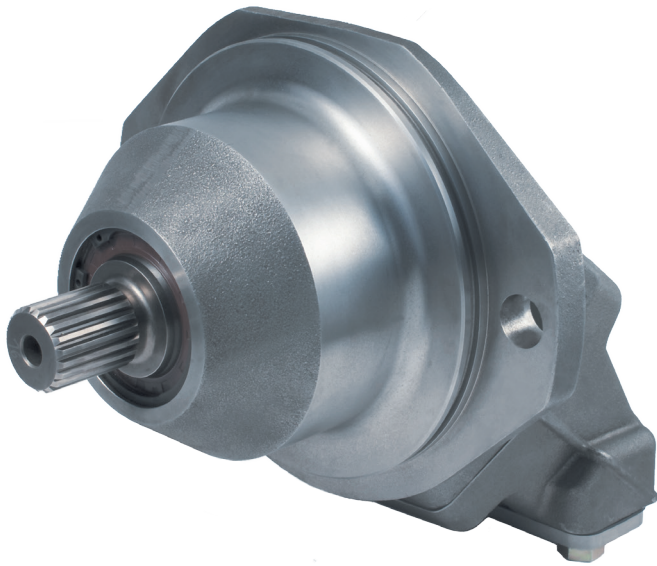


**CMF**

## Fixed displacement Bent axis motor

Linde Hydraulics

*Linde*

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		
Displacement		cc/rev
Speed	Maximum operating speed	rev/min
	Maximum speed <sup>1</sup>	rev/min
Pressure	Nominal pressure	bar
	Maximum pressure <sup>2</sup>	bar
	Maximum housing pressure	bar
Torque	Output torque at $\Delta p = 430$ bar	Nm
Corner power (theoretical)		kW
Weight (without oil) approx.		kg

	80
	80
	4500
	5000
	450
	500
	2.5
	547
	258
	23.0

<sup>1</sup> highest transient speed, that can temporarily occur

<sup>2</sup> highest transient pressure, that can temporarily occur

# CMF

## Fixed displacement Bent axis motor

Linde Hydraulics

### 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

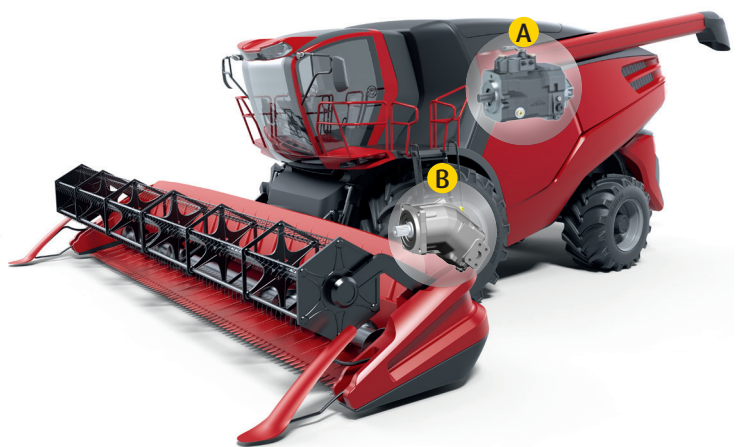
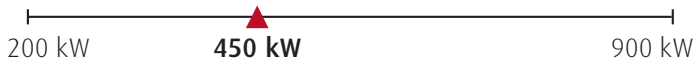
>> **Threaded ports** ISO 6149 – 1

>> More ports upon request

### Application examples



#### Category



#### Category



#### 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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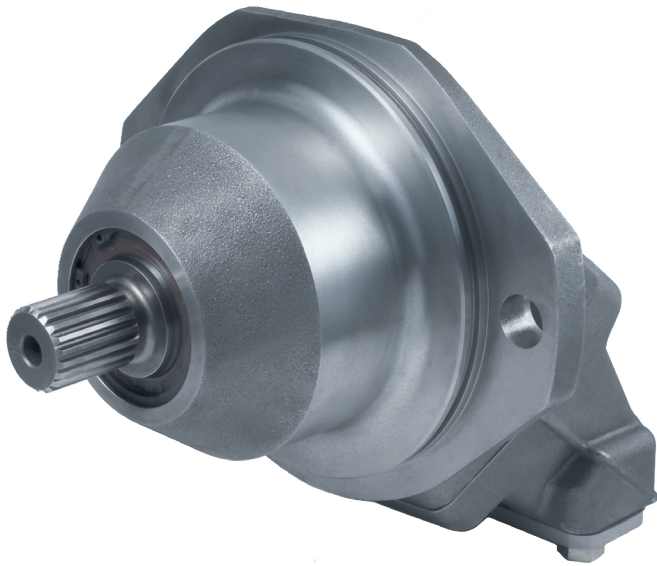
Email [info@linde-hydraulics.com](mailto:info@linde-hydraulics.com)

Web <http://www.linde-hydraulics.com>

**CMF**

## Fixed displacement Bent axis motor

Linde Hydraulics

*Linde*

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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		
Displacement		cc/rev
Speed	Maximum operating speed	rev/min
	Maximum speed <sup>1</sup>	rev/min
Pressure	Nominal pressure	bar
	Maximum pressure <sup>2</sup>	bar
	Maximum housing pressure	bar
Torque	Output torque at $\Delta p = 430$ bar	Nm
Corner power (theoretical)		kW
Weight (without oil) approx.		kg

	80
	80
	4500
	5000
	450
	500
	2.5
	547
	258
	23.0

<sup>1</sup> highest transient speed, that can temporarily occur

<sup>2</sup> highest transient pressure, that can temporarily occur

# CMF

## Fixed displacement Bent axis motor

Linde Hydraulics

### 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

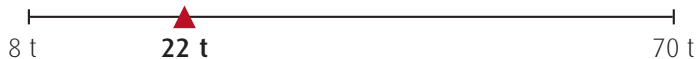
>> **Threaded ports** ISO 6149 – 1

>> More ports upon request

### Application examples



#### Category



#### Category



#### Equipment

- A** 2 x HPV 135-02 E1
- B** 1 x HPR 75-02 LP
- C** 1 x VW14 M3
- D** 1 x HMV 280-02 E1
- E** 1 x CMF 80

#### Equipment

- A** 2 x HPR 210-02
- B** 1 x VT8
- C** 1 x CMF 80
- D** 1 x HMR 135-02

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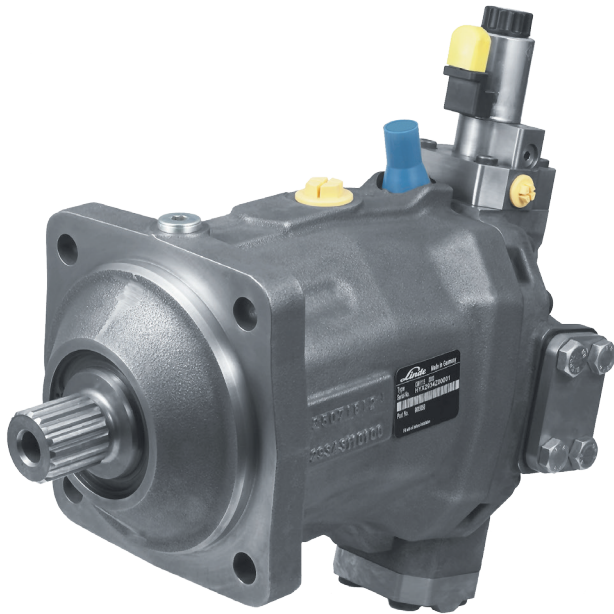
Email [info@linde-hydraulics.com](mailto:info@linde-hydraulics.com)

Web <https://www.linde-hydraulics.com>

**CMV**

# Variable displacement Bent axis motor

Linde Hydraulics

*Linde*

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

The variable displacement motor CMV 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

- >> Variable displacement bent axis motor
- >> Standardized interfaces
- >> Speed sensor optional

## Advantages

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

## General technical data



Nominal size			60	85	115	140	170	215
Displacement	Maximum displacement	cc/rev	60	85	115	140	170	215
	Maximum operating speed at Vmax	rev/min	4450	3900	3550	3350	3100	2900
Speed	Maximum operating speed at Vmin	rev/min	7200	6800	6150	5800	4900	4600
	Nominal pressure	bar	450	450	450	450	450	450
Pressure	Maximum pressure <sup>1</sup>	bar	500	500	500	500	500	500
	Maximum housing pressure	bar	2.5	2.5	2.5	2.5	2.5	2.5
Torque	Output torque at Δp= 430 bar and Vmax	Nm	411	582	787	958	1163	1471
Corner power (theoretical)		kW	191	238	293	336	378	447
Weight (without oil) approx.		kg	27.7	36.3	44.8	59.2	62.1	76.4

<sup>1</sup> highest transient pressure, that can temporarily occur

# CMV

## Variable displacement Bent axis motor

Linde Hydraulics

### Customer interfaces

#### Shafts

>> DIN 5480

>> ANSI B92.1 – 1970

>> More shafts upon request

#### Flanges

>> ISO 3019 – 1 (SAE J744)

>> ISO 3019 – 2 (metric)

>> Plug-in ISO 3019 – 2

>> More flanges upon request

#### Ports

>> Work ports ISO 6162 – 2

- Side Ports

- Twin Ports

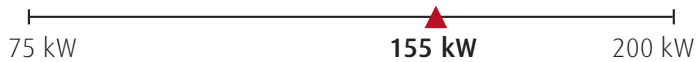
>> Threaded ports ISO 6149 – 1

>> More ports upon request

### Application examples



#### Category



#### Equipment

- A** 1 x HPV 210-02 E2
- B** 4 x CMV 60 plug-in



#### Category



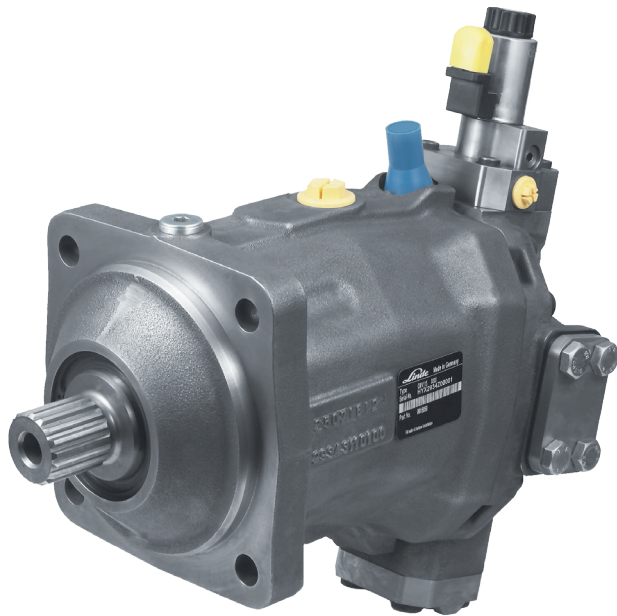
#### Equipment

- A** 1 x HPV 105-02 M1R
- B** 1 x CMV 115 plug-in

**CMV**

# Variable displacement Bent axis motor

Linde Hydraulics

*Linde*

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

The variable displacement motor CMV 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 CMV 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

- >> Variable displacement bent axis motor
- >> Standardized interfaces
- >> Speed sensor optional

## Advantages

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

## General technical data



Nominal size			60	<b>85</b>	115	<b>140</b>	170	<b>215</b>
Displacement	Maximum displacement	cc/rev	60	85	115	140	170	215
	Maximum operating speed at Vmax	rev/min	4450	3900	3550	3350	3100	2900
Speed	Maximum operating speed at Vmin	rev/min	7200	6800	6150	5800	4900	4600
	Nominal pressure	bar	450	450	450	450	450	450
Pressure	Maximum pressure <sup>1</sup>	bar	500	500	500	500	500	500
	Maximum housing pressure	bar	2.5	2.5	2.5	2.5	2.5	2.5
	Torque (theoretical)	Output torque at $\Delta p = 430$ bar and Vmax	Nm	411	582	787	958	1163
Corner power		kW	191	238	293	336	378	447
Weight (without oil) approx.		kg	27.7	36.0	44.0	59.0	62.0	76.4

<sup>1</sup> highest transient pressure, that can temporarily occur

# CMV

## Variable displacement Bent axis motor

Linde Hydraulics

### Customer interfaces

#### Shafts

>> DIN 5480

>> ANSI B92.1 – 1970

>> More shafts upon request

#### Flanges

>> ISO 3019 – 1 (SAE J744)

>> ISO 3019 – 2 (metric)

>> Plug-in ISO 3019 – 2

>> More flanges upon request

#### Ports

>> **Work ports** ISO 6162 – 2

- Side Ports

- Twin Ports

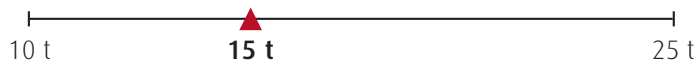
>> **Threaded ports** ISO 6149 – 1

>> More ports upon request

### Application examples



#### Category



#### Equipment

- A** 1 x HPV 105-02 E1 + 1x HPV 55-02 E5
- B** 1 x CMV 115
- C** 1 x HMF 35-02
- D** 1 x CMV 60 Plug-in



#### Category



#### Equipment

- A** 2 x HPV 55-02 E1P
- B** 2 x CMV 60 Plug-in

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