

APEX 30M MECHANIZED CONTROLLER

MECHANIZED CONTROL WITH A CONVENIENT BUILT-IN WIRE FEEDER



PORTABLE ORBITAL WELDING

The APEX® 30M controllers offer the power of synchronizing amps, volts, travel speed and oscillation combined with powerful wire-feeding performance. Part of the APEX 3 Series platform of control systems, it is designed with the patented MAXTRAC® Wire Drive System, delivering the wire-feeding results you need for maximizing mechanized welding productivity and quality. The APEX 30M controller is engineered primarily for GMAW / FCAW processes, but it can also be configured for GTAW processes. Moving from flat track, plate or other structural beams to an orbital track takes only a simple weld head adjustment.

The APEX 30M suitcase-style controller incorporates a covered area housing, a robotic wire feeder and a spool holder, allowing for quick and easy setup in the shop or in the field. Weighing less than 50 lbs. (23 kg) with a convenient handle on top, it's as mobile as it is functional. Built as part of a digital platform geared towards reducing product obsolescence, the APEX 30M controller is designed for a longer service life as future enhancements to welding technologies become available.

Processes »

MIG, Pulsed MIG,
Flux-Cored, GMAW- STT®

Applications »

Structural, Maritime,
Power Generation, Pipeline,
Process Piping, Construction

Input »



Output »



Product Numbers »

See the next page for
complete specs

FEATURES

- » **Industry-Proven Performance** – Patented MAXTRAC® 4-roll wire drive system delivers powerful and dependable wire feeding.
- » **Best in Class Torque** – Reliable feeding in high-speed applications or long conduit runs.
- » **Precise Speed Control** – High-resolution tachometer for precise forward and reverse wire feed speed control.
- » **Optimized Design** – Complete wire drive and mechanized controller maximizes portability.
- » **Durable and Rugged** – Heavy-duty wire drive system engineered to withstand demanding mechanized applications with hinged cover for extra protection.
- » **Hassle-Free Maintenance** – Toolless design for drive roll, wire guide or pressure arm adjustments.

KEY CONTROLS



At the center of the APEX 30M Controller is the rugged and dependable MAXTRAC® 4-roll wire drive system that delivers industry-proven performance and reliability for even the most demanding welding applications.

- 1. Patented Split Wire Guides**
 - Full support for wire throughout the drive path
 - Minimized feeding problems
 - Removable out wire guide for easy access
 - No tools required
- 2. Patented Dual Spring Pressure Arm**
 - Easy turn numeric tension indicator
 - Set heavy tension for solid steel and stainless steel wire
 - Set moderate tension for cored wires
 - Set soft tension for aluminum wire
 - Wide idler arm hinge delivers improved drive roll clamping pressure
- 3. Twist-Lock Drive Roll Hubs**
 - Four gear-driven rolls
 - Fast, toolless changeovers
- 4. Rigid Cast Aluminum Frame**
 - Enhances precise drive roll alignment
- 5. Separate Drive Gear**
 - Reduces pressure on motor for extended service life
- 6. Patented Drive Rolls**
 - For steel – new design delivers 20% more feeding force
 - For aluminum – chrome-plated to resist build-up



PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Power	Input Current	Output Power	Rated Output Current / Duty Cycle	Wire Feed Speed Range ipm (cm/min)	Wire Spool Size lb. (kg)	Dimensions L x W x H	Net Weight
APEX 30M Controller	K52160-1	40 VDC	10A Max	24 VDC	500A / 60% 450A / 100%	30-1200 (76-3048)	10-33 (4.5 - 15)	14.4 x 11.0 x 25.4 in 366 x 279 x 645 mm	49 [22]

OPTIONS

Description	Wire Size in. (mm)	Product Number
Solid Steel Wire, Smooth V Groove	.023-.030 (0.6-0.8)	KP1505-030S
	.035 (0.9)	KP1505-035S
	.040 (1.0)	KP1505-040S
	.040-.045 (1.0-1.2)	KP1505-045S
	.052 (1.4)	KP1505-052S
	1/16 (1.6)	KP1505-1/16S
Cored Steel Wire, Knurled V Groove	.030-.035 (0.8-0.9)	KP1505-035C
	.040-.045 (1.0-1.2)	KP1505-045C
	.052 (1.4)	KP1505-052C
	1/16 (1.6)	KP1505-1/16C
Cored or Solid Steel Wire, Knurled V Groove	.068-.072 (1.8)	KP1505-068
	5/64 (2.0)	KP1505-5/64
Aluminum Wire, Smooth U Groove	.035 (0.9)	KP1507-035A
	.040 (1.0)	KP1507-040A
	3/64 (1.2)	KP1507-3/64A
	1/16 (1.6)	KP1507-1/16A



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