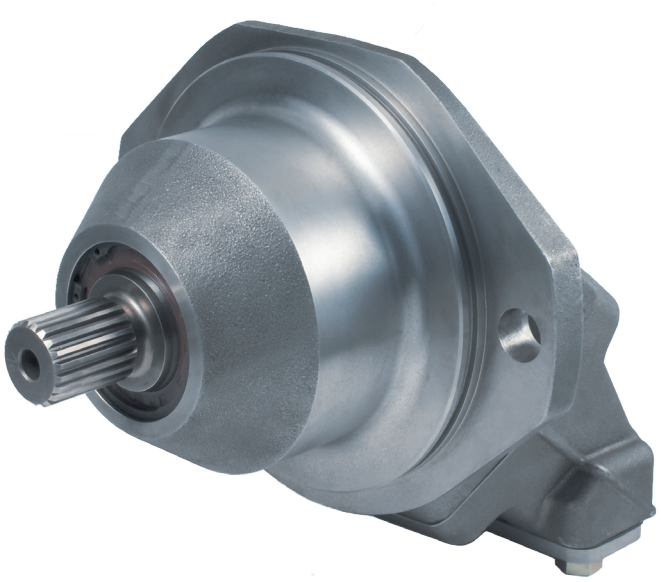
CMF Fixed displacement Bent axis motor

Linde Hydraulics



With the next generation of the bent axis motors, Linde Hydraulics expands its customer oriented portfolio of high-quality components for hydraulic systems.

The fixed displacement motor CMF is characterized by its high external load and speed capacity. Due to its standardized interfaces, e.g. the plug-in flange according to ISO, the CMF fits a high variety of applications, without the need of adaptors.

Low windage losses in combination with the low weight of the motor support the cost-effective operation of the application.

Design features

>> Fixed displacement bent axis motor
>> Standardized interfaces
>> Speed sensor optional

Advantages

>> High power density
>> High speeds
>> Low windage losses

General technical data

Nominal size			80
Displacement		cc/rev	80
Speed	Maximum operating speed	rev/min	4500
	Maximum speed[1]	rev/min	5000
Pressure	Nominal pressure	bar	450
	Maximum pressure[2]	bar	500
	Maximum housing pressure	bar	2.5
Torque	Output torque at Δp= 430 bar	Nm	547
Corner power (theoretical)		kW	258
Weight (without oil) approx.		kg	23.0

[1] highest transient speed, that can temporarily occur
[2] highest transient pressure, that can temporarily occur

CMF

Fixed displacement
Bent axis motor

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Customer interfaces

Shafts

>> **ANSI** B92.1 – 1970 SAE 16/32, 21 T

>> **DIN** 5480 – W40x2x30x18x9g

>> More shafts upon request

Flanges

>> **ISO** 3019 – 1/127 – 4
(SAE J744; SAE C)

>> **ISO** 3019 – 2 - 140B4HL

>> **Plug-in ISO** 3019 – 2/190 – 2

>> More flanges upon request

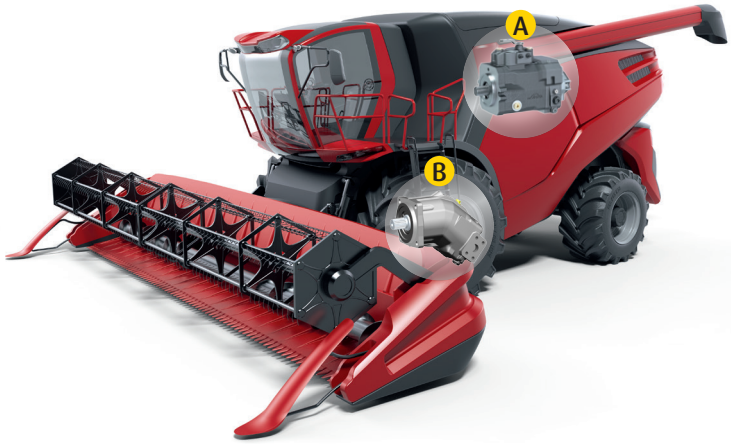
Ports

>> **Work ports** ISO 6162 – 2
- Side Ports
- Twin Ports

>> **Threaded ports** ISO 6149 – 1

>> More ports upon request

Application examples



Category

200 kW — **450 kW** — 900 kW

Category

100 kW — **155 kW** — 500 kW

Equipment

A	1 x HPV 105-02 E2
B	1 x HMV 210-02
C	1 x HMV 135-02
D	1 x CMF 80

Equipment

A	1 x HPV 105-02 M1R
B	2 x CMF 80

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