

ARONSON 30 TONNE AH WELDING POSITIONER HIRE PLANT SPECIFICATIONS

MAKE: ARONSON

MODEL: HD600 30 TONNE CAPACITY ADJUSTABLE HEIGHT FRAME MODEL

MAXIMUM ROTATION CAPACITY (TO PREVENT TIPPING / PARTS FAILURE)

MAX LOAD ROTATION CAPACITY ON 180° FLAT HORIZONTAL TABLE: 30,000Kg
(based on even balanced C of G weight distribution)

MAX ROTATION LOAD CAPACITY ON 90° VERTICAL TABLE @ 300MM: 30,000kg
unsupported (balanced C of G)

MAX ROTATION LOAD CAPACITY ON 90° VERTICAL TABLE @ 1000MM: 12,000kg
unsupported (balanced C of G)

MAX LOAD CAPACITY 90° VERTICAL TABLE @ 1000MM WITH OFFSET ECCENTRIC LOAD: 6,000kg 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: 30,000Kg
(based on even balanced C of G weight distribution)

MAX TILT CAPACITY ON 90° VERTICAL TABLE @ 300MM: 30,000kg unsupported (balanced C of G)

MAX TILT CAPACITY ON 90° VERTICAL TABLE @ 1000MM: 12,000kg unsupported (balanced C of G)

MAX TILT CAPACITY 90° VERTICAL TABLE @ 1000MM WITH OFFSET ECCENTRIC LOAD: 6,000kg unsupported

TILTING TIME: 60 seconds 0 - 90 degrees

DEGREE TABLE TILT RANGE: 110°

ROTATION SPEED: 0.01 to 0.5 RPM (**60 min rotation slowest to 2 minute rotation fastest**)

CONTROL: Cable pendant control (UP/DOWN/LEFT/RIGHT/STOP/EMERGENCY STOP)

ELECTRICAL SUPPLY: 30 amps 3-phase 380V to 440V 50/60Hz (32amp or 63amp fused rated plug required)

ADJUSTABLE HEIGHT SETTINGS: 4 pin settings (400mm between pins center to center)

MAXIMUM DIAMETER JOB CAPACITY WITHOUT HITTING FRONT LEGS: 4480mm (5.16 meters w/o front legs)

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Registered Office: Spectrum House, McGregor's Way, Chesterfield, Derbyshire, S40 2WB
Registered in England and Wales Company Registration No. 1732286
Vat Registration No. 401 5037 11



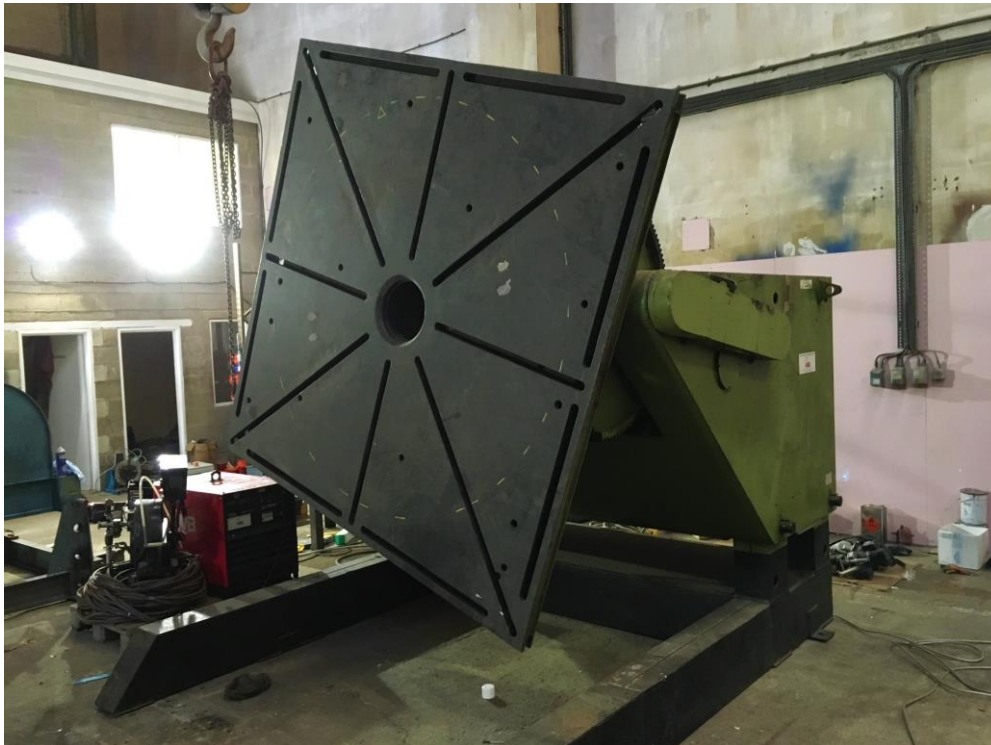
LENGTH: 3500mm
WIDTH: 2600mm
HEIGHT FROM FLOOR TO TOP OF TABLE ON LOWEST PIN SETTING: 1900mm
TABLE WIDTH: 2400mm (8x bolting slots that are 40mm mm wide)
MACHINE WEIGHT: 10,000kg
HEIGHT FROM THE FLOOR TO CENTRE OF 90° VERTICAL TILTED TABLE (LOWEST PIN 1): 1680mm
HEIGHT FROM TOP OF FRONT LEGS TO CENTRE OF 90° TILTED TABLE (LOWEST PIN 1): 1340mm
HEIGHT FROM FLOOR TO TOP OF TABLE ON LOWEST PIN SETTING 2: 1980mm (pin holes + 300mm)
LEG HEIGHT: 340mm
DISTANCE LEGS STICK OUT BEYOND VERTICAL TABLE: 1000mm

MAXIMUM JOB DIAMETER CAPACITY WITH 90° VERTICAL TABLE (LOWEST PIN 1): 3360mm
(2680mm without hitting front anti-tip legs)

MAXIMUM JOB DIAMETER CAPACITY WITH 90° VERTICAL TABLE (PIN SETTING 2): 3960mm
(3280mm without hitting front anti-tip legs)

MAXIMUM JOB DIAMETER CAPACITY WITH 90° VERTICAL TABLE (PIN SETTING 3): 4560mm
(3880mm without hitting front anti-tip legs)

MAXIMUM JOB DIAMETER CAPACITY WITH 90° VERTICAL TABLE (HIGHEST SETTING 4): 5160mm
(4480mm without hitting front anti-tip legs)



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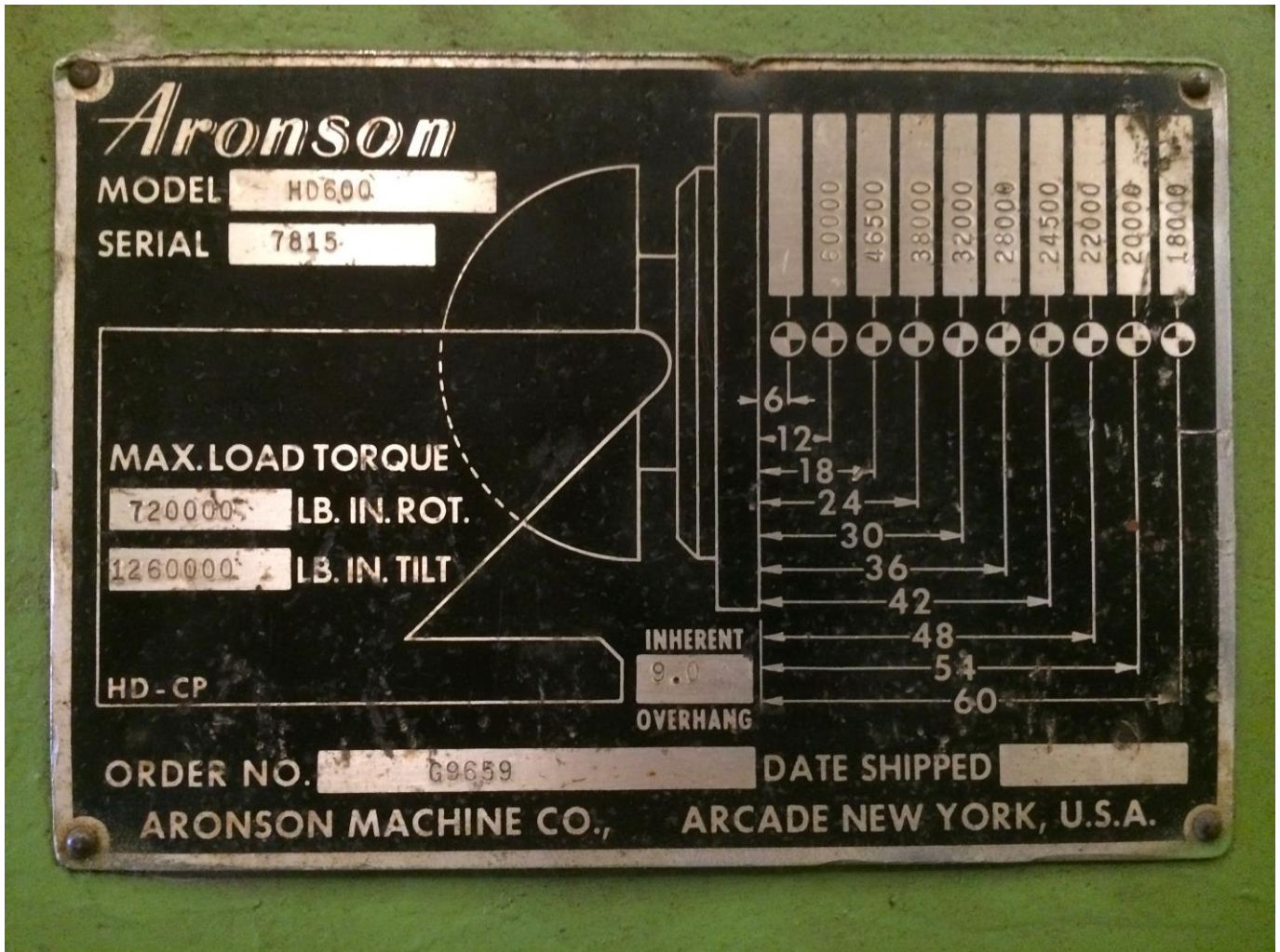


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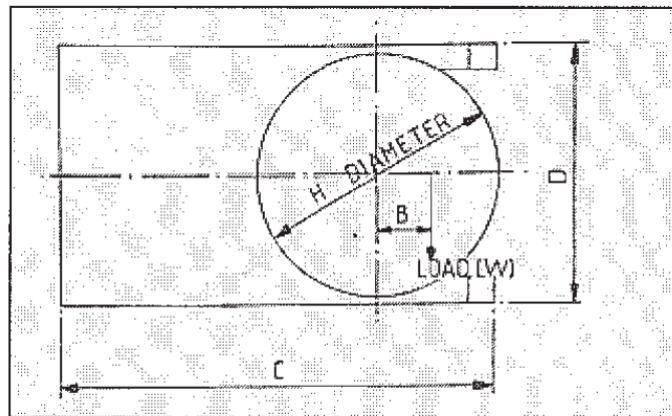
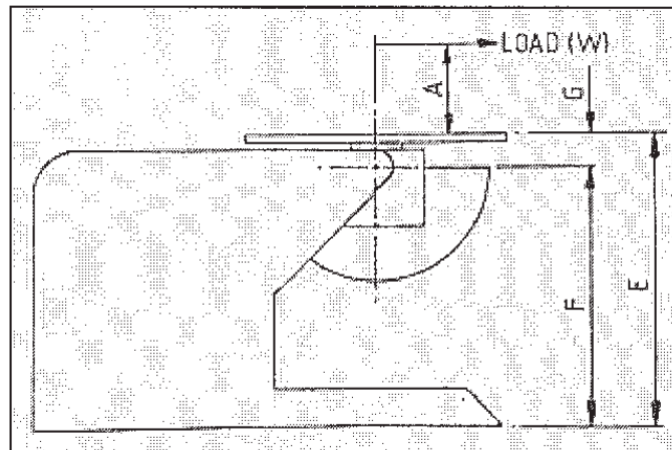


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Rotation torque (R) is a calculation of Load (W) x Eccentricity (B)

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

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