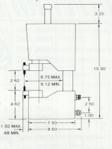
Model VTA-70

Heavy Duty Precision Weld Head



The large, heavy duty Model VTA-70 provides versatility to a line of weld heads already renowned for their precision engineering, rugged durability and proven welding capability. With its great force range and large energy capacity, the VTA-70 head brings Hughes precision electronic welding into an area of application for larger weld configurations. Electrode force ranges from 1 to 50 pounds and 2 to 100 pounds are available; the head is continuously adjustable over these ranges. A vernier adjustment provides exact selection and resetting of welding force. Rugged bearings assure precise, continuous duty operation even at these high force settings with offset electrodes. Other features include simplified setup procedures, complete adjustability, maximum throat depth, and the fast, positive welding action found in all Hughes weld heads. Internal construction is identical to that shown on page 14 with the exception that part sizes have been increased to meet heavy duty requirements.



SPECIFICATIONS . Model VTA-70 Precision heavy duty welding head for larger electronic and electromechanical welding configurations. Throat depth. 6.12 in (155 mm) standard Vertical work opening 2.62 in (66 mm) standard, 6.00 in (152 mm) specify VTA-70-ML Electrode force, continuously adjustable Model VTA-70 2-100 lbs (1-45 kg) Model VTA-70-MA 1-50 lbs (.50-23 kg) Model VTA-70-MB 1-10 lbs (.50-4.5 kg) Maximum weld energy capacity 1000 watt-seconds ... Foot pedal or swing pedal Operation mode (recommended) 25.00 in (635 mm) long, Switch cord . Amphenol 80MC2M attached Equipment included ... One pair .25 in (6 mm) electrodes of RWMA-2 alloy, two No. 1 weld cables 15.00 in (381 mm) long Dimensions (H × W × D) ... 18.25 × 2.5 × 9.5 in (464 × 64 × 241 mm) Weight 40 lb (18 kg) net 45 lb (20 kg) shipping Swing pedal (recommended) or foot Additional equipment required

NOTE: VTA-71 same as VTA-70, but with air actuation (115 V, 50-60 Hz). When ordering VTA-71 specify voltage input, either 115 V or 230 V, 50 or 60 Hz. VTA-70 or VTA-71 available in current divide type; specify VTA-70-CD or VTA-71-CD.

Model VTA-76

Heavy Duty Welding Head, Parallel Gap Series Type

pedal, and welding power supply

This versatile head has been engineered to meet rugged production-oriented requirements. All the outstanding features of the VTA-66 head have been incorporated in this head. To meet heavy duty requirements, it is constructed like the VTA-70. The patented compliant tip assembly allows the electrodes to be in close proximity and ensures nearly vertical incidence, thus preventing electrode skid. Designed for larger work, this rugged design makes possible tast changes of gap setting. Tips conform to irregular work surfaces, head rotates 180° or mounting column. Other features include built-in 3:1 mechanical leverage, positive an antirotation bearing for electrode stability, adjustable work table, mechanical up and down stops and cantilever action in compliant tip assembly for fast flow-up and low inertia.



SPECIFICATIONS • Model VTA-76 6.00 in (152 mm) Throat depth .. Vertical work opening ... Adjustable to 2.00 in (51 mm) standard: 6.00 in (152 mm) available - specify long column Electrode force, continuously adjustable ... 2-100 lb (1-45 kg) Maximum weld energy capacity 1000 watt-seconds Foot pedal or swing pedal (recommended) Operation mode ... Switch cord... 25.00 in (635 mm) long, Amphenol 80MC2M Equipment included One pair .25 in (6 mm) electrodes of RWMA-2 alloy, one pair No. 1 weld cables 15.00 in (381 mm) long Dimensions $(H \times W \times D)$... 18.75 × 2.5 × 7 in (476 × 64 × 178 mm)

NOTE: VTA-77 same as VTA-76, but with air actuation. When ordering VTA-77 specify voltage input, either 115 V or 230 V. 50/60 Hz