

3 X3 COLUMN AND BOOM SPECIFICATION DATA SHEET

MACHINE INFORMATION

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

Make: BODE

Model: 3 x 3 with static base

Serial Number: TBC

Plant Number: SP-000-TBC

Colour: Red (TBC)

Condition: Fully refurbished 'as new' with new AC control panel & force-cooled AC motor / braked

Refurbished by: Spectrum Welding Supplies Ltd

Year of refurbish: TBC (subject to which machine)

Refurbishing includes: Full rebuild, new motors, control panel system, 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)

Column and boom controls: Cable pendant controller + emergency stop on control enclosure

Travelling base controls: Independent variable speed pendant dedicated to travelling base

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

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

MECHANICAL FEATURES

MAX load (that can be attached to boom arm): 200kg @ 400mm (center of gravity)

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

Base: Travelling (but can be positioned and used as a static)

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: 2 off lifting eyes fitted towards the top of the column (SWL lift capacity 10 tonnes)

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

WEIGHTS

Column ONLY (inc. counter weight): 1800kg

Base ONLY: 1300kg

Column and base combined (assembled together): 3000kg

Arm ONLY: 1000kg

TOTAL (MACHINE ONLY fully assembled exc. welding gear): 4,000kg

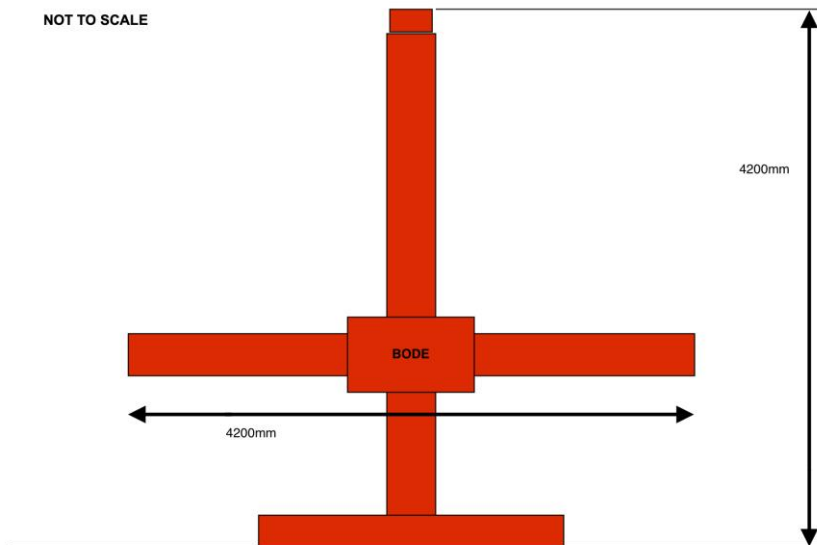
DIMENSIONS (SEE DRAWING 1.1)

Overall height of assembled machine (floor to top): 4100mm (4200 with travelling base wheels)

Overall length of the boom arm (end to end): 4200mm

Centre of column to end of boom arm at full reach left or right (exc. welding gear): 3600mm

Base footprint: 1500mm x 1500mm x 225mm deep (travelling base model 400mm inc. wheels)



TRAVEL DISTANCES (SEE DRAWING 1.2)

MAXIMUM vertical 'UP' travel (floor to underside of arm when fully raised): 3000mm

MINIMUM vertical 'DOWN' travel (floor to underside of arm when fully lowered): 575mm

MAXIMUM horizontal 'left / right' boom travel (point A to point B): 3000mm

Center of the column (middle of the base) to the end of a fully extended boom arm: 3600mm

