



ITT

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



DAGGER 100

KALIBURN DAGGER 100™ MECHANIZED PLASMA SYSTEM

FEATURES

- Energy efficient Inverter design
- Pierce and production cut 3/4" (19.05mm) mild steel* - maximum (1/2" or 12.7mm recommended)
- Impulse (patent pending) starting circuit for increased consumable life
- Universal 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
 - Robotic systems
 - Track Systems
 - Pipe Systems

STANDARD SYSTEM COMPONENTS

- Power supply
- Machine torch
- Consumable Spare Parts Kit
- Air Filter

*3/4" cut requires an edge start



3-YEAR POWER SUPPLY WARRANTY

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 (217 l/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.

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 ¹ mechanized system	980025	980035	980050
230 - 400 V, 3-PH CE mechanized system	980025-CE	980035-CE	980050-CE

¹ For use in North America, South America and Asia (except China)

STANDARD MACHINE INTERFACE

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

CUT CHART							
MILD STEEL							
Thickness		Current	Maximum cut speed		Optimal cut speed		
(ga)	(inches)	(mm)	(amps)	(ipm)	(mm/min)	(ipm)	(mm/min)
18	.048	1.3	40	550	13970	350	8890
10	.135	3.4	60	265	6731	215	5588
-	1/4	6.4	80	165	4191	110	2793
-	1/2	12.7	100	81	2057	60	1524
STAINLESS STEEL							
Thickness		Current	Maximum cut speed		Optimal cut speed		
(ga)	(inches)	(mm)	(amps)	(ipm)	(mm/min)	(ipm)	(mm/min)
18	.048	1.3	40	550	13970	335	8509
14	.075	1.9	40	216	5486	145	3683
-	1/4	6.4	80	156	3962	105	2667
-	1/2	12.7	100	72	1828	52	1321
ALUMINUM							
Thickness		Current	Maximum cut speed		Optimal cut speed		
(ga)	(inches)	(mm)	(amps)	(ipm)	(mm/min)	(ipm)	(mm/min)
16	1/16	1.6	40	433	10998	325	8255
-	1/8	3.4	60	340	8636	260	6604
-	1/4	6.4	80	180	4572	115	2921
-	1/2	12.7	100	105	2667	70	1778

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