



**THE MAKA
POWER PACKAGE**

THE LEGENDARY POWER PACKAGE IS BACK AGAIN

Old fans will love it just as much as new ones. Following a 12-month field test of the MAKA milling spindle, we are sure to have retained proven features whilst modifying and improving them using new technology.

High torque with low speeds – this is what turns MAKA milling spindles into real power packages. Now, speeds of up to 24,000 RPM are possible. Using a rotary transducer to control the spindle frequency, the spindle is now also perfectly suited for thread cutting. Safety is ensured by four sensors and a MiniCODER. As you have come to expect from MAKA, we can also accommodate individual customer requirements and provide bespoke milling spindles.

The MAKA milling spindle for wood, compounds, plastics and light alloys.

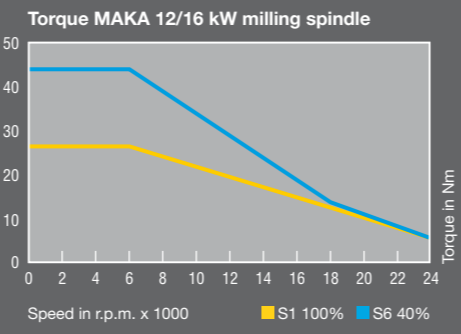
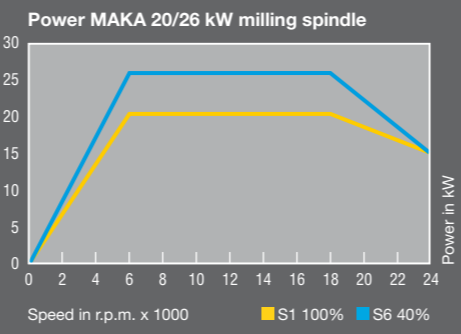
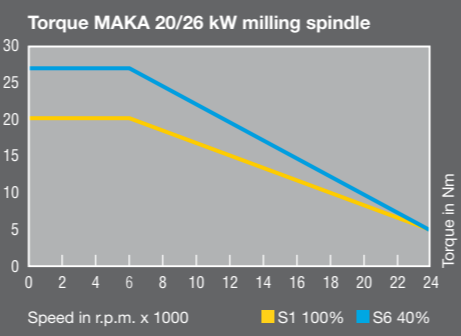
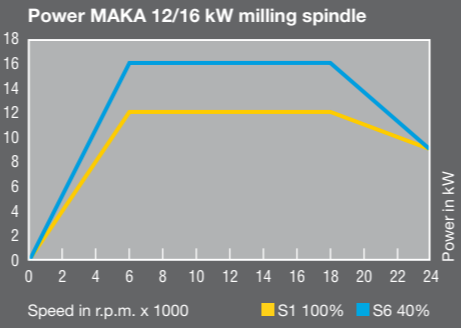
- Power range up to 26 kW and 24,000 revolutions per minute
- Steel construction for utmost ruggedness and longevity
- Dust protection and reliable sensors for controlled operation
- Complete interchangeability with products of an international manufacturer
- Quick-connect system for fast changeover
- 30-40% higher service life in the benchmark
- Ample power capacity reserves for higher safety
- Short lead times due to in-house manufacturing
- Available versions: HSK F 63, HSK E 63 and HSK A 63

QUALITY

Our own stringent and precise field testing backs up MAKA's quality pledge.

Each spindle is subjected to a 48 hour test run.

- Tool cone runout
- Draw-in force with test cone
- Vibration measurement
- Winding short insulation test
- Earth short insulation test
- Housing temperature measurement



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|----------------------|---|
| Spindle types | 12/16 kW HSK F 63 |
| Speed range | 1,000 - 24,000 r.p.m. |
| Bearings | Ceramic hybrid spindle bearings sealed for life |
| Nominal power S1/ S6 | 12/16 kW |
| Nominal torque S1/S6 | 20/27 Nm |
| Tool holder | HSK F 63 |
| Tool pull-in force | 11 kN |
| Weight | 62 kg |

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|----------------------|---|
| Spindle types | 20/26 kW HSK F 63 |
| Speed range | 1,000 - 24,000 r.p.m. |
| Bearings | Ceramic hybrid spindle bearings sealed for life |
| Nominal power S1/ S6 | 20/26 kW |
| Nominal torque S1/S6 | 27/44 Nm |
| Tool holder | HSK F 63 |
| Tool pull-in force | 11 kN |
| Weight | 66 kg |

| | |
|----------------------|---|
| Spindle types | 20/26 kW HSK E 63 |
| Speed range | 1,000 - 24,000 r.p.m. |
| Bearings | Ceramic hybrid spindle bearings sealed for life |
| Nominal power S1/ S6 | 20/26 kW |
| Nominal torque S1/S6 | 27/44 Nm |
| Tool holder | HSK E 63 |
| Tool pull-in force | 18 kN |
| Weight | 66 kg |

| | |
|----------------------|---|
| Spindle types | 20/26 kW HSK A 63 |
| Speed range | 1,000 - 24,000 r.p.m. |
| Bearings | Ceramic hybrid spindle bearings sealed for life |
| Nominal power S1/ S6 | 20/26 kW |
| Nominal torque S1/S6 | 27/44 Nm |
| Tool holder | HSK A 63 |
| Tool pull-in force | 18 kN |
| Weight | 66 kg |

All milling spindles can optionally be fitted with a vibration sensor, a torque arm and a vector axis.



SERVICE

To keep up your productivity and precision standards make use of MAKA's service expertise.

You can purchase a MAKA spindle for as low as **15.900,€**

As an exchange spindle or for a new machine – contact your MAKA sales representative or our service centre for a customised offer: Phone: +49 (0) 7308/813-171



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CNC Spezialmaschinen