



COLUMN AND BOOM SPECIFICATION DATA SHEET

MACHINE INFORMATION

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

Make: Spectrum

Model: 7 mtr x 7 mtr with static base (stationary)

Serial Number: SWS/CAB/7X701

Plant Number: SP-000-512

Colour: Red

Condition: Fully refurbished 'as new' (rebuild with new control panel systems)

Refurbished by: Spectrum Welding Supplies Ltd

Year of refurbish: June 2020

Refurbishing includes: Fully stripped, new control panel system inc. wiring diagram, new limit switches, electronics, cabling, bearings, sanded, painted.

STANDARDS:

European Machinery Directive 'Safe use of Machinery' / PUWER 1998

NDT 100% visual weld inspection / machine lifting eyes certified

BS EN 62381:2012 (*Automation systems in the process industry*)

BS EN ISO 13854:2019 (*Safety of machinery. Minimum gaps to avoid crushing human body*).

BS EN 7671 18th Edition (*Requirements for Electrical Installations. IET Wiring Regulations*).

Mechanical and electrical factory acceptance 'PASS' test certificate

ELECTRONICS

Supply voltage: 415V 3-phase (32amp 5-pin plug fitted as standard)

MAX input current at load pull: 12 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 yellow 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 18th Edition standards

MECHANICAL FEATURES

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

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

Base: Static stationary

Column movement: 360° 'lockable' slewing 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: 2 off lifting eyes fitted at the top of the column (load tested)

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DIMENSIONS / WEIGHTS (DRAWING 1.1)

Column ONLY (inc. counter weight): 4000kg

Base ONLY: 3000kg

Column and base combined (assembled together): 7000kg

Arm ONLY: 3000kg

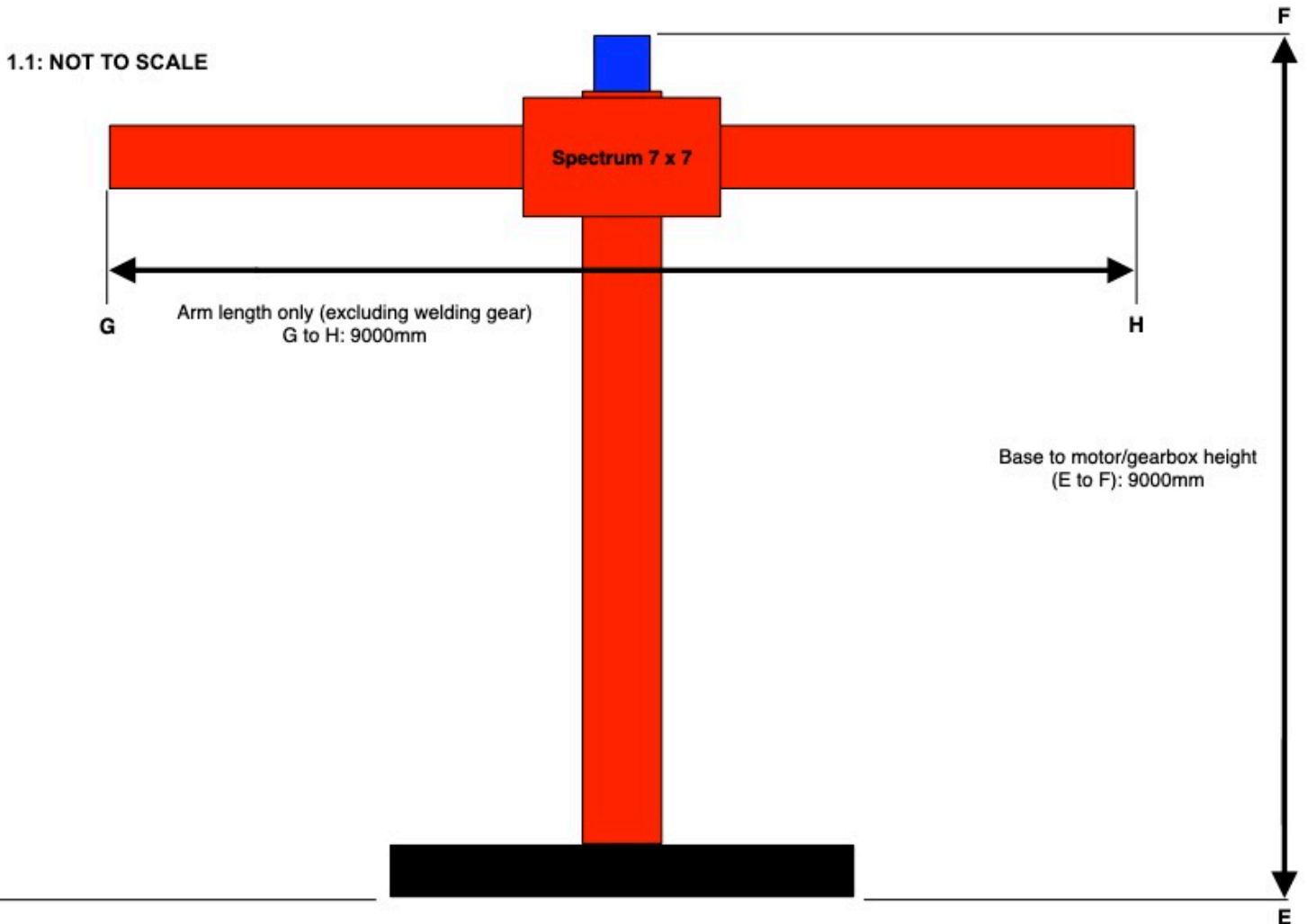
TOTAL (MACHINE ONLY fully assembled exc. welding gear): 10,000kg

DIMENSIONS (SEE DRAWING 1.1)

Overall height of assembled machine (floor to the top): 9000mm

Overall length of the boom arm (end to end): 9000mm (exc. welding head assembly)

Base footprint: 2200mm x 2200mm x 400mm deep



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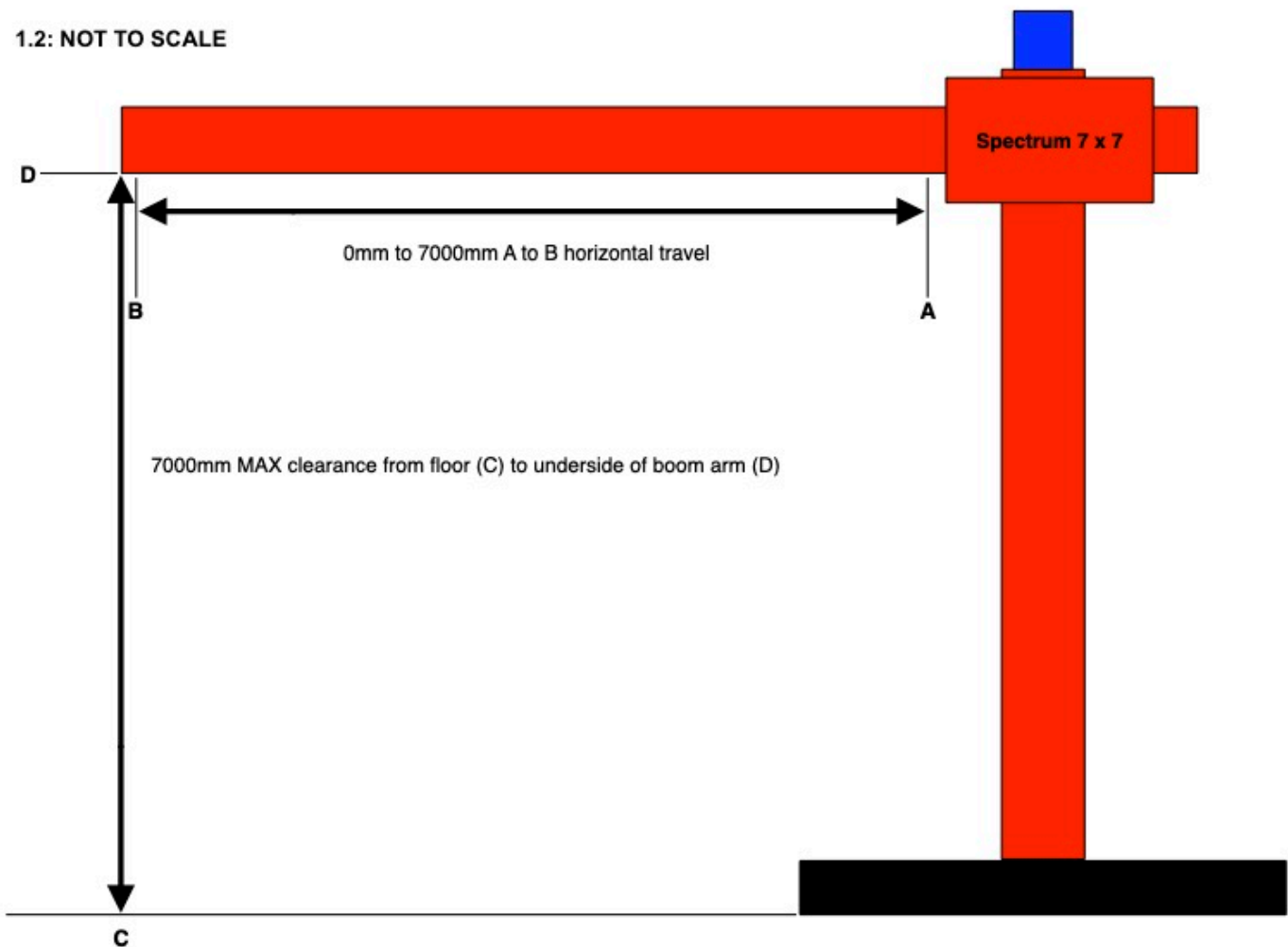
TRAVEL DISTANCES (DRAWING 1.2)

Floor to the underside of boom arm once fully raised vertically (C to D): 7000mm

MAXIMUM boom 'left / right' horizontal travel (point A to point B): 7000mm

From the center of column (middle of the base) to the end of fully extended arm: 8200mm

1.2: NOT TO SCALE



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