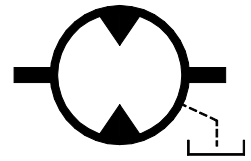


SAI

radial piston hydraulic motors

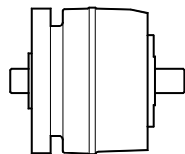
GMD SERIES

DOUBLE SHAFT MOTORS
SUITABLE FOR TANDEM MOUNT
5 PISTONS
SINGLE DISPLACEMENT



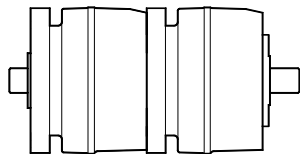
The GMD-series motors, with their high performance characteristics and double output shaft configuration, are ideal for applications such as **axle drives**, **winch drives** and **tandem motor applications** such as **multi-speed drive units**, **flow divider units**.

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



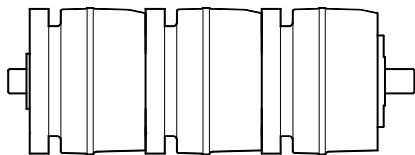
SINGLE MOTOR

- AXLE DRIVES
- DUAL WINCHES



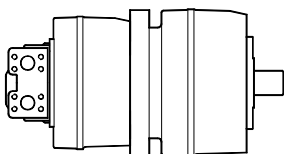
TANDEM MOTOR

- *THREE-SPEED DRIVE UNITS*
- *VEHICLE TRANSMISSIONS*
- *WINCHES*
- *PLASTIC INJECTION MACHINERY*
- *AUGERS*

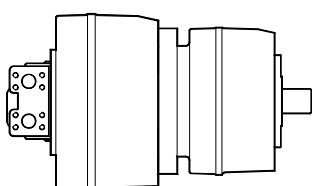


TWO OR MORE MOTORS

- *MULTI-SPEED DRIVE UNITS*
- *FLOW DIVIDERS*



GMD SERIES MOTORS CAN ALSO BE COMBINED WITH OTHER SINGLE SHAFT MOTORS:



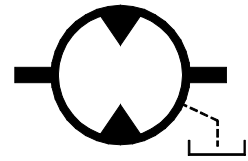
GREATER FLEXIBILITY IN CHOICE OF DISPLACEMENTS IN ORDER TO ACHIEVE THE DESIRED DRIVE RATIOS - MAX:MIN RATIO UP TO 10:1



radial piston hydraulic motors

**GMD
SERIES**

DOUBLE SHAFT MOTORS
SUITABLE FOR TANDEM MOUNT
5 PISTONS
SINGLE DISPLACEMENT



MULTI-SPEED TANDEM-MOTOR DRIVE UNITS:

A three-speed drive unit can be achieved by combining two motors that have different displacements.

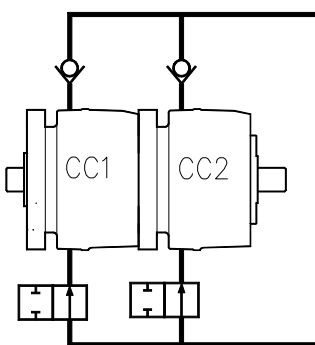
The larger displacement motor (CC1) is typically twice the displacement of the smaller motor (CC2), but any number of different combinations are possible in function of the drive displacements that required.

- Maximum displacement (CCmax) is obtained with both motors operating in parallel.
- Intermediate displacement (CCint) is obtained with only the larger motor operating normally, the smaller motor is made to operate in freewheeling.
- Minimum displacement (CCmin) is obtained with the smaller motor operating normally and the larger motor operating in freewheeling.

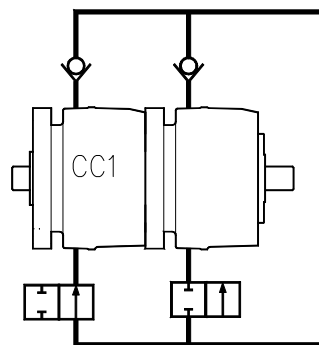
The efficiency losses of the motor when operating in free-wheeling are very low (torque absorption is approx. equivalent to 4 bar pressure). This means that even when operating at minimum displacement the efficiency of the unit remains high.

This makes it possible for example to achieve Max:Min displacement ratio of 10:1.

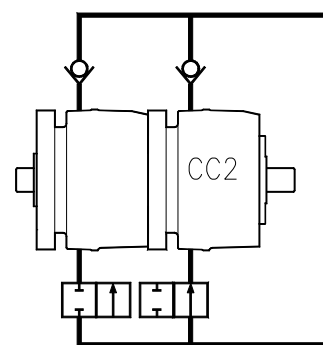
Maximum displacement
 $CC_{max} = CC1 + CC2.$



Intermediate displacement
 $CC_{int} = CC1.$



Minimum displacement
 $CC_{min} = CC2.$

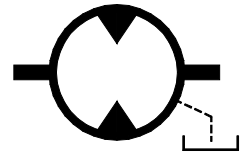


SAI S.p.A.
Via Olanda 51
41100 MODENA, Italy

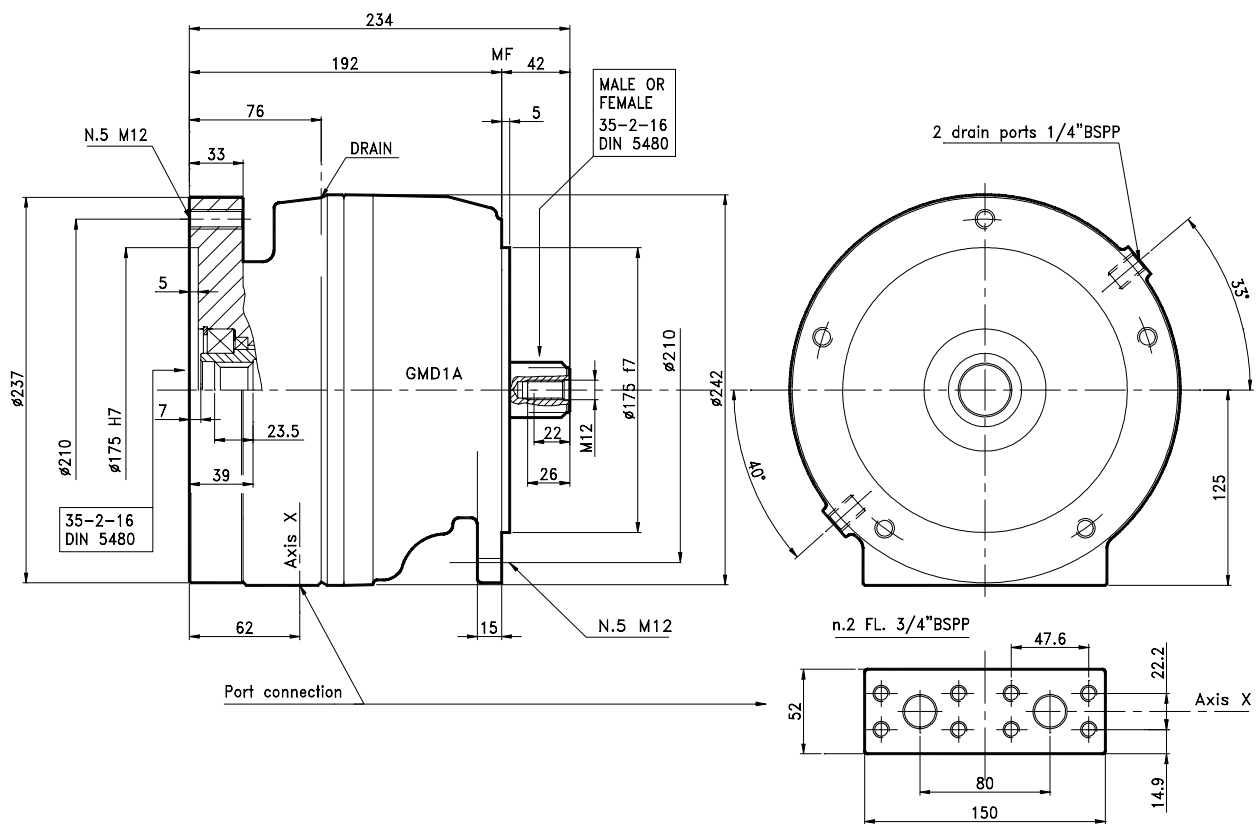
Tel: +39 (0)59 420111
Fax: +39 (0)59 451260
E-mail: saispa@saispa.it
Internet: www.saispa.it

Distributed and serviced by:

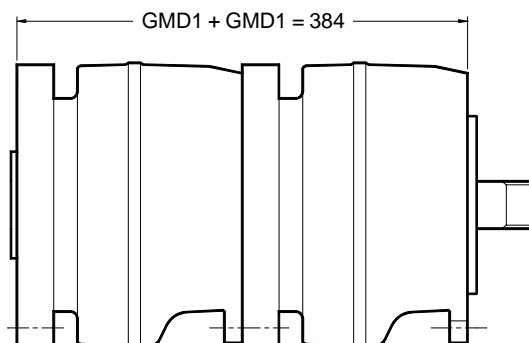
DOUBLE SHAFT MOTORS
SUITABLE FOR TANDEM MOUNT
5 PISTONS
SINGLE DISPLACEMENT



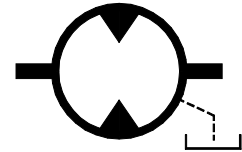
DIMENSIONS



TANDEM MOUNT



DOUBLE SHAFT MOTORS
SUITABLE FOR TANDEM MOUNT
5 PISTONS
SINGLE DISPLACEMENT



DISPLACEMENT TABLE

Nominal displacement		100	150	175	200	250	300	320
Displacement	cm ³ /rev	99	154	172	201	243	290	314
Piston Ø	mm	28	35	37	40	44	48	50
Shaft stroke	mm	32	32	32	32	32	32	32
Specific torque	Nm/bar	1.54	2.40	2.68	3.14	3.80	4.52	4.90
Peak pressure	bar	450	425	400	375	375	350	350
Peak speed	rpm	800	800	800	800	700	600	600
Peak power	kW	50	50	50	50	50	50	50

Approx weight: 35 kg

Case oil quantity: 1 lit

For performance characteristics see GM1-series catalogue.

BEARING LIFETIME

