



**MOTOR SPINDLE OVERVIEW**  
*MOTORSPINDEL-ÜBERSICHT*





# MEDIUM SIZED MOTOR SPINDLES *MITTLERE MOTORSPINDELN*

Ø 60mm - 150mm / **HF 60 A/D/S 60 - HF 150 A 24 P**

|   |                                    |         |                                       | HF 60 A/D/S 60<br>HT 60 A/D/S 60 | HF 62 A 60 P | HF 62 A 70 P | HF 62 A 80 P    | HF 80 A 20             | HF 80 A/D/S 40<br>HT 80 A 40 ** | HF 80 D 15 P**<br>HF 80 D 30 P | HF 100 A/S 40          | HF 100 A/D/S 45<br>HT 100 A/D/S 45 | HF 100 A/DI/SI 50     | HF 110 A 30<br>HT 110 A 30 | HF 120 A/D/S 24 P         | HF 120 A/DI/SI 36<br>HT 120 A/DI/SI 36 | HT 120 A 72                  | HF 140 A/DI/SI 30<br>HT 140 A/DI/SI 30** | HF 150.2 A 24 P |        |
|---|------------------------------------|---------|---------------------------------------|----------------------------------|--------------|--------------|-----------------|------------------------|---------------------------------|--------------------------------|------------------------|------------------------------------|-----------------------|----------------------------|---------------------------|--|------------------------------|--|-----------------|--------|
| <b>Speed</b><br><i>Drehzahl</i>   | <b>Oil-air</b><br><i>Öl-Luft</i>   | C       | <b>RPM</b><br><i>min<sup>-1</sup></i> | 80'000                           |              |              |                 | 24'000                 | 50'000                          |                                | 40'000                 | 50'000                             | 60'000                | 35'000                     |                           | 42'000                                 | 70'000                       | 36'000                                   |                 |        |
|   | <b>CC-grease</b><br><i>CC-Fett</i> | CCP     | <b>RPM</b><br><i>min<sup>-1</sup></i> | 70'000                           |              | 70'000       |                 |                        | 50'000                          |                                | 38'000                 | 45'000                             | 45'000                |                            | 30'000                    | 32'000                                 |                              | 25'000                                   |                 |        |
|   | <b>Grease</b><br><i>Fett</i>       | CP      | <b>RPM</b><br><i>min<sup>-1</sup></i> | 60'000                           | 60'000       | 60'000       | 80'000          | 20'000                 | 40'000                          | 30'000                         | 30'000                 | 40'000                             | 40'000                | 28'000                     | 24'000                    |  |                              | 50'000                                   | 20'000          | 24'000 |
| <b>HF Asynchronous motor</b><br><i>Asynchronmotor</i>   | <b>Power</b><br><i>Leistung</i>    | S6-40%  | kW                                    | 1.7                              | 2.6          | 1.2*/2.0     | 1.3             | 1.7                    | 2.5/3.2/4.3                     | 1.5/1.7                        | 7.8                    | 4.8/7.8                            | 5.8                   | 10.5                       | 7.8/16.9                  | 7.8/16.9                               |                              | 18.2/32.5                                | 18.2            |        |
|   |                                    | S1-100% | kW                                    | 1.3                              | 2.0          | 0.9*/1.5     | 1.0             | 1.3                    | 1.9/2.5/3.3                     | 1.15/1.3                       | 6.0                    | 3.7/6.0                            | 4.5                   | 8.0                        | 6.0/13.0                  | 6.0/13.0                               |                              | 14.0/25.0                                | 14.0            |        |
|   | <b>Torque</b><br><i>Drehmoment</i> | S6-40%  | Nm                                    | 0.27                             | 0.43         | 0.20/0.33    | 0.15            | 0.8                    | 0.8                             | 0.95/1.4                       | 2.1                    | 2.1/3.1                            | 1.1                   | 8.0                        | 3.6/6.3                   | 3.6/6.3                                |                              | 9.9/13.2                                 | 9.9             |        |
|   |                                    | S1-100% | Nm                                    | 0.21                             | 0.33         | 0.15/0.25    | 0.12            | 0.6                    | 0.6                             | 0.73/1.1                       | 1.6                    | 1.6/2.4                            | 0.8                   | 6.1                        | 2.8/4.8                   | 2.8/4.8                                |                              | 7.6/10.1                                 | 7.6             |        |
| <b>HT Synchronous motor</b><br><i>Synchronmotor</i>   | <b>Power</b><br><i>Leistung</i>    | S6-40%  | kW                                    | 4.2                              |              |              |                 |                        | 4.3                             |                                |                        |                                    | 9.1                   |                            | 18.2                      |  | 19.2                         |  | 9.1/15.0        | 28.6   |
|   |                                    | S1-100% | kW                                    | 3.2                              |              |              |                 |                        | 3.3                             |                                |                        |                                    | 7.0                   |                            | 14.0                      |  | 14.0                         |  | 7.0/11.5        | 22.0   |
|   | <b>Torque</b><br><i>Drehmoment</i> | S6-40%  | Nm                                    | 0.57                             |              |              |                 |                        | 2.1                             |                                |                        |                                    | 5.4                   |                            | 15.6                      |  | 15.6                         |  | 2.6/4.8         | 23.4   |
|   |                                    | S1-100% | Nm                                    | 0.43                             |              |              |                 |                        | 1.6                             |                                |                        |                                    | 4.1                   |                            | 12.0                      |  | 12.0                         |  | 2.0/3.7         | 18.0   |
| <b>Qty. of bearings / Anzahl der Kugellager</b>   |                                    |         |                                       | 4                                |              | 2 / 3 / 4    |                 | 3 / 4                  |                                 | 4                              |                        |                                    |                       |                            |                           |  |                              |  |                 |        |
| <b>Cone</b><br><i>Konus</i>   | HSK                                | K       |                                       |                                  |              |              |                 | E32                    | C/E25<br>F32                    |                                | C/E32<br>F40           | C/E32<br>F40                       |                       | E40<br>F50                 | C/E40<br>F50              |  | E25                          | E40<br>A/C/E50<br>F63                    | A/T40           |        |
|   | SKI                                |         | 16                                    |                                  |              |              |                 | 20                     |                                 |                                | 25                     |                                    |                       | 30                         |                           |  |                              |  |                 |        |
|   | (B)BT / SK                         | B       |                                       |                                  |              |              |                 |                        |                                 |                                |                        |                                    |                       |                            |                           |  |                              |  |                 |        |
|   | Capto                              | Y       |                                       |                                  |              |              |                 |                        |                                 |                                |                        |                                    |                       |                            |                           |  |                              |  |                 |        |
|   | <b>Collet</b><br><i>Spannzange</i> | S       | ER16                                  | P10                              | P9           |              |                 |                        | ER16                            | ER25                           | ER20                   | D20                                |                       | ER25                       |                           |  |                              | ER32                                     |                 |        |
| <b>Grinding arbor</b><br><i>Schleifdorn</i>   | D                                  | M10/Ø11 |                                       |                                  |              |              | M10/Ø11         | M10/Ø23/38             |                                 |                                | M16/Ø18                | M10/Ø11                            |                       | M22/Ø23                    |                           | M22/Ø23                                |                              |  |                 |        |
| <b>Spindle Ø</b><br><i>Spindel Ø</i>  |                                    | mm      | 60                                    | 61.9                             | 61.9         | 61.9         | 80              | 80                     | 80                              | 100                            | 100                    | 100                                | 110                   | 120                        | 120                       | 120                                    | 140/160                      | 150                                      |                 |        |
| <b>Spindle length</b><br><i>Spindellänge</i>  |                                    | mm      | 216.5                                 | 249.5                            | 239.5        | 239.5        | 323             | 298                    | 263                             | 332.5                          | 332.5                  | 298.5                              | 460.9                 | 380                        | 380.5                     | 309                                    | 419                          | 475.5                                    |                 |        |
| <b>Spindle weight</b><br><i>Spindelgewicht</i>  |                                    | kg      | 3.7                                   | 4.4                              | 3.7          | 3.7          | 7.3             | 7.3                    | 7.1                             | 13.8                           | 11.1                   | 12                                 | 24.1                  | 21                         | 22.5                      | 28.5                                   | 31.8                         | 44.3                                     |                 |        |
| <b>Spindle cooling</b><br><i>Spindelkühlung</i>   |                                    |         | <b>liquid / Flüssigkeit</b>           |                                  |              | optional     |                 |                        | <b>liquid / Flüssigkeit</b>     |                                |                        |                                    |                       |                            |                           |  |                              |  |                 |        |
| <b>Options</b><br><i>Optionen</i>   |                                    |         | H-I-P-V-W                             | P                                | P            | P            | F-G-H-K-<br>P-W | F-G-H-H-K-<br>Mn-P-V-W | P                               | F-G-H-H-K-<br>Mn-P-V-W         | F-G-H-H-K-<br>Mn-P-V-W | F-G-H-H-K-<br>Mn-P-V-W             | B-F-G-H-I-<br>K-P-V-W | B-F-H-H-K-P-V              | F-G-H-H-I3-K-<br>Mn-P-V-W | F-H-I-K-P-V                            | F-G-H-H-K-<br>Mn-R-P-<br>V-W | F-G-H-H-I3-<br>R-P-V-W                   |                 |        |
| <b>Encoder / Drehgeber</b>  |                                    | V       | optional                              |                                  | OpenLoop     |              | optional        |                        |                                 | optional                       |                        |                                    |                       | CloseLoop                  |                           |  |                              |  |                 |        |
| <p><b>*The heat must be dissipated via spindle holder. Maximum external housing temperature 60°C. / **Spindle motor with reduced speed.</b><br/> <i>*Die Wärmeableitung muss über den Spindelhalter erfolgen. Maximale Gehäusetemperatur 60°C. / **Spindelmotor mit reduzierter Drehzahl.</i></p> |                                    |         |                                       |                                  |              |              |                 |                        |                                 |                                |                        |                                    |                       |                            |                           |  |                              |  |                 |        |

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