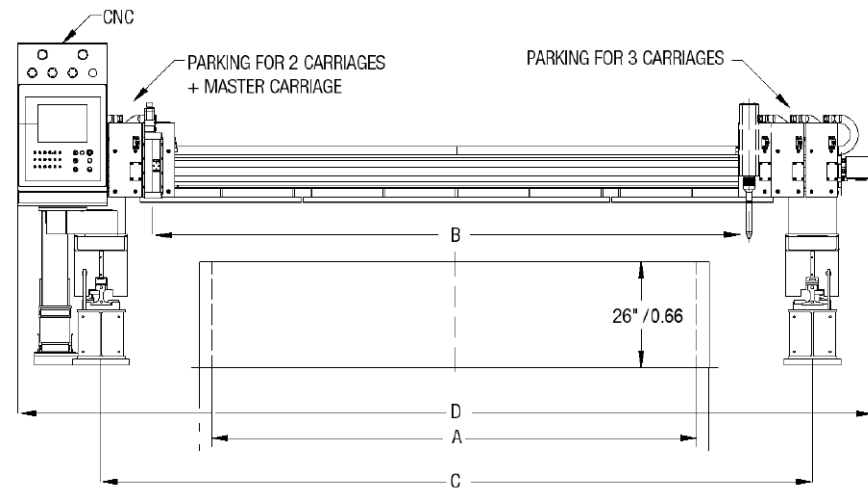


dura-kut
Technical Data



Dimensions in Inches/Meters MODELS	G8	G10	G12	G14	G16	G18
Effective Cutting Width (A)	96 / 2.44	120 / 3.05	144 / 3.66	168 / 4.27	192 / 4.88	216 / 5.49
Maximum Cutting Width 2 Torches (B)	114 / 2.89	138 / 3.50	162 / 4.11	186 / 4.72	210 / 5.33	234 / 5.94
Rail Gauge (C)	152 / 3.86	176 / 4.47	200 / 5.08	224 / 5.69	248 / 6.29	272 / 6.91
Total Machine Width (D)	188 / 4.77	212 / 5.38	236 / 5.99	260 / 6.60	284 / 7.21	308 / 7.82
Effective Cutting Length	160 / 4.06 expandable	160 / 4.06 expandable	160 / 4.06 expandable	160 / 4.06 expandable	160 / 4.06 expandable	160 / 4.06 expandable
Contour Cutting Speed	← 400/10.16 l/m PM →					
Rapid Traverse Speed	← 1000/25.4 l/m PM →					
Maximum Stations/Maximum Plasma (Std. Configuration)	6 / 2	6 / 2	6 / 2	6 / 2	6 / 2	6 / 2

AKS makes ongoing product improvements that may not be noted in this brochure.

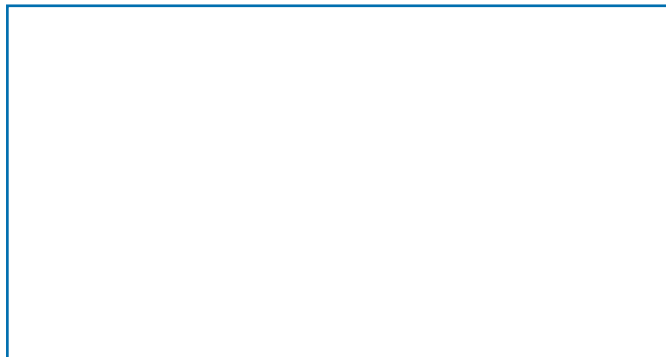
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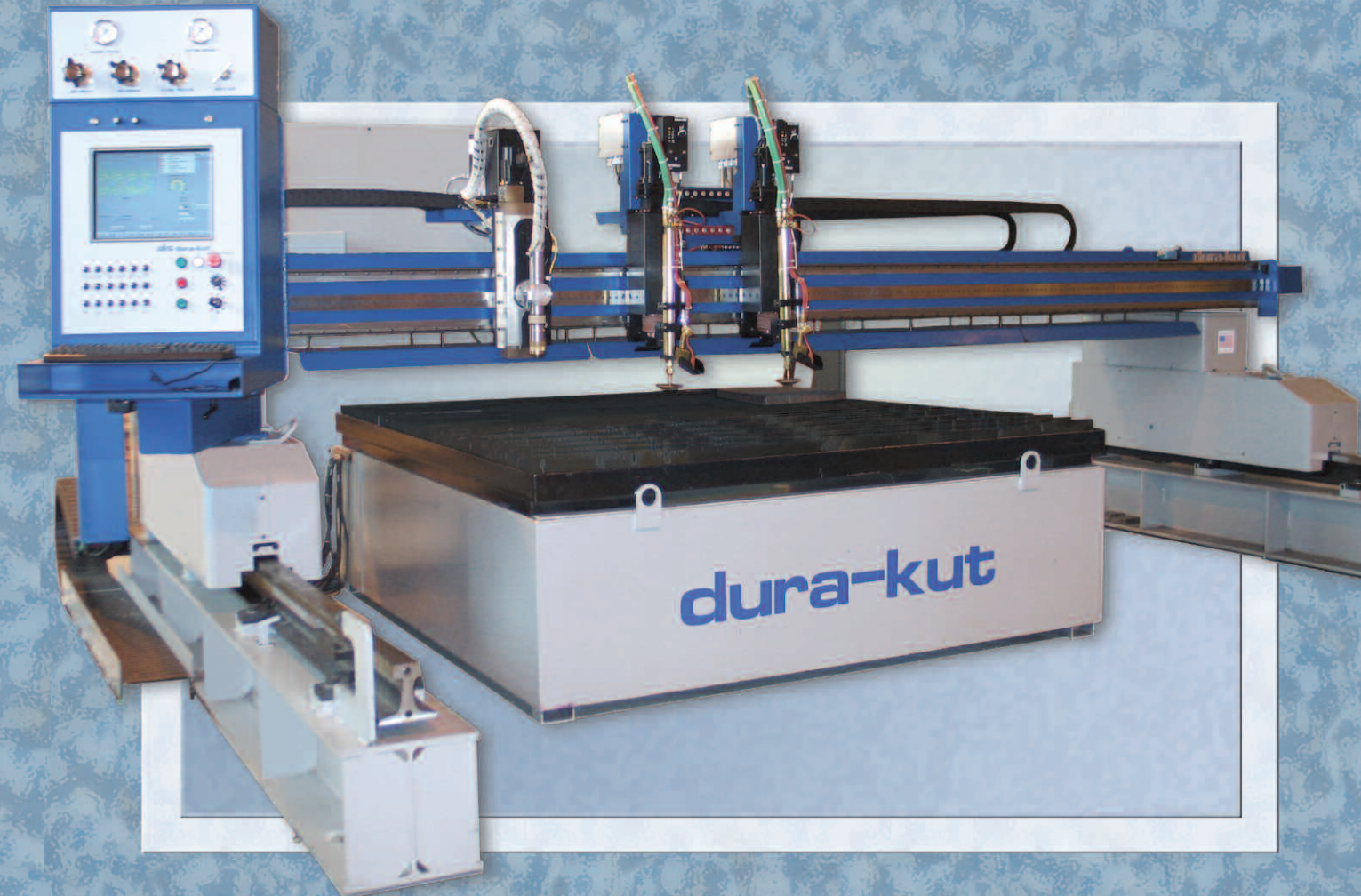
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AKS dura-kut



**Heavy Duty Precision
Gantry Cutting System**
Designed to Machine Tool Standards

Precision Shape Cutting Solutions for the Long Run

AKS dura-kut

Easy To Use Powerful CNC Controller

The AKS CNC uses MicroEDGE technology from Hypertherm Automation.

The MicroEDGE offers a complete controller package with the latest technology features specifically designed for thermal cutting applications. The system is upgradeable to ensure the ability to add new advancements in cutting technology as they are developed.

The MicroEDGE is built into an industrial hardened enclosure that includes a 15" LCD touch screen GUI and industrial torch station and motion jog controls.

Control Software Features

- Easiest to learn and use intuitive touch screen graphic user interface
- Embedded optimum quality process control data basis technology
- Multitasking – prepare for next job while machine is cutting
- Shape library allowing hundreds of variations to be programmed on screen
- Basic import and conversation of dxf files with manual rectangular nesting of parts on screen
- Process information with user defined watch windows including display of speed, position I/O points, consumable life, process data, status messages, etc.
- Dynamic kerf compensation – “kerf-on-the-fly”
- Cut loss recovery with restart, move to pierce and cut path backup
- Integrated torch height control for plasma cutting
- On-line Help function
- Software changes available via the Internet

Advanced hardware platform

- PC-based with Windows XP operating system
- Intel processor, 2.4 GHz or greater
- RAM memory 512 Mbytes
- Opto-isolation
- Floppy drive, keyboard and mouse
- Easy download of cut programs over network connection, memory stick, CD / DVD drive, floppy disc and 5 USB ports
- Controller uses standard commercially available PC boards and components

The AKS dura-kut gantry system is a high quality design which provides a rigid platform with excellent motion characteristics for plasma and oxy-fuel torch systems.

Heavy-duty machined crane rail supported on continuous H-beams add stability and precision to the longitudinal axis motion system.



dura-kut's unique gantry design incorporates a robust, welded and stiffened double beam with low center of mass and high rigidity. Standard features include an air circulating cooling system and heat shields to protect against heat build-up.

Optional Equipment

- Oxy-fuel capacitive height control
- Automatic oxy-fuel station ignition
- Straight bevel cutting station
- Plasma marking station
- Scriber marking station
- Spot drilling station
- Programming and nesting software

Machined end trucks with oversized wheel bearings and long wheelbase provide stability and smooth precise machine motion ensuring the highest cut quality.

dura-kut features all welded, reinforced components with all contact surfaces machined to ensure accurate match-up with mating surfaces.

dura-kut uses the latest technology digitally controlled AC brushless servo drives and motors coupled directly to ultra low precision-planetary gearboxes. Dual Synchronized longitudinal gantry drive system with highest quality rack and pinion provides very smooth and precise motion control.

dura-kut can be configured with multiple processes including:

- Precision or Conventional plasma systems
 - Oxy-Fuel cutting
 - Plasma marking
 - Scriber marking
 - Spot drilling
- Note: 6 stations maximum configuration for all processes
2 station maximum plasma configuration



Torch Systems

AKS dura-kut utilizes Sensor™ THC full featured closed loop servo torch height control system for plasma applications providing significantly increased productivity and profitability.

Gas Control for Oxy-fuel provides: central manifold prepared for up to four oxy-fuel torch carrier assemblies, valves for fuel gas, pre-heat oxygen, cutting oxygen, automatic hole piercing system, high/low preheat unit, Gauges, pressure regulator unit, and Remote control of the gases from the CNC control panel.

Sensor™ OHC (optional) for Oxy-fuel applications provide automatic capacitive height and piercing control.



Transverse drive system utilizes a perforated belt low backlash design to transfer motion to all torch stations. Torch carriers are easily clamped in position using the convenient pneumatic clamping system.

A DualVee™ linear motion guide system which provides unmatched precision and reliability and is more impervious to harsh environments.