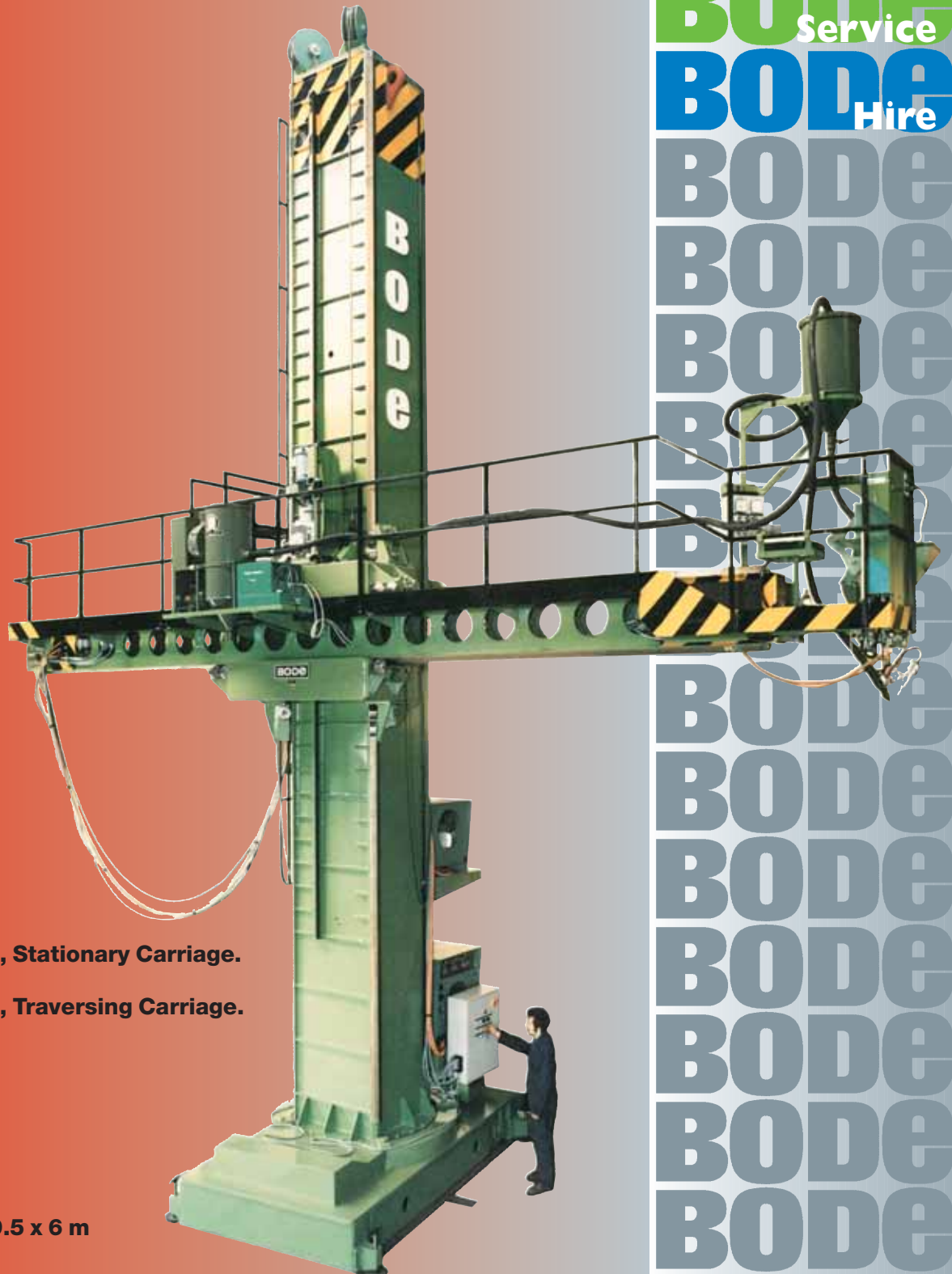


ULTRA HEAVY DUTY AUTOMATIC WELDING HEAD MINIPULATORS



BODE Positioners

BODE Service

BODE Hire

Models:
2/RC/X –
Rotating Column, Stationary Carriage.
2/TRC/X –
Rotating Column, Traversing Carriage.

Model 2/TRC/X 9.5 x 6 m

VERY HEAVY DUTY AUTOMATIC WELDING HEAD MANIPULATORS

Model 2/TRC/X 9.5m x 6m.

Maximum height under boom	: 9500 mm
Maximum arc travel	: 6000 mm
Minimum height under boom	: 1500 mm
Overall height	: 11500 mm

Machine equipped with access ladder, crossover bridge on to walkway fitted total length of boom, welder's platform at end of boom together with operator's seat.

This machine is provided with a very robust fabricated rectangular column 1080 mm x 955 mm, and deep section boom 610 mm x 266 mm, to ensure minimum boom deflection.

The boom saddle incorporates 24 heavy duty rollers for boom and column traverse. Extra rollers are provided to ensure smooth vibrationless travel and minimum deflection.

The machine is equipped with a submerged arc welding head and fully re-circulating flux recovery unit.

The boom incorporates variable speed traverse and also variable speed elevation.

The column has motorised rotation 0.1 r.p.m. through 2 pre-loaded worm reduction boxes which eliminate backlash.

The Manipulator controls are mounted at the end of the boom on the welder's platform and duplicated at the base of the column. An interlocking key switch is provided so that the controls can only be operated from the end of the boom or at the base of the column.

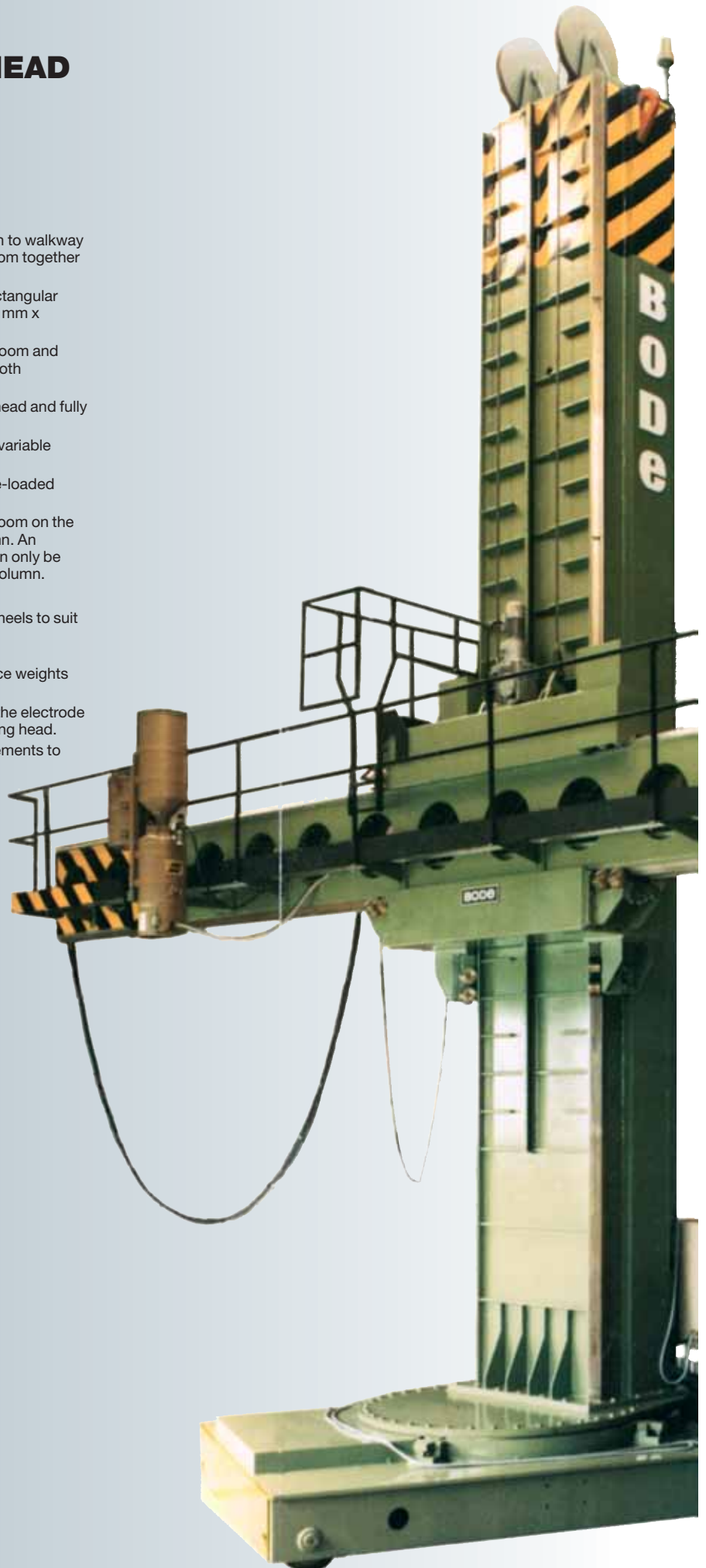
4 stabilising jacks are fitted to the travelling carriage.

The carriage incorporates 2 double flanged and 2 plain wheels to suit 1600 mm track.

Twin wire ropes are provided with double anti-fall devices inter-connecting the boom saddle and the counter-balance weights running inside the column.

An insulated tube is provided through the boom to enable the electrode reels to be fitted at the opposite end of the boom to welding head.

Torque limiters are incorporated in all the motorised movements to eliminate damage in case of blockage.



ULTRA HEAVY DUTY AUTOMATIC WELDING HEAD MINIPULATORS



ULTRA HEAVY DUTY AUTOMATIC WELDING HEAD MANIPULATORS

Models:

2/RC/X – Rotating Column, Stationary Carriage.

2/TRC/X – Rotating Column, Traversing Carriage.

These manipulators are built having a maximum height under boom 14 m and maximum arc travel 10 m, and are to the most exacting standards of nuclear reactor manufacture.

Column mounted in an **off-set position on an extra large diameter crossroll bearing to ensure column rotation take place exactly under centre line of the boom, ensuring the welding head remains central to the trackway when turned through 180°.**

Extra heavy duty column of rectangular fabricated construction, 1450 mm x 985 mm, and deep section boom 1000 mm x 330 mm.

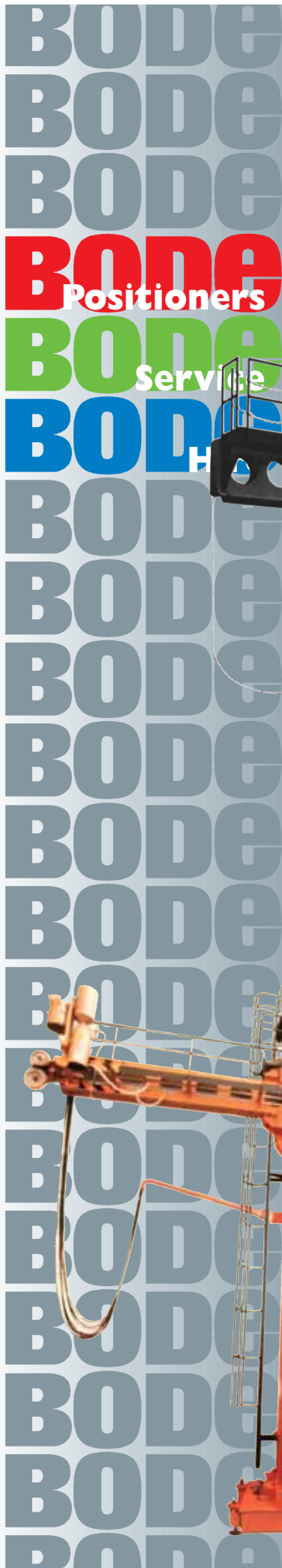
Power rotation of column through AC motor with high inertia flywheel and 2 pre-loaded double reduction power gearboxes.

Column traversing carriage has unique design and supported on 2 double flanged and 2 plain wheels to suit 2500 mm track gauge to eliminate deflection when boom is in its highest position and fully extended.

Saddle provided with 32 heavy duty rollers, for boom and column traverse, each supported on 2 pre-loaded timken bearings carried on eccentric shafts to ensure accurate alignment and smooth vibrationless travel.

Boom travel drive incorporating 2 speed gear to give traverse speeds of -0.2 – 8.0 and 50 – 2000 mm/min for internal cladding.





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Model 3/RC/X 9.5m x 10.5m

- Maximum height under boom : 9500 mm
- Maximum arc travel : 10500 mm
- Minimum height under boom : 1650 mm
- Overall height : 12500 mm

Motorised rotating column trough 360° supported on a stationary base incorporating 4 stabilising jacks.

Model 3/RC/X 11.3m x 8m

- Maximum height under boom : 11300 mm
- Maximum arc travel : 8000 mm
- Minimum height under boom : 1650 mm
- Overall height : 14000 mm

Working in conjunction with Bode VP.70 70 tonne capacity Conventional Positioner.

Machine equipped with AC/DC welding heads.

Insulated tube through boom, an wire reels fitted at opposite end of boom to welding head.



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