



**“Committed to helping Universities and  
Technical Colleges learn the art of  
Centrifugal Casting”**



***“Leadership  
through Innovation  
in Centrifugal  
Casting Systems”***

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Gibson Centri-Tech Limited is an acknowledged leader of Centrifugal Casting Technology. Established in 1980 by Douglas and Martin Gibson, we have remained at the forefront of development in the design and manufacture of Centrifugal Castings.

***“We understand the unique environment of the foundry and we design and manufacture our equipment accordingly”***

**The services we provide include:**

- Process and Application
- Preparation of new plant and workshop layouts
- Projects installation technical training and “know how transfer”

We begin with the careful evaluation of our customers requirements, we then select the most efficient centrifugal casting equipment and process. Every stage of manufacture is under the company’s control and precise dimensional accuracy is assured. Prior to delivery, each machine is assembled and workshop tested to the most rigorous standards. Our extensive experience in project management and commissioning ensures that every aspect of the scheme is coordinated to meet production deadlines and all the necessary performance criteria.

In addition to supply of equipment and parts Gibson Centri-Tech Limited also provides a broad range of complementary services that includes:

- Plant Layout
- Equipment Installation
- Full Technical Support



We are also committed to helping Universities and Technical Colleges to understand the art of Centrifugal Casting.

We have developed a machine from our Vertical Axis Range of products that we feel is suitable for experimental castings and technical training this machine is our :

**UGV Range**

## UGV Range

**The UGV range is an entry level machine popular with Universities and Technical Colleges.**

### **Main Features:**

- The machines are supplied completely assembled and are easy to install on a flat floor that meets the loading requirements.
- The UGV machines are in the small and medium range and are particularly suitable for both ferrous and non-ferrous materials. The vertical process can have advantages with segregation prone alloys and semi centrifugal casting with symmetrical shaped moulds. Larger machines are available for below floor level installation in the VBT and VC model range.
- Each machine is designed on the same shaft and bearing capsule principle, employing a short heavy duty shaft, to enable the units to be used safely as surface machines.
- The basic machine design enables varying safety guard and face plate sizes to be employed, in relation to machine loading, permitting maximum flexibility throughout the range.
- Machine loading can vary considerably in relation to diameter of moulds/flasks and operating speed.
- A die/mould employed for true centrifugal die casting for a given diameter can weigh eight times that of a sand packet ceramic mould.
- Machine selection should be based on the protected requirement giving consideration to collective weight of mould/die and cast metal.
- Machines that are selected on the basis of long term usage for sand or refractory moulds or for centrifuging shaped moulds associated with aluminum die casting can be supplied with the maximum size face plate.



# UGV RANGE

DESIGNATION	NORMAL FACEPLATE DIA	STATIC MAXIMUM *1 CAPACITY INC. FACEPLATE KGS	NOMINAL CAPACITY *1 (MOULD & METAL) KGS	STANDARD *2 BASE SPEED
UGV 0 (mini)	500– 700	600	300	1500
UGV 1	700 - 900	1200	600	1350
UGV 2	900 - 1000	1600	1200	1350
UGV 2 HD	1000 - 1200	2000	1500	1000
UGV 3	1200 - 1500	3000	2500	800
UGV 3 HD	1200 - 2000	3500	2500	600

\*1 The above data is intended as a guide, refer to the load/speed graph for specific applications

\*2 Subject to application

For further information on this machine and how we at Gibson Centri-Tech Limited can support your Educational and Training needs, please contact our Sales Team or visit our Website:

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