



## VHM SPIRAALBOOR, MP-X, MET KOELKANALEN 8XD



### Omschrijving

FORCE X extra lange universele VHM spiraalboor met inwendige koelkanalen voor boordieptes tot 8xD. Met een Punthoek van 140° en TiAlN coating. Bijzondere CTW® spiraalgeometrie voor zeer rustig boorproces en sublieme naslijpmogelijkheden. Voorzien van cilindrische Eigenschap titel eenheid sschacht volgens DIN6535HA.

norm: Dormer fabrieksnorm

coating: TiAlN

materiaal: HM

### Varianten (127)

| Artikelnummer | Artikelnummer fabrikant | Materiaal | coating | Diameter (mm) | Lengte totaal (mm) | Spiraallengte (mm) |
|---------------|-------------------------|-----------|---------|---------------|--------------------|--------------------|
| 41-10171-308  | R459 (R4593.0)          | HM        | TiAlN   | 3,00          | 79                 | 37                 |
| 41-10171-309  | R459 (R4593.1)          | HM        | TiAlN   | 3,10          | 79                 | 37                 |
| 41-10171-310  | R459 (R4591/8)          | HM        | TiAlN   | 3,18          | 79                 | 37                 |
| 41-10171-311  | R459 (R4593.2)          | HM        | TiAlN   | 3,20          | 79                 | 37                 |
| 41-10171-312  | R459 (R4593.3)          | HM        | TiAlN   | 3,30          | 79                 | 37                 |
| 41-10171-313  | R459 (R4593.4)          | HM        | TiAlN   | 3,40          | 79                 | 37                 |
| 41-10171-314  | R459 (R4593.5)          | HM        | TiAlN   | 3,50          | 79                 | 37                 |
| 41-10171-315  | R459 (R4599/64)         | HM        | TiAlN   | 3,57          | 79                 | 37                 |
| 41-10171-316  | R459 (R4593.6)          | HM        | TiAlN   | 3,60          | 79                 | 37                 |
| 41-10171-317  | R459 (R4593.7)          | HM        | TiAlN   | 3,70          | 79                 | 37                 |
| 41-10171-318  | R459 (R4593.8)          | HM        | TiAlN   | 3,80          | 90                 | 48                 |
| 41-10171-319  | R459 (R4593.9)          | HM        | TiAlN   | 3,90          | 90                 | 48                 |
| 41-10171-320  | R459 (R4595/32)         | HM        | TiAlN   | 3,97          | 90                 | 48                 |
| 41-10171-321  | R459 (R4594.0)          | HM        | TiAlN   | 4,00          | 90                 | 48                 |
| 41-10171-322  | R459 (R4594.1)          | HM        | TiAlN   | 4,10          | 90                 | 48                 |

| Artikelnummer | Artikelnummer fabrikant | Materiaal | coating | Diameter (mm) | Lengte totaal (mm) | Spiraallengte (mm) |
|---------------|-------------------------|-----------|---------|---------------|--------------------|--------------------|
| 41-10171-323  | R459 (R4594.2)          | HM        | TiAIN   | 4,20          | 90                 | 48                 |
| 41-10171-324  | R459 (R4594.3)          | HM        | TiAIN   | 4,30          | 90                 | 48                 |
| 41-10171-325  | R459 (R45911/64)        | HM        | TiAIN   | 4,37          | 90                 | 48                 |
| 41-10171-326  | R459 (R4594.4)          | HM        | TiAIN   | 4,40          | 90                 | 48                 |
| 41-10171-327  | R459 (R4594.5)          | HM        | TiAIN   | 4,50          | 90                 | 48                 |
| 41-10171-328  | R459 (R4594.6)          | HM        | TiAIN   | 4,60          | 90                 | 48                 |
| 41-10171-329  | R459 (R4594.7)          | HM        | TiAIN   | 4,70          | 104                | 62                 |
| 41-10171-330  | R459 (R4593/16)         | HM        | TiAIN   | 4,76          | 104                | 62                 |
| 41-10171-331  | R459 (R4594.8)          | HM        | TiAIN   | 4,80          | 104                | 62                 |
| 41-10171-332  | R459 (R4594.9)          | HM        | TiAIN   | 4,90          | 104                | 62                 |
| 41-10171-333  | R459 (R4595.0)          | HM        | TiAIN   | 5,00          | 104                | 62                 |
| 41-10171-334  | R459 (R4595.1)          | HM        | TiAIN   | 5,10          | 104                | 62                 |
| 41-10171-335  | R459 (R45913/64)        | HM        | TiAIN   | 5,16          | 104                | 62                 |
| 41-10171-336  | R459 (R4595.2)          | HM        | TiAIN   | 5,20          | 104                | 62                 |
| 41-10171-337  | R459 (R4595.3)          | HM        | TiAIN   | 5,30          | 104                | 62                 |
| 41-10171-338  | R459 (R4595.4)          | HM        | TiAIN   | 5,40          | 104                | 62                 |
| 41-10171-339  | R459 (R4595.5)          | HM        | TiAIN   | 5,50          | 104                | 62                 |
| 41-10171-340  | R459 (R4597/32)         | HM        | TiAIN   | 5,56          | 104                | 62                 |
| 41-10171-341  | R459 (R4595.6)          | HM        | TiAIN   | 5,60          | 104                | 62                 |
| 41-10171-342  | R459 (R4595.7)          | HM        | TiAIN   | 5,70          | 104                | 62                 |
| 41-10171-343  | R459 (R4595.8)          | HM        | TiAIN   | 5,80          | 104                | 62                 |
| 41-10171-344  | R459 (R4595.9)          | HM        | TiAIN   | 5,90          | 104                | 62                 |
| 41-10171-345  | R459 (R45915/64)        | HM        | TiAIN   | 5,95          | 104                | 62                 |
| 41-10171-346  | R459 (R4596.0)          | HM        | TiAIN   | 6,00          | 104                | 62                 |
| 41-10171-347  | R459 (R4596.1)          | HM        | TiAIN   | 6,10          | 126                | 84                 |
| 41-10171-348  | R459 (R4596.2)          | HM        | TiAIN   | 6,20          | 126                | 84                 |
| 41-10171-349  | R459 (R4596.3)          | HM        | TiAIN   | 6,30          | 126                | 84                 |
| 41-10171-350  | R459 (R4591/4)          | HM        | TiAIN   | 6,35          | 126                | 84                 |
| 41-10171-351  | R459 (R4596.4)          | HM        | TiAIN   | 6,40          | 126                | 84                 |
| 41-10171-352  | R459 (R4596.5)          | HM        | TiAIN   | 6,50          | 126                | 84                 |
| 41-10171-353  | R459 (R4596.6)          | HM        | TiAIN   | 6,60          | 126                | 84                 |
| 41-10171-354  | R459 (R4596.7)          | HM        | TiAIN   | 6,70          | 126                | 84                 |

| Artikelnummer | Artikelnummer fabrikant | Materiaal | coating | Diameter (mm) | Lengte totaal (mm) | Spiraallengte (mm) |
|---------------|-------------------------|-----------|---------|---------------|--------------------|--------------------|
| 41-10171-355  | R459 (R45917/64)        | HM        | TiAIN   | 6,75          | 126                | 84                 |
| 41-10171-356  | R459 (R4596.8)          | HM        | TiAIN   | 6,80          | 126                | 84                 |
| 41-10171-357  | R459 (R4596.9)          | HM        | TiAIN   | 6,90          | 126                | 84                 |
| 41-10171-358  | R459 (R4597.0)          | HM        | TiAIN   | 7,00          | 126                | 84                 |
| 41-10171-359  | R459 (R4597.1)          | HM        | TiAIN   | 7,10          | 126                | 84                 |
| 41-10171-360  | R459 (R4599/32)         | HM        | TiAIN   | 7,14          | 126                | 84                 |
| 41-10171-361  | R459 (R4597.2)          | HM        | TiAIN   | 7,20          | 126                | 84                 |
| 41-10171-362  | R459 (R4597.3)          | HM        | TiAIN   | 7,30          | 126                | 84                 |
| 41-10171-363  | R459 (R4597.4)          | HM        | TiAIN   | 7,40          | 126                | 84                 |
| 41-10171-364  | R459 (R4597.5)          | HM        | TiAIN   | 7,50          | 126                | 84                 |
| 41-10171-365  | R459 (R45919/64)        | HM        | TiAIN   | 7,54          | 126                | 84                 |
| 41-10171-366  | R459 (R4597.6)          | HM        | TiAIN   | 7,60          | 126                | 84                 |
| 41-10171-367  | R459 (R4597.7)          | HM        | TiAIN   | 7,70          | 126                | 84                 |
| 41-10171-368  | R459 (R4597.8)          | HM        | TiAIN   | 7,80          | 126                | 84                 |
| 41-10171-369  | R459 (R4597.9)          | HM        | TiAIN   | 7,90          | 126                | 84                 |
| 41-10171-370  | R459 (R4595/16)         | HM        | TiAIN   | 7,94          | 126                | 84                 |
| 41-10171-371  | R459 (R4598.0)          | HM        | TiAIN   | 8,00          | 126                | 84                 |
| 41-10171-372  | R459 (R4598.1)          | HM        | TiAIN   | 8,10          | 152                | 106                |
| 41-10171-373  | R459 (R4598.2)          | HM        | TiAIN   | 8,20          | 152                | 106                |
| 41-10171-374  | R459 (R4598.3)          | HM        | TiAIN   | 8,30          | 152                | 106                |
| 41-10171-375  | R459 (R45921/64)        | HM        | TiAIN   | 8,33          | 152                | 106                |
| 41-10171-376  | R459 (R4598.4)          | HM        | TiAIN   | 8,40          | 152                | 106                |
| 41-10171-377  | R459 (R4598.5)          | HM        | TiAIN   | 8,50          | 152                | 106                |
| 41-10171-378  | R459 (R4598.6)          | HM        | TiAIN   | 8,60          | 152                | 106                |
| 41-10171-379  | R459 (R4598.7)          | HM        | TiAIN   | 8,70          | 152                | 106                |
| 41-10171-380  | R459 (R45911/32)        | HM        | TiAIN   | 8,73          | 152                | 106                |
| 41-10171-381  | R459 (R4598.8)          | HM        | TiAIN   | 8,80          | 152                | 106                |
| 41-10171-382  | R459 (R4598.9)          | HM        | TiAIN   | 8,90          | 152                | 106                |
| 41-10171-383  | R459 (R4599.0)          | HM        | TiAIN   | 9,00          | 152                | 106                |
| 41-10171-384  | R459 (R4599.1)          | HM        | TiAIN   | 9,10          | 152                | 106                |
| 41-10171-385  | R459 (R45923/64)        | HM        | TiAIN   | 9,13          | 152                | 106                |
| 41-10171-386  | R459 (R4599.2)          | HM        | TiAIN   | 9,20          | 152                | 106                |

| Artikelnummer | Artikelnummer fabrikant | Materiaal | coating | Diameter (mm) | Lengte totaal (mm) | Spiraallengte (mm) |
|---------------|-------------------------|-----------|---------|---------------|--------------------|--------------------|
| 41-10171-387  | R459 (R4599.3)          | HM        | TiAIN   | 9,30          | 152                | 106                |
| 41-10171-388  | R459 (R4599.4)          | HM        | TiAIN   | 9,40          | 152                | 106                |
| 41-10171-389  | R459 (R4599.5)          | HM        | TiAIN   | 9,50          | 152                | 106                |
| 41-10171-390  | R459 (R4593/8)          | HM        | TiAIN   | 9,53          | 152                | 106                |
| 41-10171-391  | R459 (R4599.6)          | HM        | TiAIN   | 9,60          | 152                | 106                |
| 41-10171-392  | R459 (R4599.7)          | HM        | TiAIN   | 9,70          | 152                | 106                |
| 41-10171-393  | R459 (R4599.8)          | HM        | TiAIN   | 9,80          | 152                | 106                |
| 41-10171-394  | R459 (R4599.9)          | HM        | TiAIN   | 9,90          | 152                | 106                |
| 41-10171-395  | R459 (R45925/64)        | HM        | TiAIN   | 9,92          | 152                | 106                |
| 41-10171-396  | R459 (R45910.0)         | HM        | TiAIN   | 10,00         | 152                | 106                |
| 41-10171-397  | R459 (R45910.2)         | HM        | TiAIN   | 10,20         | 180                | 128                |
| 41-10171-398  | R459 (R45910.3)         | HM        | TiAIN   | 10,30         | 180                | 128                |
| 41-10171-399  | R459 (R45913/32)        | HM        | TiAIN   | 10,32         | 180                | 128                |
| 41-10171-400  | R459 (R45910.4)         | HM        | TiAIN   | 10,40         | 180                | 128                |
| 41-10171-401  | R459 (R45910.5)         | HM        | TiAIN   | 10,50         | 180                | 128                |
| 41-10171-402  | R459 (R45927/64)        | HM        | TiAIN   | 10,72         | 180                | 128                |
| 41-10171-403  | R459 (R45910.8)         | HM        | TiAIN   | 10,80         | 180                | 128                |
| 41-10171-404  | R459 (R45911.0)         | HM        | TiAIN   | 11,00         | 180                | 128                |
| 41-10171-405  | R459 (R4597/16)         | HM        | TiAIN   | 11,11         | 180                | 128                |
| 41-10171-406  | R459 (R45911.2)         | HM        | TiAIN   | 11,20         | 180                | 128                |
| 41-10171-407  | R459 (R45911.3)         | HM        | TiAIN   | 11,30         | 180                | 128                |
| 41-10171-408  | R459 (R45911.5)         | HM        | TiAIN   | 11,50         | 180                | 128                |
| 41-10171-409  | R459 (R45929/64)        | HM        | TiAIN   | 11,51         | 180                | 128                |
| 41-10171-410  | R459 (R45911.8)         | HM        | TiAIN   | 11,80         | 180                | 128                |
| 41-10171-411  | R459 (R45915/32)        | HM        | TiAIN   | 11,91         | 180                | 128                |
| 41-10171-412  | R459 (R45912.0)         | HM        | TiAIN   | 12,00         | 180                | 128                |
| 41-10171-413  | R459 (R45912.2)         | HM        | TiAIN   | 12,20         | 202                | 151                |
| 41-10171-414  | R459 (R45931/64)        | HM        | TiAIN   | 12,30         | 202                | 151                |
| 41-10171-415  | R459 (R45912.5)         | HM        | TiAIN   | 12,50         | 202                | 151                |
| 41-10171-416  | R459 (R4591/2)          | HM        | TiAIN   | 12,70         | 202                | 151                |
| 41-10171-417  | R459 (R45912.8)         | HM        | TiAIN   | 12,80         | 202                | 151                |
| 41-10171-418  | R459 (R45913.0)         | HM        | TiAIN   | 13,00         | 202                | 151                |

| Artikelnummer | Artikelnummer fabrikant | Materiaal | coating | Diameter (mm) | Lengte totaal (mm) | Spiraallengte (mm) |
|---------------|-------------------------|-----------|---------|---------------|--------------------|--------------------|
| 41-10171-419  | R459 (R45933/64)        | HM        | TiAIN   | 13,10         | 202                | 151                |
| 41-10171-420  | R459 (R45917/32)        | HM        | TiAIN   | 13,49         | 202                | 151                |
| 41-10171-421  | R459 (R45913.5)         | HM        | TiAIN   | 13,50         | 202                | 151                |
| 41-10171-422  | R459 (R45935/64)        | HM        | TiAIN   | 13,89         | 202                | 151                |
| 41-10171-423  | R459 (R45914.0)         | HM        | TiAIN   | 14,00         | 202                | 151                |
| 41-10171-424  | R459 (R45914.25)        | HM        | TiAIN   | 14,25         | 227                | 172                |
| 41-10171-425  | R459 (R4599/16)         | HM        | TiAIN   | 14,29         | 227                | 172                |
| 41-10171-426  | R459 (R45914.5)         | HM        | TiAIN   | 14,50         | 227                | 172                |
| 41-10171-427  | R459 (R45937/64)        | HM        | TiAIN   | 14,68         | 227                | 172                |
| 41-10171-428  | R459 (R45915.0)         | HM        | TiAIN   | 15,00         | 227                | 172                |
| 41-10171-429  | R459 (R45919/32)        | HM        | TiAIN   | 15,08         | 227                | 172                |
| 41-10171-430  | R459 (R45915.1)         | HM        | TiAIN   | 15,10         | 227                | 172                |
| 41-10171-431  | R459 (R45939/64)        | HM        | TiAIN   | 15,48         | 227                | 172                |
| 41-10171-432  | R459 (R45915.5)         | HM        | TiAIN   | 15,50         | 227                | 172                |
| 41-10171-433  | R459 (R4595/8)          | HM        | TiAIN   | 15,88         | 227                | 172                |
| 41-10171-434  | R459 (R45916.0)         | HM        | TiAIN   | 16,00         | 227                | 172                |