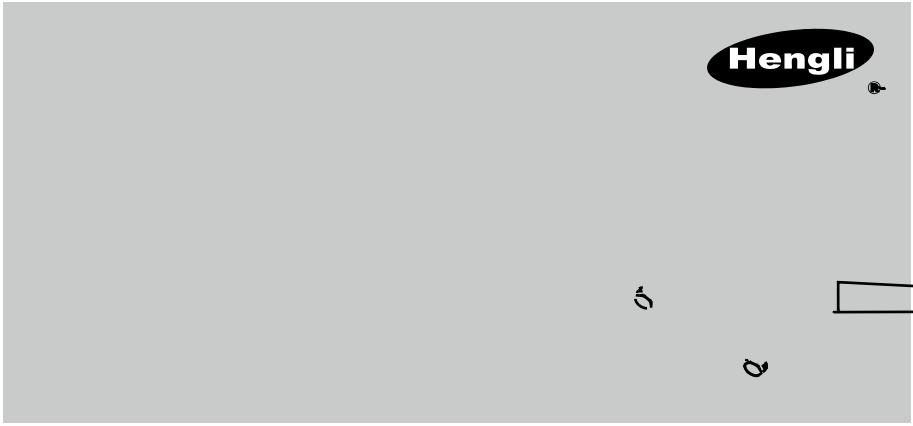

Contents

Overview

HDL series orbital hydraulic motor is a rotor distribution hydraulic motor with independent intellectual property rigths of Hengli, which uses a special patented end face compensation structure, which can achieve high volumetric efficiency, high starting efficiency and good load retention under high pressure conditions, and is suitable for the crawler travelling drive of mini excavators. The integrated counterbalance valve design can be selected to provide smoother speed control and ensure the safety of the motor during use.

Advantages

· Adoption of wheelside output for compact installation enables high throughput.
· The unique balance plate design ensures stable operation at low speeds and high pressures.
· The advanced fow distribution system design greatly improves e f ciency and makes the motor more compact.
· A variety of fange connection sizes are provided, facilitating installation.
· Optional integrated counterbalance valve design, integral design of sprocket and motor parts.

Applications

· Mini excavator
· Mini spider aerial worker
· Mini skid steer loader(crawler)
· Mini crawler dump truck
· Crawler wood chipper
· Hydraulic dumper trucks
· Multi-functional remote-controlled robots

		(DL-200	(DL-260	(DL-300	(DL-375	(DL-400	(DL-470
" isplacement	cc		2	2 5	3 9	3 4 6	1 4 0 3
Theoretical max. output t o . r	m 8q		9 3u	9 5 4e	9 9 9 9 8 9		
- a x d i f p r bar e 2s			2 0s	1 0 7u	1 7 7 1r 5 3		
- a r x p 1. m1 0			1 0 s	0 1 0 0 p1 0 0			
- e c — m h — a — n — i t o . r q u e							
a — Cl O pa O p tn O p t i O p t i Op t i op							
" r — Ca O pi O p tn O p t i Op t i op							
- a x 5 5 5 5 b 5 a 5 p r bar e s u r							
pplicable tonnage	Ton	~0.5	0.5~0.8	0.8~1.0	1.0~1.3	1.3~1.5	1.5~1.7

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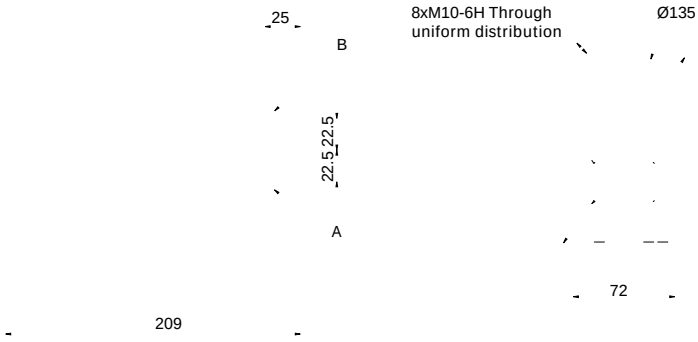
· It is not recommended that the motor be at max. torque and max. speed at the same time.
· The filtration standard of ISO 4406 cleaning standard 20/18/13 is recommended.
· High quality anti-wear hydraulic fuids are recommended.
· When the temperature is 50° C, the minimum viscosity of the oil is recommended to be 20mm^2/s.
· The recommended maximum operating temperature is 82 .
· To assure best motor life, run motor for approx. 1 hour at 30% of rated load before operating at full load, and the motor should be made sure that the inside of the motor is fller vh ž. ы

Installation size



Shaft end dimension

Length and weight

Hydraulic diagram

Rotation direction: CW

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When facing the motor shaft extension direction,port A is high pressure oil,the output shaft rotates CW; Otherwise, it rotates CCW.

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