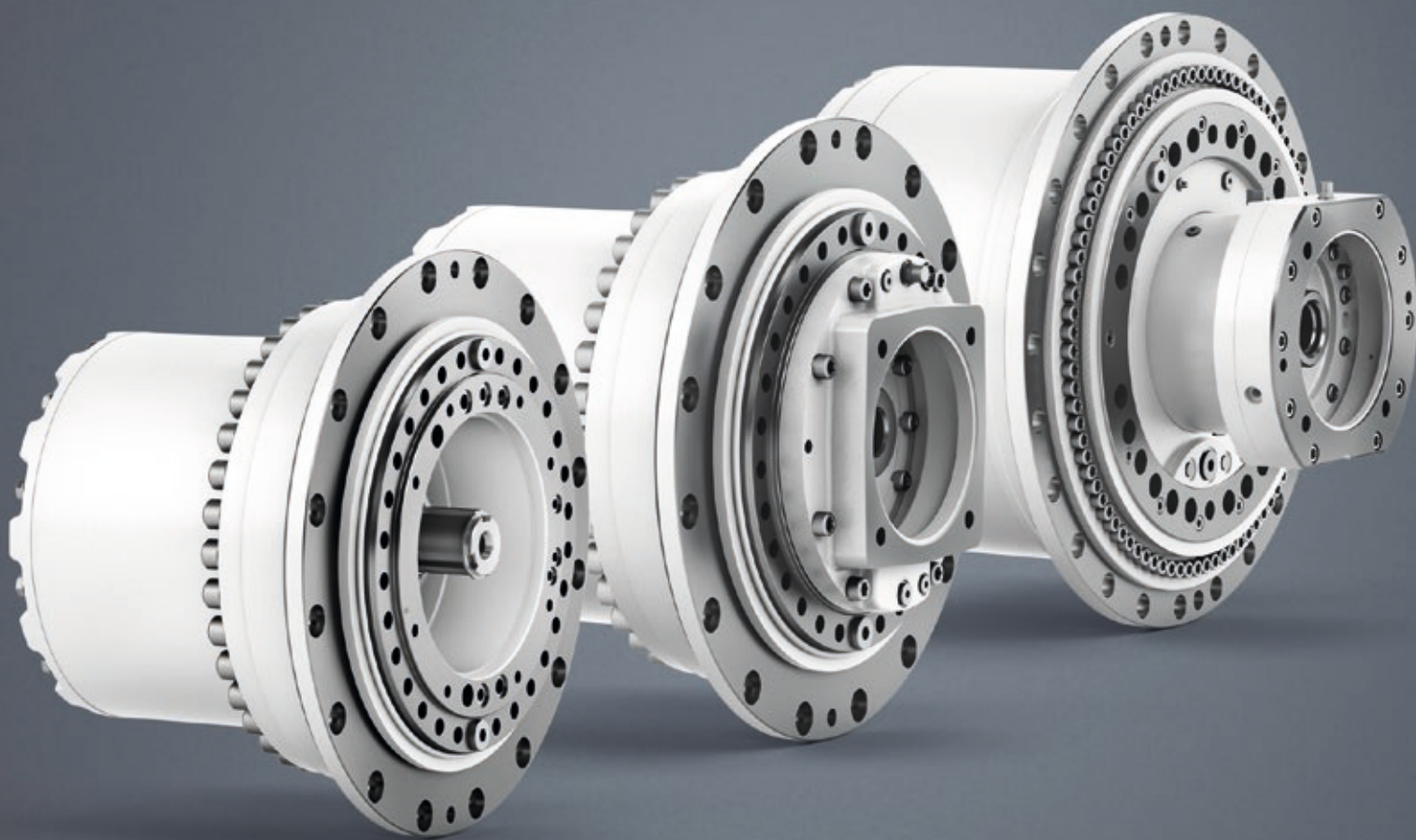


Planetary gearboxes by Liebherr

## **LPI series-production range**



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# **LIEBHERR**

# Power with system

Liebherr has upgraded its existing planetary gearbox product portfolio to produce the new LPI gearbox generation. The new series includes six basic gearboxes from LPI 0600 to LPI 1200, enabling it to cover a dynamic torque range up to 335,000 Nm. The planetary gearboxes can have a two, three or four stage design with a transmission ratio  $i = 15$  to  $i = 750^*$ . They are absolutely ideal for hoisting applications, for example in rope winches and also in drive applications, for example as travel drives. Consistent standardisation and the resultant significant reduction in component complexity means that the series can be configured perfectly for any applications.



## Technical data

Series	Output torque** Dynamic load [Nm]	Peak values for short duration Alternating load [Nm]
LPI 0600	27,500	45,000
LPI 0700	40,000	65,000
LPI 0800	55,000	95,000
LPI 0900	75,000	125,000
LPI 1000	120,000	190,000
LPI 1200	185,000	335,000

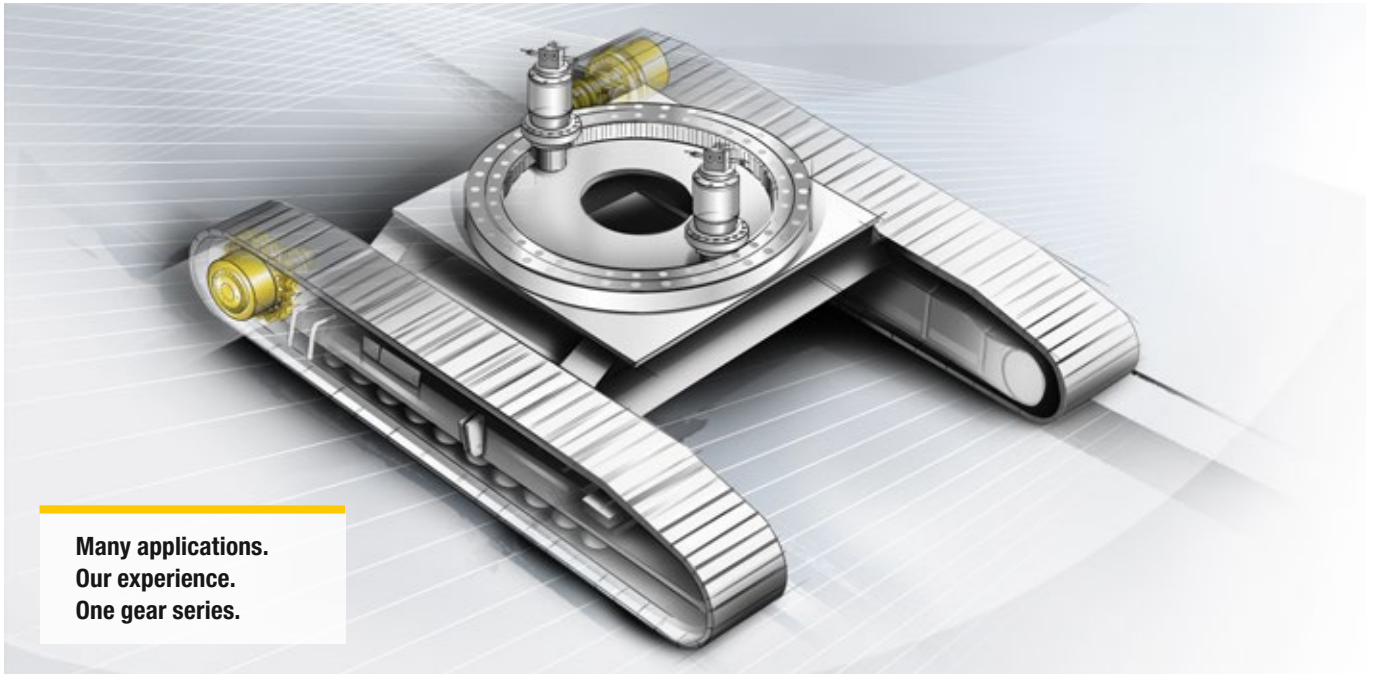
\* Other ratios on demand

\*\* Reference torque on the basis of FEM 1.001 L2/T5/M5 at an output speed of 15 rpm and a dynamic load (use of rope winch)

# Quality and reliability

A wide range of possible configurations ensures that the gearboxes are ideal for all conventional applications in which planetary gearboxes are used. The planetary gearboxes in the new LPI series can be fitted with a range of options to suit the requirements of the customer and application, for example brake types, sizes or gearbox seals. The interfaces to the motor are also designed so that any conventional electric or hydraulic motor can be installed without any great problems. This ensures that the best possible gearbox and motor combination can be achieved.

## Undercarriage

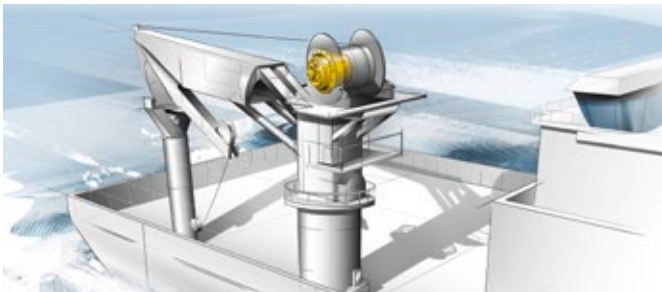


**Many applications.  
Our experience.  
One gear series.**

### Features of our series:

- Maximum torque density
- Improved installation size
- Specifically designed for the application
- Easy maintenance gearbox design
- Long service life
- Liebherr SmarTec state monitoring system as an option
- Gearbox according to conventional standards

## Rope winch

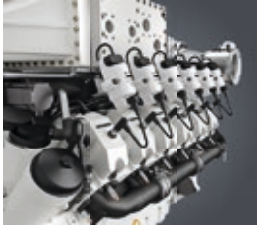


## Crusher





# Liebherr Components



Gas engines



Diesel engines



Fuel injection systems



Axial piston hydraulics



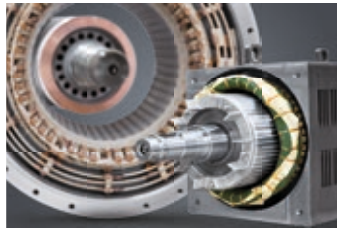
Hydraulic cylinders



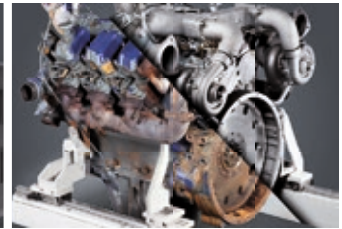
Slewing bearings



Gearboxes and winches



Electric machines



Remanufacturing



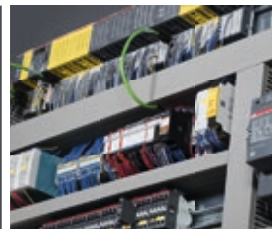
Human-machine interfaces  
and gateways



Control electronics and  
sensor technology



Power electronics



Control cabinets



Software

From A to Z – the components division of the Liebherr Group offers a broad range of solutions in the area of mechanical, hydraulic, electric and electronic drive system and control technology. The efficient components and systems are produced at a total of ten production sites around the world to the highest standards of quality. Central contact persons for all product lines are available to our customers at Liebherr-

Components AG and the regional sales and distribution branches.

Liebherr is your partner for joint success: from the product idea to development, manufacture and commissioning right through to customer service solutions like remanufacturing.

**[components.liebherr.com](http://components.liebherr.com)**