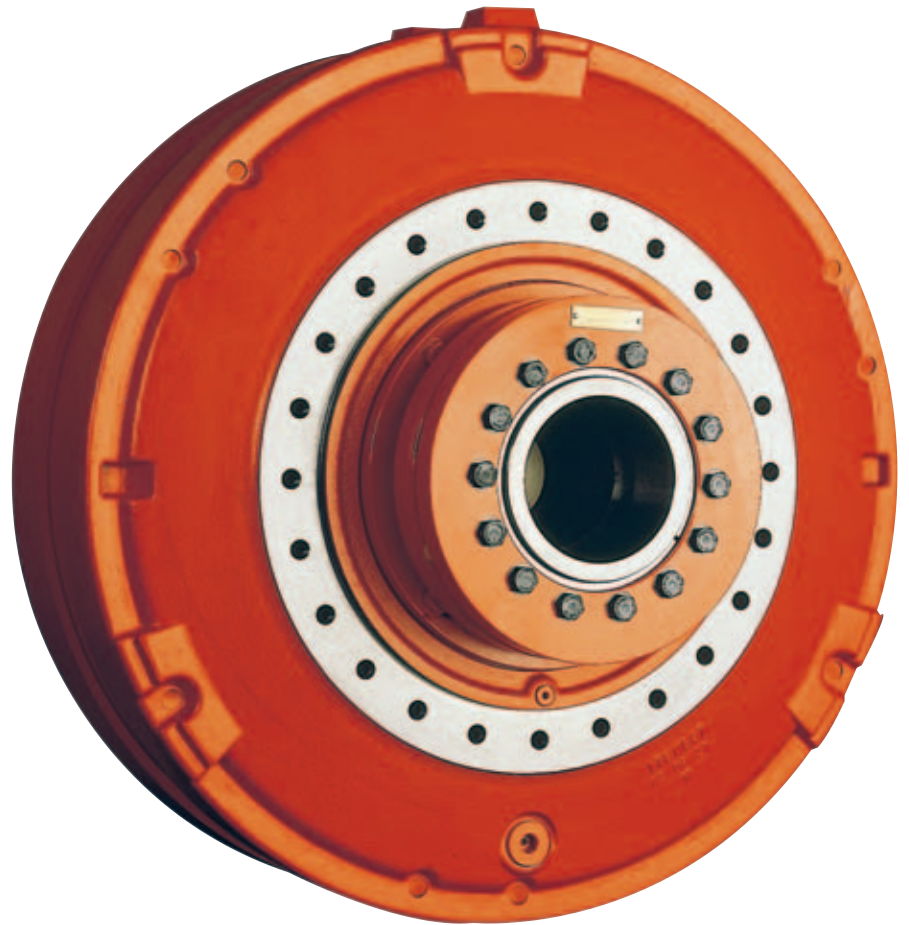


## Marathon

Häggglunds hydraulic motors



Häggglunds Marathon motor is the largest hydraulic motor in the world. The obvious choice for tough heavy-duty applications.

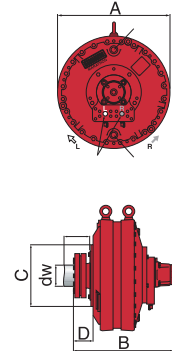
# Marathon Motors

Designed for tough high torque applications

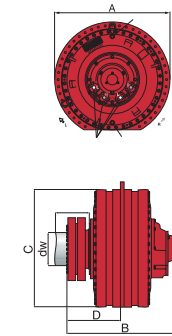
Dimensions, motors with hollow shaft, shrink disc coupling

| Motor   | A    | B    | C    | D   | E   | dw  | Weight | Main Conn.        | Drain Conn.         |             |
|---------|------|------|------|-----|-----|-----|--------|-------------------|---------------------|-------------|
| MA 141  | 828  | 738  | 460  | 146 | -   | 140 | 990    | SAE 1 1/2"        | BSP 1 1/4" (D1, D2) |             |
| MA 200  | 900  | 754  | 460  | 145 | -   | 155 | 1130   |                   |                     |             |
| MB 283  | 958  | 765  | 530  | 165 | -   | 180 | 1395   |                   |                     |             |
| MB 400  | 1044 | 784  | 530  | 172 | -   | 200 | 1625   |                   | SAE 2"              | BSP 1" (D3) |
| MB 566  | 1168 | 836  | 700  | 198 | -   | 260 | 2108   |                   |                     |             |
| MB 800  | 1288 | 856  | 700  | 198 | -   | 260 | 2580   |                   |                     |             |
| MB 1150 | 1460 | 1205 | 1288 | 567 | -   | 340 | 4600   | BSP 1 1/4" (D1-4) |                     |             |
| MB 1600 | 1460 | 1205 | 1288 | 567 | -   | 340 | 4600   |                   |                     |             |
| MB 2400 | 1460 | 1531 | 1288 | 620 | 313 | 360 | 6460   |                   |                     |             |
| MB 3200 | 1460 | 1822 | 1288 | 651 | 586 | 460 | 8930   |                   |                     |             |
| MB 4000 | 1460 | 2095 | 1288 | 651 | 859 | 460 | 10 750 |                   |                     |             |

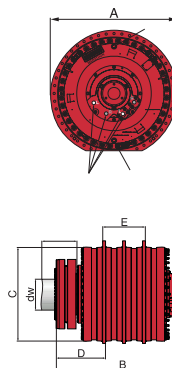
Marathon MA 141, 200, MB 283-MB 800



Marathon MB 1150, 1600, 2400



Marathon MB 3200, 4000



\* Magnum port end

\*\* Special considerations regarding charge pressure, cooling and choice of hydraulic system for speeds above rated.

\*\*\* The motors are designed according to DNV-rules. Test pressure 420 bar/6000 psi. Peak/transient pressure 420 bar/6000 psi maximum, allowed to occur 10 000 times.

\*\*\*\* Calculated as  $T = T_s \times (350 - 15) \times 0.97$ .

## Motor data

| Motor-type   | Displacement (cm <sup>3</sup> /rev) | Specific torque (Nm/bar) | Rated Speed** (rev/min) | Max. speed (rev/min) | Max. pressure (bar)*** | Max. torque (kNm)**** |
|--------------|-------------------------------------|--------------------------|-------------------------|----------------------|------------------------|-----------------------|
| MA 141       | 8890                                | 141                      | 56                      | 80                   | 350                    | 46                    |
| MA 200       | 12575                               | 200                      | 38                      | 55                   | 350                    | 65                    |
| MB 283       | 17768                               | 283                      | 38                      | 50                   | 350                    | 92                    |
| MB 400       | 25145                               | 400                      | 28                      | 35                   | 350                    | 130                   |
| MB 566       | 35561                               | 566                      | 28                      | 35                   | 350                    | 184                   |
| MB 800-283*  | 17768                               | 283                      | 80                      | 130                  | 350                    | 92                    |
| MB 800-400   | 25145                               | 400                      | 36                      | 50                   | 350                    | 130                   |
| MB 800-400*  | 25145                               | 400                      | 56                      | 95                   | 350                    | 130                   |
| MB 800-575*  | 36121                               | 575                      | 42                      | 65                   | 350                    | 187                   |
| MB 800       | 50265                               | 800                      | 18                      | 25                   | 350                    | 260                   |
| MB 800-800*  | 50265                               | 800                      | 28                      | 45                   | 350                    | 260                   |
| MB 1150-400  | 25145                               | 400                      | 90                      | 125                  | 350                    | 130                   |
| MB 1150-566  | 35561                               | 566                      | 70                      | 110                  | 350                    | 184                   |
| MB 1150-683  | 42899                               | 683                      | 62                      | 90                   | 350                    | 222                   |
| MB 1150-800  | 50258                               | 800                      | 55                      | 75                   | 350                    | 260                   |
| MB 1150-975  | 61249                               | 975                      | 40                      | 62                   | 350                    | 317                   |
| MB 1150      | 72241                               | 1150                     | 38                      | 53                   | 350                    | 374                   |
| MB 1600-1375 | 86392                               | 1375                     | 30                      | 43                   | 350                    | 447                   |
| MB 1600      | 100529                              | 1600                     | 28                      | 38                   | 350                    | 520                   |
| MB 2400-1725 | 108383                              | 1725                     | 22                      | 33                   | 350                    | 560                   |
| MB 2400-1950 | 122520                              | 1950                     | 22                      | 30                   | 350                    | 634                   |
| MB 2400-2175 | 136657                              | 2175                     | 18                      | 27                   | 350                    | 707                   |
| MB 2400      | 150794                              | 2400                     | 16                      | 24                   | 350                    | 780                   |
| MB 3200      | 201059                              | 3200                     | 10                      | 16                   | 350                    | 1040                  |
| MB 4000      | 251323                              | 4000                     | 8                       | 12                   | 350                    | 1300                  |