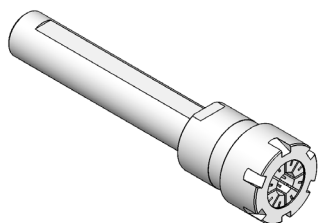


INDICE DELL'ATTACCO CILINDRICO - DIN 1835 A

INDEX OF DIN 1835 A - STRAIGHT SHANK

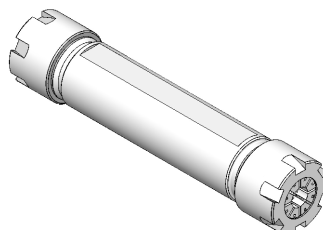
**PORTAPINZA ER
CON GHIERA MINI**
ER COLLET CHUCKS
WITH MINI NUT



Programma
completo
da pag.

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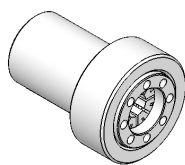
PORTAPINZA ER DOPPI
DOUBLE ER COLLET CHUCKS



Programma
completo
a pag.

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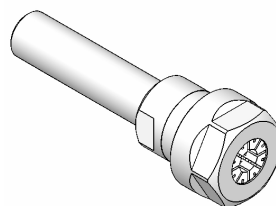
**PORTAPINZA ER
CON GHIERA INTERNA**
ER COLLET CHUCKS
WITH INSIDE NUT



Programma
completo
a pag.

34

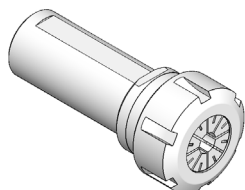
**PORTAPINZA ER
CON GHIERA ESAGONALE**
ER COLLET CHUCKS
WITH HEXAGONAL NUT



Programma
completo
a pag.

35

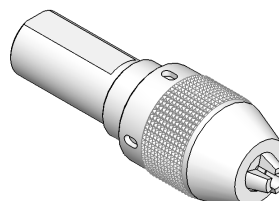
**PORTAPINZA ER
CON GHIERA STANDARD**
ER COLLET CHUCKS
WITH STANDARD NUT



Programma
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da pag.

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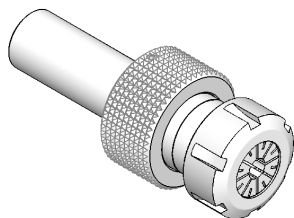
AUTOSERRANTI INTEGRALI
MONOLITHIC DRILL CHUCKS



Programma
completo
a pag.

38

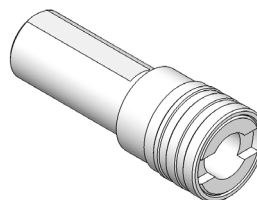
PORTA ALESATORI OSCILLANTI
FLOATING REAMER HOLDERS



Programma
completo
a pag.

39

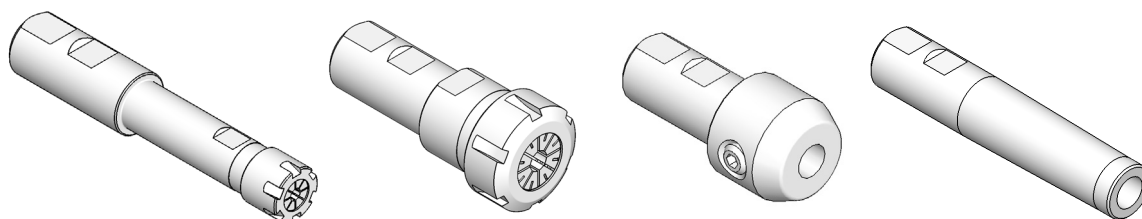
MASCHIATORI A CAMBIO RAPIDO
QUICK CHANGE TAP HOLDERS



Programma
completo
a pag.

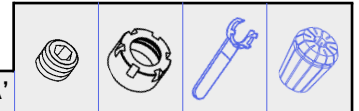
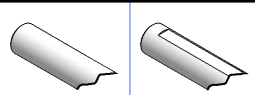
40

ATTACCO WELDON DIN 1835 B
DIN 1835 B WELDON SHANK

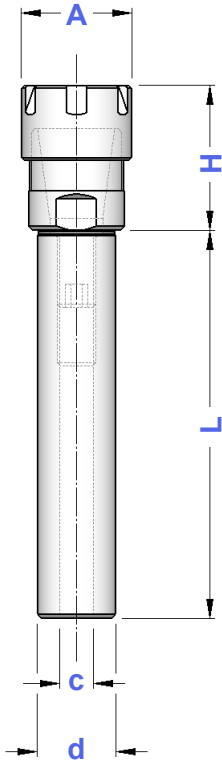


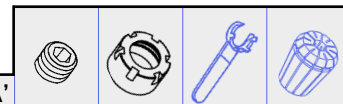
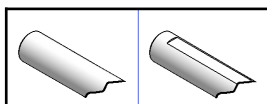
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da pag.





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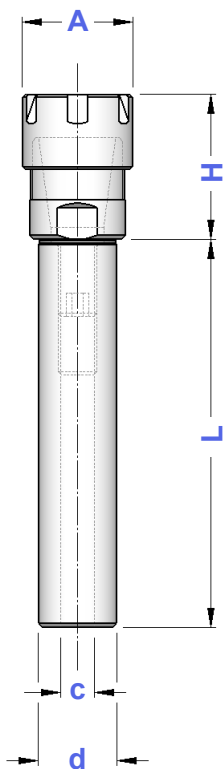


| TIPO | Senza Piano | Con Piano | H | A | C | CAPACITA' | | | | |
|-----------------------|-------------|-----------|----|----|---|-----------|------|------|------|------|
| d 5 - ER 8GM /L 45 | 3207 | — | 24 | 12 | — | 1 ÷ 5 | — | 0373 | 5717 | 0554 |
| d 6 - ER 8GM /L 45 | 0394 | — | 24 | 12 | — | 1 ÷ 5 | — | 0373 | 5717 | 0554 |
| d 6 - ER11 GM /L 45 | 0157 | — | 25 | 16 | — | 1 ÷ 7 | — | 0432 | 5718 | 5573 |
| d 7 - ER11 GM /L 45 | 0187 | — | 25 | 16 | — | 1 ÷ 7 | — | 0432 | 5718 | 5573 |
| d 8 - ER 8GM /L 55 | 0395 | — | 24 | 12 | — | 1 ÷ 5 | — | 0373 | 5717 | 0554 |
| d 8 - ER 8GM /L 80 | 0155 | — | | | | | | | | |
| d 8 - ER 8GM /L 100 | 2000 | — | | | | | | | | |
| d 8 - ER 8GM /L 130 | 2001 | — | | | | | | | | |
| d 8 - ER11 GM /L 55 | 2889 | — | 25 | 16 | — | 1 ÷ 7 | — | 0432 | 5718 | 5573 |
| d 8 - ER11 GM /L 100 | 2894 | — | | | | | | | | |
| d 8 - ER16 GM /L 55 | 2026 | — | 37 | 22 | — | 1 ÷ 10 | — | 1229 | 5719 | 0364 |
| d 8 - ER16 GM /L 100 | 2027 | — | | | | | | | | |
| d 10 - ER 8GM /L 55 | 2937 | — | 24 | 12 | 5 | 1 ÷ 5 | 0173 | 0373 | 5717 | 0554 |
| d 10 - ER 8GM /L 80 | 5138 | — | | | | | | | | |
| d 10 - ER 8GM /L 100 | 2938 | — | | | | | | | | |
| d 10 - ER 8GM /L 130 | 5139 | — | | | | | | | | |
| d 10 - ER11 GM /L 55 | 2890 | — | 25 | 16 | 5 | 1 ÷ 7 | 0173 | 0432 | 5718 | 5573 |
| d 10 - ER11 GM /L 80 | 5140 | — | | | | | | | | |
| d 10 - ER11 GM /L 100 | 2896 | — | | | | | | | | |
| d 10 - ER11 GM /L 130 | 5141 | — | | | | | | | | |
| d 10 - ER16 GM /L 60 | 2891 | — | 37 | 22 | 5 | 1 ÷ 10 | 0173 | 1229 | 5719 | 0364 |
| d 10 - ER16 GM /L 80 | 5142 | — | | | | | | | | |
| d 10 - ER16 GM /L 100 | 2956 | — | | | | | | | | |
| d 12 - ER 8GM /L 55 | 2002 | — | 15 | 12 | 5 | 1 ÷ 5 | 0173 | 0373 | 5717 | 0554 |
| d 12 - ER 8GM /L 70 | 5143 | — | | | | | | | | |
| d 12 - ER 8GM /L 100 | 2962 | — | | | | | | | | |
| d 12 - ER 8GM /L 140 | 2991 | — | | | | | | | | |
| d 12 - ER11 GM /L 55 | 2892 | — | 25 | 16 | 7 | 1 ÷ 7 | 0181 | 0432 | 5718 | 5573 |
| d 12 - ER11 GM /L 70 | 3208 | — | | | | | | | | |
| d 12 - ER11 GM /L 100 | 3003 | — | | | | | | | | |
| d 12 - ER11 GM /L 140 | 0217 | — | | | | | | | | |
| d 12 - ER16 GM /L 55 | 2893 | — | 37 | 22 | 7 | 1 ÷ 10 | 0181 | 1229 | 5719 | 0364 |
| d 12 - ER16 GM /L 80 | 3209 | — | | | | | | | | |
| d 12 - ER16 GM /L 120 | 3214 | — | | | | | | | | |
| d 15 - ER20 GM /L 100 | 3210 | — | 41 | 28 | 9 | 1 ÷ 13 | 0183 | 1230 | 5720 | 0787 |
| d 16 - ER11 GM /L 40 | 0214 | — | 22 | 16 | 7 | 1 ÷ 7 | 0181 | 0432 | 5718 | 5573 |
| d 16 - ER11 GM /L 60 | 0292 | — | | | | | | | | |
| d 16 - ER11 GM /L 80 | 0441 | — | | | | | | | | |
| d 16 - ER11 GM /L 100 | 2963 | — | | | | | | | | |
| d 16 - ER11 GM /L 130 | 3903 | — | | | | | | | | |
| d 16 - ER11 GM /L 160 | 3904 | — | | | | | | | | |
| d 16 - ER11 GM /L 200 | 3913 | — | | | | | | | | |
| d 16 - ER16 GM /L 35 | 2591 | — | 37 | 22 | 7 | 1 ÷ 10 | 0181 | 1229 | 5719 | 0364 |
| d 16 - ER16 GM /L 60 | 3211 | — | | | | | | | | |
| d 16 - ER16 GM /L 80 | 3212 | — | | | | | | | | |
| d 16 - ER16 GM /L 100 | 3226 | — | | | | | | | | |
| d 16 - ER16 GM /L 130 | 3393 | — | | | | | | | | |
| d 16 - ER16 GM /L 160 | 3490 | — | | | | | | | | |
| d 16 - ER16 GM /L 200 | 2005 | — | | | | | | | | |
| d 16 - ER20 GM /L 55 | 2895 | — | 40 | 28 | 9 | 1 ÷ 13 | 0183 | 1230 | 5720 | 0787 |
| d 16 - ER20 GM /L 100 | 3213 | — | | | | | | | | |
| d 16 - ER20 GM /L 130 | 2982 | — | | | | | | | | |
| d 16 - ER20 GM /L 160 | 2983 | — | | | | | | | | |



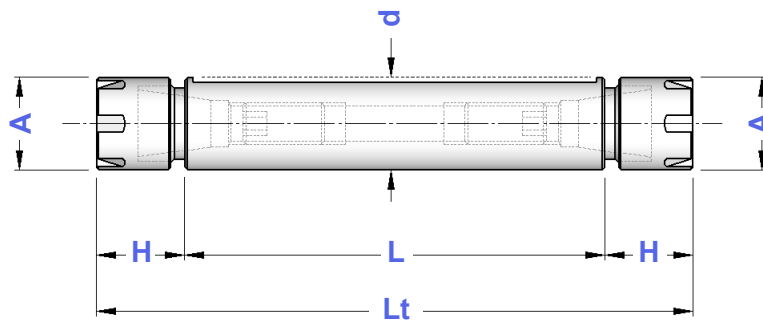






| TIPO | Senza Piano | Con Piano | H | A | C | CAPACITA' |  |  |  |  |
|---|--|---|----------|----------|----------|------------------|---|---|---|---|
| d 19,05 - ER11GM/L 50 d 19,05 - ER11GM/L 100 | — — | 0189 3013 | 18 | 16 | 7 | 1 ÷ 7 | 0181 | 0432 | 5718 | 5573 |
| d 19,05 - ER16GM/L 60 d 19,05 - ER16GM/L 100 | — — | 0215 3394 | 30 | 22 | 11 | 1 ÷ 10 | 0186 | 1229 | 5719 | 0364 |
| d 19,05 - ER20GM/L 50 d 19,05 - ER20GM/L 100 | — — | 0226 3397 | 37 | 28 | 11 | 1 ÷ 13 | 0186 | 1230 | 5720 | 0787 |
| d 19,05 - ER25GM/L 50 d 19,05 - ER25GM/L 100 | — — | 2897 3037 | 46 | 35 | 11 | 1 ÷ 16 | 0186 | 1231 | 5721 | 0996 |
| d 20 - ER11 GM /L 50 d 20 - ER11 GM /L 100 d 20 - ER11 GM /L 130 d 20 - ER11 GM /L 160 d 20 - ER11 GM /L 200 | 0216 SP 1222 SP 2042 SP 2043 SP 5144 SP | 0216 P 1222 P 2042 P 2043 P 5144 P | 22 | 16 | 7 | 1 ÷ 7 | 0181 | 0432 | 5718 | 5573 |
| d 20 - ER16 GM /L 60 d 20 - ER16 GM /L 100 d 20 - ER16 GM /L 130 d 20 - ER16 GM /L 160 d 20 - ER16 GM /L 200 d 20 - ER16 GM /L 250 | 3905 SP 3520 SP 3909 SP 3521 SP 3522 SP 3528 SP | 3905 P 3520 P 3909 P 3521 P 3522 P 3528 P | 30 | 22 | 11 | 1 ÷ 10 | 0186 | 1229 | 5719 | 0364 |
| d 20 - ER20 GM /L 46 d 20 - ER20 GM /L 60 d 20 - ER20 GM /L 100 d 20 - ER20 GM /L 130 d 20 - ER20 GM /L 160 d 20 - ER20 GM /L 200 d 20 - ER20 GM /L 250 | 3215 SP 0220 SP 3216 SP 3217 SP 0225 SP 3227 SP 3285 SP | 3215 P 0220 P 3216 P 3217 P 0225 P 3227 P 3285 P | 37 | 28 | 11 | 1 ÷ 13 | 0186 | 1230 | 5720 | 0787 |
| d 20 - ER25 GM /L 46 d 20 - ER25 GM /L 60 d 20 - ER25 GM /L 100 d 20 - ER25 GM /L 130 d 20 - ER25 GM /L 160 | 2899 SP 3906 SP 3218 SP 0228 SP 3319 SP | 2899 P 3906 P 3218 P 0228 P 3319 P | 46 | 35 | 11 | 1 ÷ 16 | 0186 | 1231 | 5721 | 0996 |
| d 22 - ER16 GM /L 80 d 22 - ER20 GM /L 80 | — — | 0408 0412 | 27 30 | 22 28 | 11 11 | 1 ÷ 10 1 ÷ 13 | 0186 0186 | 1229 1230 | 5719 5720 | 0364 0787 |
| d 25 - ER11 GM /L 100 d 25 - ER11 GM /L 130 d 25 - ER11 GM /L 160 | 0451 SP 5145 SP 5146 SP | 0451 P 5145 P 5146 P | 18 | 16 | 7 | 1 ÷ 7 | 0181 | 0432 | 5718 | 5573 |
| d 25 - ER16 GM /L 60 d 25 - ER16 GM /L 100 d 25 - ER16 GM /L 130 d 25 - ER16 GM /L 160 d 25 - ER16 GM /L 200 | 0218 SP 0219 SP 0231 SP 3029 SP 3063 SP | 0218 P 0219 P 0231 P 3029 P 3063 P | 27 | 22 | 11 | 1 ÷ 10 | 0186 | 1229 | 5719 | 0364 |
| d 25 - ER20 GM /L 60 d 25 - ER20 GM /L 100 d 25 - ER20 GM /L 130 d 25 - ER20 GM /L 160 d 25 - ER20 GM /L 200 | 3907 SP 0221 SP 0222 SP 3219 SP 4004 SP | 3907 P 0221 P 0222 P 3219 P 4004 P | 28 | 28 | 13 | 1 ÷ 13 | 0188 | 1230 | 5720 | 0787 |
| d 25 - ER25 GM /L 50 d 25 - ER25 GM /L 70 d 25 - ER25 GM /L 100 d 25 - ER25 GM /L 130 d 25 - ER25 GM /L 160 d 25 - ER25 GM /L 200 | 0227 SP 3908 SP 0426 SP 0446 SP 0449 SP 0462 SP | 0227 P 3908 P 0426 P 0446 P 0449 P 0462 P | 32 | 35 | 13 | 1 ÷ 16 | 0188 | 1231 | 5721 | 0996 |
| d 25,4-ER16 GM /L 60 d 25,4-ER16 GM /L 100 d 25,4-ER16 GM /L 140 | — — — | 3030 3031 3038 | 27 | 22 | 11 | 1 ÷ 10 | 0186 | 1229 | 5719 | 0364 |
| d 25,4-ER20 GM /L 70 d 25,4-ER20 GM /L 100 d 25,4-ER20 GM /L 140 | — — — | 3912 0421 0422 | 28 | 28 | 13 | 1 ÷ 13 | 0188 | 1230 | 5720 | 0787 |
| d 25,4-ER25 GM /L 70 d 25,4-ER25 GM /L 100 d 25,4-ER25 GM /L 140 | — — — | 3914 0433 0440 | 32 | 35 | 13 | 1 ÷ 16 | 0188 | 1231 | 5721 | 0996 |
| d 32 - ER16 GM /L 90 d 32 - ER20 GM /L 90 | — — | 3395 3396 | 30 28 | 22 28 | 11 13 | 1 ÷ 10 1 ÷ 13 | 0186 0188 | 1229 1230 | 5719 5720 | 0364 0787 |



DIN 1835 A

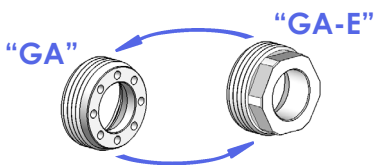
PORTAPINZE ER DOPPI CON ATTACCO CILINDRICO - GHIERA MINI STRAIGHT SHANK ER - DIN 6499 DOUBLE COLLET CHUCKS - MINI NUT



| TIPO | Art. | H | Lt | A | CAPACITA' |  |  |  |  |
|----------------------------|-------------|------|-----|----|-----------|---|---|---|---|
| d 20 DP - ER 11 GM / L 42 | 8779 | 14,0 | 70 | | | 0021 | | | |
| d 20 DP - ER 11 GM / L 52 | 8780 | 14,0 | 80 | 16 | 1 ÷ 7 | 0375 | 0432 | 5718 | 5573 |
| d 20 DP - ER 11 GM / L 62 | 8781 | 14,0 | 90 | | | 0375 | | | |
| d 20 DP - ER 16 GM / L 37 | 8782 | 21,5 | 80 | | | — | | | |
| d 20 DP - ER 16 GM / L 57 | 8783 | 21,5 | 100 | 22 | 1 ÷ 10 | 0060 | 1229 | 5719 | 0364 |
| d 20 DP - ER 16 GM / L 67 | 8784 | 21,5 | 110 | | | 0376 | | | |
| d 20 DP - ER 16 GM / L 122 | 8988 | 21,5 | 165 | | | 0376 | | | |
| d 22 DP - ER 16 GM / L 47 | 8785 | 21,5 | 90 | | | 0060 | | | |
| d 22 DP - ER 16 GM / L 67 | 8786 | 21,5 | 110 | 22 | 1 ÷ 10 | 0376 | 1229 | 5719 | 0364 |
| d 22 DP - ER 16 GM / L 102 | 8787 | 21,5 | 145 | | | 0186 | | | |
| d 25 DP - ER 16 GM / L 27 | 8788 | 21,5 | 70 | | | — | | | |
| d 25 DP - ER 16 GM / L 47 | 8789 | 21,5 | 90 | 22 | 1 ÷ 10 | 0060 | 1229 | 5719 | 0364 |
| d 25 DP - ER 16 GM / L 67 | 8790 | 21,5 | 110 | | | 0376 | | | |
| d 25 DP - ER 20 GM / L 82 | 8791 | 24,0 | 130 | 28 | 1 ÷ 13 | 0186 | 1230 | 5720 | 0787 |
| d 32 DP - ER 20 GM / L 57 | 8792 | 24,0 | 105 | | | 0060 | | | |
| d 32 DP - ER 20 GM / L 82 | 8793 | 24,0 | 130 | 28 | 1 ÷ 13 | 0186 | 1230 | 5720 | 0787 |

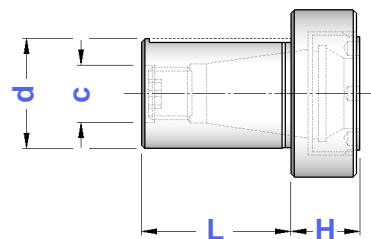
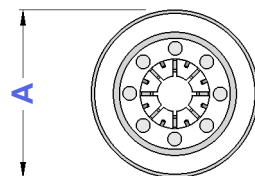
DIN 1835 A





PORTAPINZE ER CON ATTACCO CILINDRICO - GHIERA INTERNA "A" STRAIGHT SHANK ER - DIN 6499 COLLET CHUCKS - INSIDE NUT "GA" TYPE

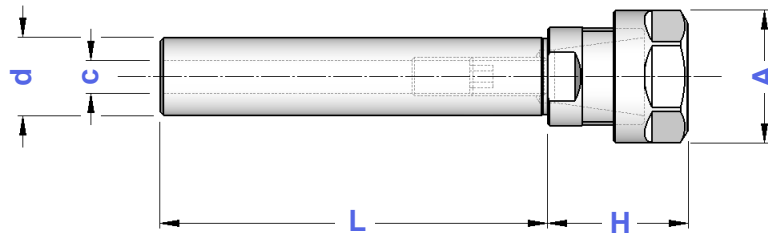


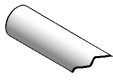
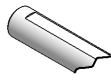




La ghiera tipo "GA" può essere sostituita con quella tipo "GA-E" che ha presa di chiave esagonale.

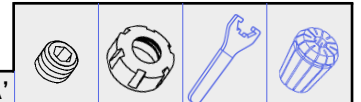
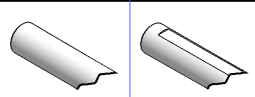
Nut "GA" type can be substituted by "GA-E" type with hexagonal wrench hold.



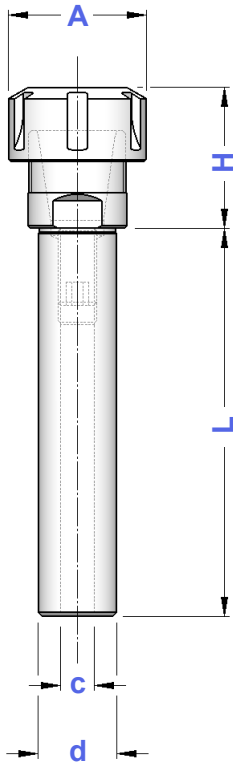
| TIPO | Art. | H | L | A | C | CAPACITA' |  |  |  |  |
|-----------------|-------------|----|----|----|----|-----------|---|---|---|---|
| d 20 - ER 16 GA | 2939 | 14 | 34 | 32 | 11 | 1 ÷ 10 | 0060 | 2868 | 3170 | 0364 |
| d 25 - ER 20 GA | 3200 | 18 | 34 | 38 | 13 | 1 ÷ 13 | 0200 | 2869 | 3171 | 0787 |
| d 32 - ER 20 GA | 2940 | 16 | 36 | 38 | 13 | 1 ÷ 13 | 0200 | 2869 | 3171 | 0787 |
| d 32 - ER 25 GA | 2942 | 19 | 36 | 40 | 19 | 1 ÷ 16 | 0190 | 2870 | 3172 | 0996 |
| d 40 - ER 32 GA | 2943 | 21 | 45 | 48 | 23 | 2 ÷ 20 | 0191 | 2871 | 3173 | 0998 |

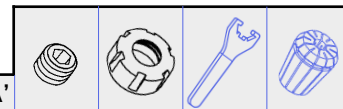
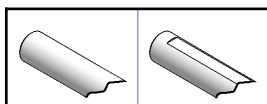


| TIPO |   | | H | A | C | CAPACITA' |  |  |  |  |
|----------------------------|---|---------------|----|----|----|-----------|---|---|---|---|
| | Senza Piano | Con Piano | | | | | | | | |
| d 14 - ER 16 GE / L 60 | 5244 | — | 36 | 28 | 7 | 1 ÷ 10 | 0181 | 1214 | 2906 | 0364 |
| d 16 - ER 16 GE / L 60 | 5245 | — | 36 | 28 | 7 | 1 ÷ 10 | 0181 | 1214 | 2906 | 0364 |
| d 16 - ER 16 GE / L 80 | 5246 | — | | | | | | | | |
| d 16 - ER 16 GE / L 100 | 5247 | — | | | | | | | | |
| d 16 - ER 16 GE / L 130 | 5248 | — | | | | | | | | |
| d 16 - ER 16 GE / L 160 | 5249 | — | | | | | | | | |
| d 16 - ER 16 GE / L 200 | 5250 | — | | | | | | | | |
| d 16 - ER 20 GE / L 60 | 5251 | — | 40 | 34 | 9 | 1 ÷ 13 | 0183 | 1215 | 2907 | 0787 |
| d 19,05 - ER 16 GE / L 50 | — | 5252 | 32 | 28 | 11 | 1 ÷ 10 | 0186 | 1214 | 2906 | 0364 |
| d 19,05 - ER 16 GE / L 100 | — | 5253 | | | | | | | | |
| d 19,05 - ER 20 GE / L 50 | — | 5254 | 36 | 34 | 11 | 1 ÷ 13 | 0186 | 1215 | 2907 | 0787 |
| d 19,05 - ER 20 GE / L 100 | — | 5255 | | | | | | | | |
| d 20 - ER 16 GE / L 50 | 5256 SP | 5256 P | 31 | 28 | 11 | 1 ÷ 10 | 0186 | 1214 | 2906 | 0364 |
| d 20 - ER 16 GE / L 100 | 5257 SP | 5257 P | | | | | | | | |
| d 20 - ER 16 GE / L 130 | 5258 SP | 5258 P | | | | | | | | |
| d 20 - ER 16 GE / L 160 | 5259 SP | 5259 P | | | | | | | | |
| d 20 - ER 16 GE / L 200 | 5260 SP | 5260 P | | | | | | | | |
| d 20 - ER 20 GE / L 46 | 5261 SP | 5261 P | | | | | | | | |
| d 20 - ER 20 GE / L 60 | 5262 SP | 5262 P | | | | | | | | |
| d 20 - ER 20 GE / L 100 | 5263 SP | 5263 P | | | | | | | | |
| d 20 - ER 20 GE / L 130 | 5264 SP | 5264 P | | | | | | | | |
| d 20 - ER 20 GE / L 160 | 5265 SP | 5265 P | | | | | | | | |
| d 20 - ER 20 GE / L 200 | 5266 SP | 5266 P | | | | | | | | |
| d 22 - ER 16 GE / L 80 | — | 5267 | 26 | 28 | 11 | 1 ÷ 10 | 0186 | 1214 | 2906 | 0364 |
| d 22 - ER 20 GE / L 80 | — | 5268 | 36 | 34 | 11 | 1 ÷ 13 | 0186 | 1215 | 2907 | 0787 |
| d 25 - ER 16 GE / L 60 | 5269 SP | 5269 P | 27 | 28 | 11 | 1 ÷ 10 | 0186 | 1214 | 2906 | 0364 |
| d 25 - ER 16 GE / L 100 | 5270 SP | 5270 P | | | | | | | | |
| d 25 - ER 16 GE / L 130 | 5271 SP | 5271 P | | | | | | | | |
| d 25 - ER 16 GE / L 160 | 5272 SP | 5272 P | | | | | | | | |
| d 25 - ER 16 GE / L 200 | 5273 SP | 5273 P | | | | | | | | |
| d 25 - ER 20 GE / L 60 | 5274 SP | 5274 P | | | | | | | | |
| d 25 - ER 20 GE / L 100 | 5275 SP | 5275 P | | | | | | | | |
| d 25 - ER 20 GE / L 130 | 5276 SP | 5276 P | | | | | | | | |
| d 25 - ER 20 GE / L 160 | 5277 SP | 5277 P | | | | | | | | |
| d 25,4 - ER 16 GE / L 60 | — | 5278 | 27 | 28 | 11 | 1 ÷ 10 | 0186 | 1214 | 2906 | 0364 |
| d 25,4 - ER 16 GE / L 100 | — | 5279 | 28 | 34 | 13 | 1 ÷ 13 | 0188 | 1215 | 2907 | 0787 |
| d 25,4 - ER 20 GE / L 60 | — | 5280 | | | | | | | | |
| d 25,4 - ER 20 GE / L 100 | — | 5281 | | | | | | | | |
| d 32 - ER 16 GE / L 100 | — | 5284 | 27 | 28 | 11 | 1 ÷ 10 | 0186 | 1214 | 2906 | 0364 |
| d 32 - ER 16 GE / L 150 | — | 5285 | | | | | | | | |
| d 32 - ER 20 GE / L 100 | — | 5286 | 28 | 34 | 13 | 1 ÷ 13 | 0188 | 1215 | 2907 | 0787 |
| d 32 - ER 20 GE / L 150 | — | 5287 | | | | | | | | |

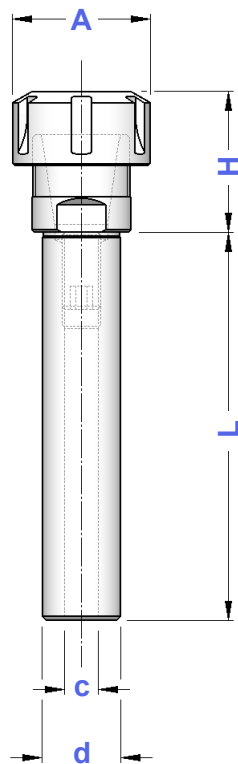


| TIPO | Senza Piano | Con Piano | H | A | C | CAPACITA' | | | | |
|----------------------|----------------|---------------|----|----|----|-----------|------|------|------|------|
| d 14 - ER 16 / L 60 | 3915 | — | 36 | 32 | 7 | 1 ÷ 10 | 0181 | 4993 | 3698 | 0364 |
| d 16 - ER 16 / L 60 | 3916 | — | 36 | 32 | 7 | 1 ÷ 10 | 0181 | 4993 | 3698 | 0364 |
| d 16 - ER 16 / L 80 | 5009 | — | | | | | | | | |
| d 16 - ER 16 / L 100 | 3185 | — | | | | | | | | |
| d 16 - ER 16 / L 130 | 5087 | — | | | | | | | | |
| d 16 - ER 16 / L 160 | 3206 | — | | | | | | | | |
| d 16 - ER 16 / L 200 | 5089 | — | | | | | | | | |
| d 16 - ER 20 / L 60 | 3529 | — | 40 | 35 | 9 | 1 ÷ 13 | 0183 | 4994 | 3699 | 0787 |
| d 16 - ER 25 / L 35 | 0573 | — | 46 | 42 | 9 | 1 ÷ 16 | 0183 | 4995 | 3669 | 0996 |
| d 16 - ER 25 / L 70 | 0574 | — | | | | | | | | |
| d 19,05 - ER16/L 50 | — | 3929 | 32 | 32 | 11 | 1 ÷ 10 | 0186 | 4993 | 3698 | 0364 |
| d 19,05 - ER16/L100 | — | 0229 | | | | | | | | |
| d 19,05 - ER20/L 50 | — | 3930 | 36 | 35 | 11 | 1 ÷ 13 | 0186 | 4994 | 3699 | 0787 |
| d 19,05 - ER20/L100 | — | 0379 | | | | | | | | |
| d 19,05 - ER25/L 50 | — | 2379 | 46 | 42 | 11 | 1 ÷ 16 | 0186 | 4995 | 3669 | 0996 |
| d 19,05 - ER25/L100 | — | 2381 | | | | | | | | |
| d 19,05 - ER32/L 50 | — | 5096 | 54 | 50 | 13 | 2 ÷ 20 | 0188 | 4996 | 3670 | 0988 |
| d 19,05 - ER32/L100 | — | 5097 | | | | | | | | |
| d 20 - ER 16 / L 50 | 3917 SP | 3917 P | 31 | 32 | 11 | 1 ÷ 10 | 0186 | 4993 | 3698 | 0364 |
| d 20 - ER 16 / L 100 | 3918 SP | 3918 P | | | | | | | | |
| d 20 - ER 16 / L 130 | 5098 SP | 5098 P | | | | | | | | |
| d 20 - ER 16 / L 160 | 3228 SP | 3228 P | | | | | | | | |
| d 20 - ER 16 / L 200 | 5099 SP | 5099 P | | | | | | | | |
| d 20 - ER 20 / L 46 | 3919 SP | 3919 P | | | | | | | | |
| d 20 - ER 20 / L 60 | 3920 SP | 3920 P | | | | | | | | |
| d 20 - ER 20 / L 100 | 0381 SP | 0381 P | | | | | | | | |
| d 20 - ER 20 / L 130 | 5147 SP | 5147 P | | | | | | | | |
| d 20 - ER 20 / L 160 | 5148 SP | 5148 P | | | | | | | | |
| d 20 - ER 20 / L 200 | 5149 SP | 5149 P | | | | | | | | |
| d 20 - ER 25 / L 50 | 2600 SP | 2600 P | 46 | 42 | 11 | 1 ÷ 16 | 0186 | 4995 | 3669 | 0996 |
| d 20 - ER 25 / L 100 | 3921 SP | 3921 P | | | | | | | | |
| d 20 - ER 25 / L 130 | 3910 SP | 3910 P | | | | | | | | |
| d 20 - ER 25 / L 160 | 3911 SP | 3911 P | | | | | | | | |
| d 20 - ER 32 / L 50 | 3203 SP | 3203 P | | | | | | | | |
| d 20 - ER 32 / L 100 | 3922 SP | 3922 P | | | | | | | | |
| d 20 - ER 32 / L 130 | 3931 SP | 3931 P | | | | | | | | |
| d 20 - ER 32 / L 160 | 3932 SP | 3932 P | | | | | | | | |
| d 22 - ER 16 / L 80 | — | 0434 | 26 | 32 | 11 | 1 ÷ 10 | 0186 | 4993 | 3698 | 0364 |
| d 22 - ER 20 / L 80 | — | 0436 | 36 | 35 | 11 | 1 ÷ 13 | 0186 | 4994 | 3699 | 0787 |
| d 22 - ER 25 / L 50 | — | 3177 | 42 | 42 | 13 | 1 ÷ 16 | 0188 | 4995 | 3669 | 0996 |
| d 22 - ER 25 / L 80 | — | 0437 | | | | | | | | |
| d 22 - ER 32 / L 50 | — | 3178 | 53 | 50 | 13 | 2 ÷ 20 | 0188 | 4996 | 3670 | 0988 |
| d 25 - ER 16 / L 60 | 5163 SP | 5163 P | 27 | 32 | 11 | 1 ÷ 10 | 0186 | 4993 | 3698 | 0364 |
| d 25 - ER 16 / L 100 | 5164 SP | 5164 P | | | | | | | | |
| d 25 - ER 16 / L 130 | 5165 SP | 5165 P | | | | | | | | |
| d 25 - ER 16 / L 160 | 5166 SP | 5166 P | | | | | | | | |
| d 25 - ER 16 / L 200 | 5167 SP | 5167 P | | | | | | | | |
| d 25 - ER 20 / L 60 | 0230 SP | 0230 P | | | | | | | | |
| d 25 - ER 20 / L 100 | 0383 SP | 0383 P | | | | | | | | |
| d 25 - ER 20 / L 130 | 5168 SP | 5168 P | | | | | | | | |
| d 25 - ER 20 / L 160 | 5169 SP | 5169 P | | | | | | | | |
| d 25 - ER 25 / L 50 | 3923 SP | 3923 P | 32 | 42 | 13 | 1 ÷ 16 | 0188 | 4995 | 3669 | 0996 |
| d 25 - ER 25 / L 70 | 5183 SP | 5183 P | | | | | | | | |
| d 25 - ER 25 / L 100 | 0391 SP | 0391 P | | | | | | | | |
| d 25 - ER 25 / L 130 | 0392 SP | 0392 P | | | | | | | | |
| d 25 - ER 25 / L 160 | 0393 SP | 0393 P | | | | | | | | |





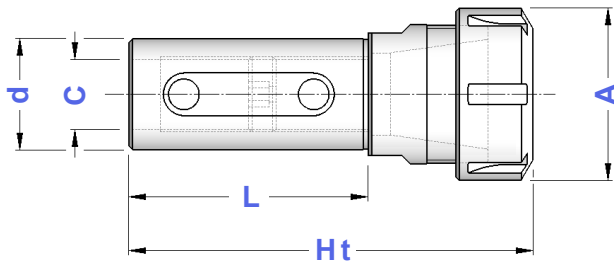
| TIPO | Senza Piano | Con Piano | H | A | C | CAPACITA' | | | | |
|------------------------|----------------|---------------|----|----|----|-----------|------|------|------|------|
| d 25 - ER 32 / L 50 | 1216 SP | 1216 P | 54 | 50 | 13 | 2 ÷ 20 | 0188 | 4996 | 3670 | 0988 |
| d 25 - ER 32 / L 70 | 1221 SP | 1221 P | | | | | | | | |
| d 25 - ER 32 / L 100 | 3924 SP | 3924 P | | | | | | | | |
| d 25 - ER 32 / L 130 | 3927 SP | 3927 P | | | | | | | | |
| d 25 - ER 32 / L 160 | 3928 SP | 3928 P | | | | | | | | |
| d 25 - ER 40 / L 50 | 2901 SP | 2901 P | 60 | 63 | 13 | 3 ÷ 30 | 0188 | 4997 | 3671 | 0821 |
| d 25 - ER 40 / L 100 | 3266 SP | 3266 P | | | | | | | | |
| d 25,4 - ER 16 / L 60 | — | 5184 | 27 | 32 | 11 | 1 ÷ 10 | 0186 | 4993 | 3698 | 0364 |
| d 25,4 - ER 16 / L 100 | — | 5185 | | | | | | | | |
| d 25,4 - ER 20 / L 60 | — | 0296 | 28 | 35 | 13 | 1 ÷ 13 | 0188 | 4994 | 3699 | 0787 |
| d 25,4 - ER 20 / L 100 | — | 0386 | | | | | | | | |
| d 25,4 - ER 25 / L 50 | — | 3933 | 32 | 42 | 13 | 1 ÷ 16 | 0188 | 4995 | 3669 | 0996 |
| d 25,4 - ER 25 / L 70 | — | 5186 | | | | | | | | |
| d 25,4 - ER 25 / L 100 | — | 3934 | | | | | | | | |
| d 25,4 - ER 32 / L 50 | — | 1217 | 54 | 50 | 13 | 2 ÷ 20 | 0188 | 4996 | 3670 | 0988 |
| d 25,4 - ER 32 / L 70 | — | 5187 | | | | | | | | |
| d 25,4 - ER 32 / L 100 | — | 3935 | | | | | | | | |
| d 25,4 - ER 40 / L 50 | — | 1917 | 60 | 63 | 13 | 3 ÷ 30 | 0188 | 4997 | 3671 | 0821 |
| d 30 - ER 25 / L 50 | — | 3925 | 45 | 42 | 19 | 1 ÷ 16 | 0190 | 4995 | 3669 | 0996 |
| d 30 - ER 32 / L 50 | — | 2593 | 53 | 50 | 23 | 2 ÷ 20 | 0191 | 4996 | 3670 | 0988 |
| d 30 - ER 40 / L 50 | — | 2594 | 60 | 63 | 23 | 3 ÷ 30 | 0191 | 4997 | 3671 | 0821 |
| d 31,75 - ER32/L 50 | — | 1218 | 44 | 50 | 23 | 2 ÷ 20 | 0191 | 4996 | 3670 | 0988 |
| d 31,75 - ER40/L 50 | — | 3938 | 60 | 63 | 23 | 3 ÷ 30 | 0191 | 4997 | 3671 | 0821 |
| d 32 - ER 16 / L 100 | — | 5188 | 27 | 32 | 11 | 1 ÷ 10 | 0186 | 4993 | 3698 | 0364 |
| d 32 - ER 16 / L 150 | — | 5189 | | | | | | | | |
| d 32 - ER 20 / L 100 | — | 5190 | 28 | 35 | 13 | 1 ÷ 13 | 0188 | 4994 | 3699 | 0787 |
| d 32 - ER 20 / L 150 | — | 5191 | | | | | | | | |
| d 32 - ER 25 / L 70 | — | 0307 | 28 | 42 | 19 | 1 ÷ 16 | 0190 | 4995 | 3669 | 0996 |
| d 32 - ER 25 / L 100 | — | 5192 | | | | | | | | |
| d 32 - ER 25 / L 120 | — | 0309 | | | | | | | | |
| d 32 - ER 25 / L 150 | — | 5193 | | | | | | | | |
| d 32 - ER 32 / L 50 | — | 1424 | 38 | 50 | 23 | 2 ÷ 20 | 0191 | 4996 | 3670 | 0988 |
| d 32 - ER 32 / L 70 | — | 3181 | | | | | | | | |
| d 32 - ER 32 / L 100 | — | 0402 | | | | | | | | |
| d 32 - ER 32 / L 120 | — | 0450 | | | | | | | | |
| d 32 - ER 32 / L 150 | — | 3398 | | | | | | | | |
| d 32 - ER 40 / L 50 | — | 1918 | | | | | | | | |
| d 32 - ER 40 / L 70 | — | 0405 | | | | | | | | |
| d 32 - ER 40 / L 100 | — | 5194 | | | | | | | | |
| d 32 - ER 40 / L 130 | — | 5195 | | | | | | | | |
| d 35 - ER 32 / L 80 | — | 5196 | 38 | 50 | 23 | 2 ÷ 20 | 0191 | 4996 | 3670 | 0988 |
| d 40 - ER 25 / L 70 | — | 3405 | 42 | 42 | 19 | 1 ÷ 16 | 0190 | 4995 | 3669 | 0996 |
| d 40 - ER 25 / L 120 | — | 3406 | | | | | | | | |
| d 40 - ER 32 / L 70 | — | 3204 | 30 | 50 | 23 | 2 ÷ 20 | 0191 | 4996 | 3670 | 0988 |
| d 40 - ER 32 / L 100 | — | 3356 | | | | | | | | |
| d 40 - ER 32 / L 130 | — | 3399 | | | | | | | | |
| d 40 - ER 32 / L 160 | — | 3357 | | | | | | | | |
| d 40 - ER 40 / L 50 | — | 3205 | 60 | 63 | 28 | 3 ÷ 30 | 0195 | 4997 | 3671 | 0821 |
| d 40 - ER 40 / L 80 | — | 0406 | | | | | | | | |
| d 40 - ER 40 / L 130 | — | 3942 | | | | | | | | |
| d 44,45 - ER32/L160 | — | 3424 | 33 | 50 | 23 | 2 ÷ 20 | 0191 | 4996 | 3670 | 0988 |
| d 44,45 - ER40/L160 | — | 3428 | 40 | 63 | 28 | 3 ÷ 30 | 0195 | 4997 | 3671 | 0821 |
| d 50 - ER 32 / L 125 | — | 3409 | 32 | 50 | 23 | 2 ÷ 20 | 0191 | 4996 | 3670 | 0988 |
| d 50 - ER 32 / L 160 | — | 3519 | | | | | | | | |
| d 50 - ER 40 / L 125 | — | 5197 | 37 | 63 | 28 | 3 ÷ 30 | 0195 | 4997 | 3671 | 0821 |
| d 50 - ER 40 / L 160 | — | 3412 | | | | | | | | |
| d 50,8 - ER 32 / L 160 | — | 3422 | 32 | 50 | 23 | 2 ÷ 20 | 0191 | 4996 | 3670 | 0988 |
| d 50,8 - ER 40 / L 160 | — | 3426 | 37 | 63 | 28 | 3 ÷ 30 | 0195 | 4997 | 3671 | 0821 |
| d 60 - ER 32 / L 160 | — | 3514 | 32 | 50 | 23 | 2 ÷ 20 | 0191 | 4996 | 3670 | 0988 |
| d 60 - ER 40 / L 160 | — | 3515 | 37 | 63 | 28 | 3 ÷ 30 | 0195 | 4997 | 3671 | 0821 |







**DIN
1835 A**

**PORTAPINZA ER CON ATTACCO CILINDRICO E FORI DI LUBRIFICAZIONE
GHIERA STANDARD**

STRAIGHT SHANK ER - DIN 6499 COLLET CHUCKS WITH COOLING HOLES - STANDARD NUT

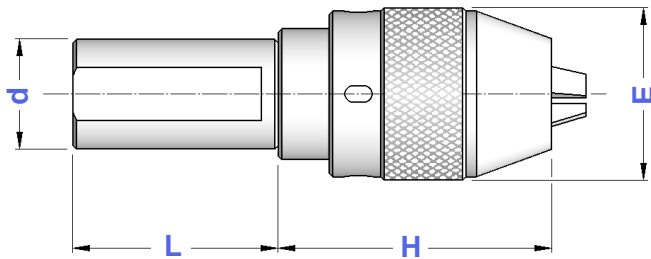



| TIPO | Art. | A | Ht | L | C | CAPACITA' |  |  |  |  |
|-----------------|-------------|----|-----|----|----|-----------|---|---|---|---|
| d 32 NC - ER 25 | 3408 | 42 | 110 | 70 | 19 | 1 ÷ 16 | 0190 | 4995 | 3669 | 0996 |
| d 32 NC - ER 32 | 3401 | 50 | 118 | 70 | 23 | 2 ÷ 20 | 0191 | 4996 | 3670 | 0988 |
| d 40 NC - ER 32 | 3402 | 50 | 115 | 75 | 23 | 2 ÷ 20 | 0191 | 4996 | 3670 | 0988 |
| d 40 NC - ER 40 | 3404 | 63 | 130 | 75 | 23 | 3 ÷ 30 | 0191 | 4997 | 3671 | 0821 |

**DIN
1835 A**

**MANDRINI AUTOSERRANTI INTEGRALI CON ATTACCO CILINDRICO
ROTAZIONE DESTRA**

STRAIGHT SHANK MONOLITHIC DRILL CHUCKS - RIGHT SPIN



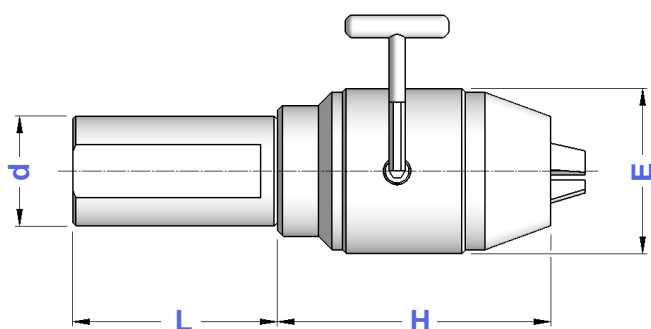
| TIPO | Art. | CAPACITA' | E | H | L |  |
|--------------|-------------|-----------|----|----|----|---|
| d 20 - DC 13 | 1419 | 1 ÷ 13 | 50 | 81 | 60 | 2370 |
| d 25 - DC 13 | 1422 | 1 ÷ 13 | 50 | 81 | 80 | 2370 |
| d 32 - DC 13 | 1425 | 1 ÷ 13 | 50 | 81 | 60 | 2370 |
| d 32 - DC 16 | 1426 | 3 ÷ 16 | 57 | 85 | 60 | 2371 |
| d 40 - DC 13 | 1427 | 1 ÷ 13 | 50 | 81 | 70 | 2370 |
| d 40 - DC 16 | 1428 | 3 ÷ 16 | 57 | 85 | 70 | 2371 |

Precisione di rotazione: 0,05 mm
Runout accuracy: 0,05 mm

**DIN
1835 A**

**MANDRINI AUTOSERRANTI INTEGRALI CON ATTACCO CILINDRICO
ROTAZIONE DESTRA E SINISTRA**

STRAIGHT SHANK MONOLITHIC DRILL CHUCKS - RIGHT & LEFT SPIN




| TIPO | Art. | CAPACITA' | E | H | L |  |
|--------------|-------------|-----------|----|----|----|---|
| d 25 - DCU13 | 8607 | 1 ÷ 13 | 50 | 82 | 70 | 2372 |
| d 25 - DCU16 | 8608 | 3 ÷ 16 | 50 | 87 | 70 | |
| d 32 - DCU13 | 8609 | 1 ÷ 13 | 50 | 82 | 60 | 2372 |
| d 32 - DCU16 | 8610 | 3 ÷ 16 | 57 | 87 | 60 | |
| d 40 - DCU13 | 8611 | 1 ÷ 13 | 50 | 82 | 70 | 2372 |
| d 40 - DCU16 | 8612 | 3 ÷ 16 | 57 | 87 | 70 | |

Figura 1

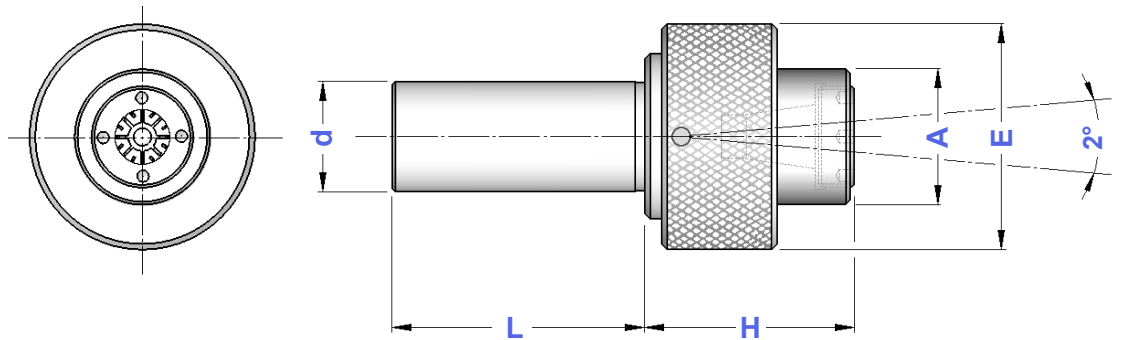
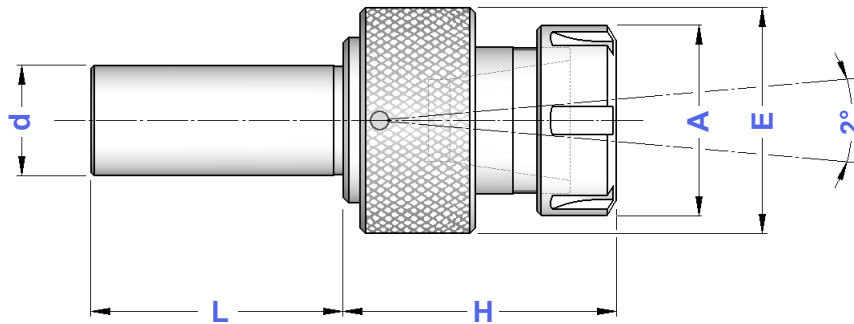







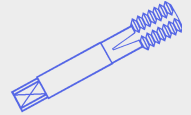
Figura 2



| TIPO | Art. | A | E | H | L | CAPACITA' | Figura |  |  |  |  |  |
|--------------------|-------------|----|----|----|----|-----------|--------|---|---|---|---|---|
| d 16 RM - ER 11 | 1141 | 24 | 40 | 37 | 46 | 1 ÷ 7 | 1 | 2867 | — | 3169 | — | 5573 |
| d 16 RM - ER 16 | 1152 | 32 | 40 | 50 | 46 | 1 ÷ 10 | 2 | — | 4993 | — | 3698 | 0364 |
| d 16 RM - ER 20 | 1173 | 35 | 40 | 55 | 46 | 1 ÷ 13 | 2 | — | 4994 | — | 3699 | 0787 |
| d 19,05 RM - ER 11 | 1165 | 24 | 40 | 37 | 46 | 1 ÷ 7 | 1 | 2867 | — | 3169 | — | 5573 |
| d 19,05 RM - ER 16 | 1176 | 32 | 40 | 50 | 46 | 1 ÷ 10 | 2 | — | 4993 | — | 3698 | 0364 |
| d 19,05 RM - ER 20 | 1340 | 35 | 40 | 55 | 46 | 1 ÷ 13 | 2 | — | 4994 | — | 3699 | 0787 |
| d 20 RM - ER 11 | 1213 | 24 | 40 | 37 | 46 | 1 ÷ 7 | 1 | 2867 | — | 3169 | — | 5573 |
| d 20 RM - ER 16 | 1227 | 32 | 40 | 50 | 46 | 1 ÷ 10 | 2 | — | 4993 | — | 3698 | 0364 |
| d 20 RM - ER 20 | 1573 | 35 | 40 | 55 | 46 | 1 ÷ 13 | 2 | — | 4994 | — | 3699 | 0787 |
| d 20 RM - ER 25 | 1237 | 42 | 61 | 58 | 46 | 1 ÷ 16 | 2 | — | 4995 | — | 3669 | 0996 |
| d 22 RM - ER 25 | 1503 | 42 | 61 | 58 | 46 | 1 ÷ 16 | 2 | — | 4995 | — | 3669 | 0996 |
| d 22 RM - ER 32 | 1593 | 50 | 61 | 70 | 46 | 2 ÷ 20 | 2 | — | 4996 | — | 3670 | 0988 |
| d 25 RM - ER 20 | 1241 | 35 | 40 | 55 | 46 | 1 ÷ 13 | 2 | — | 4994 | — | 3699 | 0787 |
| d 25 RM - ER 25 | 1242 | 42 | 61 | 58 | 46 | 1 ÷ 16 | 2 | — | 4995 | — | 3669 | 0996 |
| d 25 RM - ER 32 | 1341 | 50 | 61 | 70 | 46 | 2 ÷ 20 | 2 | — | 4996 | — | 3670 | 0988 |
| d 25,4 RM - ER 20 | 1243 | 35 | 40 | 55 | 46 | 1 ÷ 13 | 2 | — | 4994 | — | 3699 | 0787 |
| d 25,4 RM - ER 25 | 1245 | 42 | 61 | 58 | 46 | 1 ÷ 16 | 2 | — | 4995 | — | 3669 | 0996 |
| d 25,4 RM - ER 32 | 1342 | 50 | 61 | 70 | 46 | 2 ÷ 20 | 2 | — | 4996 | — | 3670 | 0988 |
| d 30 RM - ER 32 | 1627 | 50 | 61 | 70 | 46 | 2 ÷ 20 | 2 | — | 4996 | — | 3670 | 0988 |
| d 31,75 RM - ER 32 | 1894 | 50 | 61 | 70 | 50 | 2 ÷ 20 | 2 | — | 4996 | — | 3670 | 0988 |
| d 32 RM - ER 32 | 1895 | 50 | 61 | 70 | 50 | 2 ÷ 20 | 2 | — | 4996 | — | 3670 | 0988 |

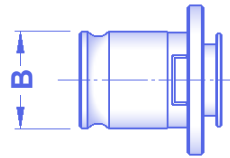
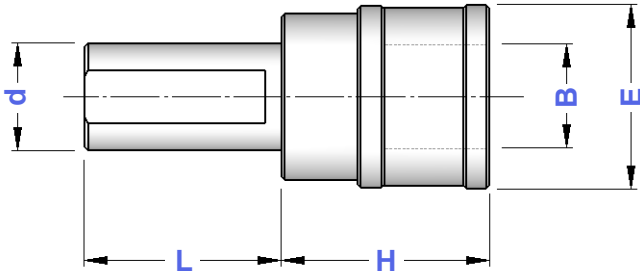
**DIN
1835 A**

**MASCHIATORI CON ATTACCO CILINDRICO
SENZA COMPENSAZIONE**
STRAIGHT SHANK TAP HOLDERS - WITHOUT COMPENSATION



| TIPO | Art. | H | L | E | B | |
|------------------|-------------|----|----|----|----|-------------------|
| d 20 - B.1 FISSO | 2059 | 40 | 50 | 33 | 19 | M 3 ÷ M 12 (*M16) |
| d 20 - B.2 FISSO | 2060 | 60 | 50 | 50 | 31 | M 6 ÷ M 20 (*M30) |
| d 25 - B.1 FISSO | 2061 | 40 | 56 | 33 | 19 | M 3 ÷ M 12 (*M16) |
| d 25 - B.2 FISSO | 2062 | 60 | 56 | 50 | 31 | M 6 ÷ M 20 (*M30) |
| d 32 - B.1 FISSO | 2067 | 40 | 60 | 33 | 19 | M 3 ÷ M 12 (*M16) |
| d 32 - B.2 FISSO | 2068 | 60 | 60 | 50 | 31 | M 6 ÷ M 20 (*M30) |
| d 40 - B.1 FISSO | 2080 | 40 | 72 | 33 | 19 | M 3 ÷ M 12 (*M16) |
| d 40 - B.2 FISSO | 2081 | 60 | 72 | 50 | 31 | M 6 ÷ M 20 (*M30) |

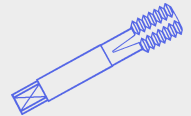
* Bussole tipo GR
Adapters GR type



**Bussole a Maschiare da pag. 172
a pag. 175 del Catalogo Generale**
Tap Adapters on General Catalogue
from page 172 to page 175

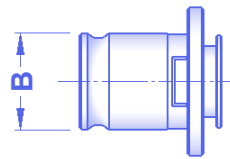
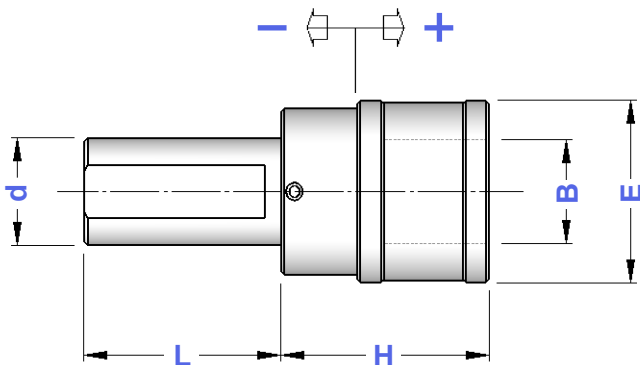
**DIN
1835 A**

**MASCHIATORI CON ATTACCO CILINDRICO
DOPPIA COMPENSAZIONE**
STRAIGHT SHANK TAP HOLDERS - DOUBLE COMPENSATION



| TIPO | Art. | H | L | E | B | COMPENSAZIONE | |
|------------|-------------|-----|----|----|----|---------------|-------------------|
| d 16 - B.0 | 3807 | 37 | 50 | 26 | 13 | - 6,5 + 6,5 | M 1 ÷ M 10 |
| d 16 - B.1 | 3808 | 40 | 56 | 36 | 19 | - 7,5 + 7,5 | M 3 ÷ M 12 (*M16) |
| d 20 - B.0 | 3809 | 37 | 50 | 26 | 13 | - 6,5 + 6,5 | M 1 ÷ M 10 |
| d 20 - B.1 | 3851 | 40 | 50 | 38 | 19 | - 7,5 + 7,5 | M 3 ÷ M 12 (*M16) |
| d 20 - B.2 | 3852 | 63 | 60 | 53 | 31 | -15,0 + 15,0 | M 6 ÷ M 20 (*M30) |
| d 25 - B.1 | 4451 | 40 | 56 | 38 | 19 | - 7,5 + 7,5 | M 3 ÷ M 12 (*M16) |
| d 25 - B.2 | 4452 | 60 | 60 | 53 | 31 | -12,5 + 12,5 | M 6 ÷ M 20 (*M30) |
| d 32 - B.1 | 4453 | 40 | 60 | 38 | 19 | - 7,5 + 7,5 | M 3 ÷ M 12 (*M16) |
| d 32 - B.2 | 4454 | 63 | 60 | 53 | 31 | -12,5 + 12,5 | M 6 ÷ M 20 (*M30) |
| d 32 - B.3 | 3598 | 120 | 60 | 79 | 48 | -24,0 + 24,0 | M14 ÷ M 33 (*M48) |
| d 40 - B.1 | 4455 | 40 | 72 | 38 | 19 | - 7,5 + 7,5 | M 3 ÷ M 12 (*M16) |
| d 40 - B.2 | 4456 | 63 | 72 | 53 | 31 | -12,5 + 12,5 | M 6 ÷ M 20 (*M30) |
| d 40 - B.3 | 3857 | 98 | 72 | 79 | 48 | -24,0 + 24,0 | M14 ÷ M 33 (*M48) |

* Bussole tipo GR
Adapters GR type



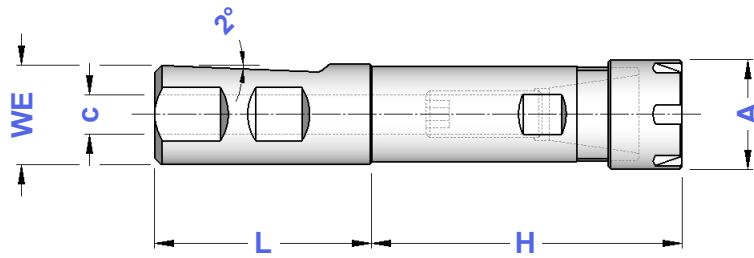
**Bussole a Maschiare da pag. 172
a pag. 175 del Catalogo Generale**
Tap Adapters on General Catalogue
from page 172 to page 175





I maschiatori sono fornibili anche con la sola compensazione a trazione (SFILAMENTO)
Tap holders are also available with traction compensation only (TENSION ONLY)

DIN 1835 B

PORTAPINZA ER CON ATTACCO WELDON - GHIERA MINI

WELDON SHANK ER - DIN 6499 COLLET CHUCKS - MINI NUT

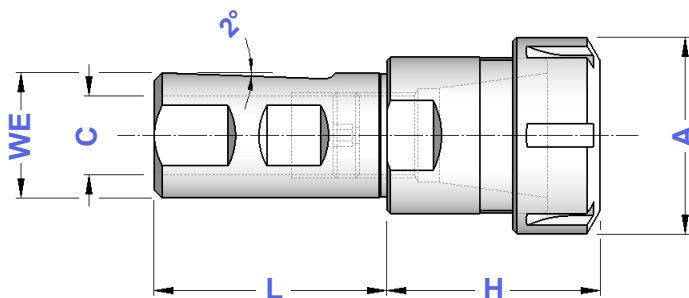






| TIPO | Art. | H | L | A | C | CAPACITA' |  |  |  |  |
|------------------|-------------|----|----|----|----|-----------|---|---|---|---|
| WE 16 - ER 11 GM | 3189 | 80 | 48 | 16 | 7 | 1 ÷ 7 | 0181 | 0432 | 5718 | 5573 |
| WE 16 - ER 16 GM | 3190 | 80 | 48 | 22 | 9 | 1 ÷ 10 | 0183 | 1229 | 5719 | 0364 |
| WE 20 - ER 16 GM | 3253 | 80 | 50 | 22 | 11 | 1 ÷ 10 | 0186 | 1229 | 5719 | 0364 |
| WE 20 - ER 20 GM | 3254 | 80 | 50 | 28 | 11 | 1 ÷ 13 | 0186 | 1230 | 5720 | 0787 |
| WE 25 - ER 16 GM | 3255 | 80 | 56 | 22 | 11 | 1 ÷ 10 | 0186 | 1229 | 5719 | 0364 |
| WE 25 - ER 20 GM | 3256 | 80 | 56 | 28 | 13 | 1 ÷ 13 | 0188 | 1230 | 5720 | 0787 |

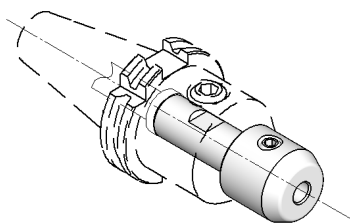
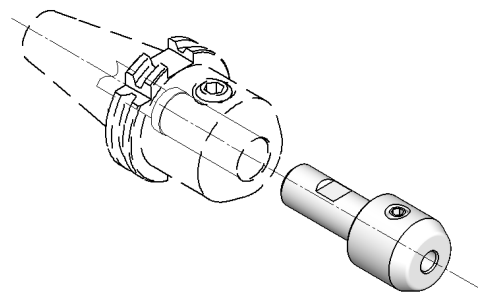
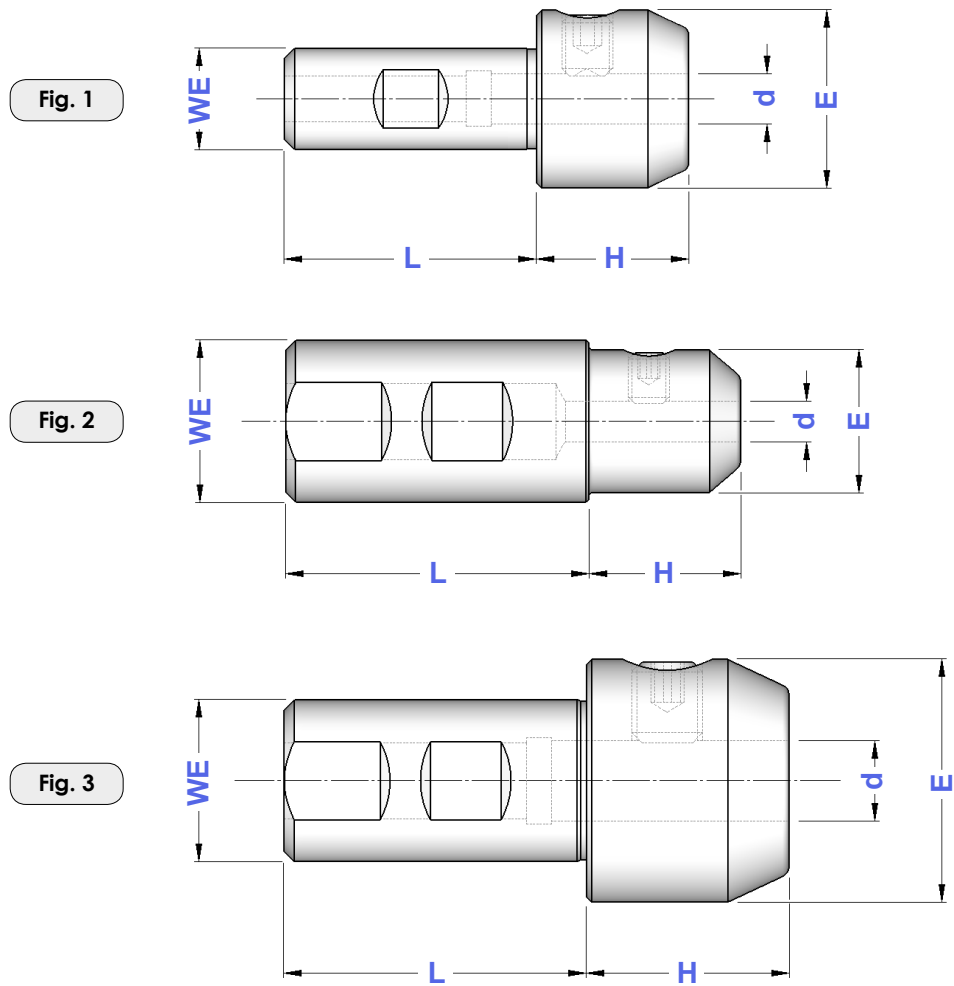
DIN 1835 B


PORTAPINZA ER CON ATTACCO WELDON GHIERA STANDARD

WELDON SHANK ER - DIN 6499 COLLET CHUCKS - STANDARD NUT



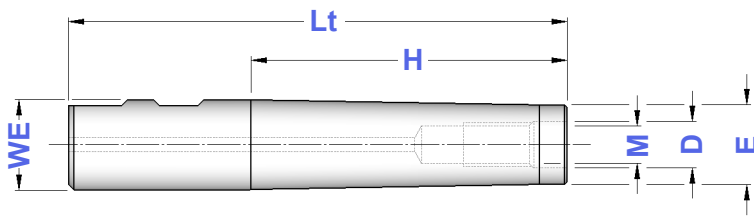
| TIPO | Art. | H | L | A | C | CAPACITA' |  |  |  |  |
|-----------------------|-------------|-----|----|----|----|-----------|---|---|---|---|
| WE 20 - ER 32 / H 55 | 3313 | 55 | 50 | 50 | 11 | 2 ÷ 20 | 0186 | 4996 | 3670 | 0988 |
| WE 20 - ER 32 / H 100 | 3314 | 100 | 50 | 50 | 11 | 2 ÷ 20 | 0186 | 4996 | 3670 | 0988 |
| WE 25 - ER 32 / H 55 | 3320 | 55 | 56 | 50 | 13 | 2 ÷ 20 | 0188 | 4996 | 3670 | 0988 |
| WE 25 - ER 32 / H 100 | 3321 | 100 | 56 | 50 | 13 | 2 ÷ 20 | 0188 | 4996 | 3670 | 0988 |
| WE 32 - ER 32 / H 55 | 3323 | 55 | 60 | 50 | 23 | 2 ÷ 20 | 0191 | 4996 | 3670 | 0988 |
| WE 32 - ER 32 / H 100 | 3324 | 100 | 60 | 50 | 23 | 2 ÷ 20 | 0191 | 4996 | 3670 | 0988 |



| TIPO | Art. | d | H | L | E | Figura |  |
|--------------|-------------|----|----|----|----|--------|---|
| WE 20 - d 6 | 3044 | 6 | 30 | 50 | 25 | 1 | 4970 |
| WE 20 - d 8 | 3046 | 8 | 30 | 50 | 28 | 1 | 4971 |
| WE 20 - d 10 | 3064 | 10 | 30 | 50 | 35 | 1 | 4972 |
| WE 20 - d 12 | 3065 | 12 | 35 | 50 | 42 | 1 | 4973 |
| WE 20 - d 14 | 4518 | 14 | 35 | 50 | 44 | 1 | 4973 |
| WE 20 - d 16 | 3066 | 16 | 60 | 50 | 48 | 1 | 4974 |
| WE 25 - d 6 | 3121 | 6 | 25 | 56 | 25 | 2 | 4970 |
| WE 25 - d 8 | 3122 | 8 | 30 | 56 | 28 | 3 | 4971 |
| WE 25 - d 10 | 3123 | 10 | 30 | 56 | 35 | 3 | 4972 |
| WE 25 - d 12 | 3124 | 12 | 35 | 56 | 42 | 3 | 4973 |
| WE 25 - d 14 | 4519 | 14 | 35 | 56 | 44 | 3 | 4973 |
| WE 25 - d 16 | 3125 | 16 | 40 | 56 | 48 | 3 | 4974 |
| WE 32 - d 6 | 3760 | 6 | 30 | 60 | 25 | 2 | 4970 |
| WE 32 - d 8 | 3761 | 8 | 30 | 60 | 28 | 2 | 4971 |
| WE 32 - d 10 | 3762 | 10 | 30 | 60 | 35 | 3 | 4972 |
| WE 32 - d 12 | 3763 | 12 | 35 | 60 | 42 | 3 | 4973 |
| WE 32 - d 14 | 4520 | 14 | 35 | 60 | 44 | 3 | 4973 |
| WE 32 - d 16 | 3764 | 16 | 40 | 60 | 48 | 3 | 4974 |
| WE 32 - d 18 | 4521 | 18 | 40 | 60 | 50 | 3 | 4974 |
| WE 32 - d 20 | 3765 | 20 | 40 | 60 | 52 | 3 | 4975 |
| WE 32 - d 25 | 3126 | 25 | 65 | 60 | 65 | 3 | 4976 |

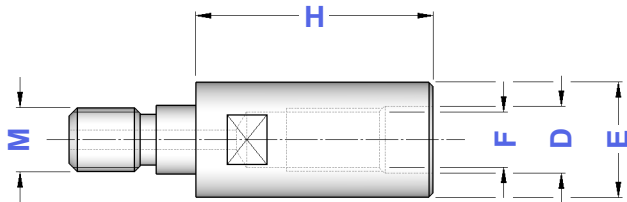
DIN 1835 B

PORTAFRESE CON ATTACCO WELDON PER FRESE CON ATTACCO FILETTATO WELDON SHANKS FOR MILLING CUTTERS WITH THREADED SHANK



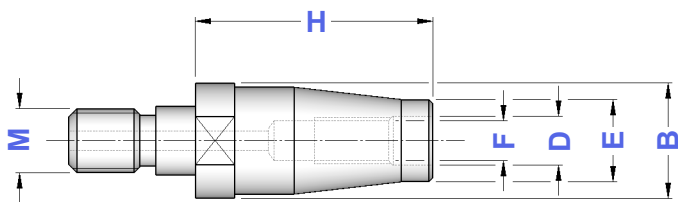
| TIPO | Art. | M | D | E | H | Lt |
|------------|------|-----|------|------|-----|-----|
| WE16 - M 8 | 6480 | M8 | 8,5 | 12,8 | 60 | 115 |
| WE16 - M 8 | 6481 | M8 | 8,5 | 12,8 | 100 | 160 |
| WE20 - M10 | 6482 | M10 | 10,5 | 17,8 | 60 | 120 |
| WE20 - M10 | 6483 | M10 | 10,5 | 17,8 | 100 | 160 |
| WE25 - M12 | 6484 | M12 | 12,5 | 20,8 | 100 | 160 |
| WE32 - M16 | 6485 | M16 | 17,0 | 28,8 | 100 | 160 |

PROLUNGHE PER FRESE CON ATTACCO FILETTATO EXTENSIONS FOR MILLING CUTTERS WITH THREADED SHANK



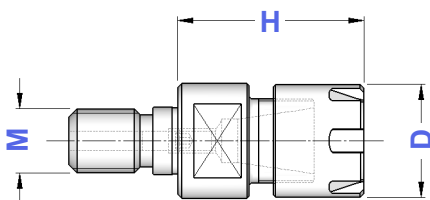
| TIPO | Art. | M | F | D | E | H |
|-------------|------|-----|-----|------|------|----|
| M 8 - M 8 | 6486 | M8 | M8 | 8,5 | 12,8 | 30 |
| M 10 - M 10 | 6487 | M10 | M10 | 10,5 | 17,8 | 35 |
| M 12 - M 12 | 6488 | M12 | M12 | 12,5 | 20,8 | 40 |
| M 16 - M 16 | 6489 | M16 | M16 | 17,0 | 28,8 | 40 |

RIDUZIONI PER FRESE CON ATTACCO FILETTATO REDUCTIONS FOR MILLING CUTTERS WITH THREADED SHANK



| TIPO | Art. | M | F | D | E | B | H |
|-------------|------|-----|-----|------|------|------|----|
| M 10 - M 8 | 6490 | M10 | M8 | 8,5 | 12,8 | 17,8 | 30 |
| M 12 - M 8 | 6491 | M12 | M8 | 8,5 | 12,8 | 20,8 | 40 |
| M 12 - M 10 | 6492 | M12 | M10 | 10,5 | 17,8 | 20,8 | 35 |
| M 16 - M 10 | 6493 | M16 | M10 | 10,5 | 17,8 | 28,8 | 60 |
| M 16 - M 12 | 6494 | M16 | M12 | 12,5 | 20,8 | 28,8 | 40 |

PORTAPINZE ER CON ATTACCO FILETTATO ER COLLET CHUCKS WITH THREADED SHANK

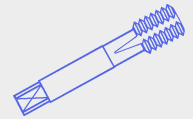


| TIPO | Art. | M | D | H | CAPACITA' | | | |
|-----------------|------|-----|----|----|-----------|------|------|------|
| M 12 - ER 16 GM | 6460 | M12 | 22 | 35 | 1 ÷ 10 | 1229 | 5719 | 0364 |
| M 16 - ER 16 GM | 6461 | M16 | 22 | 40 | 1 ÷ 10 | 1229 | 5719 | 0364 |
| M 16 - ER 20 GM | 6462 | M16 | 28 | 40 | 1 ÷ 13 | 1230 | 5720 | 0787 |
| M 16 - ER 25 GM | 6463 | M16 | 35 | 45 | 1 ÷ 16 | 1231 | 5721 | 0996 |

**DIN
1835 B**

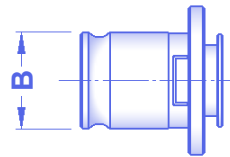
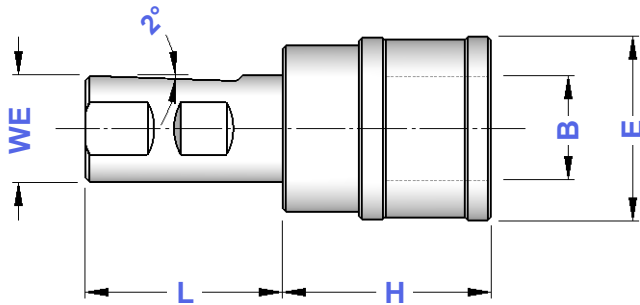
**MASCHIATORI CON ATTACCO WELDON
SENZA COMPENSAZIONE**

WELDON SHANK TAP HOLDERS - WITHOUT COMPENSATION



| TIPO | Art. | H | L | E | B | |
|--------------------|-------------|----|----|----|----|-------------------|
| WE 20 - B. 1 FISSO | 2059 | 40 | 50 | 33 | 19 | M 3 ÷ M 12 (*M16) |
| WE 20 - B. 2 FISSO | 2060 | 60 | 50 | 50 | 31 | M 6 ÷ M 20 (*M30) |
| WE 25 - B. 1 FISSO | 2061 | 40 | 56 | 33 | 19 | M 3 ÷ M 12 (*M16) |
| WE 25 - B. 2 FISSO | 2062 | 60 | 56 | 50 | 31 | M 6 ÷ M 20 (*M30) |
| WE 32 - B. 1 FISSO | 2067 | 40 | 60 | 33 | 19 | M 3 ÷ M 12 (*M16) |
| WE 32 - B. 2 FISSO | 2068 | 60 | 60 | 50 | 31 | M 6 ÷ M 20 (*M30) |
| WE 40 - B. 1 FISSO | 2080 | 40 | 72 | 33 | 19 | M 3 ÷ M 12 (*M16) |
| WE 40 - B. 2 FISSO | 2081 | 60 | 72 | 50 | 31 | M 6 ÷ M 20 (*M30) |

* Bussole con grani
Adapters with screws

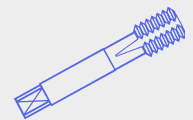


**Bussole a Maschiare da pag. 172
a pag. 175 del Catalogo Generale**
Tap Adapters on General Catalogue
from page 172 to page 175

**DIN
1835 B**

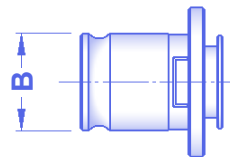
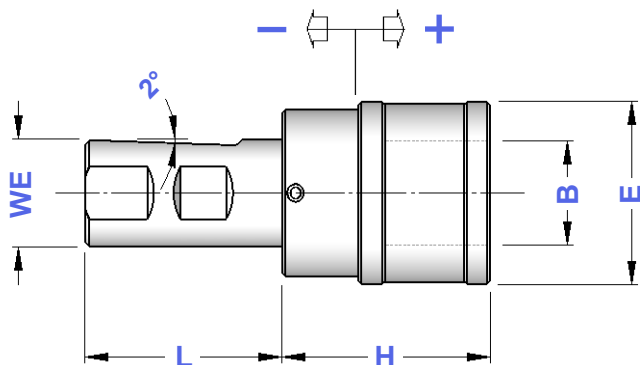
**MASCHIATORI CON ATTACCO WELDON
DOPPIA COMPENSAZIONE**

WELDON SHANK TAP HOLDERS - DOUBLE COMPENSATION



| TIPO | Art. | H | L | E | B | COMPENSAZIONE | |
|--------------|-------------|-----|----|----|----|---------------|-------------------|
| WE 20 - B. 1 | 3176 | 41 | 50 | 38 | 19 | - 9 + 9 | M 3 ÷ M 12 (*M16) |
| WE 25 - B. 1 | 3963 | 41 | 56 | 38 | 19 | - 9 + 9 | M 3 ÷ M 12 (*M16) |
| WE 25 - B. 2 | 3964 | 63 | 56 | 53 | 31 | -15 + 15 | M 6 ÷ M 20 (*M30) |
| WE 32 - B. 1 | 3853 | 41 | 60 | 38 | 19 | - 9 + 9 | M 3 ÷ M 12 (*M16) |
| WE 32 - B. 2 | 3854 | 63 | 60 | 53 | 31 | -15 + 15 | M 6 ÷ M 20 (*M30) |
| WE 32 - B. 3 | 3598 | 120 | 60 | 79 | 48 | -24 + 24 | M14 ÷ M 33 (*M48) |
| WE 40 - B. 1 | 3855 | 41 | 72 | 38 | 19 | - 9 + 9 | M 3 ÷ M 12 (*M16) |
| WE 40 - B. 2 | 3856 | 63 | 72 | 55 | 31 | -15 + 15 | M 6 ÷ M 20 (*M30) |
| WE 40 - B. 3 | 3857 | 98 | 72 | 79 | 48 | -24 + 24 | M14 ÷ M 33 (*M48) |

* Bussole con grani
Adapters with screws



**Bussole a Maschiare da pag. 172
a pag. 175 del Catalogo Generale**
Tap Adapters on General Catalogue
from page 172 to page 175

I maschiatori sono fornibili anche con la sola compensazione a trazione (SFILAMENTO)
Tap holders are also available with traction compensation only (TENSION ONLY)