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GLOBAL ROTATOR INFINITY

COMPOUND SKEW HEAVY-DUTY PLASMA BEVEL UNIT

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Messer Cutting Systems Global Rotator Infinity can accurately cut bevel profiles (non-vertical) on almost any contour. When programmed to cut at bevel angle, the angle offset, compensation and feed rate is controlled by the same NC part programs, while other parameters are input by a database. The system is used to create bevels for weld-preparation surfaces or for active cutting edges like earth engagement tools. Bevel and land edge configurations can be created via multiple passes.

FEATURES AND BENEFITS

- **AC drives for high performance.**
- **Programmable arc current, arc voltage and bevel angle.**
- **Infinite C-axis rotation at a rate of 50 RPM, reduces cut cycle and programming time.**
- **Quick torch focal point adjusts for easy consumable changeover.**
- **Lateral and vertical torch “decoupler” collision detection prevents torch damage in the event of a collision.**
- **Automatic torch height is control by an analog arc voltage with an accuracy of + / - .006 inches so part accuracy is maintained during bevel cutting.**
- **Resultant piece part bevel angles up to + 50° through - 45°.**
- **Corner loops can be less than 0.394 inches (10mm) without requiring torch start / stop commands.**
- **Response time from 0 to 45° is less than two seconds.**
- **Initial height sensing from torch tip contact eliminates offsets and reduces cycle time.**
- **Robust construction and unique compound skew technology allows the unit to be located away from cutting area to minimize potential damage.**

SYSTEM DESCRIPTION

The bevel angle is automatically derived using a combination of A-Axis and C-Axis interpolation by the CNC (unique compound skew technology from Messer Cutting Systems). The C-Axis may be programmed as a positioning axis or a coordinated motion in conjunction with the X/Y linear and circular motion. When operated with X/Y motion, the C-Axis will maintain the bevel position tangent to the direction of travel.

APPLICATION

Available on the MPC2000, MPC2000 MC and TMC4500 DB machine models.



Dual Rotators Infinity

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Featured on a TMC4500 Dual Beam

