

Metering & Mixing Systems



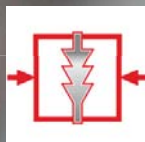
Process Gear Mix 102.

***Entry level
Gear metering
system for low
to medium
Viscosity
Materials.***



Features include:

- Variable ratio.
- Twin drive metering system.
- Precision metering pumps.
- Low rotational speed for longevity on filled materials.
- Ratio invert switch.



Process Gear Mix 102.



The PGM 102 is the entry level system used in the processing of liquid or semi solid materials. Based around a twin drive set up, each precision gear pump is directly driven by an inverter controlled, geared AC motor.

The motors have a maximum speed of 150 rpm, as standard, and this coupled to the precision gear pumps give the system the ability to apportion filled material without any problems. The twin drive arrangement and the wide range of gear pump sizes enables the 102 to process materials with wide ratio's reliably.

The PGM system utilises a user friendly control system based on potentiometers to adjust the flow and material ratio negating the need for the expense of a PLC or plug in controller, to adjust the system.

To meet the needs of customers who need to guarantee the application, the 102 system can be upgraded with ratio monitoring using gear flow meters and a 4 line PLC display.

The materials are supplied to the metering system by gravity fed steel hoppers. These can be specified with either 12 or 20 litre capacity and they have the option of agitation

and heating to ensure the materials applied remain in a constant condition.

From the metering pumps the metered materials are transferred to the mixing via PTFE lined material hoses. The metering system

is fitted with pressure manometers and non return valves, providing the operator with more application information.

The PGM mixing head is an air operated device that can be either "snuff back," preventing material dripping, or conventional needle type. The disposable mixing tubes easily attach to the mixer and the system is supplied with ratio check adapters to ease the calibration process.

The mixing head can easily be upgraded to the rotary static type if more robust mixing of the materials is required. The latest generation of rotary mixer element, is moulded by 2KM and incorporates a robust square drive.



2KM Process Gear Mix 102

Machine type	Gear Metering system with PGM twin drive layout.
Output	Up to 2 kg/min depending on viscosity.
Drive Type	Inverter controlled Geared AC Motor. Typical speed range 30-150 rpm
Pump range	6.0, 3.0, 1.8, 1.2, 0.6, 0.3cm ³ /rev.
Maximum Pressure	50 bar on 6.0cm ³ /rev 100 bar on others.
Material Vessel	Painted steel 12 or 20 litres capacity with sealed lids for air management.
Mixer Type	Static and rotary static mixing available.
Hose length	Depends upon Viscosity & flow, typical 5 metres
Material viscosity	Gravity feed up to 3,000 cps. Pressure vessels up to 50,000 cps.
Service requirements	Single phase 240v 13 amp Electrical. 1/4" Pneumatic low flow.



2KM (UK) Limited.

1 Buntsford Park Road, Bromsgrove, Worcestershire. B60 3DX.
Tel: +44 (0) 1527 834720 Fax: +44 (0) 1527 834729
www.2km.co.uk. E-mail: sales@2km.co.uk