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SPECTRUM WELDING SUPPLIES LTD

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# BODE 10 TONNE AH WELDING POSITIONER HIRE PLANT SPECIFICATIONS

**MAKE:** BODE
**MODEL**: 200 VSP 10 TONNE CAPACITY ADJUSTABLE HEIGHT FRAME MODEL

## MAXIMUM ROTATION CAPACITY (TO PREVENT TIPPING / PARTS FAILURE)

**MAX LOAD ROTATION CAPACITY ON 180° FLAT HORIZONTAL TABLE**: 10,000Kg
(based on even balanced C of G weight distribution)

**MAX ROTATION LOAD CAPACITY ON 90° VERTICAL TABLE @ 300MM**: 10,000kg
unsupported (balanced C of G)

**MAX ROTATION LOAD CAPACITY ON 90° VERTICAL TABLE @ 1500MM**: 4,000kg
unsupported (balanced C of G)

**MAX LOAD CAPACITY ON 90° VERTICAL TABLE @ 1500MM *WITH OFFSET ECCENTRIC LOAD***: 2,000kg
unsupported (unbalanced C of G) .ie heavy elbow joints on one side or heavy flange on the end furthest away

## MAXIMUM TILT CAPACITY (TO PREVENT TIPPING / PARTS FAILURE)

**MAX LOAD TILT CAPACITY ON 180° FLAT HORIZONTAL TABLE**: 10,000Kg
(based on even balanced C of G weight distribution)

**MAX TILT CAPACITY ON 90° VERTICAL TABLE @ 300MM**: 10,000kg unsupported (balanced C of G)

**MAX TILT CAPACITY ON 90° VERTICAL TABLE @ 1500MM**: 4,000kg unsupported (balanced C of G)

**MAX TILT CAPACITY ON 90° VERTICAL TABLE @ 1500MM WITH OFFSET ECCENTRIC LOAD**: 2,000kg
unsupported

**TILTING TIME**: 60 seconds 0 - 90 degrees
**DEGREE TABLE TILT RANGE**: 135°
**ROTATION SPEED**: 0.033 to 0.66 RPM
**CONTROL**: Cable pendant control (UP/DOWN/LEFT/RIGHT/STOP/EMERGENCY STOP)
**ELECTRICAL SUPPLY**: 3-phase 380V to 440V 50/60Hz
**ADJUSTABLE HEIGHT SETTINGS**: 4 pin settings (255mm between pins center to center)
**FEATURES**: Removable anti-tip front legs for maximum diameter jobs (inc. machine bolting down brackets)
**MAXIMUM DIAMETER JOB CAPACITY WITHOUT HITTING FRONT LEGS**: 4100mm (4.7 meters w/o front legs)

**LENGTH**: 2800mm
**WIDTH**: 2600mm
**HEIGHT FROM FLOOR TO TOP OF TABLE ON LOWEST PIN SETTING**: 1900mm
**TABLE WIDTH**: 1600mm (6x bolting slots that are 28mm wide with 50mm bolt head opening)
**MACHINE WEIGHT**: 7500kg

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**HEIGHT FROM THE FLOOR TO CENTRE OF 90° VERTICAL TILTED TABLE (LOWEST PIN 1)**: 1600mm
**HEIGHT FROM TOP OF FRONT LEGS TO CENTRE OF 90° TILTED TABLE (LOWEST PIN 1)**: 1300mm
**LEG HEIGHT:** 280mm
**DISTANCE LEGS STICK OUT BEYOND VERTICAL TABLE**: 670mm

**MAXIMUM JOB DIAMETER CAPACITY WITH 90° VERTICAL TABLE (LOWEST PIN 1)**: 2600mm
without hitting front legs (3200mm without the removable anti-tip legs)

**MAXIMUM JOB DIAMETER CAPACITY WITH 90° VERTICAL TABLE (PIN SETTING 2)**: 3100mm
without hitting front legs (3710mm without the removable anti-tip legs)

**MAXIMUM JOB DIAMETER CAPACITY WITH 90° VERTICAL TABLE (PIN SETTING 3)**: 3610mm
without hitting front legs (4220mm without the removable anti-tip legs)

**MAXIMUM JOB DIAMETER CAPACITY WITH 90° VERTICAL TABLE (HIGHEST SETTING 4)**: 4120mm
without hitting front legs (4730mm without the removable anti-tip legs)

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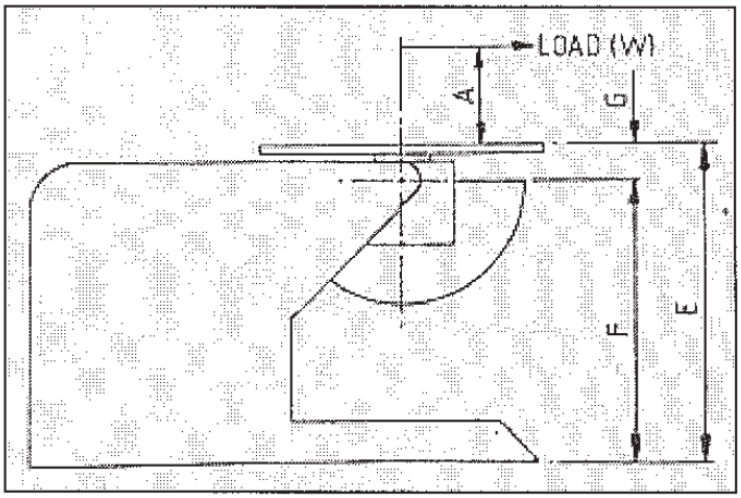


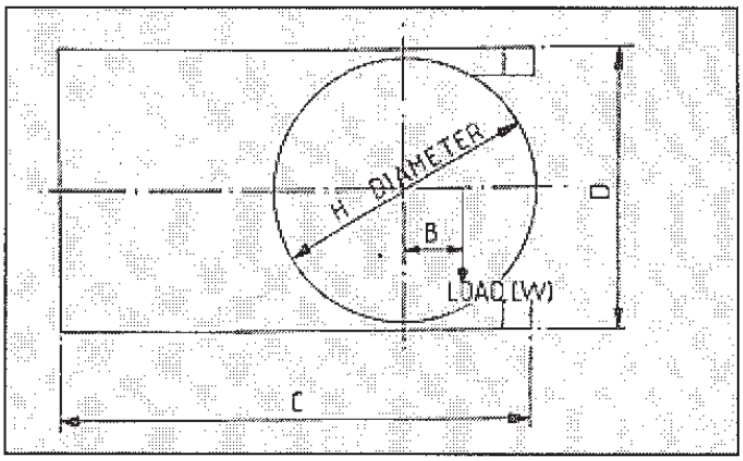


Rotation torque (R) is a calculation of
Load (W) x Eccentricity (B)

**Rotation Torque (R) = W x B = kg metres.**

To calculate the tilt torque (T) it is important to use the full distance to the table pivot point by adding the Centre of Gravity (A) and table pivot distance (G).

**Tilt Torque (T) = W x (A + G) = kg metres**

Example: What weight can a 1/VP2 Positioner safely support with a centre of gravity of the load 200mm from the table face?

Answer: $$\frac{\text{Tilt Torque (T)}}{\text{200mm + Distance (G)}}$$

$$= \frac{600}{200 + 150} = 1.714 \text{ tonnes}$$