



alpha

SPM+/ TPM+ endurance

Water or convection cooled
servo actuators

More productive
More efficient
More precise

up to 10.000 Nm
up to 152 kW!



SPM⁺/TPM⁺ endurance

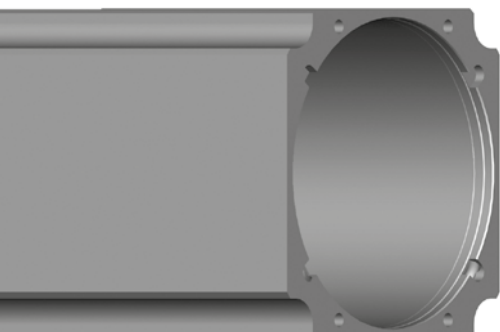
Modular system:

Motor + housing + gearhead

= optimal combination for any application

Housing:

- One-stage cast housing technology
- Stainless steel cooling system
- No risk of confusion regarding the cooling water supply
- Suitable for water or convection cooling
- Longer-lasting shaft sealing rings due to selective heat dissipation



Motor:

- Power $P_{\max} = 5,9 \text{ kW}$ to 152 kW
- Increased power density
- High temperature-resistant bearings

**Gearhead:**

- Very wide choice of low-backlash servo gearheads
- Durable gearing
- Ratios from $i = 3$ to $i = 220$



WITTENSTEIN alpha –
Single-source expertise

SPM⁺/TPM⁺ endurance

Servo actuators

The SPM⁺/TPM⁺ endurance series from WITTENSTEIN alpha represent the optimal solution for any application.

Owing to the substitution of asynchronous and hydraulic motor technology, your performance and productivity are significantly boosted.

The benefits of SPM⁺/TPM⁺ endurance servo actuators are particularly important in the packaging industry, machine tools and injection moulding machines:

- Higher power density
- Smaller footprint
- Reduced energy consumption
- More design degrees of freedom



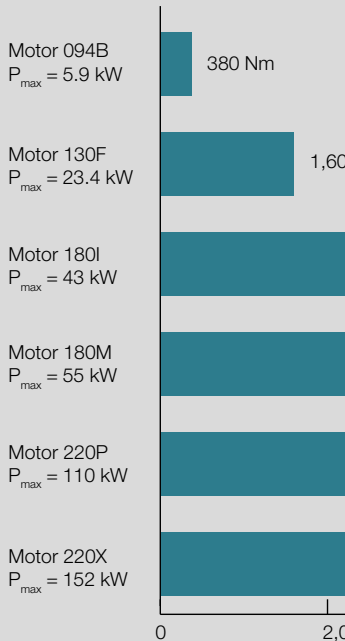
Made to measure The exact fit for your application

Thanks to our flexible modular system, you can integrate different gearheads to fit your motor. The exceptionally compact type of construction gives you almost infinite design degrees of freedom – and due to the very high power density your machine also has a smaller footprint.



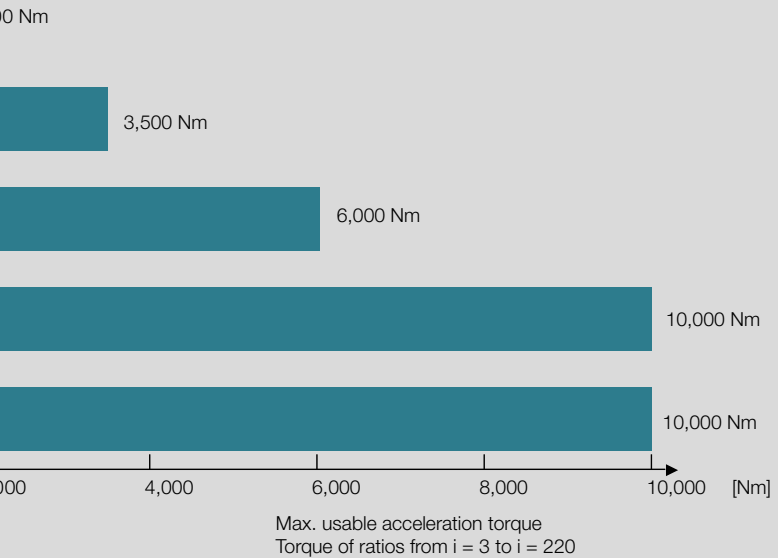
SPM* endurance

Power spectrum



The values shown here

power density · Very short cycle times



can vary according to the gearhead type and reduction ratio.

Water or convection cooled

Leverage the crucial benefits of our water or convection cooled servo actuators:

- Increased energy efficiency
- Higher productivity
- Better availability

Thanks to the innovative stainless steel cooling technology of our SPM⁺/TPM⁺ endurance servo actuators, the motor surface temperature never rises above approx. 50°C, even in continuous duty.

The cooling system permits a durable and almost maintenance-free drive solution, especially in conjunction with an open cooling circuit.



The novel stainless steel cooling system allows the servo actuators to be operated with water or convection cooling.



alpha

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WITTENSTEIN – one with the future

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