

# Pugmills (Extruders)

## G-SERIES PUGMILLS

All G-Series Pugmills are constructed on the same principle, aluminium bodies which are detachable for easy cleaning, non-rusting individually adjustable blades are fitted as standard to the pug shaft which in turn runs in two taper roller bearings (on some models). These bearings which are protected from the clay by an

oil seal and retaining plate which must make G-Series pugmills the best engineered on the market. Safety is another important feature of G-Series pugmills and it is our policy to provide maximum safety without compromising the performance of the machine. All G-Series pugmills are fitted with thermal overload protected starters and safety limit switches which control the motor, when the loading hopper is raised or lowered making them very easy to use, some models are fitted with fixed finger guards in the hopper for protection. Key operated lockout switches can be supplied as an optional extra if required. Another important feature for convenience of the operator is that the handle assembly on the 50mm and 75mm outlet pugmills is in line with the pugmill body thereby avoiding the handle sticking out into the workshop gangway and also making it impossible to tilt the pugmill over when pressure is applied to the handle.



The vertical pugmill G53 has been developed from the G52 to enable it to operate in the vertical plane. The hopper system has been designed for maximum safety and simplicity of operation. The G53 vertical pugmill is entirely self supporting being located on strong box section girders and securely mounted onto a wide steel platform which only has a 600 mm x 600 mm foot print saving valuable space in the workshop or studio.

## De-Airing Pugmills

Through continuous research and development and the use of only high quality materials we are able to offer a machine that can give continuous production of a well de-aired plastic body with the minimum of maintenance.

All G-Series de-airing pugmills incorporate alloy bodies and blades and are fitted with high quality vacuum pumps and drive units, safety limit switches and overload protected switch-gear.

A unique feature of G-Series de-airing pugmills is that they all incorporate a anti-feedback tube system within the de-air chamber, this prevents the clay being pushed back and blocking the vacuum chamber and also because of its unique design G-Series is also able to offer a vertical de-airing pugmill which gives all the features of a de-airing pugmill with the space saving advantages of a vertical pugmill and the ability to produce unheard of quality in hollow extrusions.



Ref No.	Description	Length (mm)	Width (mm)	Height (mm)	Weight (Kg)	Output (kg/h)
G48	50mm de-air, horizontal	1260	310	470	65	220
G52	3", horizontal	1300	310	510	71	360
G52P	3", horizontal, powered feed	1300	310	510	71	360
G53	3", vertical	711	609	1980	123	360
G76	3" de-air, horizontal	1600	500	470	145	320
G77	3" de-air, vertical	1600	500	470	180	320
G54	4" de-air, horizontal	1800	320	670	180	500
G55	4", vertical	760	760	2300	300	700

## Specialised Pugmills

### Tile Extruder G70

The G70 tile extruder is a very versatile machine. Besides extruding tiles, mouldings, coils etc. can be extruded with the use of the optional die plates. With the standard 100 mm diameter nose cone supplied with the machine other shapes such as hollow forms can be extruded with the use of optional die plates. To obtain optimum performance with the G70 tile extruder, one must be willing to experiment, keeping in mind the variables that are present when working in clay, the importance of moisture content, die balance, shapes etc.

The machine is also fitting with a completely new nose cone outlet designed to enable tiles of approximately 280 mm width up to 25 mm thick to be extruded. Smaller or thinner tiles can also be extruded by the use of accessory die plates fitted to the front of the nose cone.



### TECHNICAL DATA

Dimensions approx:- 1905mm long x 690mm wide x 1050mm high

Weight approx: - 270 kg

Motor gearbox unit:-2.2KW (3Hp) single or three phase

Vacuum pump: - High pressure rotary vane oil immersed -28" (-1 Bar)

Construction: - All aluminium alloy construction with split body to facilitate easy cleaning, individual aluminium alloy blades mounted on a hexagonal shaft. Supplied with all switch gear and an interlocked hopper safety switch.

Bearings: - 2 adjustable taper roller bearings, oil seal and retaining plate

Output :- 60 -80 sq ft/ hour approximately output depends on clay body moisture content, tile dimension, number of operators etc. With standard nose cone fitted out put is rated at 500 Kilos per hour

Standard accessories: - 1- 150mm x 5mm die plate

### Power Feed Pugmill G74

The G74 Power Feed Pugmill has been developed from our existing range of de-airing pugmills and incorporates all the latest developments within the range. The machine has been designed to provide excellent service and reliability with ease of maintenance and cleaning. The pugmill consists of a vertically split high grade aluminium alloy barrel 200mm internal diameter with a 100mm outlet nose cone, this nose cone can be interchanged with an optional tile nose cone for the production of different size tiles, power is derived from a high torque helical inline motor and gearbox, this drives a stainless steel hexagonal shaft via a flexible coupling on which there are mounted individual blades which can be altered to change the configuration of the auger itself. The pugmill is fed by a power feed chamber which is driven via a gearbox off the main drive shaft. The power feed chamber consists of two specially designed rollers which draw the clay into the main chamber of the pugmill. The chamber is protected by a safety hopper to prevent contact with the rollers by the operator.



### TECHNICAL DATA

Dimensions: 1905mm long x 620mm wide x 1800mm high approximately.

Weight : 350 kg approximately.

Motor/ Gearbox: 3kw (5 Hp ) inline helical reduction drive

Vacuum pump - 28" (-1 Bar) Oil immersed rotary vane

Output: 1000kg per hour approximately.

Optional Accessories - Tile Nose Cone, Stainless steel auger , Variable speed drive .