

# AVIATOR DSD



## Unitized or Free-Standing Cutting Tables

*Aviator DSD shown with optional equipment.*

### The Complete Solution

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

### Multi-Process

Base machine systems have been pre-configured with conventional or precision plasma systems from 40 amps to 260 amps. Thin gage sheet metal to 1 1/4" plate (32mm), **Aviator DSD** can handle your toughest plasma cutting jobs. For heavy duty cutting capacity, you may add an oxy-fuel cutting station. Plasma marking or pneumatic air scribe may also be added for engraving bend lines or part numbers on plate.

### Plasma Productivity

**Aviator DSD** delivers productivity. The **Hypertherm EDGE-Ti**, **EDGE-Pro**, **Burny 10 LCD+**, or **Thermal Dynamics XT** CNC controls provide precision motion control for both high-speed plasma and oxy-fuel cutting. Arc-off time between parts is extremely short with a rapid traverse speed of 1,000 IPM (25.4m/min.).

The **Hypertherm**, **Inova**, or **Thermal Dynamics** plasma torch height control systems rapidly set pierce height and maintain precise torch to plate distance while cutting. Plasma station collision sensor is standard.

### Unitized or Free-Standing Designs

**Aviator DSD** 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.

### Rapid Set-Up

**Aviator DSD** with unitized frame ships mostly assembled, so installation is quick and easy. The frame is leveled, cross beam set, tool carriage mounted, and the cables routed. You will be cutting parts within hours.

### CAD/CAM Software

**C&G Systems** can provide you with a variety of professional CAD/CAM and nesting software packages to meet the demands of your particular application.

### Aviator DSD Delivers

Gage metal to heavy plate, **Aviator DSD** delivers full-featured CNC productivity at an affordable price. **Aviator DSD** 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](http://www.cgsystems.com).

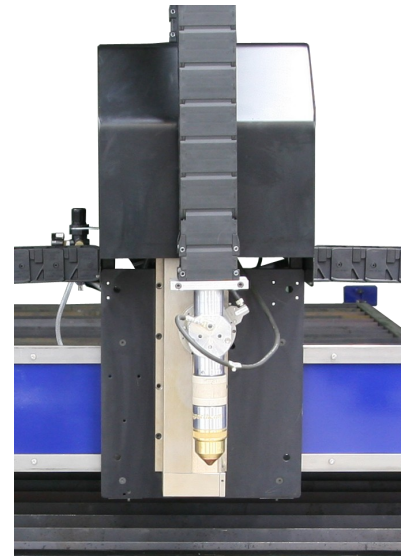
# AVIATOR DSD

## 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-Ti, EDGE-Pro, Burny 10 LCD+, or Thermal Dynamics XT** CNC Controllers
  - Δ Integrated Torch Height Control System
  - Δ Available **Hypertherm, Inova, or Thermal Dynamics** Torch Height Controls
  - Δ Easy-To-Use 15" TFT Touch Screen Operation
  - Δ Windows XP Based Operating System
  - Δ 80 GB Hard Drive / 1 GB RAM / USB Ports
- Δ Heavy-Duty Drive System
  - Δ Powerful 250 Watt brushless DC (**Edge-Ti**) or 400 Watt AC (**Edge-Pro, Burny 10 LCD+, or Thermal Dynamics XT**) 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 Value Priced 40 to 100 Amp Air Cooled Plasma Systems
  - Δ 100 to 260 Amp Water-Cooled, 100% Duty-Cycle Conventional and Precision



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



**Aviator DSD** Master Carriage shown with **Hypertherm HPR-130** Plasma Torch, **Sensor THC** Lifter, and Collision Sensor.

## Optional Equipment

- |                                       |  |
|---------------------------------------|--|
| Δ Air Scribe Plate Marking Station    | Δ Exhaust Systems                                    |
| Δ Fiber-Optic or Wireless Network     | Δ Dedicated Air Compressors and Dryers               |
| Δ Oxy-Fuel Torch                      | Δ Professional CAD/CAM and Nesting Software Packages |
| Δ Water and Down-Draft Cutting Tables |  |

**As Demanding As You Are.**

# C & G SYSTEMS

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