

RETRO SYSTEMS

Contour Bevel System (CBS)

Description:

The Retro Systems Contour bevel Systems (CBS) creates 360° contour plasma bevel cuts up to ± 45 degrees. Our design can produce any part design without unwinding the leads. **No unwinding - ever.**

We can make A, V, Y, K, X and gradual bevel cuts. Cuts may be made up to 45 degrees on 2" (50 mm) thick mild steel with the Hypertherm HPR400XD plasma cutting system. Rotational axes are configured with AC servomotors, low backlash planetary gearboxes with outputs directly driven from the gearbox - no belts or tie-rods are used. Both axes travel at speeds up to 15 RPM. The RSVS-6 Torch Height Control consists of an AC servomotor, precision ball-screw and Hypertherm **SENSOR** electronics to maintain voltage control. The lifter travels at speeds up to 600 ipm (15,000 mmpm).

The spring loaded through-hole style collision sensor stops machine motion when the torch makes contact with an obstruction and automatically resets to prior position after the obstruction is cleared. The CBS includes a *One-Button* homing and torch alignment calibration system.

Covers protect drive systems from collision damage. Machine code for the CBS is prepared using MTC ProNest The CBS is compatible with True Hole™ technology if cutting non-bevel cuts.

Retro Systems proprietary compensation calculator simplifies the process of defining process compensations.

The CBS is compatible with Retro Systems Cross-Hair Laser alignment tool for easy plate alignment without tool offsets

Benefits:

- Elimination of secondary grinding operations
- Significant labor reduction

Specifications:

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|------------------------------|-------------------|
| • Positioning Speed / Lift | 600 IPM |
| • Positioning Speed / Tilt X | 15 RPM |
| • Positioning Speed / Tilt Y | 15 RPM |
| • Torch Angle Positioning | $\pm 45^\circ$ |
| • Torch Lifter Stroke | 13" (330mm) |
| • Accuracy Height Control | $\pm .005$ inches |

Machine model availability:

- HORNET XD
- SUPER HORNET
- ULTRA HORNET
- MEGA HORNET 2000
- MEGA HORNET 3000
- Retrofit onto competitive machines – contact factory

Plasma system compatibility:

- Hypertherm HPRXD series



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