

Titan II

Universal Cutting System

- *Advanced Technology*
- *Multiple Processes*
- *Contour Beveling*



MG Systems
Your Productivity Process People®

MESSER 
MG Systems &
Welding, Inc.

CUTTING MACHINES

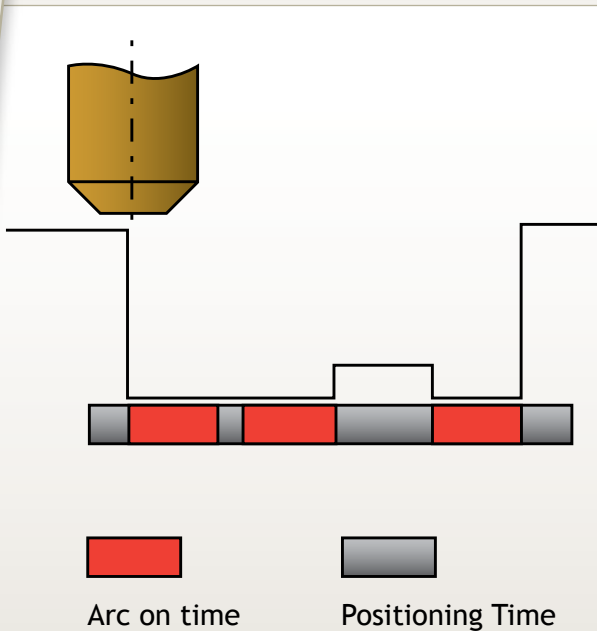
CONTROLS

TABLES

OPTIONS

Titan II

Torch Rase Pattern

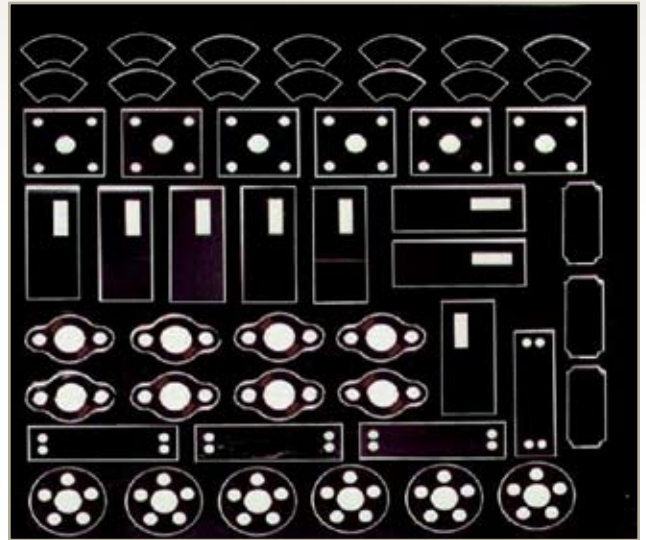


Programmable torch height with fast lifter speeds reduces cycle time.

Optional Features

- Plasma systems (both conventional and precision) from 15-760 amps
- Various marking techniques including: plasma, air scribe, ink jet, pneumatic punch and zinc powder
- Hi-speed, automated oxyfuel
- Rotary rail cleaners with rack air purge
- Zoned exhaust tables, including self-cleaning Slagger
- MG Systems dust collector system
- Programming and nesting software
- Virtual Service™ remote consultation and diagnostics
- Sentry Service preventive maintenance program
- Drilling
- Automatic and programmable torch spacing

The Titan II means productivity



Titan II (time in minutes)



Other plasma machine



This nest of parts was cut from a 4 foot square with a **21% productivity gain.**

Productivity

Torch lifters are fully controllable through the PC-based CNC control. Retract after each cut can be set to various heights - including no raise at all.

Plus

- Single source responsibility
- Application support
- Designed, manufactured and assembled by knowledgeable people that care



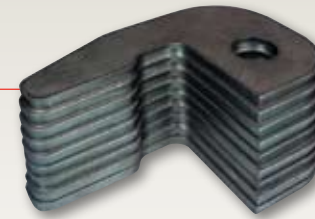
Automated table cleaning using optional Slagger® Blade with slag collection bucket

THE TITAN II CUTTING SYSTEM OFFERS HIGH PRODUCTIVITY

The Titan II is a robust gantry machine that provides consistent performance for conventional plasma, precision plasma, and oxyfuel cutting and for marking applications. Designed for use in a wide variety of industries, the Titan II uses the latest technology to provide versatile cutting capability.

Smooth Accurate Motion Yields High Quality Cut Parts

- Carriages ride on roller packs that glide along a hardened, seamless linear way
- High tensile metallic drive system coupled with an AC digital motor and ultra smooth planetary gearbox ensures smooth, reliable repeatable motion



Excellent cut results

Powerful AC Drives Provide Productivity Through High Acceleration

- Two 1 HP (750 watt) AC digital servo drives in the X-axis
- Ultra smooth planetary gear boxes
- Large 3" diameter pinions
- Consistent pinion engagement pressure for long pinion life
- 90#/yd. machined crane rail for X-axis ways
- Same drive motors for X and Y-axes



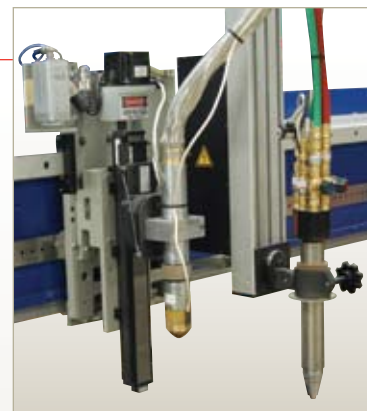
Y-Axis Drive



X-Axis Rail and Pinion

Multiple Processes for Maximum Versatility

- Conventional and precision plasma, oxyfuel, and marking can be implemented in a variety of combinations
- Precision plasma, in conjunction with smooth axes drive systems, creates fine part edge quality



Plasma and ALFA Oxyfuel Torches Shown

Operator Convenience

- Oxyfuel automation using MG's ALFA torch and OmniFlow technology
 - The ALFA torch provides both internal ignition and height control
 - The OmniFlow automates gas and piercing controls
- Automatic Plasma gas control (where available)
- Automatic consumable wear compensation (for plasma)
- 20 home positions for multiple start points
- Lost cut recovery - reposition to any pierce point
- Operator station located left or right side of machine



Verified Motion Performance

Verified to Independent Standards to Assure Performance

Only MG Systems uses the exacting measurement standards of the Machine Tool Industry to ensure motion accuracy and repeatability of the Titan II via laser interferometer to ISO 230-2 Standard.



Standard Titan design features:

- Positioning speeds up to 1000 ipm with acceleration of 31 ips²
- Contouring speeds up to 400 ipm
- Machine motion accuracy; +/- .010" accuracy; .010" repeatability (compensated machine motion in 72")
- Reinforced steel weldment construction with high rigidity beam (less than 0.001" bend and 0.002 degrees of twist)
- Machined mating surfaces and bores (critical tolerances of 0.002" maintained)
- Powertrack in both axes is standard
- Cutting widths from 6' to 14'
- Up to 8 torch stations (maximum 2 plasma stations)
- Up to 3 stations will cover full rated cutting width
- Advanced oxyfuel technology
- High-speed MG Systems programmable lifters (150 ipm oxyfuel, 880 ipm plasma)
- Standard cutting lengths up to 150 feet

Resulting in the Titan II's shop proven performance in rigorous fabrication environments.

CNC CONTROL

Global Control Plus



This professional grade CNC control makes every operator an expert. Incorporates many years of MG Systems worldwide knowledge in a very easy-to-use operator interface using Windows and PC-based CNC

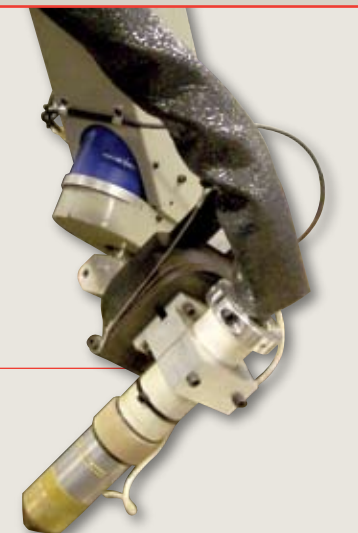
- Embedded process database for plasma and oxyfuel
- 15" TFT color touchscreen
- Fiber-Optic I/O Bus Communication System
- Eight position joystick
- Handwheel/feedrate override
- Standard shapes, nesting, and networking
- Many more features also included



BEVEL CUTTING

Global Rotator Delta

- Rotation of +/- 460° with resultant cut part angles of +/- 45°
- Complete with bevel programming software and training



Titan II

MG SYSTEMS COMMITMENT

Experience

Over 100 years of worldwide experience in the thermal cutting machine industry, combined with our customer-first philosophy, is the foundation for MG Systems' commitment to provide high-productivity solutions for your cutting needs. This commitment is shown in the precision cutting and durability of our machines. As a long-time AMT member, MG Systems builds machines to the exacting standards of the Machine Tool Industry.

Full Line Offerings

Whatever your cutting needs, MG Systems has a complete product line of cutting systems with machine tool quality for thermal machining of metals.

Quality Certification

Your assurance of MG Systems' commitment to superior craftsmanship.

Worldwide Support

Technical support helps our customers get the most productivity from their cutting machines.

Virtual Service™ Remote Diagnostics

It's like having our service department at your side, allowing interactive data communication over an internet line.

Sentry Service PM Support

Our preventive maintenance (PM) program keeps all your MG Systems machines running like new. Ensuring maximum uptime, greater efficiency, and lower operating costs.



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