

## COLUMN AND BOOM SPECIFICATION DATA SHEET

### **MACHINE INFORMATION**

**Machine type:** Column and Boom Welding Manipulator (MACHINE ONLY EXC. WELDING GEAR)

**Make:** Armco

**Model:** 5.5 x 4.6

**Serial Number:** 80107 (RIF. 96.0161)

**Colour:** Green

**Condition:** Fully refurbished 'as new' (complete rebuild with all new parts)

**Refurbished by:** Spectrum Welding Supplies Ltd

**Year of refurbish:** May – June 2019

**Refurbishing includes:** Fully stripped, new control panel systems, electronics, bearings, paint

### **ELECTRONICS**

**Supply voltage:** 415V

**MAX input current at load pull:** 10 amps

**Vertical boom travel speed:** 2000mm per min (fixed / non-variable)

**Horizontal boom travel speed:** 0 - 2000mm per min (variable potentiometer inverter controlled)

**Controls:** Cable pendant controller + emergency stop on control enclosure

**Up / down / left / right traverse safety features:** Limit switches for all travel motions

**Phase sensor:** If out of phase machine won't work (to protect limit switches) Swap L1 & L2 in plug

**Control panel classification:** Manufactured to BS 7671 18<sup>th</sup> Edition standards

**Certification:** Electrical factory acceptance testing (FAT) document package included

### **MECHANICAL FEATURES**

**MAX load (that can be attached to boom arm):** 400kg @ 400mm (center of gravity)

**Arm mounting:** Holes are drilled and tapped for welding head assembly to be bolted on boom arm

**Base:** Static (NON-TRAVELLING)

**Column movement:** 360° 'lockable' spinning column gyro on base, for moving arm direction

**Bogie safety:** Anti-fall device fitted to up/down bogie, in the event the chains break

**Lifting:** 1 off lifting eye fitted towards the top of the column (SWL lift capacity 15 tonnes)

**Certification:** Mechanical factory acceptance testing (FAT) document package included

### **WEIGHTS**

**Column ONLY:** 3000kg

**Base ONLY:** 4000kg (filled with concrete)

**Column and base combined (assembled together):** 7000kg

**Arm ONLY:** 3000kg

**TOTAL (MACHINE ONLY fully assembled exc. welding gear):** 10,000kg

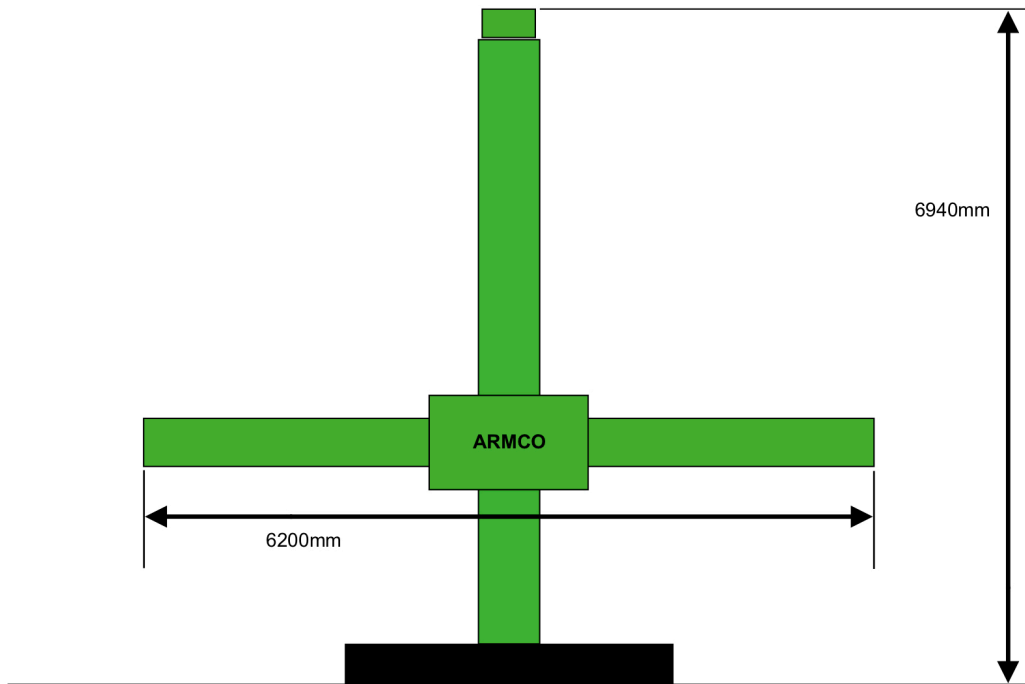
**DIMENSIONS (SEE DRAWING 1.1)**

**Overall height of assembled machine (floor to the top):** 6940mm

**Overall length of the boom arm (end to end):** 6200mm

**Base footprint:** 2400mm x 2200mm x 190mm deep

NOT TO SCALE



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**TRAVEL DISTANCES (SEE DRAWING 1.2)**

**MAXIMUM bogie and boom 'up / down' vertical travel (point A to point B): 5500mm**

**MAXIMUM boom 'left / right' horizontal travel (point A to point B): 4600mm**

**Floor to the underside of boom arm (once fully raised vertically): 5600mm**

NOT TO SCALE

