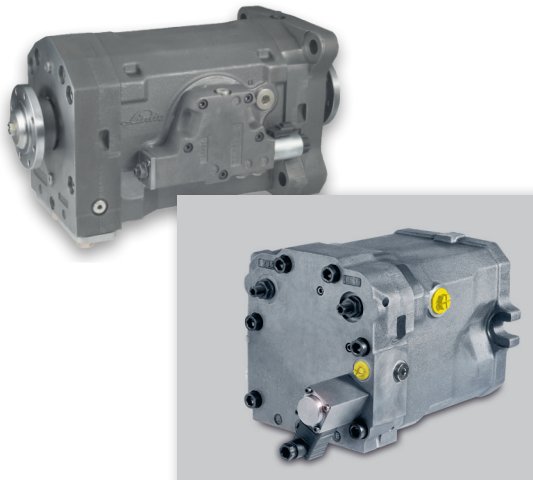


Open & Closed Circuit. Variable Displacement Motor. HMV-02.



Standard hydraulic motors at low speeds in their starting phase cannot generate the necessary torque. Therefore, the power of the fast spinning hydraulic motors has to be reduced by means of several step gearboxes down to the speed needed on the wheel. Somewhat higher windage losses and poorer mechanical efficiency are benevolently accepted in this context. Quite the opposite holds true for the motors by Linde Hydraulics: The motors of the Series 02 are capable of transmitting the required torque even at low speed and make it possible to start smoothly and sensitively.

Design characteristics

- Axial piston motor in swashplate design
- Optimized starting and low speed behaviour
- Swivelling to 0 cc/rev
- Hydrostatic plain bearing of the swashplate

Product advantages

- PTO through-drive motor
- Jerk-free low speed
- Large conversion range
- Extremely high angular acceleration possible

General technical data

HMV-02		
Nominal size		
Displacement	Max. displacement	cc/rev
Speed	Max. operating speed at V_{\max}	rpm
	Max. speed at V_{\max}^*	rpm
	Max. operating speed at V_{\min}	rpm
	Max. speed at V_{\min}^*	rpm
	Nominal pressure	bar
Pressure	Max. pressure**	bar
	Max. housing pressure	bar
Torque	Output torque ($\Delta p=430$ bar and V_{\max})	Nm
Corner power	($V_{\max} \times n_{\max}$ at $V_{\min} \times \Delta p$ 430 bar)	kW
Weight	approx. (without oil)	kg

55	75	105	135	165	210	280
54.7	75.9	105	135.6	165.6	210	281.9
4300	3800	3700	3200	3100	2700	2400
4400	4100	3800	3500	3400	3000	2700
4700	4400	4100	3700	3500	3200	2900
5300	5000	4700	4000	3900	3500	3200
450	450	450	450	450	450	450
500	500	500	500	500	500	500
2.5	2.5	2.5	2.5	2.5	2.5	2.5
374	519	719	928	1133	1438	1929
184	239	309	360	415	482	586
28	32	42	56	76	101	146

105 D	165 D
210	331.2
3300	2900
3400	3100
4100	3500
4400	3700
450	450
500	500
2.5	2.5
1437	2267
677	878
98	149

Customer interfaces

Control options						
	Proportional	2-Position	default= V_{\min}	default= V_{\max}	Pressure override	Pressure side selection
Electro-hydraulic	✓	✓	✓	✓	✓	✓
Hydraulic	✓	✓		✓	✓	

Sensors
Speed
✓

Flanges		
	2 hole	4 hole
SAE C	✓	
SAE D	✓	
SAE E		✓

Shafts****		
ISO 3019-1 (SAE J 744) ANSI B92.1-1970	Compagnon flange SAE J 1946 typ A	DIN 5480
✓	✓	✓

Through drive
Only for nominal sizes 105, 135, 165, 210, 280, 1050, 1650
✓

Ports****			
	ISO 6162-2 Radial	ISO 6162-2 Axial	ISO 6149-1
Work ports	✓	✓	
Threaded ports			✓

* highest transient speed, that can temporarily occur | ** highest transient pressure, that can temporarily occur | **** Availability depends on nominal size



LEARN MORE
HMV-02