

Speed shift final drive
LO-HI SPEED



Bonfiglioli: Specific Solutions for Power Transmission and Motion Control

Product diversification, process automation, and quality have enabled Bonfiglioli to play a leading role in the industry. Bonfiglioli's policy focuses on integrated solutions, competence and innovative technology as key factors, indispensable to ensure customer satisfaction, while production is aimed at achieving the highest standards.

Bonfiglioli product portfolio meets the toughest and most sophisticated requirement for Industrial Process and Automation Solution and for Mobile Equipment Solutions.

Such market areas are covered through the following Product Lines:



representing Helical, Bevel and Worm Gearmotors and Gear Units



representing Planetary Gearmotors and Gear Units



representing AC drives



Speed shift final drive



610W2/3

Wheel drives

Gear shift final drive LO-HI Speed

This gear shift final drive is specifically designed for wheeled and tracked machines featuring a significantly different travel/operating speed ratio.

The product is the ideal solution for road paving machines, construction equipment, as well as agricultural and forestry machines.



Product features:

- Dual gear ratio, hydraulic Lo/Hi-speed shifting
- Dynamic and emergency brake
- Static parking brake
- Top value for torque density
- High OHL capability
- Wide choice of gear ratios
- Fits most hydraulic motors
- Extremely compact, fits where space is at a premium.

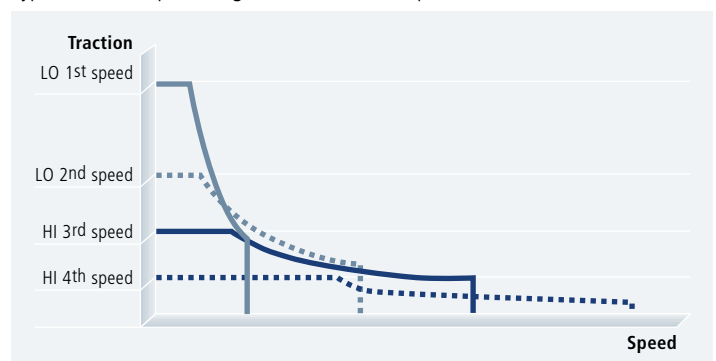
Trasmital dual-ratio final drive lends numerous advantages and namely:

- Extended speed range overall
- Space and cost-effectiveness for the drive package
- Optimizes the hydraulic drive efficiency

Technical features:

- Planetary reduction for the two Lo/Hi-speed ratios
- Hydraulically operated multi-disc clutch and brake, negative type, allowing both speed shifting and braking.
- Clutch-brake unit and planetary input stage are independent on final reduction and lubricated by the hydraulic oil.
- Two-stage planetary final reduction, independently lubricated.
- Heavy duty main bearings

Typical traction/speed diagram with Trasmital speed shift final drive.



Lo-Hi: by shifting gear 1st - 2nd and 3rd - 4th: switching motor displacement.

Max. output torque

40.000 Nm

Max. input speed

3.000 rpm

Max. output speed

120 rpm

Gear Ratios

LO speed : 71 87 85 104 141,3

HI speed : 20,5 20,5 24,5 24,5 24,5

Dynamic and emergency braking torque (on output shaft)

30.000 Nm

Parking braking torque (on input shaft)

550 Nm

Brake and clutch release pressure

20 ÷ 40 bar

Weight

200 kg

Oil quantity

3 litres

Key Features

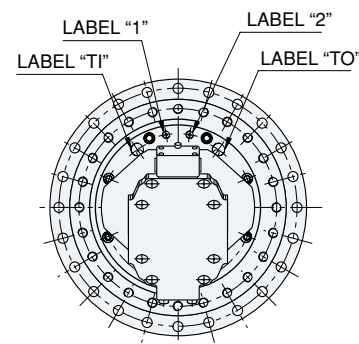
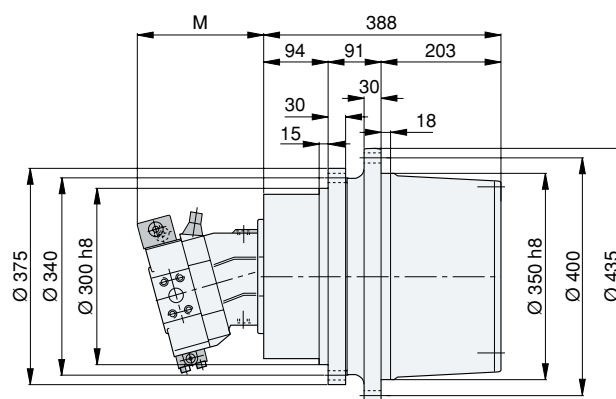
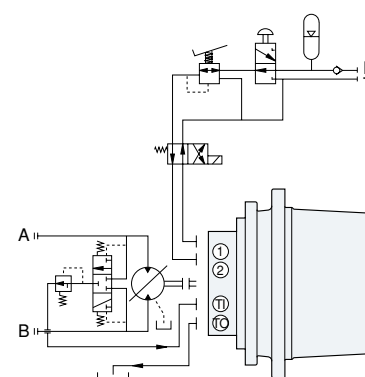
- Dual gear ratio, hydraulic Lo-Hi speed shifting
- Rotating housing
- Rugged design
- High torque capacity
- High load capacity
- Mechanical lifetime seals
- Compact design
- Hydraulically operated multidisc clutches, allowing both speed shifting and brake

Applicable motors

Cartridge axial piston hydraulic motors

Brake

- Hydraulically released multidisc type
- Parking braking
- Emergency braking

Overall dimensions**Hydraulic scheme**

INTERFACE FOR HYDRAULIC MOTOR	MOTOR TYPE	M
Brueninghaus Hydromatik	AGVE 55 ÷ 80 / 6.3 series	190
Linde HMV	55 ÷ 75 / 02 series	145
Sauer Danfoss	51C 060 ÷ 080 series	210

Quality has Always Been the Distinctive Trait of Bonfiglioli

Total quality for customer satisfaction: this is the underlying concept of the Bonfiglioli philosophy. The Bonfiglioli Quality System applies to all the activities conducted in all production sites. This synergical approach translates into a common Quality Management throughout the Company, which ensures that every process is carried out according to the ISO 9001 : 2000 standards.



For Bonfiglioli, this involved significant changes in all areas of the company, as well as substantial investments. By achieving the ISO 9001: 2000 certification, the Bonfiglioli facilities proved their ability to design, produce and guarantee a quality product.

The Bonfiglioli Group can flaunt the European record scored by its division, who were the first to obtain a quality system certification from two different internationally acknowledged authorities, members of Sincert: Det Norske Veritas and TÜV.

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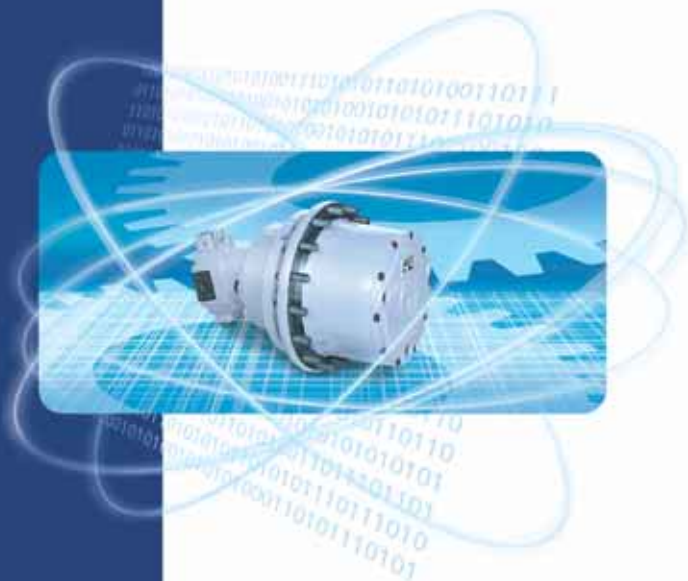
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