## Cruiser<sup>™</sup> and Tandem Cruiser<sup>™</sup> Tractors

**Processes** Submerged Arc

**Product Number** K3048-1 Cruiser<sup>™</sup> K3083-1 Tandem Cruiser<sup>™</sup> 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

**APPLICATIONS** 

Shipbuilding

Offshore

Bridge and Barge Decking

Large Tank Fabrication

Heavy Manufacturing

WHAT'S INCLUDED

5/32 in. Contact Tip

Flux Hose Clamps

Wire Reel Assembly

Assembly

Flux Tubina

Conduit Tubing – 5 feet (1.5 m)

5/32 in. 600 Amp Contact Nozzle

Nozzle Extension – 5 in. (127 mm)

Curved Nozzle Extension, 45°

Nozzle Extension Insulator

Wheels for Track Operation

Front and Rear Outriggers

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<sup>™</sup> Submerged Arc Welding Tractor

The self propelled, modular Cruiser<sup>™</sup> and Tandem Cruiser<sup>™</sup> travel carriages, used with the Power Wave<sup>®</sup> AC/DC 1000<sup>®</sup> 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 Troublefree 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<sup>™</sup> 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.

### Enclosed Wire Reel (2 for Tandem) Note: Does not include a control cable.

#### **RECOMMENDED POWER SOURCE**

Power Wave<sup>®</sup> AC/DC 1000<sup>®</sup> SD

INPUT OUTPUT

Shown K3048-1 Cruiser™





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

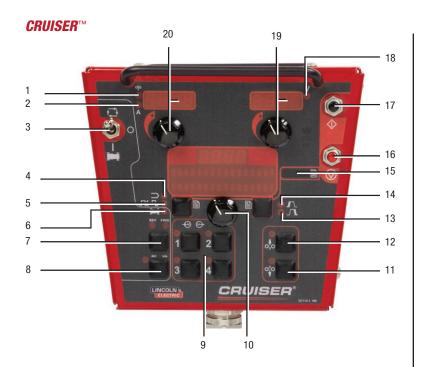
IP23 Rated





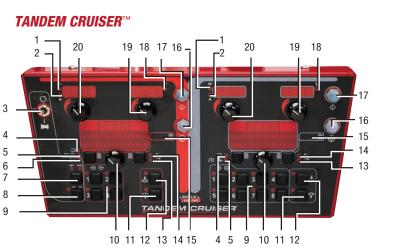
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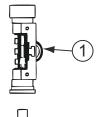
#### **KEY CONTROLS**

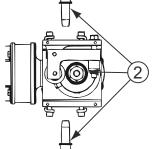


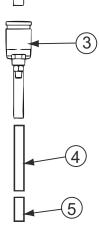
- 1. WFS LED
- 2. AMPS LED
- 3. Auto / OFF / Manual
- **Travel Switch** 4. Weld Mode Selection
- (Left Button) **Frequency and Balance** 5. (Left Button)
- Travel Menú (Left Button) 6.
- 7. **Travel Direction**
- 8. Jog
- 9. Memories
- 10. Mode Select Display and Control

- 11. Inch Down
- Inch Up 12.
- Arc End Options (Right Button)
  Arc Start Options (Right Button)
- Set-Up Menu 15.
- 16. Stop Pushbutton Start Pushbutton
- 17.
- 18. Volts LED
- 19. Voltage Display and
- Control 20. WFS/Amps Display and Control









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 Kit035, .045, .052 in. Drive Roll/Guide Tube Kit045, .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 KP1962-2B1 KP1962-2B1 KP3162-3B1 KP3162-3B1 KP3162-4B1 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 - 3/32 in. (2.4 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 - 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



#### LATEST GENERATION CRUISER™





#### 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

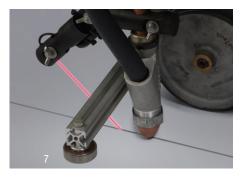
- Switch on and off to help locate joint during set up.
- Extended outriggers with additional adjustment and new guide wheel provide smooth tracking in wider range of applications.

#### 8. NEW! Tandem Cruiser™

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













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#### **REQUIRED OPTIONS**

#### ArcLink<sup>®</sup> 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.

ARC	LINK® CONTROL EXTENSION CA	BLES	ARCLINK <sup>®</sup> CONTROL EXTENSION CABLES			
	Description	Order Number		Length	Order Number	
$\bigcirc$	8 ft. (2.5 m) 16 ft. (4.8 m) 25 ft. (7.6 m) 50 ft. (15.2 m) 100 ft. (30.4 m)	K1543-8 K1543-16 K1543-25 K1543-50 K1543-100		25 ft. (7.6 m) 50 ft. (15.2 m) 100 ft. (30.5 m)	K2683-25 K2683-50 K2683-100	

Track Section

(1.8 m) of track.

#### **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; hardware. Order K3090-1



Order K3090-1 Cross Slide Assembly Includes: two slides with 4 in.

Includes: two slides with 4 in. (102 mm) of travel. (1 cross slide assembly included with each tractor.) Order K3089-1



Wire Straightener Includes: a three roll wire straightener with adjustable pressure. (1 included with each tractor.) Order K1733-5

# BR





(51 mm) spindle.

Order K396 50-60 lb Coil Adapter

Adapts 50-60 lb. (22.6-27.2 kg) coil

of Lincoln Electric electrode to 2 in.

Includes: a single section of 70 in.



Butt Joint Guide Kit (Tandem only) Used to track the joint and guide the Tandem Cruiser<sup>™</sup> for plate and decking applications. Order K3154-1

Nozzle Extension, 45° Frequently used when making horizontal fillet welds. Order KP2721-2

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 Ibs (kg)
Cruiser™ Tractor	K3048-1	40 VDC	1000A / 100%	10 - 100 (0.25 - 2.5)	142:1 95:1	15 - 200 (0.4 - 5.0) 15 - 300	1/16 - 7/32 (1.6 - 5.6) 1/16 - 3/32	29 x 23 x 36 (736 x 584 x 914)	207 (94)
Tandem Cruiser™ Tractor	K3083-1				57:1	(0.4 - 7.5) 50 - 500 (1.3 - 12.5)	(1.6 - 3/32 (1.6 - 2.4) 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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