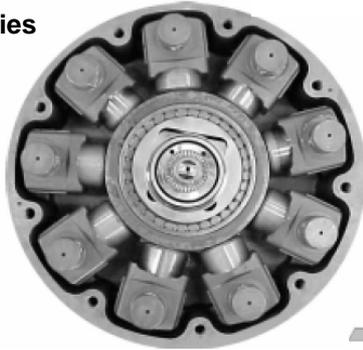


SAI Variations

GD Series



GD4 + R24



GD4 Series; Dual Displacement Motor

These motors are based on the GM Series, they share common parts and the GM's high reliability it is renowned for. GD4's major characteristics are that it is both 2 speed and has 9 pistons, the latter assures the smoothest output torque.

It shares the eccentric crank cam principles used in the BD series. The second speed can be as low as 10% of full, there are a wide range of ratios available for this series.

* Internal connection between case & return line allows the unit to be installed without drain line.
(where the max return pressure is up to 15 bar).

* Suitable for special distributor blocks designed to include cartridge valves.

* Available with stainless sleeve on shaft seal area.

GD4 + R24; Motor-Gearbox Combo

* Combination features Dual displacement motor and a reduction gearbox. (Various ratios).

* High radial load capability and long bearing life

* Overall weight and dimensions are less than direct drive versions.

BD Series; Dual Displacement Motor

This motor is also based off the GM Series but incorporates the innovative central bearing. This sees the range of options available increased, such as:

* Opportunity to fit taper roller bearings for even higher radial loads,

* Greater capacity to absorb axial shock.

* Hollow (through) output shaft.

* Counter balancing for smooth high speed vibrations .

The shift from one displacement to the other is achieved by pilot pressure acting on a crank shaft eccentric. This ensures a smooth transition when shifting from one speed to the other. (See detail on next page)

BD Series also tolerate freewheeling in full cavitation as with other models. If run as a pump they can also reach full speed in low displacement.

The motors are capable of working at low speeds with a high degree of speed stability.

Output torque remains constant and does not fall away at very low speeds, on start up or in stall conditions. BD2 offers 100% to 50 % speed change ratio while BD1 offers 100 % to 25%.



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Monday, August 29,

GK3 and GK3A; Compact Motors

These are the latest generation of purpose designed compact wheel motors. They incorporate a brake, reduction gearbox and motor all in one casting.

The brake is a high capacity compact drum type brake situated between the motor and the gearbox. It is designed as a park or emergency brake. Spring applied and hydraulically released.

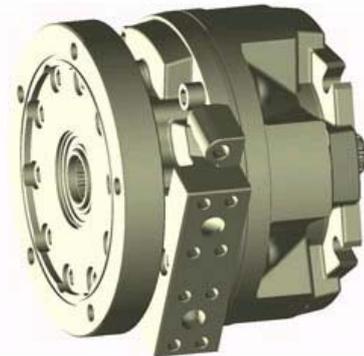


GMD Series; Double Output Shaft

These motors, with their double output shaft configuration and high performance characteristics, are ideal for applications such as;

- * Axle drives.
- * Winch drives
- * Flow divider units.
- * Tandem applications such as multi-speed drive units.

A GMD-series motor can be mounted to another GMD motor or to other SAI motors with single output shaft.



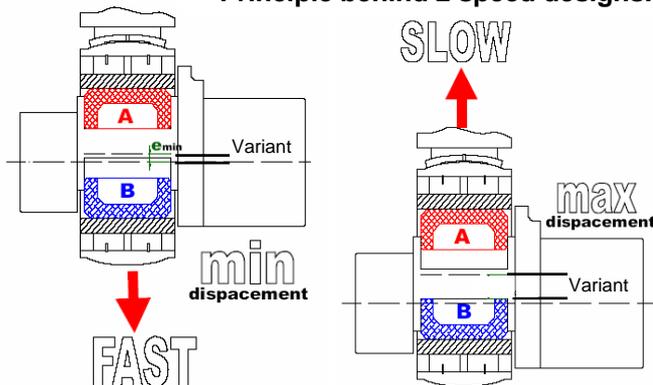
Other Products.

- * Wheel type gearboxes & motor combos,
- * Motor Brakes

- * Motor gearboxes with various ratios
- * Winches – mobile and Marine.

Motor Displacements from 40 to 12,000cc
Don't overlook SAI – Innovation & Quality at Great Prices

Principle behind 2 speed designs.



Geometry behind the piston action.

For those receiving this via email, open the file attached and see a sectional version of this run a cycle. For others, note how the pistons and cylinders are always inline on

