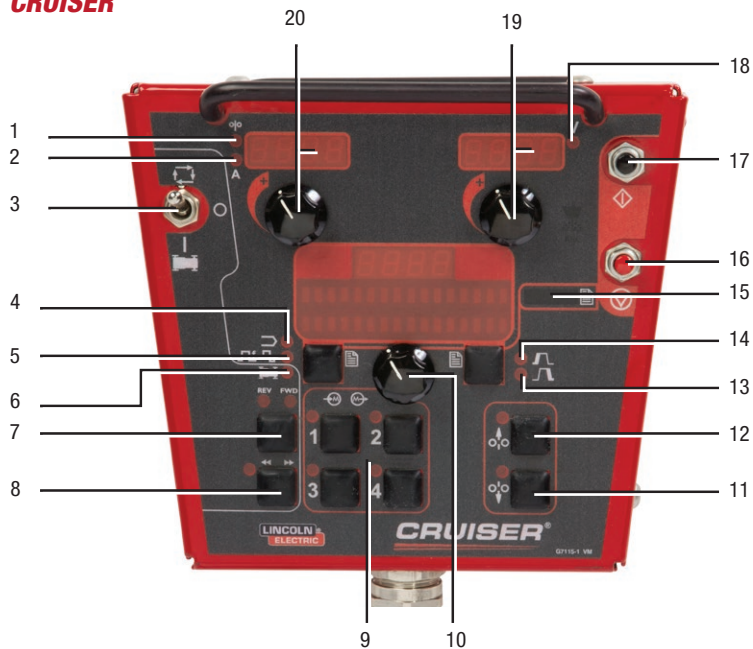


Two Year Extended Warranty Available in the U.S.A. and Canada

IP23 Rated

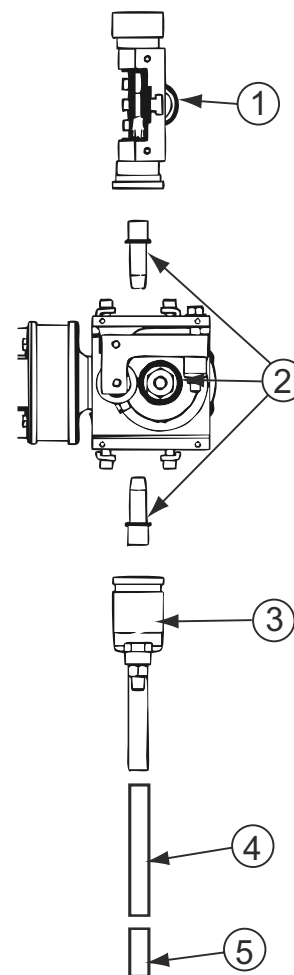
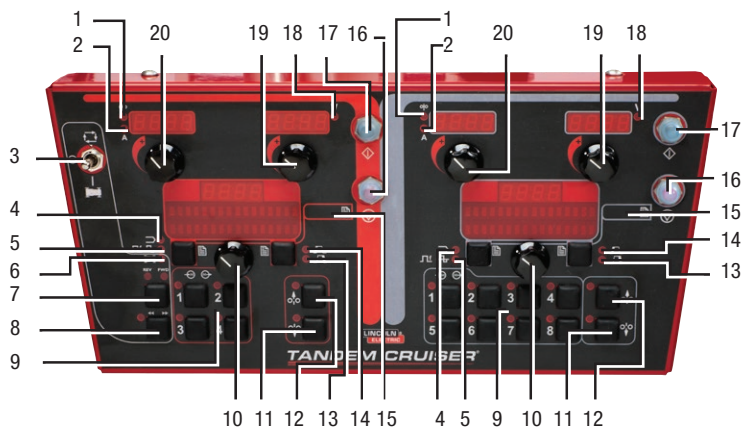


CRUISER™



- | | |
|--|--------------------------------------|
| 1. WFS LED | 11. Inch Down |
| 2. AMPS LED | 12. Inch Up |
| 3. Auto / OFF / Manual Travel Switch | 13. Arc End Options (Right Button) |
| 4. Weld Mode Selection (Left Button) | 14. Arc Start Options (Right Button) |
| 5. Frequency and Balance (Left Button) | 15. Set-Up Menu |
| 6. Travel Menu (Left Button) | 16. Stop Pushbutton |
| 7. Travel Direction | 17. Start Pushbutton |
| 8. Jog | 18. Volts LED |
| 9. Memories | 19. Voltage Display and Control |
| 10. Mode Select Display and Control | 20. WFS/Amps Display and Control |

TANDEM CRUISER™



Item	Product Number	Description
1	K1733-5	Wire Straightener
2	KP1899-1 KP1899-2 KP1899-3 KP1899-4	Drive Roll/Guide Tube Kit - 3/32-7/32 in. Drive Roll/Guide Tube Kit - 1/16, 5/64, 3/32 in. Drive Roll/Guide Tube Kit - .035, .045, .052 in. Drive Roll/Guide Tube Kit - .045, .052 in. Cored
3	K231-1	Contact Nozzle Assembly - 5/64-3/16 in. (2.0-4.8 mm) - Rated up to 600 amps
4	KP2721-1 KP2721-2 T12929 T11807	Nozzle Extension - 5 in. Nozzle Extension - 45° Curved Flux Hose Clamp Nozzle Extension Insulator
5	KP1962-3B1 KP1962-1B1 KP1962-4B1 KP1962-2B1 KP1962-5B1 KP3162-3B1 KP3162-1B1 KP3162-4B1 KP3162-2B1 KP3162-5B1 K148A or K148B K285	Severe Duty Contact Tip - 3/32 in. (2.4 mm) Severe Duty Contact Tip - 1/8 in. (3.2 mm) Severe Duty Contact Tip - 5/32 in. (4.0 mm) Severe Duty Contact Tip - 3/16 in. (4.8 mm) Severe Duty Contact Tip - 7/32 in. (5.6 mm) Extended Life Contact Tips - 3/32 in. (2.4 mm) Extended Life Contact Tips - 1/8 in. (3.2 mm) Extended Life Contact Tips - 5/32 in. (4.0 mm) Extended Life Contact Tips - 3/16 in. (4.8 mm) Extended Life Contact Tips - 7/32 in. (5.6 mm) Positive Contact Nozzle Assembly - Rated up to 1000 amps Concentric Flux Cone Assembly to use with K148A or K148B

K231-1 Nozzles are rated up to 600 amps
K148 Nozzles are rated up to 1000 amps



1



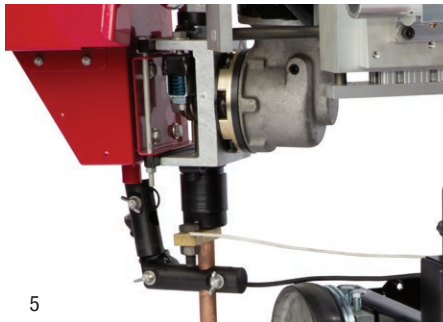
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3



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1. Improved Rigidity and Stiffness

- Base is fabricated from a single weldment.
- Designed to carry weight and maintain a steady track.

2. Heavy Duty Cross Slides

- Ceramic coated rails resist corrosion and wear.
- Minimal deflection results in accurate electrode placement in the joint.

3. New Rugged Wheels

- High temperature rubber wheels on cast aluminum core wheels – Rated to 500° F continuous service.

4. Modified Mast and Boom Clamping System

- Grade 8 bolts resist stripping.
- Improved wrench clearance.

5. Proven Industrial Wire Drive

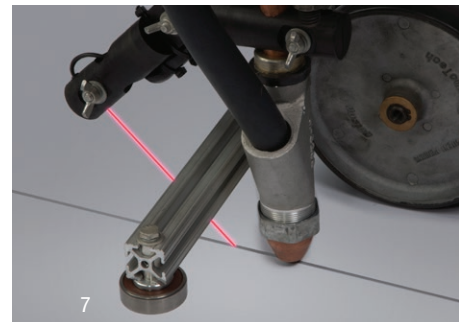
- Feeds up to 7/32 in. (5.6 mm) diameter wire.
- Change gear ratios to extend wire feed speed range.
- Rotate in two directions to set up virtually any torch angle.
- Rated for handling wire at up to 1000 amps at 100% duty cycle.

6. Cable Rack

- Extended rear rack provides positive strain relief for feeder cables.

7. Laser Pointer and Improved Steering

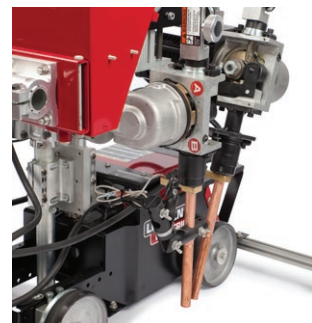
- Switch on and off to help locate joint during set up.
- Extended outriggers with additional adjustment and new guide wheel provide smooth tracking in wider range of applications.



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8. NEW! Tandem Cruiser™

- Carries two wire reels.
- Allows placement of two wires in one arc for greater deposition.



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Shown K3083-1 Tandem Cruiser™


REQUIRED OPTIONS

ArcLink® Control Cables

Available in two forms:

- K1543-xx series for most indoor or factory installations.
- K2683-xx series for outdoor use or when the equipment is frequently moved.

ARCLINK® CONTROL EXTENSION CABLES		
	Description	Order Number
	8 ft. (2.5 m)	K1543-8
	16 ft. (4.8 m)	K1543-16
	25 ft. (7.6 m)	K1543-25
	50 ft. (15.2 m)	K1543-50
	100 ft. (30.4 m)	K1543-100

ARCLINK® CONTROL EXTENSION CABLES		
	Length	Order Number
	25 ft. (7.6 m)	K2683-25
	50 ft. (15.2 m)	K2683-50
	100 ft. (30.5 m)	K2683-100

RECOMMENDED ACCESSORIES

GENERAL OPTIONS



Tube and Clamp Kit

One 30 in. (762 mm) aluminum splined tube; two 15 in. (381 mm) aluminum splined tubes; one 30 in. (762 mm) steel tube; 8 clamp assemblies with keys; 2 outrigger assemblies; hardware.

Order K3090-1



Track Section

Includes: a single section of 70 in. (1.8 m) of track.

Order K396



Butt Joint Guide Kit (Tandem only)

Used to track the joint and guide the Tandem Cruiser™ for plate and decking applications.

Order K3154-1



Cross Slide Assembly

Includes: two slides with 4 in. (102 mm) of travel. (1 cross slide assembly included with each tractor.)

Order K3089-1



50-60 lb Coil Adapter

Adapts 50-60 lb. (22.6-27.2 kg) coil of Lincoln Electric electrode to 2 in. (51 mm) spindle.

Order K1504-1



Tiny Twin Kit for Cruiser™

Includes a second spindle, drive rolls and 95:1 gears.

Order K3070-1



Wire Straightener

Includes: a three roll wire straightener with adjustable pressure. (1 included with each tractor.)

Order K1733-5

PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Power	Rated Output Current/ Duty Cycle	Travel Speed in/min (m/min)	Gearing	Wire Feed Speed Range ipm (m/min)	Wire Size Range in. (mm) Solid	Dimensions H x W x D in. (mm)	Net Weight lbs (kg)
Cruiser™ Tractor	K3048-1	40 VDC	1000A / 100%	10 - 100 (0.25 - 2.5)	142:1	15 - 200 (0.4 - 5.0)	1/16 - 7/32 (1.6 - 5.6)	29 x 23 x 36 (736 x 584 x 914)	207 (94)
					95:1	15 - 300 (0.4 - 7.5)	1/16 - 3/32 (1.6 - 2.4)		
Tandem Cruiser™ Tractor	K3083-1				57:1	50 - 500 (1.3 - 12.5)	1/16 - 3/32 (1.6 - 2.4)	36.5 x 45.5 x 41.5 (927 x 1156 x 1054)	300 (136)

CUSTOMER ASSISTANCE POLICY

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