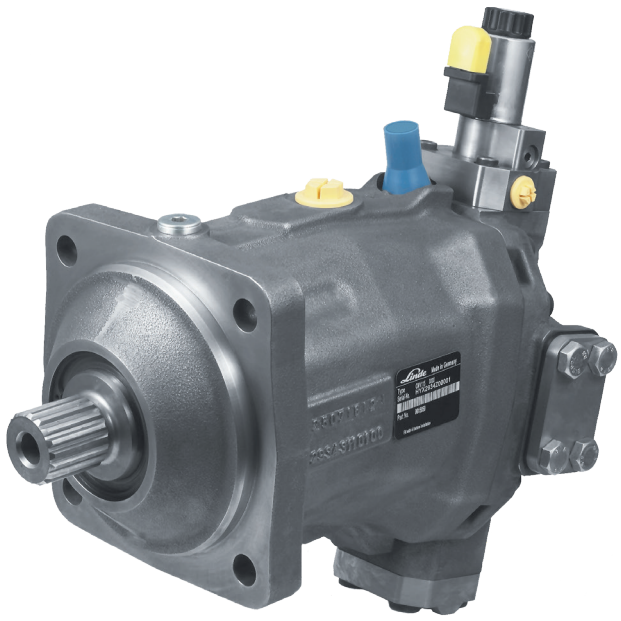
CMV

# Variable Displacement Motor

## Bent Axis Design

## Open & Closed Circuit Operation

Powertrain



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 | 85 | 115 | 140 | 170 | 215 |
| Displacement | Maximum displacement | cc/rev | 60 | 85 | 115 | 140 | 170 | 215 |
| Speed | Maximum operating speed at Vmax | rev/min | 4450 | 3900 | 3550 | 3350 | 3100 | 2900 |
| | Maximum operating speed at Vmin | rev/min | 7200 | 6800 | 6150 | 5800 | 4900 | 4600 |
| Pressure | Nominal pressure | bar | 450 | 450 | 450 | 450 | 450 | 450 |
| | Maximum pressure[1] | 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 | 1471 |
| 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 |

[1] highest transient pressure, that can temporarily occur

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## 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

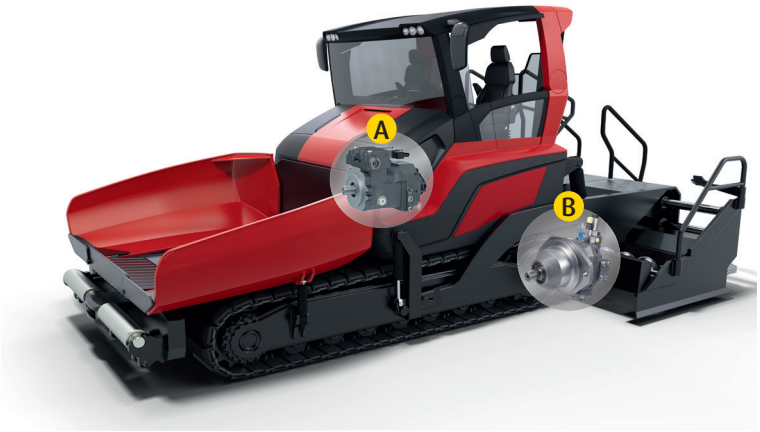
>> **Work ports** ISO 6162 – 2
- Side Ports
- Twin Ports

>> **Threaded ports** ISO 6149 – 1

>> More ports upon request

## Application examples




### Category

10 t | **15 t** | 25 t

### Equipment

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

### Category

5 m | **9 m** | 13 m

### Equipment

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

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