

PAK and GMD Joint Positioning and Tracking Systems

- Simple and easy to use
- Adapt for use with almost any type of welding joint
- PAK system is for manual joint tracking; GMD system is for automatic joint tracking
- PAK and GMD work equally well with A2 or A6 welding systems
- Motorized servo slides guarantee a reliable and accurate joint tracking
- PAK system available with or without remote control, and can be integrated into a Column and Boom submerged arc welding system
- GMD automatic joint tracking system is designed for use in fillet and butt joints using sensor fingers
- GMD compensates for irregularities in weld joint, tracks simple geometric shapes, and avoids parallax problems



Ordering Information

- GMD system, complete**417 142 880
Includes GMD joint tracking unit, GMD remote control with 3.5 m (11.5 ft) cable, 2 m (6.5 ft) control cable, sensor with finger, and cross saddle and support for sensor
- PAK Control Unit, joy-stick on front panel**.....417 587 880
PAK Control Unit, separate remote control417 587 882

Options & Accessories *

- Sensor with finger**416 688 880
Cross saddle and support for the sensor416 739 880
GMD joint tracking unit.....416 066 880
GMD remote control unit416 065 880
Control cable 2m (6.5 ft).....416 749 887
Control cable with 90 contact 2m (6.5 ft).....416 346 887
Finger with ball416 719 001
Protective rubber boot.....412 013 001
Finger for tube panel.....443 328 880
Finger for beam welding.....443 187 880
Standard finger.....146 586 001
Intermediate transformer148 636 002
Cable for transformer connection (order per m)262 613 404
Submerged arc camera system w/ cooling..... 811 387 880

* Only for GMD models



Technical Data

PAK Control Unit	
Control and operating voltage, VAC	42
Power requirement, VA	460
Enclosure type	IP 23
Max. ambient temperature, °C (°F)	+45 (+113)
Weight, Kg (lbs.)	4.5 (10)
Weight, remote control unit, Kg (lbs.)	2.0 (4.4)
GMD Sensor with Finger	
Sensitivity, mm (in.)	+/- 0.1 (+/- 0.004)
Weight, sensor, Kg (lbs.)	0.6 (1.3)
Cross saddle and support for the sensor	
Cross saddle, setting length, mm (in.)	80 (3.1)
Weight, cross saddle, Kg (lbs.)	1.3 (3.5)
GMD Joint Tracking Unit	
Control and operating voltage, VAC	42
Power requirement, VA	460
Enclosure type	IP 53
Max. ambient temperature, °C (°F)	+45 (+113)
Weight, Kg (lbs.)	2.2 (4.9)
GMD Remote Control Unit	
Positioning speed	High/Low
Weight, Kg (lbs.)	2.0 (4.4)
GMD Accessories	
Finger with ball, length, mm (in.)	100 (3.9)
Intermediate transformer, for separate voltage supply	200/230/440/500V 60 Hz main to 42V secondary

GMD/PAK Joint Tracking System Sales Literature.....XA00068420
GMD Joint Tracking System Instruction Manual443 403 002
PAK Joint Tracking System Instruction Manual443 405 002