

AVIATOR DXD



Unitized or Free-Standing Cutting Tables

Rapid Part and True Hole Technology Optimized

Aviator DXD shown with optional equipment.

The Complete Solution

The **Aviator DXD** from **C&G Systems** is the next generation of precision profile cutting solutions for any job shop or manufacturer. **Aviator DXD** builds on the strong heritage of our **Aviator** platform with many improvements. This new machine incorporates: powerful dual-side servo drive motors, planetary gear boxes, a more robust drive system, **Clean Deck** design, and the latest plasma cutting technology from **Hypertherm**.

The Full Suite

C&G Systems has designed its **DXD** series of machines around **Hypertherm's Rapid Part** and **True Hole Technology** processes. By seamlessly integrating the **Full-Suite** of genuine **Hypertherm** CNC controls, software, torch height controls, and **XD** plasma systems, superior hole quality and significant improvements in productivity are achieved.

Plasma Productivity

Aviator DXD delivers productivity. The **Hypertherm EDGE-Pro** CNC control provides precision motion control for high-speed cutting. The integrated **Hypertherm ArcGlide THC** utilizes **Rapid Part** technology to quickly set pierce heights, intelligently retract the torch to next pierce height with rapid Z-axis motion, pre-flows gases during IHS or during machine motion (up to 1,000 IPM

rapid traverse), and optimizes motions between cuts utilizing **ProNest 2012** software. This typically results in an 80% reduction in cut-to-cut cycle time, and a 50% reduction in overall cycle time (the most significant improvements occur on plate with high part/pierce counts).

Aviator DXD can be equipped with **Hypertherm's HPR-130XD** or **HPR-260XD** plasma systems for production cutting capacity of up to 1 1/4" in steel and 2" in stainless steel and aluminum. For heavier cutting capacity, an oxy-fuel cutting station may be added.

Unitized or Free-Standing Designs

Aviator DXD is available with unitized water or down-draft cutting tables (4'x4', 4'x8', or 6'x12'), or available in 4', 6', and 8' widths up to 28' long for use with free-standing cutting tables.

CAD/CAM Software

C&G Systems provides a variety of professional CAM and nesting software packages from **Hypertherm** to support **True Hole** technology.

Aviator DXD Delivers

Gage metal to heavy plate, **Aviator DXD** delivers full-featured CNC productivity at an affordable price. **Aviator DXD** is the best value in the industry.

Your Best Value in Precision Shape Cutting Systems.

C & G SYSTEMS

Call **C&G Systems** at (847) 816-9700 to consult with a sales representative today, or visit us on the web at www.cgsystems.com.

AVIATOR DXD

Powered by *Hypertherm*®

System Specifications

- Δ Machine Sizes
 - Δ Integrated Water or Down-Draft Cutting Tables
 - Δ 4' x 4' (1.2m x 1.2m), 4' x 8' (1.2m x 2.4m), or 6' x 12' (1.8m x 3.7m)
Effective Nominal Cutting Area
 - Δ Heavy-Duty Construction with 3/16" Slats on 4" Centers
 - Δ Free-Standing Models
 - Δ Available in 4' (1.2m), 6' (1.8m), and 8' (2.4m) Widths
 - Δ Lengths from 4' (1.2m) to 28' (8.5m) Effective Cutting Area
- Δ Tool Station Capacity: 3 (Maximum)
 - Δ 1 Plasma Station
 - Δ 2 Oxy-Fuel Stations
 - Δ 1 Marking Station
- Δ Industrial PC-Based **Hypertherm EDGE-Pro** CNC Controller
 - Δ Integrated **Hypertherm ArcGlide** or **Sensor** Torch Height Control System
 - Δ Easy-To-Use 15" TFT Touch Screen Operation
 - Δ Windows XP Based Operating System
 - Δ 80 GB Hard Drive / 1 GB RAM / 2 USB Ports
- Δ Heavy-Duty Drive System
 - Δ Powerful 400 Watt AC Servo Drives
 - Δ Up To 1,000 IPM (25.4m/min)
 - Δ Heavy Duty Gear Rack with Over-Sized and Hardened Pinions
 - Δ Precision Planetary 10:1 Gear Boxes with <3 arc min. Backlash
 - Δ Enclosed Drive System to Protect Machine During Operation
 - Δ Precision Machined 45# T-Rail
- Δ New **Clean Deck** Design
 - Δ Protects Cables and Hoses During Operation
 - Δ Provides Easy Access for Routine Maintenance and Service
 - Δ Heavy-Duty Power Track on all Axis for Hose and Cable Management
- Δ Plasma Systems
 - Δ **HPR-130XD** or **HPR-260XD** Precision Plasma Systems
 - Δ 100% Duty-Cycle
 - Δ Plasma Station Collision Sensor (Standard)

Optional Equipment

- | | |
|---------------------------------------|--|
| Δ Fiber-Optic or Wireless Network | Δ Exhaust Systems |
| Δ Oxy-Fuel Torch | Δ Dedicated Air Compressors and Dryers |
| Δ Water and Down-Draft Cutting Tables | Δ Advanced Hypertherm Nesting Software Packages |



Aviator DXD Equipped with the **Hypertherm EDGE-Pro** CNC Controller with integrated Height Control System.



Aviator DXD Master Carriage shown with **Hypertherm HPR-260** Plasma Torch, **ArcGlide THC** Lifter, Collision Sensor, and Oxy-Fuel Torch.

As Demanding As You Are.

C & G SYSTEMS

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