



WITTENSTEIN

alpha

LP+ Generation 3 Innovation sets standards

intelligent solutions
compact design
reliable partner





LP+ Generation 3

Innovation sets standards

LP+ Generation 3 pushes back the limits!

By revising the proven LP+ principle, we have succeeded in increasing the transmitted torques by up to 75% compared to the industry standard! LP+ Generation 3 sets new standards for power density and efficiency in its class!

Short delivery time

Reliable and prompt deliveries were key priorities when we developed LP+ Generation 3. Short standard delivery times and our speedline® service of WITTENSTEIN alpha have redefined the benchmarks of customer satisfaction.

Flexibility

LP+ Generation 3's application flexibility has been further enhanced by new ratio variants made possible by new processes.

Less operating noise and torsional backlash

The gearing parts have been optimized yet again in keeping with our high quality standards. The operating noise produced by LP+ Generation 3 has been halved as a result and torsional backlash simultaneously reduced!

LP+ Generation 3 excels with:

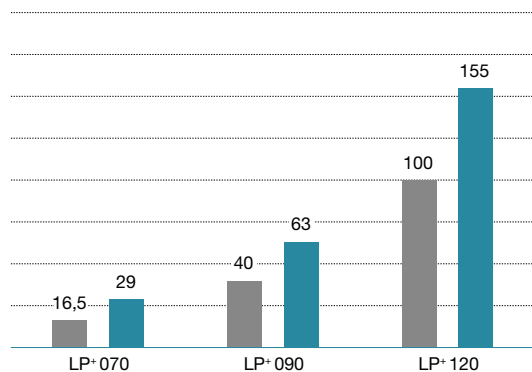
- highest power density
- smooth running
- rapid availability
- quality and reliability

Always one innovative step ahead with WITTENSTEIN alpha!

Increased Power

Up to 75 % more torque

Comparison of torques in Nm
Industry standard vs. LP+ Generation 3



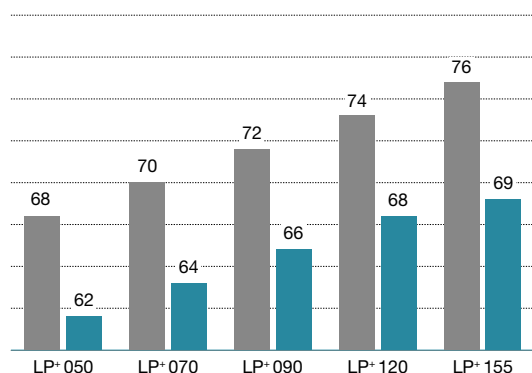
Up to 75% * higher torques without any increase in physical volume.

* compared to the industry standard, depending on the size and reduction ratio

Smoother running

Operating noise down 50 %

Comparison of operating noise dB (A)
Industry standard vs. LP+ Generation 3



By optimizing our manufacturing and assembly processes, we have succeeded in reducing operating noise by 6 dB (A) on average.

Downsizing

In the example shown here, a Generation 3 size 070 model (next smaller size) delivers 75 % of the performance of the old LP+ size 090. Downsizing is consequently now a viable option in many applications. The result:

→ saves energy, space and resources!



Predecessor LP+:

LP+ size 090 ratio: $i=15$

- Max. operating noise: 72 dB(A)
- Max. torsional backlash: 15 arcmin
- Nominal output torque: 40 Nm

LP+ Generation 3:

LP+ size 070 ratio: $i=15$

- Max. operating noise: 64 dB(A)
- Max. torsional backlash: 10 arcmin
- Nominal output torque: 28,5 Nm

Versions and applications

LPB+ Generation 3 is ideal for servo applications in packaging, handling and automation systems. The output can optionally be designed with a smooth or slotted shaft. LPB+ Generation 3 with output flange also available in 2-stage version.



LPB+ Generation 3 with output flange

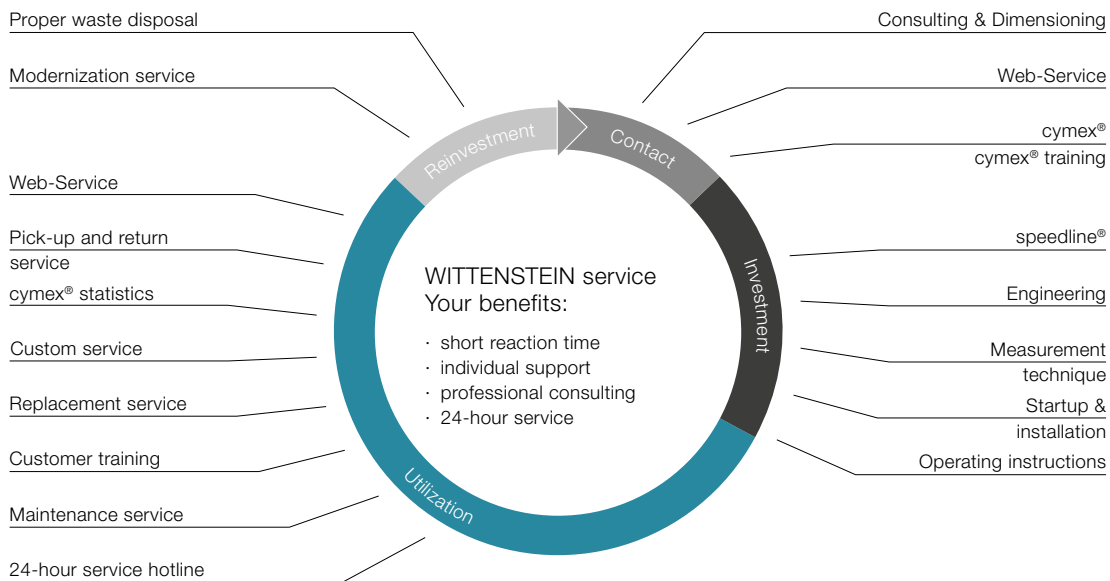
If the application calls for a more compact design, LPB+ Generation 3 facilitates new, alternative solutions.



LPB+ Generation 3 with belt pulley

Optimized for timing belt applications of all kinds, this integrated belt pulley solution is perfect when space is restricted.

WITTENSTEIN service



WITTENSTEIN speedline®

We promise to deliver your SP+, TP+ or LP+ within 24 or 48 hours ex works:
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24h-Service-Hotline

You can reach our Customer Service team 24 hours a day:
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