

# Dagger 100

KALIBURN Dagger100™ Inverter based Plasma Cutting System offering superior cut quality, marking capability and extended consumable life.

## Features

- Energy efficient Inverter design
- Pierce and production cut .75" (20 mm) mild steel - maximum
- Impulse (patent pending) starting circuit for increased consumable life
- Universal Voltage Input
- CNC interface for easy integration
- Three operating modes – Cutting/Marking/Expanded Metal
- Quick Change Torch leads
- Engineered for Mechanized Cutting applications

## Applications

### Mechanized Cutting

- X-Y Tables (New and Retrofit)
- Robotic Systems
- Track Systems
- Pipe Systems

The Dagger 100 is ideal for upgrading older InnerLogic SR Series and other competitive air plasma systems.

## Standard System Components

- Power Supply
- Machine Torch
- Consumable Spare Parts Kit
- Air Filter



### What sets the Dagger 100 apart from competitors?

With the Dagger 100's capability for cutting and marking we eliminate the need for expensive external marking tools. Also, with our exclusive impulse start design we eliminate high frequency noise while offering increased consumable life vs. contact starting.

## Cut Chart

### MILD STEEL

(ga)	Thickness		Current (amps)	Maximum Cut Speed		Optimal Cut Speed	
	(inches)	(mm)		(ipm)	(mm/min)	(ipm)	(mm/min)
18	.048	1.5	40	550	12970	350	8890
10	.135	4	60	265	6731	215	5588
-	.25	6	80	165	4191	110	2793
-	.5	12	100	81	2057	60	1524
-	.750	20	100	38	965	30	762

### STAINLESS STEEL

(ga)	Thickness		Current (amps)	Maximum Cut Speed		Optimal Cut Speed	
	(inches)	(mm)		(ipm)	(mm/min)	(ipm)	(mm/min)
18	.048	1.5	40	550	13970	335	8509
14	.075	2	40	216	5486	145	3683
-	.25	6	80	156	3962	105	2667
-	.5	12	100	72	1828	52	1321

### ALUMINUM

(ga)	Thickness		Current (amps)	Maximum Cut Speed		Optimal Cut Speed	
	(inches)	(mm)		(ipm)	(mm/min)	(ipm)	(mm/min)
16	.0625	2	40	433	10998	325	8255
-	.125	4	60	340	8636	260	6604
-	.25	6	80	180	4572	115	2921
-	.5	12	100	105	2667	70	1778

### Specifications

Input Voltages	200 – 600 V, 3-PH, 50/60 Hz, CSA 230 – 400 V 3-PH, 50/60 Hz, CE
Input current @ 16kW output	200/208/230/240/400/480/600 V 3-PH: 52/50/45/43/26/22/23
Rated Output Voltage	160 VDC
Duty Cycle @ 40°C (104°F) @ 100 amps	60% @ 200 - 208 V 70% @ 230 - 240 V 80% @ 400 - 600 V
Output for 100% Duty cycle @ 40°C (104°F)	80 A @ 200 - 208 V 85 A @ 230 - 240 V 90 A @ 400 - 600 V
Maximum OCV	300 VDC
Dimensions with handle	23.1" (587 mm) D 12.5" (318 mm) W 18.7" (479 mm) H
Weight with torch	117 lbs (53 kg)
Gas Supply	Clean, dry, oil-free air or nitrogen
Flow Rate	460 scfh; 7.7 cfm (217l/min) at 90 psi (6.2 bar)
Flow Pressure	90 psi flowing
Warranty Period	Full 3-year power supply warranty and a 1-year torch warranty

### Standard Machine Interface

- Plasma Start
- Motion Out
- Marking
- Arc Voltage (torch height control) signal available on rear panel connector with optional voltage divider board

### Ordering Information

	With 25' (7.6 m) torch	With 35' (11.6 m) torch	With 50' (16.6 m) torch
200 - 600 V, 3-PH CSA <sup>1</sup> Mechanized System	980025	980035	980050
230 - 400 V, 3-PH CE Mechanized System	980025-CE	980035-CE	980050-CE

<sup>1</sup> For use in North America, South America and Asia (except China)

[www.burny.com](http://www.burny.com) | [www.kaliburn.net](http://www.kaliburn.net)

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