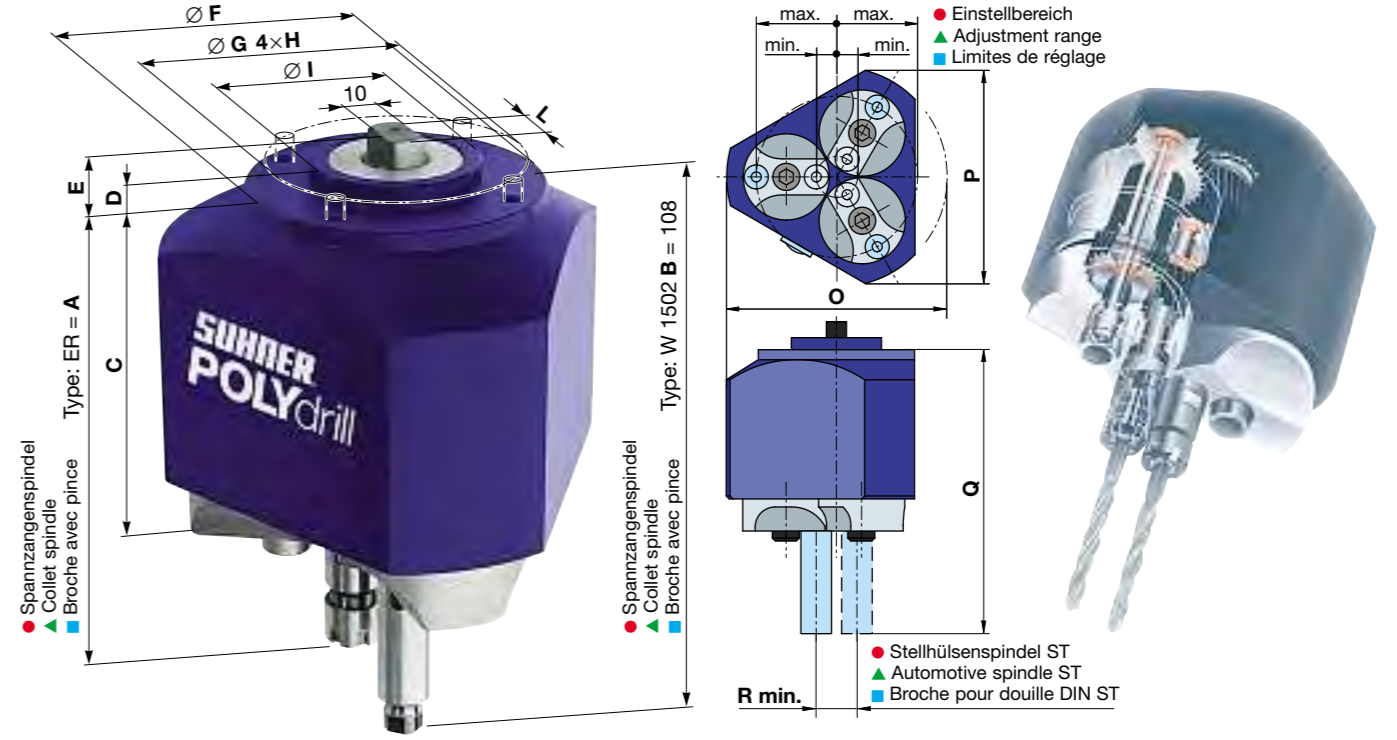


- Einstellbare Mehrspindelköpfe mit 3 Spindeln
- ▲ Adjustable multiple spindle heads with 3 spindles
- Têtes multibroches réglables avec 3 broches

## MH 311-317



| ● Technische Daten   | ▲ Technical Data                  | ■ Caractéristiques techniques |                                   |                               |                                   |
|----------------------|-----------------------------------|-------------------------------|-----------------------------------|-------------------------------|-----------------------------------|
| Bohrleistung         | 2,5-16 mm / 600 N/mm <sup>2</sup> | Drilling capacity             | 2,5-16 mm / 600 N/mm <sup>2</sup> | Capacité de perçage           | 2,5-16 mm / 600 N/mm <sup>2</sup> |
| Verstellbereich      | 14,5-172,5 mm                     | Adjustment range              | 14,5-172,5 mm                     | Limite de réglage             | 14,5-172,5 mm                     |
| Drehzahlbereich      | 3000-6000 min <sup>-1</sup>       | Speed range                   | 3000-6000 RPM                     | Vitesse de rotation           | 3000-6000 t.min <sup>-1</sup>     |
| Präzisionsspannzange | W 1502 / ER 8-25                  | Precision collets             | W 1502 / ER 8-25                  | Pincés de précision           | W 1502 / ER 8-25                  |
| Stellhülzenspindel   | DIN 55058                         | Automotive spindle            | DIN 55058                         | Broche pour douilles réglable | DIN 55058                         |
| Übersetzung          | 1:1                               | Gear ratio                    | 1:1                               | Rapport                       | 1:1                               |
| Ölbadschmierung      | Schauglas                         | Oil bath lubrication          | Oil level sight glass             | Lubrification bain d'huile    | Voyant d'huile                    |

| ● Mehrspindelköpfe ohne Adapter      |           | ● Inklusive Adapter für Suhner-Bearbeitungseinheiten |                      | ▲ Including adapters to fit Suhner machining units |                       | ■ Avec adaptateur pour les unités d'usinage Suhner |                      |               |                     |               |                     |           |                      |
|--------------------------------------|-----------|--|----------------------|--|-----------------------|--|----------------------|---------------|---------------------|---------------|---------------------|-----------|----------------------|
| ▲ Multispindle heads without adapter |           | BEM 12 BEM 12 D BEW 12                               |                      | BEM 20 GEM 20 BEM 25 CNC                           |                       | BEM 28 ISO 40                                      |                      | BEX 15 ISO 30 |                     | BEX 35 ISO 40 |                     | GEM 12    |                      |
| Typ                                  | Best.-Nr. | Typ  | Best.-Nr.            | Typ  | Best.-Nr.             | Typ  | Best.-Nr.            | Typ           | Best.-Nr.           | Typ           | Best.-Nr.           | Typ       | Best.-Nr.            |
| Type                                 | Order No. | Type   | Order No.            | Type   | Order No.             | Type   | Order No.            | Type          | Order No.           | Type          | Order No.           | Type      | Order No.            |
| MH 311                               | 140 143   | MH 311-12  | 50 757 05<br>K = 108 | MH 311-20  | 50 779 05<br>K = 82,6 | —  | —                    | —             | —                   | —             | —                   | MH 311-16 | 52 965 07<br>K = 115 |
| MH 313                               | 140 145   | MH 313-12  | 50 763 05<br>K = 108 | MH 313-20  | 50 780 05<br>K = 69   | MH 313-28  | 50 720 07<br>K = 142 | —             | —                   | —             | —                   | —         | —                    |
| MH 314                               | 140 146   | MH 314-12  | 50 763 06<br>K = 108 | MH 314-20  | 50 780 06<br>K = 82,6 | MH 314-28  | 50 720 08<br>K = 142 | MH 314-15     | 59 519 01<br>K = 66 | —             | —                   | —         | —                    |
| MH 315                               | 140 147   | —  | —                    | MH 315-20  | 50 781 05<br>K = 82,6 | MH 315-28  | 50 720 09<br>K = 144 | MH 315-15     | 59 519 02<br>K = 68 | MH 315-35     | 50 783 05<br>K = 85 | —         | —                    |
| MH 316                               | 140 148   | —  | —                    | MH 316-20  | 50 781 06<br>K = 82,6 | MH 316-28  | 50 720 10<br>K = 144 | MH 316-15     | 59 519 03<br>K = 68 | MH 316-35     | 50 783 06<br>K = 85 | —         | —                    |
| MH 317                               | 140 149   | —  | —                    | —  | —                     | MH 317-28  | 50 720 11<br>K = 144 | MH 317-15     | 59 519 04<br>K = 68 | MH 317-35     | 50 784 03<br>K = 85 | —         | —                    |
| ● Spannzangenspindel                 |           | ▲ Collet spindle                                     |                      |  |                       |  |                      |               |                     |               |                     |           |                      |
| ▲ Collet spindle                     |           | ■ Broche avec pince                                  |                      |  |                       |  |                      |               |                     |               |                     |           |                      |
| ■ Broche avec pince                  |           | ● Stellhülzenspindel ST                              |                      |  |                       |  |                      |               |                     |               |                     |           |                      |
| ● Stellhülzenspindel ST              |           | ▲ Automotive spindle ST                              |                      |  |                       |  |                      |               |                     |               |                     |           |                      |
| ▲ Automotive spindle ST              |           | ■ Broche douilles DIN ST                             |                      |  |                       |  |                      |               |                     |               |                     |           |                      |
| ■ Broche douilles DIN ST             |           |  |                      |  |                       |  |                      |               |                     |               |                     |           |                      |
| MH 314 ST                            | 58 721 05 | MH 314-12 ST   | 50 763 21<br>K = 108 | MH 314-20 ST                                       | 50 780 21<br>K = 69   | MH 314-28 ST                                       | 58 720 24<br>K = 142 | —             | —                   | —             | —                   | —         | —                    |
| MH 315 ST                            | 58 721 06 | —  | —                    | MH 315-20 ST                                       | 50 781 22<br>K = 71   | MH 315-28 ST                                       | 58 720 25<br>K = 144 | MH 315-15 ST  | 59 519 05<br>K = 68 | MH 315-35 ST  | 50 783 22<br>K = 85 | —         | —                    |
| MH 316 ST                            | 58 721 07 | —  | —                    | MH 316-20 ST                                       | 50 781 23<br>K = 71   | MH 316-28 ST                                       | 58 720 26<br>K = 144 | MH 316-15 ST  | 59 519 06<br>K = 68 | MH 316-35 ST  | 50 783 23<br>K = 85 | —         | —                    |
| MH 317 ST                            | 58 721 08 | —  | —                    | —  | —                     | MH 317-28 ST                                       | 58 720 27<br>K = 144 | MH 317-15 ST  | 59 519 07<br>K = 68 | MH 317-35 ST  | 50 784 21<br>K = 85 | —         | —                    |

| ● Typ  | ● Spannzange | ● in 600 N/mm <sup>2</sup> | ● Einstellbereich | ● min <sup>-1</sup> | ● Gewicht | A    | C       | D     | E     | Ø F | Ø G | H   | Ø I | Ø L      | O  | P  | Q   | min. R |     |      |
|--------|--------------|----------------------------|-------------------|---------------------|-----------|------|---------|-------|-------|-----|-----|-----|-----|----------|----|----|-----|--------|-----|------|
| Type   | Collet       | à 600 N/mm <sup>2</sup>    | Adjustment range  | RPM                 | Weight    |      |         |       |       |     |     |     |     |          |    |    |     |        |     |      |
| MH 311 | W1502        | Ø 2,5                      | M 2               | 14,5                | 58,5      | 6000 | 0,9 kg  | —     | 75,5  | 6   | 14  | 63  | 54  | M 4 × 10 | 35 | 15 | 74  | 68,5   | —   |      |
| MH 313 | ER8          | Ø 5,0                      | M 4               | 20,5                | 80,5      | 4000 | 1,8 kg  | 117,5 | 90,5  | 6   | 14  | 78  | 66  | M 5 × 12 | 45 | 15 | 102 | 90,0   | —   |      |
| MH 314 | ER11         | Ø 7,0                      | M 6               | 24,5                | 98,5      | 4000 | 2,9 kg  | 136,0 | 102,0 | 6   | 14  | 78  | 66  | M 5 × 12 | 45 | 17 | 124 | 109,0  | 163 | 24,5 |
| MH 315 | ER16         | Ø 10,0                     | M 8               | 31,0                | 113,0     | 4000 | 4,8 kg  | 166,0 | 121,0 | 8   | 16  | 110 | 94  | M 6 × 18 | 65 | 20 | 144 | 127,0  | 203 | 31,0 |
| MH 316 | ER20         | Ø 13,0                     | M 12              | 39,0                | 141,0     | 3000 | 8,2 kg  | 193,0 | 139,0 | 8   | 16  | 110 | 94  | M 6 × 18 | 65 | 25 | 180 | 155,0  | 229 | 39,0 |
| MH 317 | ER25         | Ø 16,0                     | M 14              | 52,5                | 172,5     | 3000 | 13,6 kg | 219,0 | 158,0 | 8   | 16  | 160 | 140 | M 8 × 30 | 80 | 30 | 217 | 188,5  | 259 | 52,5 |

● Längenausgleichsspindeln für Gewindebohren

▲ Length compensating spindles for tapping

■ Broches à compensation pour le taraudage

● auf Zug  
 ▲ on extension  
 ■ en extension

| Typ / Type / Type                  | LAS 311   | LAS 313   | LAS 314   | LAS 315   | LAS 316   | LAS 317   |
|------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Best.-Nr. / Order No. / N° de cde. | 59 516 01 | 59 516 02 | 59 516 03 | 59 516 04 | 59 516 05 | 59 516 06 |
| Spannzange / Collet / Pince        | W 1502    | ER 8      | ER 11     | ER 16     | ER 20     | ER 25     |
| S                                  | 129,5     | 150,0     | 171,0     | 200,0     | 235,0     | 267,0     |
| T                                  | 5         | 5         | 9         | 9         | 10        | 11        |

● Werkzeugspannelemente unter dem Kapitel «G»

▲ Toolholder systems refer to section «G»

■ Éléments de serrage des outils au chapitre «G»

● Aufbaukomponenten unter dem Kapitel «F», Seite F 18

▲ Assembly components refer to section «F», page F 18

■ Composants d'implantation au chapitre «F», page F 18

**MH 314-12 BEM 12**