GLADSTONE

The Art of Engineering

Clay Warehouse Inc. 517-333-6633 info@claywarehouse.com

G75/G75D Modelling Clay Extruders

Industrial Plasticine Extruders

Gladstone Engineering produce a range of extruders designed specifically for Industrial Plasticines or Modelling Clay such as Faber and Chavant. The extruders were designed with the assistance of styling studios and were made to work exclusively with Modelling clay and operate in the studio environment.

G75 Extruder

The G75 is ideal for large or small amounts of heated modelling clay to apply to your model. The machine is also portable to move to your model to speed up the process of laying on clay as long as a suitable power source is available. It will process large or small amounts of clay as required after its initial warming up period of approx 45 minutes there after clay is available on demand. One of the key advantages of this machine is its ability to reclaim scrap material be it shavings from the initial model or large lumps from the break up of obsolete models.

Tech Spec

Drive: 2.2 Kw 3phase 400v 50Hz

Control: Digital temperature control

Overall Sizes

Height to top of Hopper	1700 mm approx
Length	1800 mm approx
Width overall	1000 mm approx
Weight	400 kilos approx

CE compliance
The G75 is built to all the current requirements including BSEN 60204, BSEN 292 & 294, Low voltage directive 73/23/EEC

Optional extras
The G75 can be fitted with numerous options to customers specific requirements

G75D Extruder

The G75D De-airing is a natural development of the well proven G75. The machines primary advantage over the G75 is that it uses a Duplex extruder construction and is fitted with a Vacuum chamber and high performance vacuum pump, this de-airs the modelling clay as it passes through the machine.
The key points that the G75D offers is that the unit can not only reclaim scrap and machined shavings in itself a considerable saving but the fact that it can remove a high percentage of air bubbles within the modelling clay enables it to be used for initial laying up and in most cases applying a finishing layer such is the quality of the clay produced.

Tech Spec

Drive: 1.5 Kw 3phase 400v 50Hz

Vacuum Pump: 0.4Kw 3.6cu/mt

Control: Digital temperature control

Overall Sizes

Height to top of Hopper	1800 mm approx
Length	2000 mm approx
Width overall	1100 mm approx
Weight	600 kilos approx

CE compliance
The G75D is built to all the current requirements including BSEN 60204, BSEN 292 & 294, Low voltage directive 73/23/EEC

Optional extras
The G75D can be fitted with numerous options

Our extruders offer several key advantages in the modern studio environment:

- Instant pre warmed clay directly from cold clay being fed in
- De-aired clay for greater plasticity and improved finish
- Faster laying up times
- Extrusion of small sections for detailing
- Portability around the studio
- No cleaning or strip down of the extruder is required
- Fully automatic pre warming of the clay
- Constant temperature monitoring for consistent clay temperature and density
- Energy savings over conventional ovens
- Recycling of shavings from the machining process
- Recycling of old models
- Reduced landfill and environmental impact
- Short capital investment return periods

GLADSTONE

The Art of Engineering

Frequently Asked Questions

- **What is the purpose of the G75's?**
  The G75's were designed to enable the users of styling studio clays such as Faber and Chavant to apply heated clay directly on to the model and also to reclaim scrap clay which offers significant cost savings.

- **Can I use cold billets?**
  Yes, cold billets can be fed straight into the G75's and warm clay will be extruded ready for use.

- **Can I feed warm clay in?**
  No, it is preferable only to feed cold clay in.

- **Can I feed waste clay in such as shavings?**
  Yes, so long as the waste does not contain any foreign body's that could damage the extruder.

- **How quick does the clay warm up after I feed it in?**
  The warm clay is instant as the process is continuous once the G75's are full of clay cold clay goes in warm clay comes out as much as you want, the G75's can produce up to 350 Kilos per hour if fed constantly.

- **How do they heat the clay?**
  A series of specially designed heaters which are controlled by digital controllers that constantly monitor the temperature in four individual areas on the G75's provide the heat source for the clay.

- **Can you vary the temperature settings?**
  Yes, although the range is limited so as to not over heat the clay or let it cool down too much.

- **What if there is a power cut?**
  The G75's have internal protection systems where as in the event of a power failure the unit will default to a start up procedure. This enables the clay to be pre warmed prior to use.

- **Can the G75's replace our clay ovens?**
  Yes, certainly the G75D as this produces de-aired clay of such quality that it can be used on the finishing layer.

- **What is de-airing?**
  The G75D extrudes the clay under a vacuum that removes all the air in the clay , this has the effect of making the clay extremely flexible and also produces a very smooth finish.

- **Can I extrude different sizes and shapes?**
  Yes the G75's can accept different die heads that are made to your requirements these can be simple round shapes to complicated profiles.

- **Are the G75's portable?**
  Each machine is mounted on wheels so they can be moved from studio to studio you only need a suitable power supply.

- **What are the cleaning requirements?**
  Due to the nature and use of the G75s regular cleaning is not required.

- **What maintenance is required?**
  We recommend a service once every 12 months.

- **What power supply do I need?**
  Standard is 400v 3phase with Neutral 32amps. Power supplies for other Countries are available.