



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 |

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|---------------|-------------------------|-----------|---------|---------------|--------------------|--------------------|
| 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 |