VERTICAL AXIS MACHINES

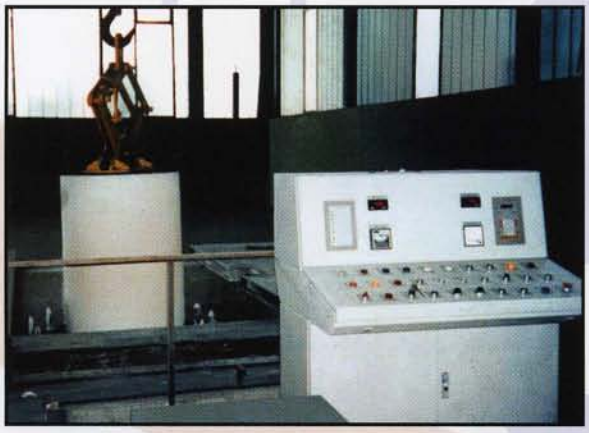
The Gibson Centri-Tech range of vertical axis machines have proven in the field over many years.

Following the original design and manufacture some years ago, much larger units have been developed and successfully installed in foundries producing general engineering, rolling mill roll castings and turbine engines unit rings in high nickel alloys.

The latest range of vertical axis machines which are now built continue to cover a wide range of casting weights and sizes, employing the latest technology in programmable controls.

THE UGV RANGE.

These are floor mounted units, manufactured in four sizes which are suitable for producing conventional ring and bush type engineering castings, for use in application such as reduction gear-boxes, bearing cages, diesel engine parts, pump impellers, stainless steel flanges, valve bodies and rings.



THE VBT RANGE

General duty casting machines suitable for all types of engineering castings, gear wheel blanks in excess of 2,500mm diameter, rolls for pulverisation duties, rolling mills adjustment screw nuts up to six tonnes, large diameter dredging bearings, pump sleeves and numerous types of shaped castings requiring a pressure tightness unobtainable by static casting techniques.

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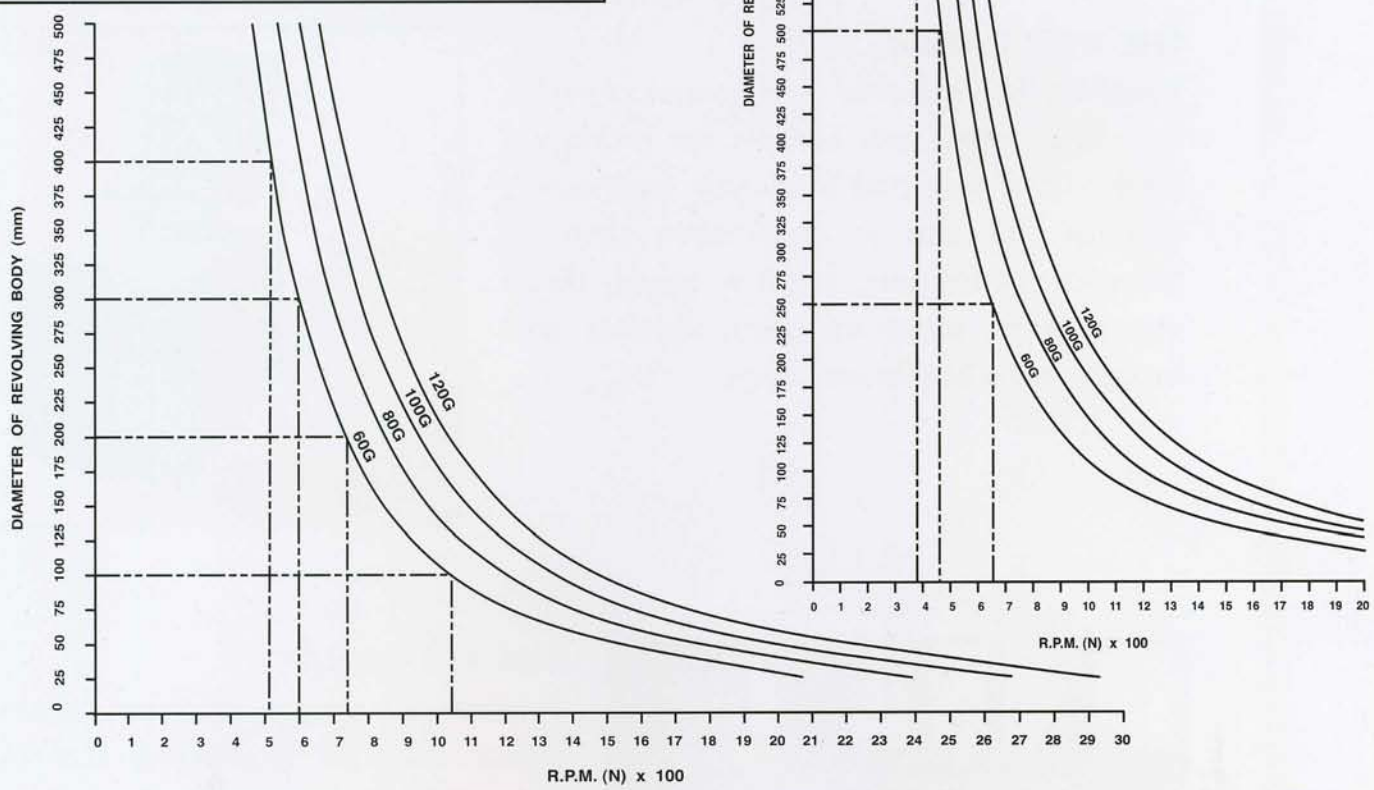
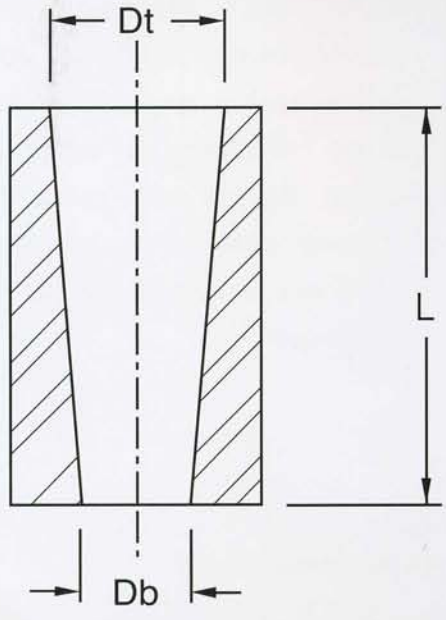
RELATIONSHIP BETWEEN SPINNING SPEED & DIAMETER OF CASTING (MM) AT VARIOUS 'G' FORCES.

$$N = 42.3\left(\frac{\text{G factor}}{D}\right)^{1/2}$$

where D = rotational diameter (m).





$$N = 84.6\left(\frac{L}{Dt^2 - Db^2}\right)^{1/2}$$

where L = axial length (m)

Dt = top dia of bore (m)

Db = bottom dia of bore (m)

N = rotational speed (R.P.M.)

CALCULATION FOR PARABOLIC BORE CASTINGS (METRIC SYSTEM)