

## Encore® 700 - Technology Overview

Encore® 700 Design uses a high performance robust non loss of motion variable eccentric design with taper roller bearings with heavy duty cast iron industrial construction. Liquid end, gearbox & drive design typical with industrial duty metering pumps. It utilizes a patented Non loss of Motion mechanism design offering smooth discharge pattern as shown above.

It offers a continuous sine wave flow pattern achieved via amplitude modulation. This results in a smooth chemical discharge even at reduced stroke length.

Eccentric is always in contact with the follower shaft or the connecting rod.

Key advantage of Non-Loss of Motion Design: Smooth chemical discharge resulting in less piping vibrations, thus eliminating system leaks observed due to vibrations. Quite system operation & longer pump, minimizing overall life cycle cost.

Utilizes four step compact pulley for flexibility of wider range, additional 4:1 turn down, 10:1 Stroke length, 60:1 Speed with SCR control panels.

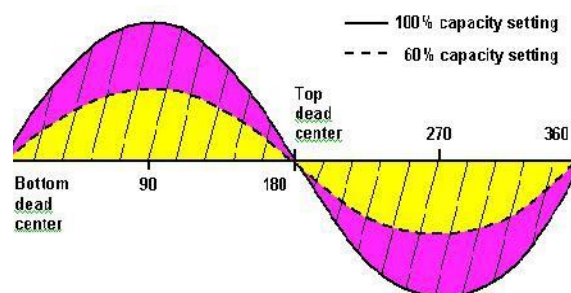
Utilizes heavy duty taper roller bearings for radial and axial load bearings.

Clear PVC cartridge valves for ease of maintenance & visibility of valve operation and chemical feed.

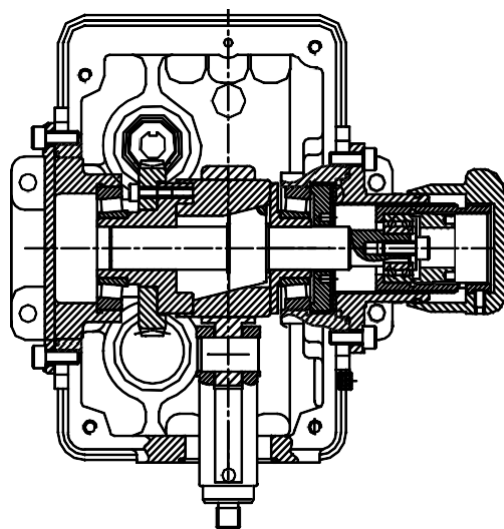
PTFE flat composite diaphragm with steel insert with back-up bellow seal for added gearbox protection and higher-pressure capability offered by hydraulic pumps.

Pump uses integral self-locking stroke mechanism with 10 turn micrometer stroke adjustment to safeguard against any stroke creep.

Automatic Stroke Positioner which can accept 4- 20 mA analog input or speed controls options with the use of DC or AC drives.



Motion Design, accomplished via a variable eccentric, 0 to 100% stroke



***In summary Encore® 700 offers the design & construction robustness of high end industrial duty Hydraulic pump with the simplicity of a Mechanically Actuated Diaphragm pump***

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