



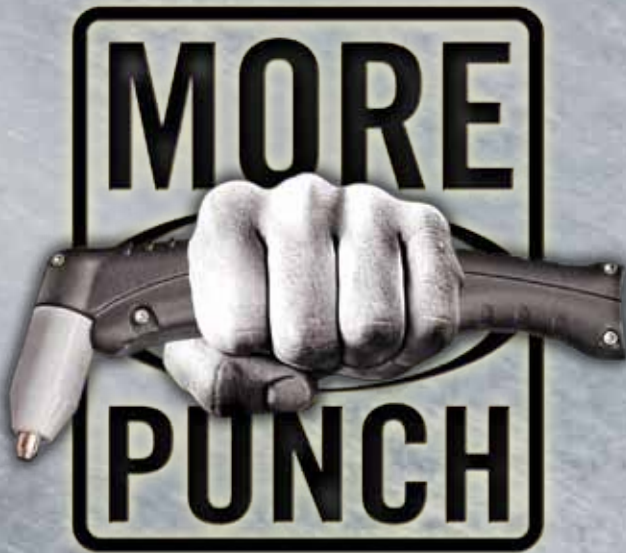
THERMAL DYNAMICS
Professional

TRUE SERIES



THERMAL DYNAMICS
CUTMASTER® TRUE™ SERIES





WHEN YOU NEED IT.

CUTMASTER, Why TRUE?

The CUTMASTER® TRUE™ Series has been designed with the premise that recommended cut capacity should reflect the TRUE cut capacity.

The TRUE Cut Series eliminates the concept of having to purchase a machine larger than you actually need. With the introduction of the CUTMASTER TRUE Series, a 25mm recommended capacity machine will cut 25mm mild steel. **No exceptions.**

Combine all these market leading features into a compact, efficient, portable inverter design with a full range of packaged accessories and you have the ultimate fully featured professional range for construction, mining, shipbuilding, rental hire and other industrial applications.

Thermal Dynamics Professional: When cutting and welding is your business

At Thermadyne we distinguish ourselves from our competition through superior featured, dependable products, technical innovation and excellence in customer service and technical support.

Our TRUE Series Manual Plasma Cutting Inverter range is proof of this commitment to deliver quality equipment that exceeds expectations. A wealth of features and options make this equipment the perfect choice for the serious cutting and welding professional.



1Torch®

with **SURELOK®** Technology

THREE YEAR **3** **WARRANTY**

Truly MORE...

Truth #1
True Confidence

The CUTMASTER®TRUE™ Series microprocessor controlled front panel LED's assure extreme operator confidence and error free use from setup to clean up.

Truth #2
True Strength

The CUTMASTER TRUE Series allows you to work all day at our recommended cut capacity. But when you need that extra punch, you can be confident that it's there.

Truth #3
True Protection

As if a 3 year unlimited power supply warranty wasn't enough, the CUTMASTER TRUE Series is the only line of plasma cutting machines that features TRUE GUARD™ - a rugged roll bar for added durability

Truth #4
True Tip™

The Thermal Dynamics CUTMASTER TRUE Series plasma system offers the only 60 Amp drag cutting tip on the market today.

Truth #5
True Flexibility

The new CUTMASTER TRUE Series features the flexible, patented 1Torch®. There's one set of consumable parts for the entire range of machines, lead extensions provide cutting up to 30.5m from power supply, and the flexibility to move quickly from hand to mechanized cutting with the change of a torch.

Truth #6
True Portability

The CUTMASTER TRUE Series offers lighter, more portable machines without compromising performance.



THERMAL DYNAMICS®

CUTMASTER® TRUE™ SERIES 12+



The all-new THERMAL DYNAMICS® TRUE™ Series CUTMASTER 12 PLUS is one of the most affordable, highest quality 12mm plasma systems on the market. As part of the TRUE Series, you can rely on the CUTMASTER 12 PLUS to cut all day at it's recommended cutting capacity and to pack more punch when you need it.

The CUTMASTER 12 PLUS features the new SL40 torch, based on the proven Surelok® platform which uses smaller consumables for greatly improved arc visibility. This torch also feature Vent2Shield (V2S) technology which recycles wasted vent gas as shield gas, reducing airflow requirements and allowing the use of smaller compressors.



Applications include:

- Auto Body Repair
- Plumbing
- Home Shop
- Metal Stud Construction
- HVAC
- Metal Building & Roofing Construction
- Marine Repair & Rental Fleets



Package includes:

- CUTMASTER 12 PLUS power supply
- All new SL40™ torch
- Safety gloves & glasses
- Consumables set
- Carry bag
- Mains Cable

Max Amperage Output - (Amps)	40 @ 230V 27 @ 110V
Input Power - (KVA)	230V - 5.0 110V - 3.3
Genuine Cut - mm	12 @ 230V 8 @ 110V
Maximum Cut - mm	15 @ 230V 10 @ 110V
Pierce Rating - mm	6
Input Power - (Volts, Phase, Hz)	110-230V/14A 1 Phase, 50/60Hz
Duty Cycle (@40°C)	40% @ 40A,
Dimensions (H x W x L) - mm	228 x 117 x 470
Weight - kg	11.8
Torch Model	SL40
Air Pressure - bar	5.2
Flow - L/m	91
Warranty (Unit/Torch) Parts and Labor	3/1
Certifications	CE, ROHS, IP23C, NTRL/C, CCC, C-TICK

THERMAL DYNAMICS[®]

CUTMASTER[®] TRUE[™] SERIES 12



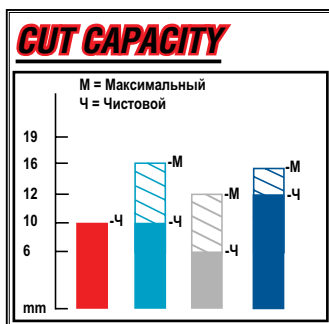
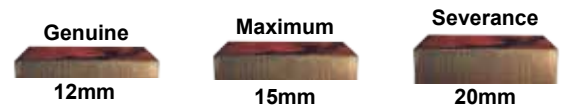
The CUTMASTER 12 provides the same reliability and performance you have come to expect from the CUTMASTER Series. This 40 Amp unit produces quality cuts from the thinnest metals all the way up to maximum cut of 15mm. Unlike some of its competition, the CUTMASTER 12 also offers features like auto pilot restart and ATC[®] torch quick disconnect.

The CUTMASTER 12 is the most durable 12mm plasma cutting machine on the market today. It is the only system in its class to offer the protection of TRUE GUARD[™].



Applications include:

- Construction
- Maintenance/Repair
- Fabrication



Graph Key  Competitor A  Competitor B  Competitor C 



Max Amperage Output - (Amps)	40
Output Power - (Kw)	3.8
Genuine Cut - mm	12
Maximum Cut - mm	15
Severance Cut - mm	20
Pierce Rating - mm	6
Input Power - (Volts, Amps, Phase, Hz)	400V/8A 3 Phase 50/60Hz
Duty Cycle (@40°C)	60% @ 40A
Dimensions (H x W x L) - mm	381 x 305 x 610
Weight - kg	19.5
Torch Model	SL60
Air Pressure - bar	4.8
Flow - L/m	165
Warranty (Unit/Torch) Parts and Labor	3/1
Certifications	CE, ROHS, IP23C, NTRL/C, CCC, C-TICK

THERMAL DYNAMICS

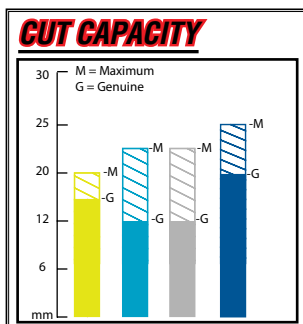
CUTMASTER® TRUE™ SERIES 20

The CUTMASTER 20 manual plasma system is designed to provide excellent cutting and beveling performance on materials up to 20mm thick. This inverter based design operates from a 400V three phase supply and incorporates features such as auto-pilot re-start, True Guard roll bar and the industry renowned SL60 1Torch® for superior durability and consumable life. The unit can also be used for medium duty gouging applications when fitted with the correct torch consumables.

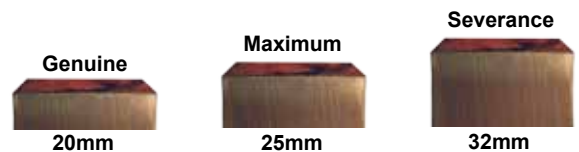
These features combined with a three year limited warranty make this the ideal unit for and fabrication, construction and maintenance applications.

Applications include:

- Construction
- Maintenance/Repair
- Fabrication



Graph Key ■ Competitor A ■ Competitor B ■ Competitor C ■ TD



Max Amperage Output - (Amps)	60
Output Power - (Kw)	6.2
Genuine Cut - mm	20
Maximum Cut - mm	25
Severance Cut - mm	32
Pierce Rating - mm	12
Input Power - (Volts, Amps, Phase, Hz)	400V/16A 3 Phase 50/60Hz
Duty Cycle (@40°C)	40% @ 60A
Dimensions (H x W x L) - mm	381 x 305 x 610
Weight - kg	19.5
Torch Model	SL60
Air Pressure - bar	4.8
Warranty (Unit/Torch) Parts and Labor	3/1
Certifications	CE, ROHS, IP23C, NTRL/C, CCC, C-TICK

THERMAL DYNAMICS®

CUTMASTER® TRUE™ SERIES 25

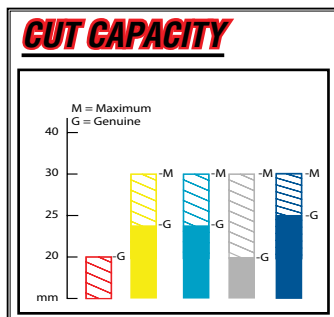
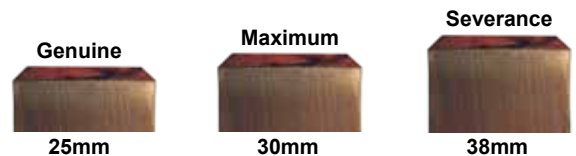
The CUTMASTER 25 manual plasma system is the big brother to the CUTMASTER 20 and is specifically designed to serve the 25mm cutting market whilst maintaining maximum portability. Operating from a 400V three phase supply, the inverter based design incorporates features such as auto-pilot re-start, True Guard roll bar and the industry renowned SL60 1Torch® for superior durability and consumable life. The unit can also be used for gouging applications when fitted with the correct torch consumables.

The unit is covered by a three year limited warranty and is ideal for heavier fabrication, construction and maintenance applications.



Applications include:

- Heavy Fabrication
- Manufacturing
- Contractors



Graph Key

- Competitor A
- Competitor B
- Competitor C
- Competitor D



Max Amperage Output - (Amps)	80
Output Power - (Kw)	9
Genuine Cut - mm	25
Maximum Cut - mm	30
Severance Cut - mm	38
Pierce Rating - mm	15
Input Power - (Volts, Amps, Phase, Hz)	400V/20A 3 Phase 50/60Hz
Duty Cycle (@40°C)	40% @ 80A
Dimensions (H x W x L) - mm	381 x 305 x 610
Weight - kg	19.5
Torch Model	SL60
Air Pressure - bar	5.2
Flow - (l/m)	189
Warranty (Unit/Torch) Parts and Labor	3/1
Certifications	CE, ROHS, IP23C, NTRL/C, CCC, C-TICK

THERMAL DYNAMICS

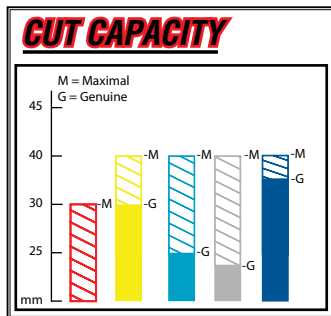
CUTMASTER® TRUE™ SERIES 35

The CUTMASTER 35 manual plasma is a high duty cycle, inverter based system specifically designed for heavy duty applications requiring superior cutting performance. The unit is specifically designed to serve the 35mm market with a high duty cycle of 80% in a 40°C ambient environment. Operating from a 400V three phase supply, the design incorporates features such as auto-pilot re-start, True Guard roll bar and the heavy duty SL100 1Torch® for superior performance. The unit can also be used for heavy duty gouging applications when fitted with the correct torch consumables.

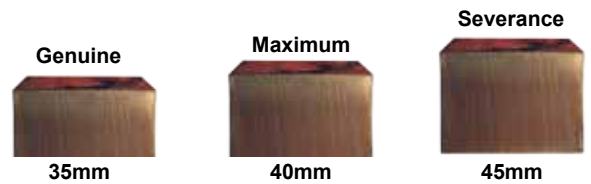
These features combined with a three year limited warranty make this the ideal unit for and heavy duty fabrication, construction and mining applications.

Applications include:

- Heavy Fabrication
- Manufacturing



Graph Key: Competitor A (Red), Competitor B (Yellow), Competitor C (Light Blue), Competitor D (Grey), TD (Dark Blue)



Max Amperage Output - (Amps)	100
Output Power - (Kw)	12
Genuine Cut - mm	35
Maximum Cut - mm	40
Severance Cut - mm	45
Pierce Rating - mm	20
Input Power - (Volts, Amps, Phase, Hz)	400V/27A 3 Phase 50/60Hz
Duty Cycle (@40°C)	80% @ 100A
Dimensions (H x W x L) - mm	381 x 305 x 762
Weight - kg	28.1
Torch Model	SL100
Air Pressure - bar	5.2
Flow - (l/m)	212
Warranty (Unit/Torch) Parts and Labor	3/1
Certifications	CE, ROHS, IP23C, NTRL/C, CCC, C-TICK

THERMAL DYNAMICS[®]

CUTMASTER[®] TRUE[™] SERIES 40

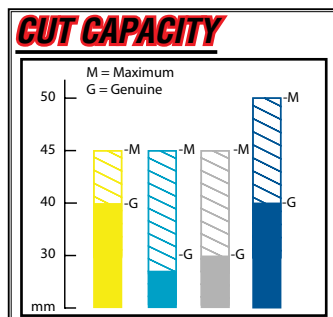
The CUTMASTER 40 is the heavy weight of hand held cutting systems. This unit comes in a compact-light weight package, but don't let that fool you. It offers enough cutting power to cut 50mm material. The heavy duty inverter system is specifically designed for high level applications requiring superior endurance and cutting performance. Operating from a 400V three phase supply, the unit incorporates features such as auto-pilot re-start, True Guard roll bar and the heavy duty SL100 1Torch[®] for superior performance. The unit can also be used for heavy duty gouging, piercing and beveling applications when fitted with the correct torch consumables.

These features combined with a three year limited warranty make this the ideal unit for and heavy duty fabrication, construction and mining applications.

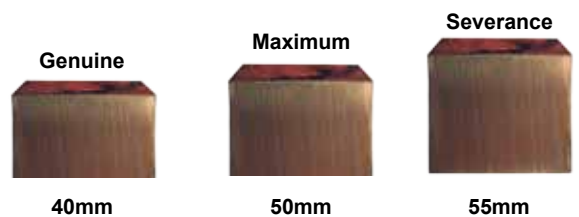


Applications include:

- Heavy Fabrication
- Manufacturing



Graph Key ■ Competitor A ■ Competitor B ■ Competitor C ■ TD



Max Amperage Output - (Amps)	120
Output Power - (Kw)	15.4
Genuine Cut - mm	40
Maximum Cut - mm	50
Severance Cut - mm	55
Pierce Rating - mm	25
Input Power - (Volts, Amps, Phase, Hz)	400V/32A 3 Phase 50/60Hz
Duty Cycle (@40°C)	40% @ 120A
Dimensions (H x W x L) - mm	381 x 305 x 762
Weight - kg	28.1
Torch Model	SL100
Air Pressure - bar	5.2
Flow - (l/m)	212
Warranty (Unit/Torch) Parts and Labor	3/1
Certifications	CE, ROHS, IP23C, NTRL/C, CCC, C-TICK

Superior Performance Features

TRUE GUARD™ roll bar provides easy transportation and protects the front and rear of the power supply for unmatched durability.

Lightweight design improves portability (Reduced nearly 50%).

Color Coded LED's indicate pressure status and setup errors.



All user controls are conveniently located on the front panel.

Trigger latch feature prevents hand fatigue during long cuts. Auto Pilot Restart feature instantly reignites the pilot arc while cutting expanded metals.

Convenient storage compartment for spare and consumable parts



The Industry's only 60 Amp Drag Tip



The 1Torch™ torch performs with virtually all plasma cutting power supplies. The 1Torch is both easy and comfortable to use, benefits from the latest in high performance torch technology giving longer consumable parts life, better cut performance, flexibility, durability and versatility.

Note: Features Apply to 12,20,25,35, and 40 models

1 Torch® Consumable Parts Application Guide

For SL60® and SL100® Manual Cutting and Gouging Operations



Drag Tip Cutting

The preferred method of cutting light gauge metal up to 6mm thickness. Produces the best cut quality, narrowest kerf width, and fastest cutting speeds, and with little to no distortion. Traditional drag cutting was limited to 40 Amps or less, now with Thermal Dynamics TRUE Cut Drag Tip Series™ technology it is possible to cut up to 60 Amps.

For best results use the Shield Cup with the torch tip in direct contact with the work (up to 60 Amps).



Standoff Cutting

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

Gouging Profiles				
	<i>Output Range</i>	<i>Depth</i>	<i>Width</i>	<i>Profile</i>
<i>Tip A</i>	<i>40 Amps (max)</i>	<i>Shallow</i>	<i>Narrow</i>	
<i>Tip B</i>	<i>50 - 100 Amps</i>	<i>Deep</i>	<i>Narrow</i>	
<i>Tip C</i>	<i>60 - 120 Amps</i>	<i>Moderate</i>	<i>Moderate</i>	
<i>Tip D</i>	<i>60 - 120 Amps</i>	<i>Shallow</i>	<i>Wide</i>	

1Torch, a trademark of Thermal Dynamics Corporation, is registered with the U.S. Patent and Trademark Office, and is the subject of trademark registrations and pending applications in numerous other countries. For information on trademark registrations of Thermal Dynamics Corporation, contact the local trademark offices in the countries of interest.



Drag Shield Cutting

This is an operator-friendly method of cutting between 70 to 120 Amps while maintaining a constant standoff distance. For metal thickness greater than 6mm 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 degrees 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.

Accessories

TORCH CUTTING GUIDES / GUIDE KITS

Cutting Guide Kit (Deluxe)

Cat. No. 7-8910

Cuts circles from 54mm to 1054mm with proper cutting attachments.

This kit includes easy add-on attachments to fit most Thermal Dynamics torches for precise straight line, circle cutting and beveling. Includes Carrying Case, Radius/Roller Kit (7-7501), Circle Cutting Guide (7-3291), Magnetic Pivot, Suction Pivot.



Circle Cutting Guide Kit

Cat. No. 7-3291

Cuts 54mm to 705mm circles (using magnetic attachment) when cutting or beveling is required. For use with most Thermal Dynamics torches. Guide shown with optional pivot (7-3148).



Radius / Roller Cutting Guide Kit

Cat. No. 7-7501

This easy-to-use guide cuts circles from 76mm up to 730mm. Maintains a consistent height off the work piece whether you are using the circle cutting attachment for cutting circles or the roller guide feature to improve your straight-line cutting. Both novices and experts will see noticeable improvement in quality, speed, and parts life. Can be used with most Thermal Dynamics torches.



Straight Line Cutting Guide

Cat. No. 7-8911

Introducing a new cutting guide accessory suitable for all hand torches. This versatile, straight line cutter is for hand held systems and it cuts vertical, 90° or bevel cuts. Its consistent standoff improves cut quality and maximizes overall performance. Produces more efficient straight line cuts.

Lightweight, minimum set up time, and no power required. Magnetic mounts ensure placement and ease of use. Optional suction plates available for non-magnetic applications (i.e. aluminum and stainless steel). The Cutting Guide Kit includes: 1.2m standard rail Torch Holder and Bushing Heavy Duty Magnets (2ea.) Slide Assembly Wheels and Fasteners. Optional 1.2m extensions (7-7971) available.



CUTMASTER® TRUE Standoff Cutting Guides

Cat. No. 9-8281 (CUTMASTER 12,20,25,35,and40)

New standoff guides designed to fit the SL60 and SL100 torches specific to the CUTMASTER TRUE™ Series systems. The standoff is preset.



MISCELLANEOUS TORCH ACCESSORIES

Leather Leads Cover

4.6m 9-1258

6.1m 9-1260

7.6m 9-1270

15.2m 9-1280

These leads covers are suitable for both 1Torch® and SureLok® leads.

Snaps make it easy to install. For wider torches, consider snapping two covers together width wise.



Trigger Guard Guides

1Torch (SL60 and SL100)

Cat. No. 9-8420 - Short Trigger Guard

The guard offers additional protection from accidental activation or damage to the torch switch.



Remote Pendant Control

Cat. No. 7-3460 - 6.1m

Remote Pendant Control for your mechanized application.



Hand Pendant Extension

Cat. No. 7-7744 - 7.6m

ATC® Lead Extensions

4.6m 7-7544

7.6m 7-7545

15.2m 7-7552

Available for any system using 1Torch with ATC Quick Disconnect. Leads Extensions enable you to customize your lead length to suit the cutting job.



AIR FILTER / AIR FILTER KITS

For improved consumable parts life and overall performance, Thermal Dynamics recommends Air Filter Kits be used on all plasma cutting systems.

Single Stage Air Filter Kit

Cat. No. 7-7507 (Filter Body 9-7740,

Hose 9-7742, Filter Element 9-7741)

For use with shop compressed air systems, this in-line filter will not allow moisture or water to pass through the filter element even if it becomes completely saturated. This hi-tech filter element actually blocks the absorption of water to increase performance and improve consumable parts life.



PORTABLE GEAR



Multi-Purpose Cart

Cat. No. 7-8888

Designed for most portable manual cutting systems such as the PakMaster or CUTMASTER®, or any similar sized systems. This rugged steel cart has easy rolling 203m diameter wheels along with 76mm front mounted casters. This cart also serves as an excellent showroom display stand.



Ordering Information

Product Description	Catalog No.	Torch Leads Package	Catalog No.
 <p>Thermal Dynamics CUTMASTER TRUE SERIES 12+</p> <p>CUTMASTER® 12 PLUS with SL40® 75° hand torch, 4.5m lead</p>	<p>110V/230V CE</p> <p>1-4200-4</p>	SL40 4.5m Torch/Leads	7-0040
 <p>Thermal Dynamics CUTMASTER TRUE SERIES 12</p> <p>CUTMASTER® 12 with SL60 75° hand torch, 6.1m lead</p> <p>CUTMASTER® 12 with SL60 75° hand torch, 15.2m lead</p>	<p>400V CE</p> <p>1-5130-4</p> <p>1-5131-4</p>	<p>SL60 6.1 m Torch/Leads</p> <p>SL60 15.2m Torch/Leads</p>	<p>7-5204</p> <p>7-5205</p>
 <p>Thermal Dynamics CUTMASTER TRUE SERIES 20</p> <p>CUTMASTER® 20 with SL60 75° hand torch, 6.1m lead</p> <p>CUTMASTER® 20 with SL60 75° hand torch, 15.2m lead</p>	<p>400V CE</p> <p>1-1130-4</p> <p>1-1131-4</p>	<p>SL60 6.1 m Torch/Leads</p> <p>SL60 15.2m Torch/Leads</p>	<p>7-5204</p> <p>7-5205</p>
 <p>Thermal Dynamics CUTMASTER TRUE SERIES 25</p> <p>CUTMASTER® 25 with SL60 75° hand torch, 6.1m lead</p> <p>CUTMASTER® 25 with SL60 75° hand torch, 15.2m lead</p>	<p>400V CE</p> <p>1-1330-4</p> <p>1-1331-4</p>	<p>SL60 6.1 m Torch/Leads</p> <p>SL60 15.2m Torch/Leads</p>	<p>7-5204</p> <p>7-5205</p>
 <p>Thermal Dynamics CUTMASTER TRUE SERIES 35</p> <p>CUTMASTER® 35 with SL100 75° hand torch, 6.1m lead</p> <p>CUTMASTER® 35 with SL100 75° hand torch, 15.2m lead</p>	<p>400V CE</p> <p>1-1730-4</p> <p>1-1731-4</p>	<p>SL100 6.1m Torch/Leads</p> <p>SL100 15.2m Torch/Leads</p>	<p>7-5206</p> <p>7-5208</p>
 <p>Thermal Dynamics CUTMASTER TRUE SERIES 40</p> <p>CUTMASTER® 40 with SL100 75° hand torch, 6.1m lead</p> <p>CUTMASTER® 40 with SL100 75° hand torch, 15.2m lead</p>	<p>400V CE</p> <p>1-1930-4</p> <p>1-1931-4</p>	<p>SL100 6.1m Torch/Leads</p> <p>SL100 15.2m Torch/Leads</p>	<p>7-5206</p> <p>7-5208</p>

TRUE SERIES



Selection Guide - SL60 / SL100



Current Range	Mode Of Operation	Amps	Electrode	Start Cartridge	Tip	Shield Cup	Shield Cup Body	Drag Shield Cap	Deflector	Gouging Shield Cap
20-40 Amps	Drag Tip / Cutting	20A	9-8215	9-8213	9-8205	9-8218	9-8237	9-8237	9-8243	9-8243
		30A			9-8206	9-8218				
		40A			9-8207	9-8218				
50-60 Amps	Standoff Cutting	40A	9-8215	9-8213	9-8208	9-8218	9-8237	9-8237	9-8243	9-8241
		40A			9-8208	9-8218				
		Tip A			9-8225	9-8218				
70-100 Amps	Drag Tip Cutting	60A	9-8215	9-8213	9-8252	9-8218	9-8237	9-8237	9-8243	9-8241
		50-55A			9-8209	9-8218				
		60A			9-8210	9-8218				
		50-55A			9-8209	9-8218				
120 Amps	Standoff Cutting	60A	9-8215	9-8213	9-8210	9-8218	9-8237	9-8237	9-8243	9-8241
		70A			9-8209	9-8218				
		80A			9-8210	9-8218				
		90A-100A			9-8210	9-8218				
70-100 Amps	Drag Shield Cutting	50-55A	9-8215	9-8213	9-8209	9-8218	9-8237	9-8237	9-8243	9-8241
		60A			9-8210	9-8218				
		70A			9-8209	9-8218				
		80A			9-8210	9-8218				
70-100 Amps	Gouging	Tip B	9-8215	9-8213	9-8226	9-8218	9-8237	9-8237	9-8243	9-8241
		Tip C			9-8227	9-8218				
		Tip D			9-8228	9-8218				
		Tip E			9-8228	9-8218				
120 Amps	Standoff Cutting	70A	9-8215	9-8213	9-8231	9-8218	9-8237	9-8237	9-8243	9-8241
		80A			9-8211	9-8218				
		90A-100A			9-8212	9-8218				
70-100 Amps	Drag Shield Cutting	70A	9-8215	9-8213	9-8231	9-8218	9-8237	9-8237	9-8243	9-8241
		80A			9-8211	9-8218				
		90A-100A			9-8212	9-8218				
120 Amps	Gouging	Tip B	9-8215	9-8213	9-8226	9-8218	9-8237	9-8237	9-8243	9-8241
		Tip C			9-8227	9-8218				
		Tip D			9-8228	9-8218				
120 Amps	Standoff Cutting	120A	9-8215	9-8213	9-8253	9-8218	9-8237	9-8237	9-8243	9-8241
		120A			9-8253	9-8218				
		Tip E			9-8254	9-8218				



SureLok™ Electrode Technology

The innovative, patented electrode self-locking mechanism eliminates the need for an installation tool and ensures that the electrode and tip will be in perfect alignment. Both the electrode and tip are stationary which results in a well defined arc and precise cuts. This perfect alignment also means longer tip and electrode life, reducing operating costs.

Precision Engineered Torch Tips

1Torch introduces a completely new tip technology. Each tip is uniquely tuned to optimise cut performance at its rated cutting current. The result is precision gas management, longer consumable parts life and better cut performance across the entire range of 1Torch tips.

Start Cartridge

This unique design allows the pilot arc to start without moving consumable parts, resulting in better parts life & cut performance.

Selection Guide - SL40

DESCRIPTION	CATALOG NO.
Tip, 20A (Drag)	9-0091
Tip, 40A (Drag)	9-0093
Tip, 40A (Standoff)	9-0094
Electrode	9-0096
Start Cartridge	9-0097
Shield Cup	9-0098



Vent2Shield Technology™ (V2S)

A unique feature of the SL40 torch, this is one of the latest enhancements in plasma torch technology. Gas that would normally be vented out of the rear of the shield cup is instead recycled and becomes part of the shield gas, significantly reducing airflow requirements and allowing the plasma system to be used with smaller compressors.





System	Cutmaster 12 PLUS	Cutmaster 12	Cutmaster 20	Cutmaster 25	Cutmaster 35	Cutmaster 40
Model						
Cut Capacity (mm) - Genuine	12 (230V) / 8 (110V)	12	20	25	35	40
Maximum	15 (230V) / 10 (110V)	15	25	30	40	50
Severance	-	20	32	38	45	55
Output Current Amps	40 (230V) / 27 (110V)	40	60	80	100	120
Input Power	230V/14A / 110V/15A 1 Ph 50/60Hz	400V/8A 3 Ph 50/60Hz	400V/16A 3 Ph 50/60Hz	400V/20A 3 Ph 50/60Hz	400V/27A 3 Ph 50/60Hz	400V/32A 3 Ph 50/60Hz
Work Cable - m	4.5	6.1	6.1	6.1	6.1	6.1
Duty Cycle	40% @ 40A	60% @ 40A	40% @ 60A	40% @ 80A	80% @ 100A	40% @ 120A
Dimensions - mm	228 x 117 x 470	381 x 305 x 610	381 x 305 x 610	381 x 305 x 610	381 x 305 x 762	381 x 305 x 762
Weight - kg	11.8	19.5	19.5	19.5	28.1	28.1
Ship Weight - kg	20	26.3	26.3	26.3	34.9	34.9
Torch						
Model	SL-40 Hand	SL60 Hand	SL60 Hand	SL60 Hand	SL100 Hand	SL100 Hand
Lead Length - m	4.5 Manual	6.1 / 15.2 Manual	6.1 / 15.2 Manual	6.1 / 15.2 Manual	6.1 / 15.2 Manual	6.1 / 15.2 Manual
Gas	Air	Air	Air	Air	Air	Air
Gas Pressure - bar	5.2	4.8	4.8	5.2	5.2	5.2
Gas Flow - L/m	91	165	190	190	212	212
Pilot	Start Cartridge	Start Cartridge	Start Cartridge	Start Cartridge	Start Cartridge	Start Cartridge
Control	Hand Torch Switch	Hand Torch Switch or Hand Pendant Control				
Application Information						
Suitable Materials	Aluminum, Stainless Steel, Mild Steel	Aluminum, Stainless Steel, Mild Steel	Aluminum, Stainless Steel, Mild Steel	Aluminum, Stainless Steel, Mild Steel	Aluminum, Stainless Steel, Mild Steel	Aluminum, Stainless Steel, Mild Steel
Typical Applications	HVAC, Home Shop Plumbing, Auto Body Repair	Construction, Maintenance / Repair, Fabrication	Construction, Maintenance / Repair, Fabrication	Heavy Fabrication, Manufacturing	Heavy Fabrication, Manufacturing	Heavy Fabrication, Manufacturing

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Product literature, operating manuals, and service manuals are all available through our distributorships or on our web site. You can also order directly through Customer Service

Service & Repair

Thermal Dynamics products either meet or exceed industry standards, and our torches and power supplies are backed with excellent warranties. With each system or torch, we include an Operating Manual which contains basic troubleshooting and parts replacement procedures. Service Manuals are also available by request to service technicians familiar with high voltage, high power electronics. Service Manuals cover complex troubleshooting procedures and include schematics.

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