Versatile and Expandable

The Challenger DXD is your best value for high-production precision plasma, as well as heavy duty oxy-fuel cutting applications. A time-proven design featuring sturdy, long-lasting components will boost your production to new levels. The Challenger DXD is available in standard cutting widths of 6’, 8’ or 10’ (1.8m, 2.4m, or 3m). Rail extensions to increase the standard 12’ (3.7m) effective cutting length up to 52’ (15.8m).

The Full Suite

C&G Systems has designed its DXD series of machines around Hypertherm’s Full-Suite of genuine Hypertherm CNC controls, software, torch height controls, and HyperPerformance plasma systems, to achieve superior hole quality and significant improvements in productivity.

Heavy-Duty Construction

The new Challenger DXD series builds on the time tested Challenger platform. The powerful dual-side-drive system rides on precision machined and hardened tongue-in-groove 90# T-Rails and is mounted on 6” x 8” (150mm x 200mm) steel tube pedestals. To ensure a smooth and accurate motion, crowned truck wheels with self-cleaning wipers are used.

Plasma Productivity

Hypertherm CNC and Torch Height Controls provide SureCut™ Technologies including True Hole® and Rapid Part™ processes. Rapid Part™ intelligently retracts the torch to next pierce height with rapid Z-axis motion, pre-flows gases during IHS or during machine motion, and optimizes motion between cuts utilizing ProNest® 2017 software. This typically results in an 80% reduction in cut-to-cut cycle time, and a reduction in overall cycle time of 50% (most significant improvements are achieved on plates with high part/ pierce counts). The Challenger DXD can be equipped with one of Hypertherm’s HPR XD® HyperPerformance plasma systems or the new XPR300™ X-Definition for production cutting capacity of up to 2" steel, 1.75" stainless, and 1.50” aluminum.

Oxy-Fuel Performance

Challenger DXD can be equipped with up to 4 oxy-fuel stations. Heavy-duty high performance components are your guarantee of superior productivity. The optional gas system includes twin sets of high and low pre-heat regulators to produce fast pierce rates and balanced torch flames, even with multiple torches. A domed high-flow oxygen regulator provides adjustable pierce rate control and outstanding flow capacity. The standard torch is designed for cutting plate up to 12” thick.
System Specifications

- Standard Cutting Widths of 6’, 8’ or 10’ (1.8m, 2.4m, or 3m)
- Standard Effective Cutting Length is 12’ (3.7m).
  - Rail Extensions in 4’, 8’, and 16’ (1.2m, 2.4m, and 4.9m) Increments up to 52’ (15.8m) Available.
- Welded Steel Construction
- Standard Heat Shields
- Cutting Station Capacity (5 station Maximum)
  - Up To 2 Plasma Stations
  - Up To 4 Oxy-Fuel Stations
- Dual-Side Drive with 750 Watt AC Servo Motors
  - Up To 600 IPM
  - Precision Heavy-Duty Gear Boxes
- Industrial PC-Based Hypertherm EDGE® Connect CNC Controller
  - Easy-To-Use TFT Touch Screen Operation
  - Windows Based Operating System
  - SS Hard Drive / 1 GB RAM / USB Ports / Networking
- Optimized Process and Torch Height Settings
  - Hypertherm Sensor™ THC
  - Integrated Laser Pointer
- Plasma Systems
  - Hypertherm HPR 130XD®, 260XD®, 400XD® or XPR300™ 100% Duty-Cycle Precision Plasma Systems
  - Hypertherm MaxPro 200® Oxygen Plasma
  - Magnetic Plasma Torch Break-Away (Standard)
- 1.25” Wide Precision Machined and Hardened Ways
- Hardened 90#, Tongue-In-Groove T-Rail System
- New Clean Deck Design
  - Protects Cables and Hoses During Operation
  - Provides Easy Access for Routine Maintenance and Service
  - Heavy-Duty Power Track on all Axis for Hose and Cable Management

Optional Equipment

- Up To 5 Plasma and Oxy-Fuel Cutting Stations
- Air Exhaust or Water Cutting Tables
- Exhaust Systems
- Dedicated Air Compressors & Dryers
- Advanced Professional Nesting Software Packages

As Demanding As You Are.