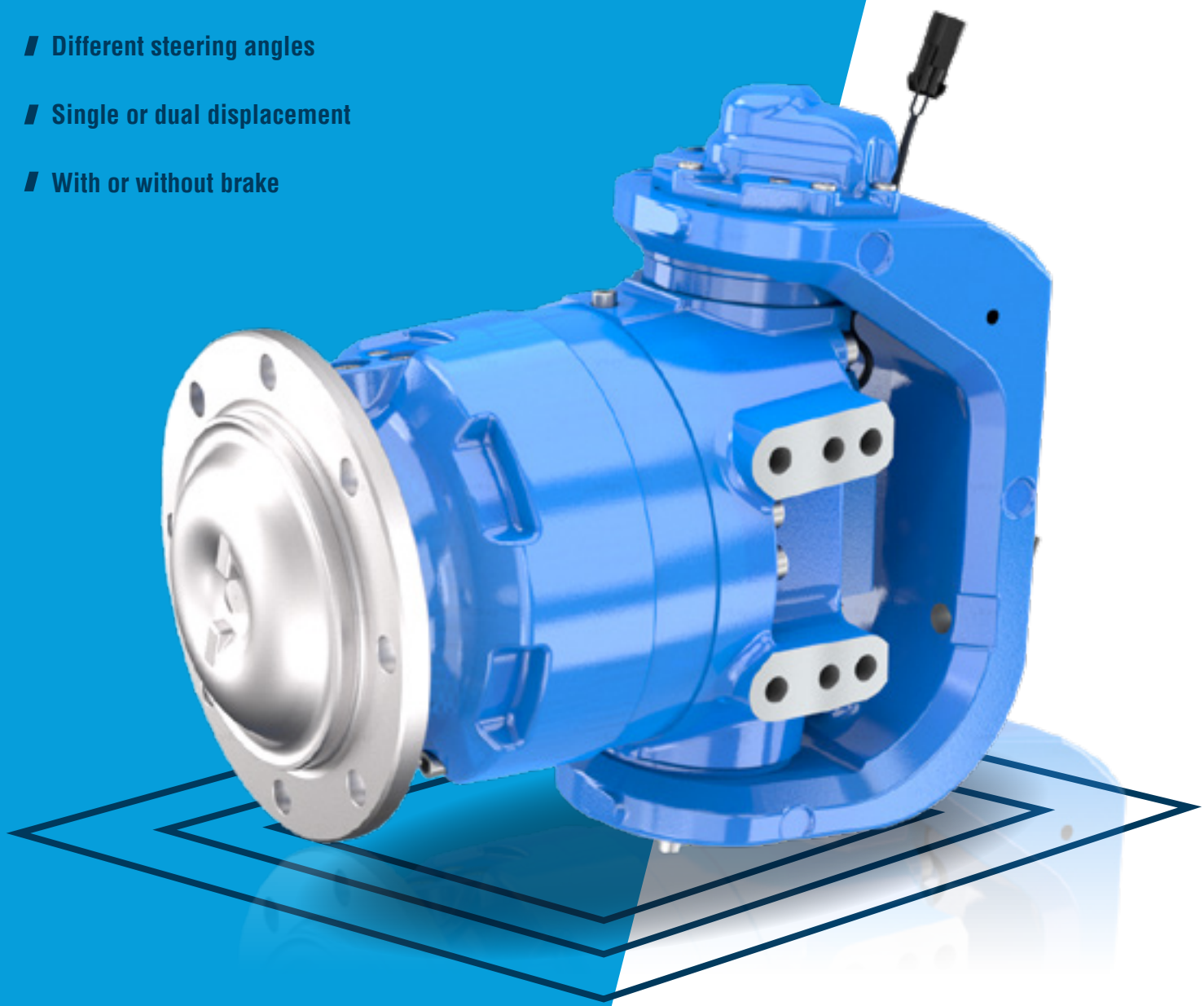
STEERABLE WHEEL MOTORS

EASY MOTORIZATION OF STEERING WHEELS

- Integrated pivot
- Different steering angles
- Single or dual displacement
- With or without brake



MG / MGE

MG/MGE02 ▪ MG/MGE05
MG/MGE11 ▪ MG21 ▪ MG25

From 172 to 2 812 cm^3/rev. [10.5 to 171.6 cu.in/rev.]
Up to 20 139 N.m [14,854 lbf.ft]
Up to 450 bar [6,530 PSI]
Up to 510 rpm
Up to 90 kW [120 HP]











Performance

		First displacement*				Second displacement**			
	Max. Pressure bar [PSI]	Displacement range cm³/rev [cu.in/rev]	Max. Torque*** N.m [lbf.ft]	Max. Speed RPM	Max. Power kW [HP]	Displacement range cm³/rev [cu.in/rev]	Max. Torque*** N.m [lbf.ft]	Max. Speed RPM	Max. Power kW [HP]
MG02	450 [6,527]	172 - 255 [10.5] - [15.6]	1 800 [1,227]	390	18 [24]	86 - 128 [5.2] - [7.8]	916 [676]	510	12 [16]
MGE02	400 [5,802]	332 - 398 [20.2] - [24.3]	2 500 [1,843]	200	22 [29.5]	166 - 199 [10.1] - [12.1]	1 260 [930]	275	16,5 [22]
MG05	450 [6,527]	260 - 560 [15.9] - [34.2]	4 010 [2,957]	420	29 [39]	130 - 280 [7.9] - [17.1]	1 862 [1,373]	420	19 [35]
MGE05	400 [5,802]	503 - 749 [30.7] - [45.7]	4 768 [3,517]	225	29 [39]	251 - 374 [15.3] - [22.8]	3 202 [2,361]	275	19 [35]
MG11	450 [6,527]	730 - 1 259 [44.5] - [76.8]	9 000 [6,638]	200	50 [67]	365 - 630 [22.3] - [38.4]	4 500 [3,319]	200	33 [44]
MGE11	400 [5,802]	1 263 - 1 687 [77.0] - [102.9]	10 700 [7,891]	170	50 [67]	632 - 844 [38.5] - [51.4]	5 370 [3,960]	190	33 [44]
MG21	400 [5,802]	1 674 - 2 519 [102.1] - [153.6]	16 030 [11,823]	138	80 [107]	837 - 1 260 [51.0] - [76.8]	8 020 [5,915]	138	53 [71]
MG25	450 [6,527]	2 340 - 2 812 [142.8] - [171.6]	20 139 [14,854]	110	90 [120]	1 170 - 1 406 [71.4] - [85.8]	10 070 [7,427]	110	70 [94]

*Available for single or dual displacement motors
**Only available for dual displacement motors
***Max. theoretical torque (N.m) : 1/(20 π) x max. displacement (cm³/rev.) x max. pressure (bar)

MOTORS

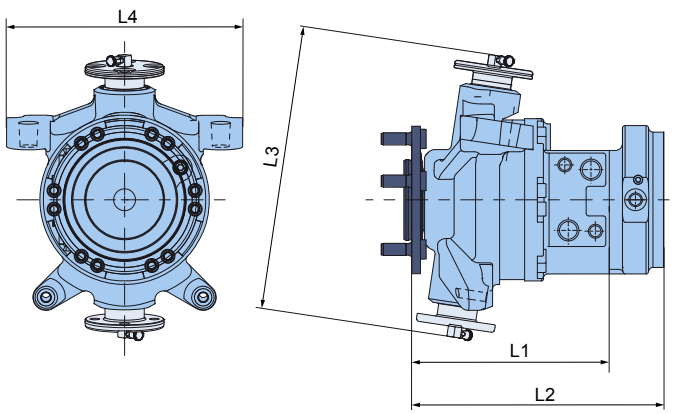
Dimensions

1C : One displacement
2C : Dual displacement

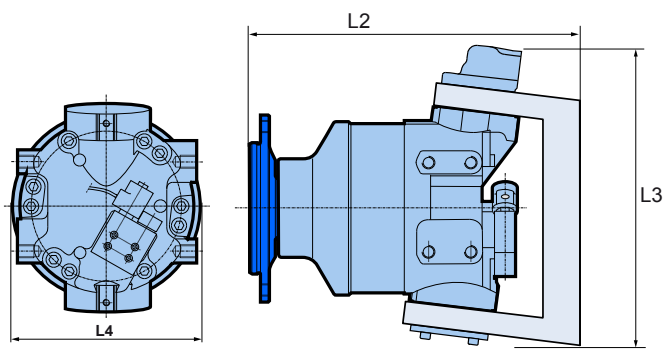
			MG02 MGE02	MG05 MGE05	MG11 MGE11	MG21	MG25
L1	1C	mm [in]	215,1 [6,47]	- -	- -	- -	- -
	2C	mm [in]	251,4 [9.90]	- -	- -	- -	- -
L2 max.*	1C	mm [in]	262,9 [10.35]	426 [16.77]	513 [20.20]	554 [21.81]	584 [22.99]
	2C	mm [in]	290,4 [11.43]	426 [16.77]	513 [20.20]	554 [21.81]	584 [22.99]
L3		mm [in]	326,5 [12.85]	442 [17.40]	505 [19.88]	505 [19.88]	554 [21.81]
L4		mm [in]	270 [10.63]	224 [8.81]	314 [12.36]	314 [12.36]	473 [18.62]
Weight max.**		kg [lb]	47,8 [105.2]	97 [213]	210 [463]	230 [507]	232 [511]

* Wheel motor with the longest multidiscs brake.
** Two displacements wheel motor with multidiscs brake.

MG02-MGE02



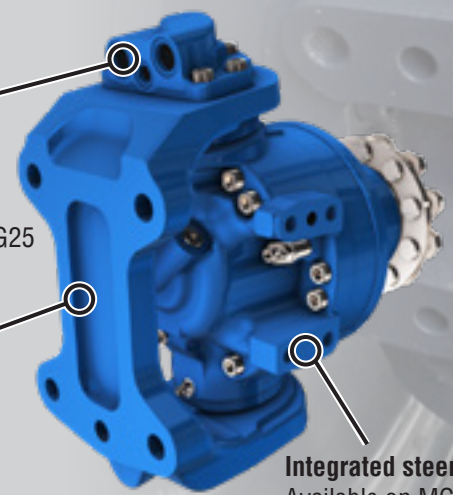
MG05-MGE05 / MG11-MGE11 / MG21 / MG25



PLUG AND PLAY MOTOR

Easy integration onto the chassis

The MG motor optimizes the design of motorized steering wheels. The integration of the pivot function, steering attachments and bevel stops on the casing of the MG motor, simplify the assembly of motorized steering wheels on a chassis.



Hydraulic pivot for easy piping
- No movement of high pressure pipes
- Avoid pipe damage
- Optimized length of pipes
- On MG05/E05, MG11/E1, MG21 and MG25

C-Frame
Direct mounting on machine axle

Integrated steering bracket attachment
Available on MG05/E05, MG11/E11, MG21 and MG25

Brakes

Multidisc brake

- T brake: brake with reinforced rear plate
  (release pressure: 12 to 30 bar [174 to 435 PSI])
- P brake: brake mounted in the bearing support
  (release pressure: 16 to 30 bar [232 to 435 PSI])

Max. parking braking torque

	N.m [lb.ft]	MG02 MGE02	MG05 MGE05	MG11 MGE11
T03	2 500 [1,840]	●		
P05	4 500 [3,320]		●	
P16	11 000 [8,113]			●



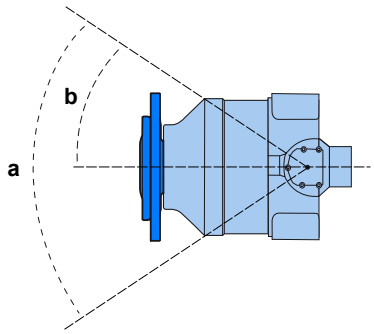
MG05 motor
with multidisc brake
in the bearing support

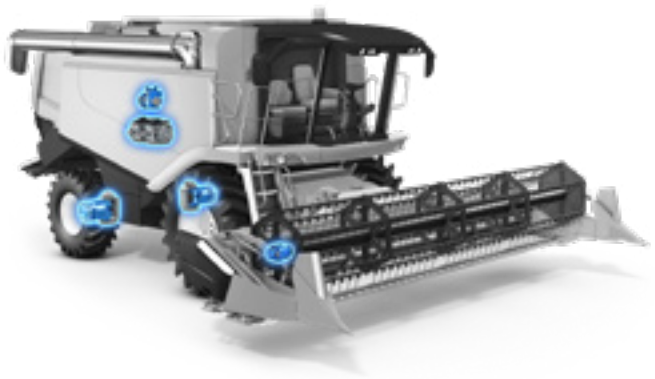


MG11 motor
with multidisc brake
in the bearing support

Steering angle

	MG05 MGE05	MG11 MGE11	MG21	MG25	MG02 MGE02
Angle a	90°	80°	80°	80°	The steering angles a and b can be differents within the limits of the customer's chassis conception and the hydraulics connections. The steering angle is adjusted with the steering stop screws.
Angle b	45°	40°	40°	40°	

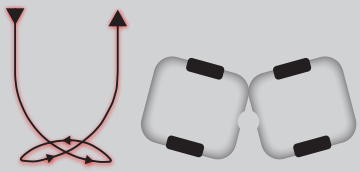




ENHANCED STEERING ANGLE

Compared to a vehicle equipped with an articulated chassis, a vehicle fitted with motorized steering wheels offers a better steering angle and can consequently perform u-turns in a smaller radius using fewer movements.

Articuled chassis



Chassis with motorized steering wheels



3 steering modes available:



On the front wheel for road transfers



Four wheel steer to tighten the turning radius



Crab steering for sideways machine move-ment

Optional features

Temperature control

	MG02-E02	MG05-E05	MG11-E11	MG21	MG25
High efficiency (zero clearance pistons/ring)	●	●			
Additional case flushing port	●				

Speed

	MG02-E02	MG05-E05	MG11-E11	MG21	MG25
High speed / Low pressure drop (Butterfly valving)	●	●			
Speed sensor	●	●	●	●	●



Reinforcement

	MG02-E02	MG05-E05	MG11-E11	MG21	MG25
Extra long life (Diamond™)	●	●	●	●	●

High pressure connection

	MG02-E02	MG05-E05	MG11-E11	MG21	MG25
SAE Flange	●				
Metric	●	●	●	●	●
UNF	●	●	●	●	●



