



VHM SPIRAALBOOR, MP-X, 3XD



Omschrijving

FORCE X universele VHM spiraalboor volgens DIN6537L. Voor boordieptes tot 3xD. Punthoek 140° en TiALN coating. Bijzondere CTW® spiraalgeometrie voor zeer rustig boorproces en sublieme naslijpmogelijkheden. Voorzien van een cilindrische Eigenschap titel eenheid sschacht volgens DIN6535HA.

(De **FORCE X** is de opvolger en vernieuwde uitvoering van de MP-X boren. De bestelnummers zijn gelijk gebleven)

norm: DIN 6537K

materiaal: HM

coating: TiAlN

Varianten (176)

| Artikelnummer | Artikelnummer fabrikant | norm | L1 | Materiaal | coating | L3 | L2 | Gewicht (gram) | d1 decimal Inch | d2 Øh6 mm | d1 Ø "/Nr. | d1 Øm7 mm | ZV_Diameter |
|---------------|-------------------------|-----------|----|-----------|---------|----|----|----------------|-----------------|-----------|------------|-----------|-------------|
| 41-10176-309 | R458 (R4583.0) | DIN 6537K | 62 | HM | TiAlN | 36 | 20 | 0,0197 | 0.1181 | 6 | | 3,00 | 3,00 |
| 41-10176-310 | R458 (R4583.1) | DIN 6537K | 62 | HM | TiAlN | 36 | 20 | 0,02 | 0.1220 | 6 | | 3,10 | 3,10 |
| 41-10176-311 | R458 (R4581/8) | DIN 6537K | 62 | HM | TiAlN | 36 | 20 | 0,018 | 0.1252 | 6 | 1/8 | 3,18 | 3,18 |
| 41-10176-312 | R458 (R4583.2) | DIN 6537K | 62 | HM | TiAlN | 36 | 20 | 0,02 | 0.1260 | 6 | | 3,20 | 3,20 |
| 41-10176-313 | R458 (R458N30) | DIN 6537K | 62 | HM | TiAlN | 36 | 20 | 0,018 | 0.1283 | 6 | 30 | 3,26 | 3,26 |
| 41-10176-314 | R458 (R4583.3) | DIN 6537K | 62 | HM | TiAlN | 36 | 20 | 0,0196 | 0.1299 | 6 | | 3,30 | 3,30 |
| 41-10176-315 | R458 (R4583.4) | DIN 6537K | 62 | HM | TiAlN | 36 | 20 | 0,0198 | 0.1339 | 6 | | 3,40 | 3,40 |
| 41-10176-316 | R458 (R458N29) | DIN 6537K | 62 | HM | TiAlN | 36 | 20 | 0,019 | 0.1358 | 6 | 29 | 3,45 | 3,45 |

| Artikelnummer | Artikelnummer fabrikant | norm | L1 | Materiaal | coating | L3 | L2 | Gewicht (gram) | d1 decimal Inch | d2 Øh6 mm | d1 Ø "/Nr. | d1 Øm7 mm | ZV_Diameter |
|---------------|-------------------------|-----------|----|-----------|---------|----|----|----------------|-----------------|-----------|------------|-----------|-------------|
| 41-10176-317 | R458 (R4583.5) | DIN 6537K | 62 | HM | TiAlN | 36 | 20 | 0,02 | 0.1378 | 6 | | 3,50 | 3,50 |
| 41-10176-318 | R458 (R4589/64) | DIN 6537K | 62 | HM | TiAlN | 36 | 20 | 0,019 | 0.1406 | 6 | 9/64 | 3,57 | 3,57 |
| 41-10176-319 | R458 (R458N28) | DIN 6537K | 62 | HM | TiAlN | 36 | 20 | 0,02 | 0.1406 | 6 | 28 | 3,57 | 3,57 |
| 41-10176-320 | R458 (R4583.6) | DIN 6537K | 62 | HM | TiAlN | 36 | 20 | 0,02 | 0.1417 | 6 | | 3,60 | 3,60 |
| 41-10176-321 | R458 (R458N27) | DIN 6537K | 62 | HM | TiAlN | 36 | 20 | 0,019 | 0.1441 | 6 | 27 | 3,66 | 3,66 |
| 41-10176-322 | R458 (R4583.7) | DIN 6537K | 62 | HM | TiAlN | 36 | 20 | 0,02 | 0.1457 | 6 | | 3,70 | 3,70 |
| 41-10176-323 | R458 (R458N26) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,019 | 0.1469 | 6 | 26 | 3,73 | 3,73 |
| 41-10176-324 | R458 (R4583.8) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,021 | 0.1496 | 6 | | 3,80 | 3,80 |
| 41-10176-325 | R458 (R458N25) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,02 | 0.1496 | 6 | 25 | 3,80 | 3,80 |
| 41-10176-326 | R458 (R458N24) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,02 | 0.1520 | 6 | 24 | 3,86 | 3,86 |
| 41-10176-327 | R458 (R4583.9) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,021 | 0.1535 | 6 | | 3,90 | 3,90 |
| 41-10176-328 | R458 (R458N23) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,001 | 0.1539 | 6 | 23 | 3,91 | 3,91 |
| 41-10176-329 | R458 (R4585/32) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,02 | 0.1563 | 6 | 5/32 | 3,97 | 3,97 |
| 41-10176-330 | R458 (R458N22) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,02 | 0.1571 | 6 | 22 | 3,99 | 3,99 |
| 41-10176-331 | R458 (R4584.0) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,022 | 0.1575 | 6 | | 4,00 | 4,00 |
| 41-10176-332 | R458 (R458N21) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,02 | 0.1591 | 6 | 21 | 4,04 | 4,04 |
| 41-10176-333 | R458 (R458N20) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,02 | 0.1610 | 6 | 20 | 4,09 | 4,09 |
| 41-10176-334 | R458 (R4584.1) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,026 | 0.1614 | 6 | | 4,10 | 4,10 |
| 41-10176-335 | R458 (R4584.2) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,022 | 0.1654 | 6 | | 4,20 | 4,20 |
| 41-10176-336 | R458 (R458N19) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,0225 | 0.1661 | 6 | 19 | 4,22 | 4,22 |
| 41-10176-337 | R458 (R4584.3) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,022 | 0.1693 | 6 | | 4,30 | 4,30 |

| Artikelnummer | Artikelnummer fabrikant | norm | L1 | Materiaal | coating | L3 | L2 | Gewicht (gram) | d1 decimal Inch | d2 Øh6 mm | d1 Ø "/Nr. | d1 Øm7 mm | ZV_Diameter |
|---------------|-------------------------|-----------|----|-----------|---------|----|----|----------------|-----------------|-----------|------------|-----------|-------------|
| 41-10176-338 | R458 (R458N18) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,02 | 0.1697 | 6 | 18 | 4,31 | 4,31 |
| 41-10176-339 | R458 (R45811/64) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,0219 | 0.1720 | 6 | 11/64 | 4,37 | 4,37 |
| 41-10176-340 | R458 (R458N17) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,02 | 0.1728 | 6 | 17 | 4,39 | 4,39 |
| 41-10176-341 | R458 (R4584.4) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,022 | 0.1732 | 6 | | 4,40 | 4,40 |
| 41-10176-342 | R458 (R4584.5) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,023 | 0.1772 | 6 | | 4,50 | 4,50 |
| 41-10176-343 | R458 (R458N16) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,021 | 0.1772 | 6 | 16 | 4,50 | 4,50 |
| 41-10176-344 | R458 (R458N15) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,023 | 0.1799 | 6 | 15 | 4,57 | 4,57 |
| 41-10176-345 | R458 (R4584.6) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,0225 | 0.1811 | 6 | | 4,60 | 4,60 |
| 41-10176-346 | R458 (R458N14) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,021 | 0.1819 | 6 | 14 | 4,62 | 4,62 |
| 41-10176-347 | R458 (R4584.7) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,0227 | 0.1850 | 6 | | 4,70 | 4,70 |
| 41-10176-348 | R458 (R458N13) | DIN 6537K | 66 | HM | TiAlN | 36 | 24 | 0,021 | 0.1850 | 6 | 13 | 4,70 | 4,70 |
| 41-10176-349 | R458 (R4583/16) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,021 | 0.1874 | 6 | 3/16 | 4,76 | 4,76 |
| 41-10176-350 | R458 (R4584.8) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,0224 | 0.1890 | 6 | | 4,80 | 4,80 |
| 41-10176-351 | R458 (R458N12) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,021 | 0.1890 | 6 | 12 | 4,80 | 4,80 |
| 41-10176-352 | R458 (R458N11) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,022 | 0.1909 | 6 | 11 | 4,85 | 4,85 |
| 41-10176-353 | R458 (R4584.9) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,0226 | 0.1929 | 6 | | 4,90 | 4,90 |
| 41-10176-354 | R458 (R458N10) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,021 | 0.1937 | 6 | 10 | 4,92 | 4,92 |
| 41-10176-355 | R458 (R458N9) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,021 | 0.1961 | 6 | 9 | 4,98 | 4,98 |
| 41-10176-356 | R458 (R4585.0) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,023 | 0.1969 | 6 | | 5,00 | 5,00 |
| 41-10176-357 | R458 (R458N8) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,02 | 0.1992 | 6 | 8 | 5,06 | 5,06 |
| 41-10176-358 | R458 (R4585.1) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,023 | 0.2008 | 6 | | 5,10 | 5,10 |

| Artikelnummer | Artikelnummer fabrikant | norm | L1 | Materiaal | coating | L3 | L2 | Gewicht (gram) | d1 decimal Inch | d2 Øh6 mm | d1 Ø "/Nr. | d1 Øm7 mm | ZV_Diameter |
|---------------|-------------------------|-----------|----|-----------|---------|----|----|----------------|-----------------|-----------|------------|-----------|-------------|
| 41-10176-359 | R458 (R458N7) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,025 | 0.2012 | 6 | 7 | 5,11 | 5,11 |
| 41-10176-360 | R458 (R45813/64) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,024 | 0.2031 | 6 | 13/64 | 5,16 | 5,16 |
| 41-10176-361 | R458 (R458N6) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,023 | 0.2039 | 6 | 6 | 5,18 | 5,18 |
| 41-10176-362 | R458 (R4585.2) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,0232 | 0.2047 | 6 | | 5,20 | 5,20 |
| 41-10176-363 | R458 (R458N5) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,023 | 0.2055 | 6 | 5 | 5,22 | 5,22 |
| 41-10176-364 | R458 (R458N4) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,022 | 0.2091 | 6 | 4 | 5,31 | 5,31 |
| 41-10176-365 | R458 (R458N3) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,0239 | 0.2130 | 6 | 3 | 5,41 | 5,41 |
| 41-10176-366 | R458 (R4585.5) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,024 | 0.2165 | 6 | | 5,50 | 5,50 |
| 41-10176-367 | R458 (R4587/32) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,023 | 0.2189 | 6 | 7/32 | 5,56 | 5,56 |
| 41-10176-368 | R458 (R4585.6) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,024 | 0.2205 | 6 | | 5,60 | 5,60 |
| 41-10176-369 | R458 (R458N2) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,023 | 0.2209 | 6 | 2 | 5,61 | 5,61 |
| 41-10176-370 | R458 (R4585.7) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,025 | 0.2244 | 6 | | 5,70 | 5,70 |
| 41-10176-371 | R458 (R458N1) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,023 | 0.2280 | 6 | 1 | 5,79 | 5,79 |
| 41-10176-372 | R458 (R4585.8) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,024 | 0.2283 | 6 | | 5,80 | 5,80 |
| 41-10176-373 | R458 (R45815/64) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,025 | 0.2343 | 6 | 15/64 | 5,95 | 5,95 |
| 41-10176-374 | R458 (R4586.0) | DIN 6537K | 66 | HM | TiAlN | 36 | 28 | 0,025 | 0.2362 | 6 | | 6,00 | 6,00 |
| 41-10176-375 | R458 (R4586.1) | DIN 6537K | 79 | HM | TiAlN | 36 | 34 | 0,044 | 0.2402 | 8 | | 6,10 | 6,10 |
| 41-10176-376 | R458 (R4586.2) | DIN 6537K | 79 | HM | TiAlN | 36 | 34 | 0,044 | 0.2441 | 8 | | 6,20 | 6,20 |
| 41-10176-377 | R458 (R4586.3) | DIN 6537K | 79 | HM | TiAlN | 36 | 34 | 0,0438 | 0.2480 | 8 | | 6,30 | 6,30 |
| 41-10176-378 | R458 (R4581/4) | DIN 6537K | 79 | HM | TiAlN | 36 | 34 | 0,041 | 0.2500 | 8 | 1/4 | 6,35 | 6,35 |
| 41-10176-379 | R458 (R4586.4) | DIN 6537K | 79 | HM | TiAlN | 36 | 34 | 0,045 | 0.2520 | 8 | | 6,40 | 6,40 |

| Artikelnummer | Artikelnummer fabrikant | norm | L1 | Materiaal | coating | L3 | L2 | Gewicht (gram) | d1 decimal Inch | d2 Øh6 mm | d1 Ø "/Nr. | d1 Øm7 mm | ZV_Diameter |
|---------------|-------------------------|-----------|----|-----------|---------|----|----|----------------|-----------------|-----------|------------|-----------|-------------|
| 41-10176-380 | R458 (R4586.5) | DIN 6537K | 79 | HM | TiAlN | 36 | 34 | 0,045 | 0.2559 | 8 | | 6,50 | 6,50 |
| 41-10176-381 | R458 (R4586.6) | DIN 6537K | 79 | HM | TiAlN | 36 | 34 | 0,0453 | 0.2598 | 8 | | 6,60 | 6,60 |
| 41-10176-382 | R458 (R4586.7) | DIN 6537K | 79 | HM | TiAlN | 36 | 34 | 0,045 | 0.2638 | 8 | | 6,70 | 6,70 |
| 41-10176-383 | R458 (R45817/64) | DIN 6537K | 79 | HM | TiAlN | 36 | 34 | 0,043 | 0.2657 | 8 | 17/64 | 6,75 | 6,75 |
| 41-10176-384 | R458 (R4586.8) | DIN 6537K | 79 | HM | TiAlN | 36 | 34 | 0,0458 | 0.2677 | 8 | | 6,80 | 6,80 |
| 41-10176-385 | R458 (R4586.9) | DIN 6537K | 79 | HM | TiAlN | 36 | 34 | 0,047 | 0.2717 | 8 | | 6,90 | 6,90 |
| 41-10176-386 | R458 (R4587.0) | DIN 6537K | 79 | HM | TiAlN | 36 | 34 | 0,0468 | 0.2756 | 8 | | 7,00 | 7,00 |
| 41-10176-387 | R458 (R4587.1) | DIN 6537K | 79 | HM | TiAlN | 36 | 41 | 0,046 | 0.2795 | 8 | | 7,10 | 7,10 |
| 41-10176-388 | R458 (R4589/32) | DIN 6537K | 79 | HM | TiAlN | 36 | 41 | 0,043 | 0.2811 | 8 | 9/32 | 7,14 | 7,14 |
| 41-10176-389 | R458 (R4587.3) | DIN 6537K | 79 | HM | TiAlN | 36 | 41 | 0,046 | 0.2874 | 8 | | 7,30 | 7,30 |
| 41-10176-390 | R458 (R4587.4) | DIN 6537K | 79 | HM | TiAlN | 36 | 41 | 0,047 | 0.2913 | 8 | | 7,40 | 7,40 |
| 41-10176-391 | R458 (R4587.5) | DIN 6537K | 79 | HM | TiAlN | 36 | 41 | 0,048 | 0.2953 | 8 | | 7,50 | 7,50 |
| 41-10176-392 | R458 (R45819/64) | DIN 6537K | 79 | HM | TiAlN | 36 | 41 | 0,0478 | 0.2969 | 8 | 19/64 | 7,54 | 7,54 |
| 41-10176-393 | R458 (R4587.6) | DIN 6537K | 79 | HM | TiAlN | 36 | 41 | 0,0482 | 0.2992 | 8 | | 7,60 | 7,60 |
| 41-10176-394 | R458 (R4587.7) | DIN 6537K | 79 | HM | TiAlN | 36 | 41 | 0,049 | 0.3031 | 8 | | 7,70 | 7,70 |
| 41-10176-395 | R458 (R4587.8) | DIN 6537K | 79 | HM | TiAlN | 36 | 41 | 0,049 | 0.3071 | 8 | | 7,80 | 7,80 |
| 41-10176-396 | R458 (R4587.9) | DIN 6537K | 79 | HM | TiAlN | 36 | 41 | 0,048 | 0.3110 | 8 | | 7,90 | 7,90 |
| 41-10176-397 | R458 (R4585/16) | DIN 6537K | 79 | HM | TiAlN | 36 | 41 | 0,046 | 0.3126 | 8 | 5/16 | 7,94 | 7,94 |
| 41-10176-398 | R458 (R4588.0) | DIN 6537K | 79 | HM | TiAlN | 36 | 41 | 0,049 | 0.3150 | 8 | | 8,00 | 8,00 |
| 41-10176-399 | R458 (R4588.1) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,072 | 0.3189 | 10 | | 8,10 | 8,10 |
| 41-10176-400 | R458 (R4588.2) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,074 | 0.3228 | 10 | | 8,20 | 8,20 |

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|---------------|-------------------------|-----------|-----|-----------|---------|----|----|----------------|-----------------|-----------|------------|-----------|-------------|
| 41-10176-401 | R458 (R45821/64) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,073 | 0.3280 | 10 | 21/64 | 8,33 | 8,33 |
| 41-10176-402 | R458 (R4588.4) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,0746 | 0.3307 | 10 | | 8,40 | 8,40 |
| 41-10176-403 | R458 (R4588.5) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,076 | 0.3346 | 10 | | 8,50 | 8,50 |
| 41-10176-404 | R458 (R4588.6) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,076 | 0.3386 | 10 | | 8,60 | 8,60 |
| 41-10176-405 | R458 (R4588.7) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,072 | 0.3425 | 10 | | 8,70 | 8,70 |
| 41-10176-406 | R458 (R45811/32) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,075 | 0.3437 | 10 | 11/32 | 8,73 | 8,73 |
| 41-10176-407 | R458 (R4588.8) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,077 | 0.3465 | 10 | | 8,80 | 8,80 |
| 41-10176-408 | R458 (R4589.0) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,0777 | 0.3543 | 10 | | 9,00 | 9,00 |
| 41-10176-409 | R458 (R4589.1) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,0768 | 0.3583 | 10 | | 9,10 | 9,10 |
| 41-10176-410 | R458 (R45823/64) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,077 | 0.3594 | 10 | 23/64 | 9,13 | 9,13 |
| 41-10176-411 | R458 (R4589.3) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,077 | 0.3661 | 10 | | 9,30 | 9,30 |
| 41-10176-412 | R458 (R4589.4) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,074 | 0.3701 | 10 | | 9,40 | 9,40 |
| 41-10176-413 | R458 (R4589.5) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,0784 | 0.3740 | 10 | | 9,50 | 9,50 |
| 41-10176-414 | R458 (R4583/8) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,08 | 0.3748 | 10 | 3/8 | 9,52 | 9,52 |
| 41-10176-415 | R458 (R4589.6) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,079 | 0.3780 | 10 | | 9,60 | 9,60 |
| 41-10176-416 | R458 (R4589.7) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,079 | 0.3819 | 10 | | 9,70 | 9,70 |
| 41-10176-417 | R458 (R4589.8) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,081 | 0.3858 | 10 | | 9,80 | 9,80 |
| 41-10176-418 | R458 (R4589.9) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,079 | 0.3898 | 10 | | 9,90 | 9,90 |
| 41-10176-419 | R458 (R45825/64) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,082 | 0.3906 | 10 | 25/64 | 9,92 | 9,92 |
| 41-10176-420 | R458 (R45810.0) | DIN 6537K | 89 | HM | TiAlN | 40 | 47 | 0,081 | 0.3937 | 10 | | 10,00 | 10,00 |
| 41-10176-421 | R458 (R45810.1) | DIN 6537K | 102 | HM | TiAlN | 45 | 55 | 0,117 | 0.3976 | 12 | | 10,10 | 10,10 |

| Artikelnummer | Artikelnummer fabrikant | norm | L1 | Materiaal | coating | L3 | L2 | Gewicht (gram) | d1 decimal Inch | d2 Øh6 mm | d1 Ø "/Nr. | d1 Øm7 mm | ZV_Diameter |
|---------------|-------------------------|-----------|-----|-----------|---------|----|----|----------------|-----------------|-----------|------------|-----------|-------------|
| 41-10176-422 | R458 (R45810.2) | DIN 6537K | 102 | HM | TiAlN | 45 | 55 | 0,122 | 0.4016 | 12 | | 10,20 | 10,20 |
| 41-10176-423 | R458 (R45810.3) | DIN 6537K | 102 | HM | TiAlN | 45 | 55 | 0,1171 | 0.4055 | 12 | | 10,30 | 10,30 |
| 41-10176-424 | R458 (R45813/32) | DIN 6537K | 102 | HM | TiAlN | 45 | 55 | 0,118 | 0.4063 | 12 | 13/32 | 10,32 | 10,32 |
| 41-10176-425 | R458 (R45810.4) | DIN 6537K | 102 | HM | TiAlN | 45 | 55 | 0,1179 | 0.4094 | 12 | | 10,40 | 10,40 |
| 41-10176-426 | R458 (R45810.5) | DIN 6537K | 102 | HM | TiAlN | 45 | 55 | 0,119 | 0.4134 | 12 | | 10,50 | 10,50 |
| 41-10176-427 | R458 (R45810.6) | DIN 6537K | 102 | HM | TiAlN | 45 | 55 | 0,125 | 0.4173 | 12 | | 10,60 | 10,60 |
| 41-10176-428 | R458 (R45827/64) | DIN 6537K | 102 | HM | TiAlN | 45 | 55 | 0,12 | 0.4220 | 12 | 27/64 | 10,72 | 10,72 |
| 41-10176-429 | R458 (R45810.8) | DIN 6537K | 102 | HM | TiAlN | 45 | 55 | 0,124 | 0.4252 | 12 | | 10,80 | 10,80 |
| 41-10176-430 | R458 (R45811.0) | DIN 6537K | 102 | HM | TiAlN | 45 | 55 | 0,128 | 0.4331 | 12 | | 11,00 | 11,00 |
| 41-10176-431 | R458 (R4587/16) | DIN 6537K | 102 | HM | TiAlN | 45 | 55 | 0,126 | 0.4374 | 12 | 7/16 | 11,11 | 11,11 |
| 41-10176-432 | R458 (R45811.2) | DIN 6537K | 102 | HM | TiAlN | 45 | 55 | 0,1247 | 0.4409 | 12 | | 11,20 | 11,20 |
| 41-10176-433 | R458 (R45811.4) | DIN 6537K | 102 | HM | TiAlN | 45 | 55 | 0,13 | 0.4488 | 12 | | 11,40 | 11,40 |
| 41-10176-434 | R458 (R45811.5) | DIN 6537K | 102 | HM | TiAlN | 45 | 55 | 0,133 | 0.4528 | 12 | | 11,50 | 11,50 |
| 41-10176-435 | R458 (R45829/64) | DIN 6537K | 102 | HM | TiAlN | 45 | 55 | 0,128 | 0.4531 | 12 | 29/64 | 11,51 | 11,51 |
| 41-10176-436 | R458 (R45811.6) | DIN 6537K | 102 | HM | TiAlN | 45 | 55 | 0,132 | 0.4567 | 12 | | 11,60 | 11,60 |
| 41-10176-437 | R458 (R45811.8) | DIN 6537K | 102 | HM | TiAlN | 45 | 55 | 0,134 | 0.4646 | 12 | | 11,80 | 11,80 |
| 41-10176-438 | R458 (R45815/32) | DIN 6537K | 102 | HM | TiAlN | 45 | 55 | 0,131 | 0.4689 | 12 | 15/32 | 11,91 | 11,91 |
| 41-10176-439 | R458 (R45812.0) | DIN 6537K | 102 | HM | TiAlN | 45 | 55 | 0,132 | 0.4724 | 12 | | 12,00 | 12,00 |
| 41-10176-440 | R458 (R45812.1) | DIN 6537K | 107 | HM | TiAlN | 45 | 60 | 0,17 | 0.4764 | 14 | | 12,10 | 12,10 |
| 41-10176-441 | R458 (R45812.2) | DIN 6537K | 107 | HM | TiAlN | 45 | 60 | 0,17 | 0.4803 | 14 | | 12,20 | 12,20 |
| 41-10176-442 | R458 (R45831/64) | DIN 6537K | 107 | HM | TiAlN | 45 | 60 | 0,17 | 0.4843 | 14 | 31/64 | 12,30 | 12,30 |

| Artikelnummer | Artikelnummer fabrikant | norm | L1 | Materiaal | coating | L3 | L2 | Gewicht (gram) | d1 decimal Inch | d2 Øh6 mm | d1 Ø "/Nr. | d1 Øm7 mm | ZV_Diameter |
|---------------|-------------------------|-----------|-----|-----------|---------|----|----|----------------|-----------------|-----------|------------|-----------|-------------|
| 41-10176-443 | R458 (R45812.5) | DIN 6537K | 107 | HM | TiAlN | 45 | 60 | 0,1715 | 0.4921 | 14 | | 12,50 | 12,50 |
| 41-10176-444 | R458 (R45812.7) | DIN 6537K | 107 | HM | TiAlN | 45 | 60 | 0,173 | 0.5000 | 14 | | 12,70 | 12,70 |
| 41-10176-445 | R458 (R4581/2) | DIN 6537K | 107 | HM | TiAlN | 45 | 60 | 0,17 | 0.5000 | 14 | 1/2 | 12,70 | 12,70 |
| 41-10176-446 | R458 (R45812.8) | DIN 6537K | 107 | HM | TiAlN | 45 | 60 | 0,177 | 0.5039 | 14 | | 12,80 | 12,80 |
| 41-10176-447 | R458 (R45813.0) | DIN 6537K | 107 | HM | TiAlN | 45 | 60 | 0,175 | 0.5118 | 14 | | 13,00 | 13,00 |
| 41-10176-448 | R458 (R45833/64) | DIN 6537K | 107 | HM | TiAlN | 45 | 60 | 0,178 | 0.5157 | 14 | 33/64 | 13,10 | 13,10 |
| 41-10176-449 | R458 (R45817/32) | DIN 6537K | 107 | HM | TiAlN | 45 | 60 | 0,18 | 0.5311 | 14 | 17/32 | 13,49 | 13,49 |
| 41-10176-450 | R458 (R45813.5) | DIN 6537K | 107 | HM | TiAlN | 45 | 60 | 0,182 | 0.5315 | 14 | | 13,50 | 13,50 |
| 41-10176-451 | R458 (R45813.8) | DIN 6537K | 107 | HM | TiAlN | 45 | 60 | 0,188 | 0.5433 | 14 | | 13,80 | 13,80 |
| 41-10176-452 | R458 (R45835/64) | DIN 6537K | 107 | HM | TiAlN | 45 | 60 | 0,184 | 0.5469 | 14 | 35/64 | 13,89 | 13,89 |
| 41-10176-453 | R458 (R45814.0) | DIN 6537K | 107 | HM | TiAlN | 45 | 60 | 0,185 | 0.5512 | 14 | | 14,00 | 14,00 |
| 41-10176-454 | R458 (R45814.25) | DIN 6537K | 115 | HM | TiAlN | 48 | 65 | 0,24 | 0.5610 | 16 | | 14,25 | 14,25 |
| 41-10176-455 | R458 (R4589/16) | DIN 6537K | 115 | HM | TiAlN | 48 | 65 | 0,238 | 0.5626 | 16 | 9/16 | 14,29 | 14,29 |
| 41-10176-456 | R458 (R45814.5) | DIN 6537K | 115 | HM | TiAlN | 48 | 65 | 0,245 | 0.5709 | 16 | | 14,50 | 14,50 |
| 41-10176-457 | R458 (R45837/64) | DIN 6537K | 115 | HM | TiAlN | 48 | 65 | 0,244 | 0.5780 | 16 | 37/64 | 14,68 | 14,68 |
| 41-10176-458 | R458 (R45814.8) | DIN 6537K | 115 | HM | TiAlN | 48 | 65 | 0,248 | 0.5827 | 16 | | 14,80 | 14,80 |
| 41-10176-459 | R458 (R45815.0) | DIN 6537K | 115 | HM | TiAlN | 48 | 65 | 0,2449 | 0.5906 | 16 | | 15,00 | 15,00 |
| 41-10176-460 | R458 (R45819/32) | DIN 6537K | 115 | HM | TiAlN | 48 | 65 | 0,246 | 0.5937 | 16 | 19/32 | 15,08 | 15,08 |
| 41-10176-461 | R458 (R45815.1) | DIN 6537K | 115 | HM | TiAlN | 48 | 65 | 0,25 | 0.5945 | 16 | | 15,10 | 15,10 |
| 41-10176-462 | R458 (R45839/64) | DIN 6537K | 115 | HM | TiAlN | 48 | 65 | 0,254 | 0.6094 | 16 | 39/64 | 15,48 | 15,48 |
| 41-10176-463 | R458 (R45815.5) | DIN 6537K | 115 | HM | TiAlN | 48 | 65 | 0,256 | 0.6102 | 16 | | 15,50 | 15,50 |

| Artikelnummer | Artikelnummer fabrikant | norm | L1 | Materiaal | coating | L3 | L2 | Gewicht (gram) | d1 decimal Inch | d2 Øh6 mm | d1 Ø "/Nr. | d1 Øm7 mm | ZV_Diameter |
|---------------|-------------------------|-----------|-----|-----------|---------|----|----|----------------|-----------------|-----------|------------|-----------|-------------|
| 41-10176-464 | R458 (R45815.8) | DIN 6537K | 115 | HM | TiAlN | 48 | 65 | 0,257 | 0.6220 | 16 | | 15,80 | 15,80 |
| 41-10176-465 | R458 (R4585/8) | DIN 6537K | 115 | HM | TiAlN | 48 | 65 | 0,256 | 0.6252 | 16 | 5/8 | 15,88 | 15,88 |
| 41-10176-466 | R458 (R45816.0) | DIN 6537K | 115 | HM | TiAlN | 48 | 65 | 0,2588 | 0.6299 | 16 | | 16,00 | 16,00 |
| 41-10176-467 | R458 (R45841/64) | DIN 6537K | 123 | HM | TiAlN | 48 | 73 | 0,321 | 0.6406 | 18 | 41/64 | 16,27 | 16,27 |
| 41-10176-468 | R458 (R45816.5) | DIN 6537K | 123 | HM | TiAlN | 48 | 73 | 0,32 | 0.6496 | 18 | | 16,50 | 16,50 |
| 41-10176-469 | R458 (R45821/32) | DIN 6537K | 123 | HM | TiAlN | 48 | 73 | 0,329 | 0.6563 | 18 | 21/32 | 16,67 | 16,67 |
| 41-10176-470 | R458 (R45817.0) | DIN 6537K | 123 | HM | TiAlN | 48 | 73 | 0,334 | 0.6693 | 18 | | 17,00 | 17,00 |
| 41-10176-471 | R458 (R45843/64) | DIN 6537K | 123 | HM | TiAlN | 48 | 73 | 0,33 | 0.6720 | 18 | 43/64 | 17,07 | 17,07 |
| 41-10176-472 | R458 (R45811/16) | DIN 6537K | 123 | HM | TiAlN | 48 | 73 | 0,34 | 0.6874 | 18 | 11/16 | 17,46 | 17,46 |
| 41-10176-473 | R458 (R45817.5) | DIN 6537K | 123 | HM | TiAlN | 48 | 73 | 0,344 | 0.6890 | 18 | | 17,50 | 17,50 |
| 41-10176-474 | R458 (R45817.8) | DIN 6537K | 123 | HM | TiAlN | 48 | 73 | 0,4 | 0.7008 | 18 | | 17,80 | 17,80 |
| 41-10176-475 | R458 (R45845/64) | DIN 6537K | 123 | HM | TiAlN | 48 | 73 | 0,35 | 0.7031 | 18 | 45/64 | 17,86 | 17,86 |
| 41-10176-476 | R458 (R45818.0) | DIN 6537K | 123 | HM | TiAlN | 48 | 73 | 0,352 | 0.7087 | 18 | | 18,00 | 18,00 |
| 41-10176-477 | R458 (R45823/32) | DIN 6537K | 131 | HM | TiAlN | 50 | 79 | 0,421 | 0.7189 | 20 | 23/32 | 18,26 | 18,26 |
| 41-10176-478 | R458 (R45818.5) | DIN 6537K | 131 | HM | TiAlN | 50 | 79 | 0,416 | 0.7283 | 20 | | 18,50 | 18,50 |
| 41-10176-479 | R458 (R45847/64) | DIN 6537K | 131 | HM | TiAlN | 50 | 79 | 0,43 | 0.7343 | 20 | 47/64 | 18,65 | 18,65 |
| 41-10176-480 | R458 (R45819.0) | DIN 6537K | 131 | HM | TiAlN | 50 | 79 | 0,4294 | 0.7480 | 20 | | 19,00 | 19,00 |
| 41-10176-481 | R458 (R4583/4) | DIN 6537K | 131 | HM | TiAlN | 50 | 79 | 0,438 | 0.7500 | 20 | | 19,05 | 19,05 |
| 41-10176-482 | R458 (R45819.5) | DIN 6537K | 131 | HM | TiAlN | 50 | 79 | 0,445 | 0.7677 | 20 | | 19,50 | 19,50 |
| 41-10176-483 | R458 (R45819.8) | DIN 6537K | 131 | HM | TiAlN | 50 | 79 | 0,446 | 0.7795 | 20 | | 19,80 | 19,80 |
| 41-10176-484 | R458 (R45820.0) | DIN 6537K | 131 | HM | TiAlN | 50 | 79 | 0,44 | 0.7874 | 20 | | 20,00 | 20,00 |