

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 (250mm 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: 4500mm (4700mm w/o front legs)

DIMENSIONS

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

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

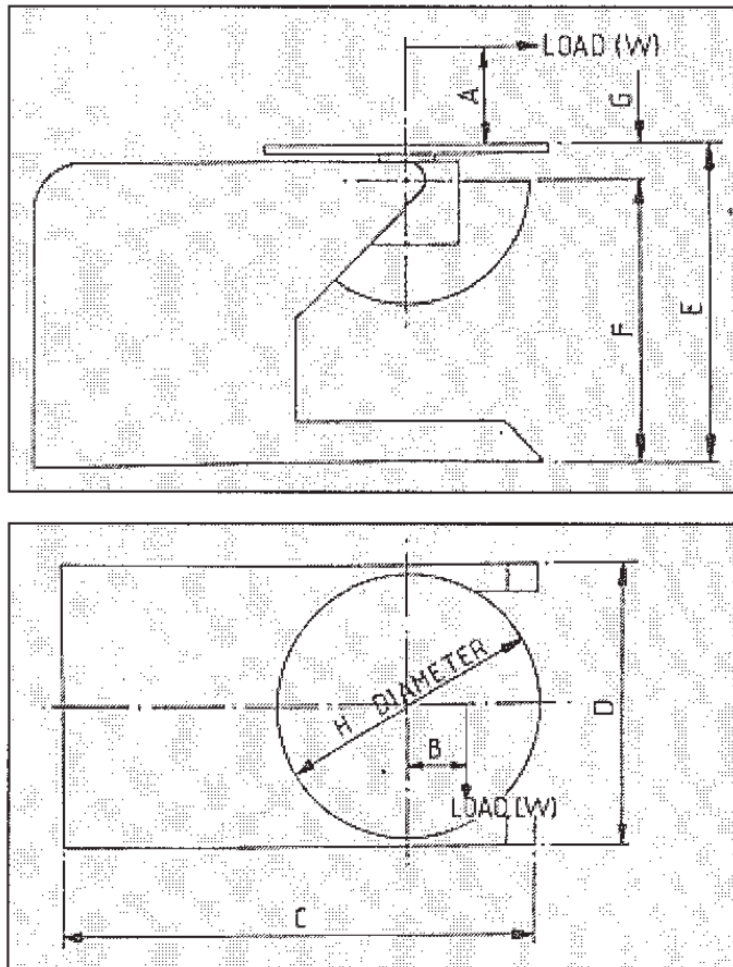
MAXIMUM JOB DIAMETER CAPACITY WITH 90° VERTICAL TABLE (LOWEST PIN 1): 3000mm
+ 200mm without front anti-tip legs (3200mm)

MAXIMUM JOB DIAMETER CAPACITY WITH 90° VERTICAL TABLE (PIN SETTING 2): 3500mm
+ 200mm without front anti-tip legs (3700mm)

MAXIMUM JOB DIAMETER CAPACITY WITH 90° VERTICAL TABLE (PIN SETTING 3): 4000mm
+ 200mm without front anti-tip legs (4200mm)

MAXIMUM JOB DIAMETER CAPACITY WITH 90° VERTICAL TABLE (HIGHEST SETTING 4): 4500mm
+ 200mm without front anti-tip legs (4700mm)





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

$$\text{Rotation Torque (R)} = W \times B = \text{kg metres.}$$

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).

$$\text{Tilt Torque (T)} = W \times (A + G) = \text{kg metres}$$

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

Answer:
$$\frac{\text{Tilt Torque (T)}}{200\text{mm} + \text{Distance (G)}} = \frac{600}{200 + 150} = 1.714 \text{ tonnes}$$