



## Cutmaster® 60i

### Highest power-to-weight ratio in its class

The Cutmaster® 60i with SL60QD™ 1Torch® is the perfect combination of end-user insight, advanced technology, and intelligent design.

Packed with power and offering the highest power-to-weight ratio in its class, the Cutmaster 60i with SL60QD 1Torch also has best in class cutting arc length and the most empowering and engaging user experience no matter the application. CutmasterMechPakis also available for easy integration into semi-automatic cutting processes.

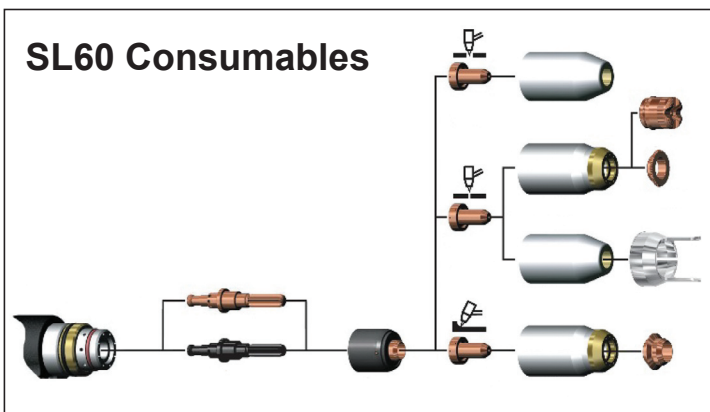


#### Industry

- Agricultural Equipment
- Automotive Bodies
- Construction
- Fabrication
- General Manufacturing
- HVAC
- Repair and Maintenance
- Training Schools

- 50% Duty Cycle at 60A built for portability and durability with the integral multi-handle design
- Industrial SL60QD 1Torch quick disconnect with ATC® (Advanced Torch Connector) allowing selective replacement of either the torch handle assembly or the torch leads, using the patented SureLok® technology
- Up to 20 mm recommended cut capacity with maximum sever of 38 mm and 20 mm pierce capability
- High-visibility, oversized display with gas optimizer technology and consumables end-of-life indicator makes setup and usage simple and productive
- CutmasterBlack Series electrode included for up to 60% longer life of consumable parts
- Industry leading 3-year warranty on power supply and 1-year warranty on torch

#### SL60 Consumables





## Specifications

|   |   |
|---|---|
| Amperage Output                           | 10 –60 A, continuously adjustable   |
| Recommended Generator Size                | 15 kW (full output)   |
| Open Circuit Voltage (OCV)                | 300 V   |
| Input Voltage                             | 400 VAC +/-10%, 50/60 Hz, 3ph   |
| Rated Duty Cycle                          | 50% @ 60 A<br>60% @ 50 A<br>100% @ 40 A   |
| Amperage Draw                             | 13.2 A @ 400 V  |
| Input Power Cable and Plug                | 2.7 m   |
| Work Lead with Ground Clamp               | 6 m #8 work cable with 50 mm connection   |
| Gas Requirements                          | Compressed air  |
| Operating Temperature Range               | 0°-50°C   |
| Operating Input Air Pressure Range        | 6.2 –8.6 bar  |
| Air Flow Requirements (cutting & gouging) | 142 –235 l/min  |
| Recommended Cut                           | 20 mm   |
| Maximum Sever                             | 38 mm   |
| Pierce Rating                             | 20 mm   |
| SL60QD Torch Duty Cycle                   | 100% at 60 A @ 190 l/min  |
| Torches - for use with the Cutmaster60i   | SL60QD 1Torch (supplied)<br>SL60/SL100 1Torch<br>SL100 1Torch Mechanized<br>SL100SLV 1Torch Automated |
| Dimensions L x W x H                      | 536 x 199 x 359 mm  |
| Weight                                    | 16.8 kg   |

## Cutting Specifications

| Plate Thickness | Recommended Cut Speed |
|-----------------|-----------------------|
| 6 mm            | 2030 mm/min           |
| 13 mm           | 660 mm/min            |
| 16 mm           | 480 mm/min            |
| 19 mm           | 360 mm/min            |
| 25 mm           | 150 mm/min            |
| 32 mm           | 110 mm/min            |
| 38 mm           | 110 mm/min            |

## Star International

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## Ordering Information - Systems

| Description                                     | Star product no |
|---|-----------------|
| Cutmaster60i 3ph w. SL60QD 1Torch 6.1 m 75°Head | 00600122        |
| Cutmaster60i 3ph w. SL60QD 1Torch 15.2m 75°Head | 00600123        |
| Cutmaster60i 3ph Power Supply Only              | 00600124        |
| <b>Torches</b>                                  |                 |
| SL60QD Torch and Lead 20' (6.1 m) 75°Head       | 00600125        |
| SL60QD Torch and Lead 50' (15.2 m) 75°Head      | 00600126        |
| SL60QD Torch Handle Assembly75°Head (no leads)  | 00600127        |
| SL60QD Lead 20' (6.1 m)                         | 00600128        |
| SL60QD Lead 50' (15.2 m)                        | 00600129        |
| SL100Mechanized Torch 5' (1.5 m) 180°Body       | 00600130        |
| SL100Mechanized Torch 10' (3.0 m) 180°Body      | 00600131        |
| SL100Mechanized Torch 25' (7.6 m) 180°Body      | 00600132        |
| SL100Mechanized Torch 50' (15.2 m) 180°Body     | 00600133        |

*Packages Include: Cutmaster60i power supply, SL60QD 75°torch with lead, 6.1 m work lead with ground clamp, spare parts kit, operating manual, and filter wrench.*

## Wear & Spare Parts 1Torch

| Description  | Star product no |
|--|-----------------|
| CutmasterBlack Series Extended Life Electrode              | 00600105        |
| Start Cartridge  | 00600107        |
| Standoff Guide   | 00600152        |
| Shield Cup   | 00600109        |
| Shield Cup Max Life  | 00600110        |
| Shield Cap Gouging   | 00600111        |
| Shield Cap (Drag only)                                     | 00600153        |
| Shield Cap Deflector                                       | 00600113        |
| Tip - Drag (60 A)  | 00600154        |
| Tip - Standoff (60 A)                                      | 00600155        |
| Tip - "A" Gouging, (40 A Max), Profile: Shallow/Narrow     | 00600118        |
| Tip - "B" Gouging, (50 –100 A), Profile: Deep/Narrow       | 00600119        |
| Tip - "C" Gouging, (60 –120 A), Profile: Moderate/Moderate | 00600120        |
| Tip - "D" Gouging, (60 –120 A), Profile: Shallow/Wide      | 00600121        |

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## Options & Accessories


| Description                                    | Star product no |
|--|-----------------|
| CutmasterMechPak, 25ft. (7.6 m)                | 00600134        |
| CutmasterMechPak, 50ft. (15.2 m)               | 00600135        |
| CutmasterBlack Series Wear Parts Kit           | 00600136        |
| Cutting Guide Kit (Deluxe)                     | 00600137        |
| Circle Cutting Guide Kit                       | 00600138        |
| Filter Wrench                                  | 00600139        |
| Hand Pendant Extension 25 ft. (7.6 m)          | 00600140        |
| Lead Extension, 15 ft. (4.6 m)                 | 00600141        |
| Lead Extension, 25 ft. (7.6 m)                 | 00600142        |
| Lead Extension, 50 ft. (15.2 m)                | 00600143        |
| Leather Lead Covers 20 ft. (6.1 m)             | 00600144        |
| Multi-Purpose Cart                             | 00600145        |
| Radius/Roller Cutting Guide Kit                | 00600146        |
| Remote Pendant Control 20 ft. (6.1 m)          | 00600147        |
| Single Stage Air Filter Kit                    | 00600148        |
| Straight Line Cutting Guide                    | 00600149        |
| Two Stage Air Filter Kit                       | 00600150        |
| Work Cable #8 with Ground Clamp and 50 mm Plug | 00600151        |

## 1 Torch consumables parts application guide

 **DRAG TIP CUTTING** The preferred method of cutting light gauge metal up to 6 mm thickness. Produces the best cut quality narrowest kerf width, fastest cutting speeds, and with little to no distortion. Traditional drag cutting was limited to 40 A or less; now with Thermal Dynamics TRUE Cut Drag Tip Series™ technology, it is possible to cut up to 60 A. For best results, use the Shield Cup with the torch tip in direct contact with the work (up to 60 A).

 **STANDOFF CUTTING** The preferred method of cutting metal thicker than 6 mm and at current levels above 60 A. Provides maximum visibility and accessibility. Shield cup for 'standoff' cutting (with the torch tip 3 mm to 6 mm from the work piece). Use the shield cup body together with the deflector for extended parts life and improved resistance to reflect heat. This combination provides cutting results similar to the single piece shield cup, as well as easy changeover to gouging or drag shield cutting.

 **DRAG SHIELD CUTTING** This is an operator-friendly method of cutting while maintaining a constant standoff distance. For metal thickness greater than 6 mm, simply drag the shield cap in contact with the work piece. Use the shield cup body with the appropriate drag shield cap matching the current level being used. This method is not recommended for cutting light-gauge sheet metal.

 **GOUGING** A simple method of metal removal by angling the torch to a lead angle of 35°-45°, and using a gouging tip. While maintaining a constant standoff distance, this allows for only a partial penetration into the work, thus removing metal from the surface. The amount of current, travel speed, standoff distance, lead angle, and tip size will determine the amount of material removed and the profile of the gouge. You can use the shield cup body with either the gouging shield cap or the shield deflector. Also, you can use the single piece shield cup.

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