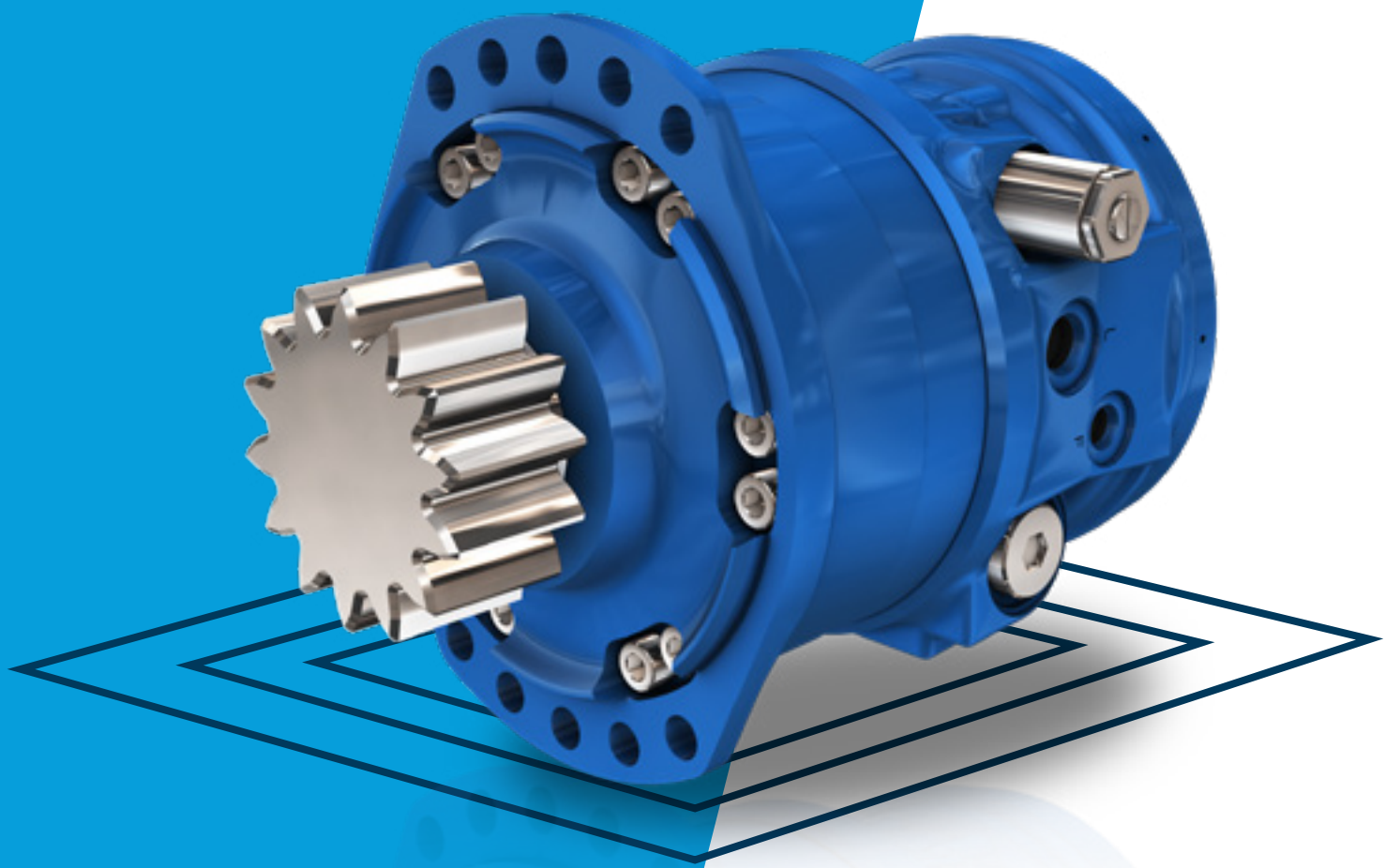
SWING DRIVE

SMOOTH AND PRECISE SWING DRIVE

- Compact motors
- Large choice of pinions
- Integrated shockless or anti-rebound valves
- Integrated brake



MZ /MZE

MZ/MZE02 ▪ MZE03 ▪ MZ/MZE05

From 213 to 750 cm^3/rev. [13.0 to 45.7 cu.in/rev.]
Up to 3 100 N.m [2,286 lbf.ft]
Up to 260 bar [3,771 PSI]
Up to 470 rpm
Up to 29 kW [39 HP]









Performance

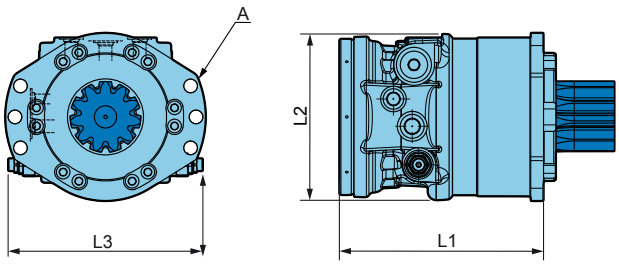
	Max. Pressure bar [PSI]	Displacement range cm³/rev [cu.in/rev]	Max. Torque* N.m [lbf.ft]	Max. Speed RPM	Max. Power kW [HP]
MZ02	260 [3,771]	213 - 255 [13.0] - [15.6]	1 055 [778]	470	18 [24]
MZE02	260 [3,771]	332 - 398 [20.2] - [24.3]	1 650 [1,217]	265	22 [30]
MZE03	260 [3,771]	450 - 500 [27.5] - [30.5]	2 070 [1,526]	155	22 [30]
MZ05	260 [3,771]	468 - 560 [28.6] - [34.2]	2 320 [1,711]	240	29 [39]
MZE05	260 [3,771]	625 - 750 [38.1] - [45.7]	3 100 [2,286]	190	29 [39]

*Max. theoretical torque (N.m) : 1/(20 π) x max. displacement (cm³/rev.) x max. pressure (bar)



Dimensions

		MZ02-MZE02	MZE03	MZ05-MZE05
L1	mm [in]	239 [9.41]	219 [8.62]	266,3 [10.48]
L2	mm [in]	195 [7.68]	195 [7.68]	228 [8.98]
L3	mm [in]	228 [8.97]	222 [8.74]	294 [11.57]
A dia. max.	mm [in]	340 [13.39]	302 [11.89]	300 [11.81]
Weight max.	kg [lb]	42 [93]	46 [101]	65 [143]

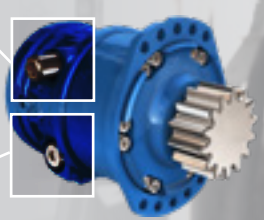


SMOOTH AND PRECISION

Built-in pressure relief and check valves

The built-in valves ensure smoother acceleration or deceleration of the turret. Coupled with the radial piston motor technology, these valves guarantee extremely accurate positioning of the mini-excavator boom.
The technical characteristics of the MZ motor - no gear box and low internal leakages - reduce turret drifting when operating on slopes.

Pressure relief valve with or without dynamic shockless behavior
Limits the pressure in the high pressure lines of the hydraulic motor.
Allows the absorption of the pressure peaks.



Check valve
Allows to compensate for leakages to prevent cavitation.

Pinion types

		MZ02-MZE02				MZE03		MZ05-MZE05	
Norm		NF ISO 53	NF ISO 53	NF ISO 53	NF ISO 53	NF ISO 53	NF ISO 53	NF ISO 53	NF ISO 53
Module		6	5	5	4,5	6	7	8	8
Number of teeth		14	17	14	11	14	12	12	11
Pitch diameter	mm [in]	84 [3.31]	85 [3.35]	70 [2.76]	49,5 [1.95]	84 [3.31]	84 [3.31]	96 [3.78]	88 [3.46]
Pressure angle		20°	20°	20°	20°	20°	20°	20°	20°

Brakes

Multidisc brake mounted at the rear of the motor

Max. braking torque

N.m [lb.ft]	MZ02-MZE02	MZE03	MZ05-MZE05
1 100 [810]	●		
1 830 [1,350]	●		
2 200 [1,620]		●	
4 910 [3,621]			●

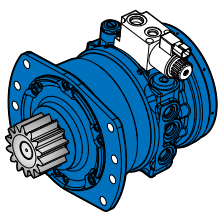
Integrated multidisc brake



Automatic de-braking valve

De-braking valve controls time for braking / brake release of the hydraulic motor´s static brake.

	MZ02-MZE02	MZE03	MZ05-MZE05
Hydraulic		●	●
Electrical	●	●	



Electrical de-braking valve

MOTORS

FOR EXCAVATORS UP TO 24 TONS

MS Motors with pinion shaft

Thanks to its modular design, high performance and reliability, the MS motor is also a perfect solution for swing-drive of small / medium excavators.

	Displacement range cm³/rev [cu.in/rev]	Max. Torque* N.m [lbf.ft]	Excavator size
MS08	467 - 934 [28.5] - [57.0]	3 850 [2,840]	Up to 13 tons
MSE08	1 043 - 1 248 [63.6] - [76.2]	5 150 [3,796]	
MS11	730 - 1 259 [44.5] - [76.8]	5 200 [3,835]	Up to 18 tons
MSE11	1 263 - 1 687 [77.1] - [102.9]	6 950 [5,126]	
MS18	1 091 - 1 911 [66.6] - [116.6]	7 900 [5,827]	Up to 24 tons
MSE18	2 340 - 2 812 [142.8] - [171.6]	11 600 [8,556]	

*Theoretical torque at 260 bar [3771 PSI]



More information > Page 94