

Zylinderschaft | kurze & schwarze Ausführung | rollgewalzte Standardqualität | Kegelmantelanschliff | Spitzenwinkel 118°  
straight shank | jobbers length | black fi nish | roll forged standard quality | relieved cone | point angle 118°



Geeignet für | Suitable for

STAHL  
STEEL  
< 850 N/mm<sup>2</sup>GRAUGUSS  
CAST IRON**ANWENDUNG | APPLICATION**

Standardbohrer zum Bohren von Stahl und Stahlguss (legiert und unlegiert), Grauguss, Temperguss, Sphäroguss, Sintereisen, Neusilber, Graphit.

Standard drills for drilling steel and cast, alloyed and non-alloyed, grey cast iron sintered powder metal, german silver, graphite.

**VERPACKUNGSEINHEITEN | PACKAGING UNITS**

bis Ø 10,5 mm je 10 Stück / ab Ø 10,6 - 15,5 mm je 5 Stück / ab Ø 16,0 mm je 1 Stück in in PVC-Tüte oder in Quadropack; einzeln in SB-Verpackung up to Ø 10,5 mm 10 pcs. each / from Ø 10,6 - 15,5 mm 5 pcs. each / from Ø 15,6 mm and above 1 pcs. each in plastic bag or in Quadropack; or SB single packing

| Ø MM | L1 | L2 | HSS    | EUR |
|------|----|----|--------|-----|
| 0,50 | 22 | 6  | 754302 |     |
| 0,60 | 24 | 7  | 754303 |     |
| 0,70 | 28 | 9  | 754304 |     |
| 0,75 | 28 | 9  | 754305 |     |
| 0,80 | 30 | 10 | 754306 |     |
| 0,90 | 32 | 11 | 754307 |     |
| 1,00 | 34 | 12 | 754308 |     |
| 1,10 | 36 | 14 | 754309 |     |
| 1,20 | 38 | 16 | 754310 |     |
| 1,25 | 38 | 16 | 754311 |     |
| 1,30 | 38 | 16 | 754312 |     |
| 1,40 | 40 | 18 | 754313 |     |
| 1,50 | 40 | 18 | 754314 |     |
| 1,60 | 43 | 20 | 754315 |     |
| 1,70 | 43 | 20 | 754316 |     |
| 1,75 | 46 | 22 | 754317 |     |
| 1,80 | 46 | 22 | 754318 |     |
| 1,90 | 46 | 22 | 754319 |     |
| 2,00 | 49 | 24 | 754320 |     |
| 2,10 | 49 | 24 | 754321 |     |
| 2,20 | 53 | 27 | 754322 |     |
| 2,25 | 53 | 27 | 754323 |     |
| 2,30 | 53 | 27 | 754324 |     |
| 2,40 | 57 | 30 | 754325 |     |
| 2,50 | 57 | 30 | 754326 |     |
| 2,60 | 57 | 30 | 754327 |     |
| 2,70 | 61 | 33 | 754328 |     |
| 2,75 | 61 | 33 | 754329 |     |
| 2,80 | 61 | 33 | 754330 |     |
| 2,90 | 61 | 33 | 754331 |     |
| 3,00 | 61 | 33 | 754332 |     |
| 3,10 | 65 | 36 | 754333 |     |
| 3,20 | 65 | 36 | 754334 |     |
| 3,25 | 65 | 36 | 754335 |     |
| 3,30 | 65 | 36 | 754336 |     |
| 3,40 | 70 | 39 | 754337 |     |
| 3,50 | 70 | 39 | 754338 |     |
| 3,60 | 70 | 39 | 754339 |     |
| 3,70 | 70 | 39 | 754340 |     |
| 3,75 | 70 | 39 | 754341 |     |
| 3,80 | 75 | 43 | 754342 |     |
| 3,90 | 75 | 43 | 754343 |     |
| 4,00 | 75 | 43 | 754344 |     |
| 4,10 | 75 | 43 | 754345 |     |
| 4,20 | 75 | 43 | 754346 |     |

| Ø MM | L1  | L2 | HSS    | EUR |
|------|-----|----|--------|-----|
| 4,25 | 75  | 47 | 754347 |     |
| 4,30 | 80  | 47 | 754348 |     |
| 4,40 | 80  | 47 | 754349 |     |
| 4,50 | 80  | 47 | 754350 |     |
| 4,60 | 80  | 47 | 754351 |     |
| 4,70 | 80  | 47 | 754352 |     |
| 4,75 | 80  | 47 | 754353 |     |
| 4,80 | 86  | 52 | 754354 |     |
| 4,90 | 86  | 52 | 754355 |     |
| 5,00 | 86  | 52 | 754356 |     |
| 5,10 | 86  | 52 | 754357 |     |
| 5,20 | 86  | 52 | 754358 |     |
| 5,25 | 86  | 52 | 754359 |     |
| 5,30 | 86  | 52 | 754360 |     |
| 5,40 | 93  | 57 | 754361 |     |
| 5,50 | 93  | 57 | 754362 |     |
| 5,60 | 93  | 57 | 754363 |     |
| 5,70 | 93  | 57 | 754364 |     |
| 5,75 | 93  | 57 | 754365 |     |
| 5,80 | 93  | 57 | 754366 |     |
| 5,90 | 93  | 57 | 754367 |     |
| 6,00 | 93  | 57 | 754368 |     |
| 6,10 | 101 | 63 | 754369 |     |
| 6,20 | 101 | 63 | 754370 |     |
| 6,25 | 101 | 63 | 754371 |     |
| 6,30 | 101 | 63 | 754372 |     |
| 6,40 | 101 | 63 | 754373 |     |
| 6,50 | 101 | 63 | 754374 |     |
| 6,60 | 101 | 63 | 754375 |     |
| 6,70 | 101 | 63 | 754376 |     |
| 6,75 | 109 | 69 | 754377 |     |
| 6,80 | 109 | 69 | 754378 |     |
| 6,90 | 109 | 69 | 754379 |     |
| 7,00 | 109 | 69 | 754380 |     |
| 7,10 | 109 | 69 | 754381 |     |
| 7,20 | 109 | 69 | 754382 |     |
| 7,25 | 109 | 69 | 754383 |     |
| 7,30 | 109 | 69 | 754384 |     |
| 7,40 | 109 | 69 | 754385 |     |
| 7,50 | 109 | 69 | 754386 |     |
| 7,60 | 117 | 75 | 754387 |     |
| 7,70 | 117 | 75 | 754388 |     |
| 7,75 | 117 | 75 | 754389 |     |
| 7,80 | 117 | 75 | 754390 |     |
| 7,90 | 117 | 75 | 754391 |     |

| Ø MM  | L1  | L2 | HSS    | EUR |
|-------|-----|----|--------|-----|
| 8,00  | 117 | 75 | 754392 |     |
| 8,10  | 117 | 75 | 754393 |     |
| 8,20  | 117 | 75 | 754394 |     |
| 8,25  | 117 | 75 | 754395 |     |
| 8,30  | 117 | 75 | 754396 |     |
| 8,40  | 117 | 75 | 754397 |     |
| 8,50  | 117 | 75 | 754398 |     |
| 8,60  | 125 | 81 | 754399 |     |
| 8,70  | 125 | 81 | 754400 |     |
| 8,75  | 125 | 81 | 754401 |     |
| 8,80  | 125 | 81 | 754402 |     |
| 8,90  | 125 | 81 | 754403 |     |
| 9,00  | 125 | 81 | 754404 |     |
| 9,10  | 125 | 81 | 754405 |     |
| 9,20  | 125 | 81 | 754406 |     |
| 9,25  | 125 | 81 | 754407 |     |
| 9,30  | 125 | 81 | 754408 |     |
| 9,40  | 125 | 81 | 754409 |     |
| 9,50  | 125 | 81 | 754410 |     |
| 9,60  | 133 | 87 | 754411 |     |
| 9,70  | 133 | 87 | 754412 |     |
| 9,75  | 133 | 87 | 754413 |     |
| 9,80  | 133 | 87 | 754414 |     |
| 9,90  | 133 | 87 | 754415 |     |
| 10,00 | 133 | 87 | 754416 |     |
| 10,10 | 133 | 87 | 754417 |     |
| 10,20 | 133 | 87 | 754418 |     |
| 10,25 | 133 | 87 | 754419 |     |
| 10,30 | 133 | 87 | 754420 |     |
| 10,40 | 133 | 87 | 754421 |     |
| 10,50 | 133 | 87 | 754422 |     |
| 10,60 | 142 | 94 | 754423 |     |
| 10,70 | 142 | 94 | 754424 |     |
| 10,75 | 142 | 94 | 754425 |     |
| 10,80 | 142 | 94 | 754426 |     |
| 10,90 | 142 | 94 | 754427 |     |
| 11,00 | 142 | 94 | 754428 |     |
| 11,10 | 142 | 94 | 754429 |     |
| 11,20 | 142 | 94 | 754430 |     |
| 11,25 | 142 | 94 | 754431 |     |
| 11,30 | 142 | 94 | 754432 |     |
| 11,40 | 142 | 94 | 754433 |     |
| 11,50 | 142 | 94 | 754434 |     |
| 11,60 | 142 | 94 | 754435 |     |
| 11,70 | 142 | 94 | 754436 |     |

**SPIRALBOHRER | TWIST DRILLS**

**DIN 338**

**HSS**

**TYP N**

**RECHTS  
RIGHT HAND**

Zylinderschaft | kurze & schwarze Ausführung | rollgewalzte Standardqualität | Kegelmantelschliff | Spitzenwinkel 118°

straight shank | jobbers length | black fi nish | roll forged standard quality | relieved cone | point angle 118°

**ZIRA**

PRÄZISIONS GEWINDE WERKZEUGE  
SEIT 1957



Geeignet für | Suitable for

**STAHL  
STEEL**  
< 850 N/mm²

**GRAUGUSS  
CAST IRON**

**FORTSETZUNG | CONTINUATION**

| Ø MM  | L1  | L2  | HSS    | EUR |
|-------|-----|-----|--------|-----|
| 11,75 | 142 | 94  | 754437 |     |
| 11,80 | 142 | 94  | 754438 |     |
| 11,90 | 151 | 101 | 754439 |     |
| 12,00 | 151 | 101 | 754440 |     |
| 12,10 | 151 | 101 | 754441 |     |
| 12,20 | 151 | 101 | 754442 |     |
| 12,25 | 151 | 101 | 754443 |     |
| 12,30 | 151 | 101 | 754444 |     |
| 12,40 | 151 | 101 | 754445 |     |
| 12,50 | 151 | 101 | 754446 |     |

| Ø MM  | L1  | L2  | HSS    | EUR |
|-------|-----|-----|--------|-----|
| 12,60 | 151 | 101 | 754447 |     |
| 12,70 | 151 | 101 | 754448 |     |
| 12,75 | 151 | 101 | 754449 |     |
| 12,80 | 151 | 101 | 754450 |     |
| 12,90 | 151 | 101 | 754451 |     |
| 13,00 | 151 | 101 | 754452 |     |
| 13,50 | 160 | 108 | 754453 |     |
| 14,00 | 160 | 108 | 754454 |     |
| 14,50 | 169 | 114 | 754455 |     |
| 15,00 | 169 | 114 | 754456 |     |

| Ø MM  | L1  | L2  | HSS    | EUR |
|-------|-----|-----|--------|-----|
| 15,50 | 178 | 120 | 754457 |     |
| 16,00 | 178 | 120 | 754458 |     |
| 16,50 | 184 | 125 | 754459 |     |
| 17,00 | 184 | 125 | 754460 |     |
| 17,50 | 191 | 130 | 754461 |     |
| 18,00 | 191 | 130 | 754462 |     |
| 18,50 | 198 | 135 | 754463 |     |
| 19,00 | 198 | 135 | 754464 |     |
| 19,50 | 205 | 140 | 754465 |     |
| 20,00 | 205 | 140 | 754466 |     |

**SPIRALBOHRER SETS | TWIST DRILLS SETS**

**DIN 338**

**HSS**

**TYP N**

**RECHTS  
RIGHT HAND**



Abb. 754467

| SIZE  | CODE   | EUR |
|---|--------|-----|
| <b>19-teilig in Rosebox   19 pieces in Rose-Box</b> |        |     |
| Ø 1,0 mm – 10,0 mm x 0,5 mm steigend   in steps     | 754467 |     |
| <b>25-teilig in Rosebox   25 pieces in Rose-Box</b> |        |     |
| Ø 1,0 mm – 13,0 mm x 0,5 mm steigend   in steps     | 754468 |     |