



## Свредла за метал HSS-R – 0901



## Свредла за метал HSS-R – валцовани

Валцованите свредла за метал HSS-R са спирални свредла от високопроизводителна бързорежеща стомана, подходящ за пробиване на легирани и нелегирани стомани с якост на опън до 900 N/mm<sup>2</sup>, цветни метали, сив чугун, твърди пластмаси.

Характерни са с минимална опасност от счупване – особено при пробиване на диаметри под 6 mm, спирален канал с оксидирана повърхност за бързо отвеждане на стружки, дяснорежещи свредло тип N, връх на свредлото 118°, допусково поле на диаметъра h 8.

Изработени са чрез валцоване с ролки с шлифувана фаска. Цилиндрична опашка за захващане, с с два режещи ръба, двуспирално. При работа се използва универсалното масло за мазане и охлаждане.

|  4010158 |  |  |  |  |  |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 17790 0                                                                                   | 1                                                                                 | -                                                                                 | 12                                                                                | 34                                                                                | 3                                                                                 |
| 17791 7                                                                                   | 1.5                                                                               | -                                                                                 | 18                                                                                | 40                                                                                | 3                                                                                 |
| 17792 4                                                                                   | 2                                                                                 | -                                                                                 | 24                                                                                | 49                                                                                | 3                                                                                 |
| 17793 1                                                                                   | 2.5                                                                               | M3                                                                                | 30                                                                                | 57                                                                                | 2                                                                                 |
| 17794 8                                                                                   | 3                                                                                 | -                                                                                 | 33                                                                                | 61                                                                                | 2                                                                                 |
| 17795 5                                                                                   | 3.2                                                                               | -                                                                                 | 36                                                                                | 65                                                                                | 2                                                                                 |
| 17796 2                                                                                   | 3.3                                                                               | M4                                                                                | 36                                                                                | 65                                                                                | 2                                                                                 |
| 17797 9                                                                                   | 3.5                                                                               | -                                                                                 | 39                                                                                | 70                                                                                | 2                                                                                 |
| 17798 6                                                                                   | 4                                                                                 | -                                                                                 | 43                                                                                | 75                                                                                | 2                                                                                 |
| 17799 3                                                                                   | 4.2                                                                               | M5                                                                                | 43                                                                                | 75                                                                                | 2                                                                                 |
| 17800 6                                                                                   | 4.5                                                                               | -                                                                                 | 47                                                                                | 80                                                                                | 2                                                                                 |
| 17801 3                                                                                   | 4.8                                                                               | -                                                                                 | 52                                                                                | 86                                                                                | 2                                                                                 |
| 17802 0                                                                                   | 5                                                                                 | M6                                                                                | 52                                                                                | 86                                                                                | 2                                                                                 |
| 17803 7                                                                                   | 5.5                                                                               | -                                                                                 | 57                                                                                | 93                                                                                | 2                                                                                 |
| 17804 4                                                                                   | 6                                                                                 | M7                                                                                | 57                                                                                | 93                                                                                | 2                                                                                 |
| 17805 1                                                                                   | 6.5                                                                               | -                                                                                 | 63                                                                                | 101                                                                               | 1                                                                                 |
| 17806 8                                                                                   | 7                                                                                 | M8                                                                                | 69                                                                                | 109                                                                               | 1                                                                                 |
| 17807 5                                                                                   | 7.5                                                                               | -                                                                                 | 69                                                                                | 109                                                                               | 1                                                                                 |
| 17808 2                                                                                   | 8                                                                                 | -                                                                                 | 75                                                                                | 117                                                                               | 1                                                                                 |
| 17809 9                                                                                   | 8.5                                                                               | M10                                                                               | 75                                                                                | 117                                                                               | 1                                                                                 |
| 17810 6                                                                                   | 9                                                                                 | -                                                                                 | 81                                                                                | 125                                                                               | 1                                                                                 |
| 17811 2                                                                                   | 9.5                                                                               | M11                                                                               | 81                                                                                | 125                                                                               | 1                                                                                 |
| 17812 9                                                                                   | 10                                                                                | -                                                                                 | 87                                                                                | 133                                                                               | 1                                                                                 |
| 17813 6                                                                                   | 10.5                                                                              | -                                                                                 | 87                                                                                | 133                                                                               | 1                                                                                 |
| 17814 3                                                                                   | 11                                                                                | -                                                                                 | 94                                                                                | 142                                                                               | 1                                                                                 |
| 17815 0                                                                                   | 11.5                                                                              | -                                                                                 | 94                                                                                | 142                                                                               | 1                                                                                 |
| 17816 7                                                                                   | 12                                                                                | M14                                                                               | 101                                                                               | 151                                                                               | 1                                                                                 |
| 17817 4                                                                                   | 12.5                                                                              | -                                                                                 | 101                                                                               | 151                                                                               | 1                                                                                 |
| 17818 1                                                                                   | 13                                                                                | -                                                                                 | 101                                                                               | 151                                                                               | 1                                                                                 |

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|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 18450 2                                                                                     | 1                                                                                   | -                                                                                   | 12                                                                                  | 34                                                                                  | 10                                                                                  |
| 18451 9                                                                                     | 1.1                                                                                 | -                                                                                   | 14                                                                                  | 36                                                                                  | 10                                                                                  |
| 18452 6                                                                                     | 1.2                                                                                 | -                                                                                   | 16                                                                                  | 38                                                                                  | 10                                                                                  |
| 18453 3                                                                                     | 1.3                                                                                 | -                                                                                   | 16                                                                                  | 38                                                                                  | 10                                                                                  |
| 18454 0                                                                                     | 1.4                                                                                 | -                                                                                   | 18                                                                                  | 40                                                                                  | 10                                                                                  |
| 18455 7                                                                                     | 1.5                                                                                 | -                                                                                   | 18                                                                                  | 40                                                                                  | 10                                                                                  |
| 18456 4                                                                                     | 1.6                                                                                 | M2                                                                                  | 20                                                                                  | 43                                                                                  | 10                                                                                  |
| 18457 1                                                                                     | 1.7                                                                                 | -                                                                                   | 20                                                                                  | 43                                                                                  | 10                                                                                  |

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|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 18458 8                                                                                   | 1.8                                                                               | -                                                                                 | 22                                                                                  | 46                                                                                  | 10                                                                                  |
| 18459 5                                                                                   | 1.9                                                                               | -                                                                                 | 22                                                                                  | 46                                                                                  | 10                                                                                  |
| 18460 1                                                                                   | 2                                                                                 | -                                                                                 | 24                                                                                  | 49                                                                                  | 10                                                                                  |
| 18461 8                                                                                   | 2.1                                                                               | -                                                                                 | 24                                                                                  | 49                                                                                  | 10                                                                                  |
| 18462 5                                                                                   | 2.2                                                                               | -                                                                                 | 27                                                                                  | 53                                                                                  | 10                                                                                  |
| 18463 2                                                                                   | 2.3                                                                               | -                                                                                 | 27                                                                                  | 53                                                                                  | 10                                                                                  |
| 18464 9                                                                                   | 2.4                                                                               | -                                                                                 | 30                                                                                  | 57                                                                                  | 10                                                                                  |
| 18465 6                                                                                   | 2.5                                                                               | M3                                                                                | 30                                                                                  | 57                                                                                  | 10                                                                                  |
| 18466 3                                                                                   | 2.6                                                                               | -                                                                                 | 30                                                                                  | 57                                                                                  | 10                                                                                  |
| 18467 0                                                                                   | 2.7                                                                               | -                                                                                 | 33                                                                                  | 61                                                                                  | 10                                                                                  |
| 18468 7                                                                                   | 2.8                                                                               | -                                                                                 | 33                                                                                  | 61                                                                                  | 10                                                                                  |
| 18469 4                                                                                   | 2.9                                                                               | -                                                                                 | 33                                                                                  | 61                                                                                  | 10                                                                                  |
| 18470 0                                                                                   | 3                                                                                 | -                                                                                 | 33                                                                                  | 61                                                                                  | 10                                                                                  |
| 18471 7                                                                                   | 3.1                                                                               | -                                                                                 | 36                                                                                  | 65                                                                                  | 10                                                                                  |
| 18472 4                                                                                   | 3.2                                                                               | -                                                                                 | 36                                                                                  | 65                                                                                  | 10                                                                                  |
| 18473 1                                                                                   | 3.3                                                                               | M4                                                                                | 36                                                                                  | 65                                                                                  | 10                                                                                  |
| 18474 8                                                                                   | 3.4                                                                               | -                                                                                 | 39                                                                                  | 70                                                                                  | 10                                                                                  |
| 18475 5                                                                                   | 3.5                                                                               | -                                                                                 | 39                                                                                  | 70                                                                                  | 10                                                                                  |
| 18476 2                                                                                   | 3.6                                                                               | -                                                                                 | 39                                                                                  | 70                                                                                  | 10                                                                                  |
| 18477 9                                                                                   | 3.7                                                                               | -                                                                                 | 39                                                                                  | 70                                                                                  | 10                                                                                  |
| 18478 6                                                                                   | 3.8                                                                               | -                                                                                 | 43                                                                                  | 75                                                                                  | 10                                                                                  |
| 18479 3                                                                                   | 3.9                                                                               | -                                                                                 | 43                                                                                  | 75                                                                                  | 10                                                                                  |
| 18480 9                                                                                   | 4                                                                                 | -                                                                                 | 43                                                                                  | 75                                                                                  | 10                                                                                  |
| 18481 6                                                                                   | 4.1                                                                               | -                                                                                 | 43                                                                                  | 75                                                                                  | 10                                                                                  |
| 18482 3                                                                                   | 4.2                                                                               | M5                                                                                | 43                                                                                  | 75                                                                                  | 10                                                                                  |
| 18483 0                                                                                   | 4.3                                                                               | -                                                                                 | 47                                                                                  | 80                                                                                  | 10                                                                                  |
| 18484 7                                                                                   | 4.4                                                                               | -                                                                                 | 47                                                                                  | 80                                                                                  | 10                                                                                  |
| 18485 4                                                                                   | 4.5                                                                               | -                                                                                 | 47                                                                                  | 80                                                                                  | 10                                                                                  |
| 18486 1                                                                                   | 4.6                                                                               | -                                                                                 | 47                                                                                  | 80                                                                                  | 10                                                                                  |
| 18487 8                                                                                   | 4.7                                                                               | -                                                                                 | 47                                                                                  | 80                                                                                  | 10                                                                                  |
| 18488 5                                                                                   | 4.8                                                                               | -                                                                                 | 52                                                                                  | 86                                                                                  | 10                                                                                  |
| 18489 2                                                                                   | 4.9                                                                               | -                                                                                 | 52                                                                                  | 86                                                                                  | 10                                                                                  |
| 18490 8                                                                                   | 5                                                                                 | M6                                                                                | 52                                                                                  | 86                                                                                  | 10                                                                                  |
| 18491 5                                                                                   | 5.1                                                                               | -                                                                                 | 52                                                                                  | 86                                                                                  | 10                                                                                  |
| 18492 2                                                                                   | 5.2                                                                               | -                                                                                 | 52                                                                                  | 86                                                                                  | 10                                                                                  |
| 18493 9                                                                                   | 5.3                                                                               | -                                                                                 | 52                                                                                  | 86                                                                                  | 10                                                                                  |
| 18494 6                                                                                   | 5.4                                                                               | -                                                                                 | 57                                                                                  | 93                                                                                  | 10                                                                                  |
| 18495 3                                                                                   | 5.5                                                                               | -                                                                                 | 57                                                                                  | 93                                                                                  | 10                                                                                  |
| 18496 0                                                                                   | 5.6                                                                               | -                                                                                 | 57                                                                                  | 93                                                                                  | 10                                                                                  |
| 18497 7                                                                                   | 5.7                                                                               | -                                                                                 | 57                                                                                  | 93                                                                                  | 10                                                                                  |
| 18498 4                                                                                   | 5.8                                                                               | -                                                                                 | 57                                                                                  | 93                                                                                  | 10                                                                                  |
| 18499 1                                                                                   | 5.9                                                                               | -                                                                                 | 57                                                                                  | 93                                                                                  | 10                                                                                  |
| 18500 4                                                                                   | 6                                                                                 | M7                                                                                | 57                                                                                  | 93                                                                                  | 10                                                                                  |
| 18501 1                                                                                   | 6.1                                                                               | -                                                                                 | 63                                                                                  | 101                                                                                 | 10                                                                                  |

| Art.<br>4010159 | Ø    | h   | h <sub>1</sub> | h <sub>2</sub> | h <sub>3</sub> |
|-----------------|------|-----|----------------|----------------|----------------|
| 18502 8         | 6.2  | -   | 63             | 101            | 10             |
| 18503 5         | 6.3  | -   | 63             | 101            | 10             |
| 18504 2         | 6.4  | -   | 63             | 101            | 10             |
| 18505 9         | 6.5  | -   | 63             | 101            | 10             |
| 18506 6         | 6.6  | -   | 63             | 101            | 10             |
| 18507 3         | 6.7  | -   | 63             | 101            | 10             |
| 18508 0         | 6.8  | M8  | 69             | 109            | 10             |
| 18509 7         | 6.9  | -   | 69             | 109            | 10             |
| 18510 3         | 7    | -   | 69             | 101            | 10             |
| 18511 0         | 7.1  | -   | 69             | 109            | 10             |
| 18512 7         | 7.2  | -   | 69             | 109            | 10             |
| 18513 4         | 7.3  | -   | 69             | 109            | 10             |
| 18514 1         | 7.4  | -   | 69             | 109            | 10             |
| 18515 8         | 7.5  | -   | 69             | 109            | 10             |
| 18516 5         | 7.6  | -   | 75             | 117            | 10             |
| 18517 2         | 7.7  | -   | 75             | 117            | 10             |
| 18518 9         | 7.8  | M9  | 75             | 117            | 10             |
| 18519 6         | 7.9  | -   | 75             | 117            | 10             |
| 18520 2         | 8    | -   | 75             | 117            | 10             |
| 18521 9         | 8.1  | -   | 75             | 117            | 10             |
| 18522 6         | 8.2  | -   | 75             | 117            | 10             |
| 18523 3         | 8.3  | -   | 75             | 117            | 10             |
| 18524 0         | 8.4  | -   | 75             | 117            | 10             |
| 18525 7         | 8.5  | M10 | 75             | 117            | 10             |
| 18526 4         | 8.6  | -   | 81             | 125            | 10             |
| 18527 1         | 8.7  | -   | 81             | 125            | 10             |
| 18528 8         | 8.8  | -   | 81             | 125            | 10             |
| 18529 5         | 8.9  | -   | 81             | 125            | 10             |
| 18530 1         | 9    | -   | 81             | 125            | 10             |
| 18531 8         | 9.1  | -   | 81             | 125            | 10             |
| 18532 5         | 9.2  | -   | 81             | 125            | 10             |
| 18533 2         | 9.3  | -   | 81             | 125            | 10             |
| 18534 9         | 9.4  | -   | 81             | 125            | 10             |
| 18535 6         | 9.5  | M11 | 81             | 125            | 10             |
| 18536 3         | 9.6  | -   | 87             | 133            | 10             |
| 18537 0         | 9.7  | -   | 87             | 133            | 10             |
| 18538 7         | 9.8  | -   | 87             | 133            | 10             |
| 18539 4         | 9.9  | -   | 87             | 133            | 10             |
| 18540 0         | 10   | -   | 87             | 133            | 10             |
| 18541 7         | 10.2 | M12 | 87             | 133            | 5              |
| 18542 4         | 10.5 | -   | 87             | 133            | 5              |
| 18544 8         | 11   | -   | 94             | 142            | 5              |
| 18546 2         | 11.5 | -   | 94             | 142            | 5              |
| 18548 6         | 12   | M14 | 101            | 151            | 5              |

| Art.<br>4010159 | Ø    | h   | h <sub>1</sub> | h <sub>2</sub> | h <sub>3</sub> |
|-----------------|------|-----|----------------|----------------|----------------|
| 18550 9         | 12.5 | -   | 101            | 151            | 5              |
| 18552 3         | 13   | -   | 101            | 151            | 5              |
| 18554 7         | 13.5 | -   | 108            | 160            | 5              |
| 18556 1         | 14   | M16 | 108            | 160            | 5              |
| 18558 5         | 14.5 | -   | 114            | 169            | 5              |
| 18560 8         | 15   | -   | 114            | 169            | 5              |
| 18562 2         | 15.5 | M18 | 120            | 178            | 5              |
| 18564 6         | 16   | -   | 120            | 178            | 5              |

| Art.<br>4010159 | Ø                                       | h | h <sub>1</sub> | h <sub>2</sub> | h <sub>3</sub> |
|-----------------|-----------------------------------------|---|----------------|----------------|----------------|
| *1 17732 0      | Ø 2/3/4/5/6/8                           | - | -              | -              | 6              |
| *2 17734 4      | Ø 2/2.5/3/3.5/4/7/5/8                   | - | -              | -              | 13             |
| *3 17737 6      | Ø 1/1.5/2/2.5/3/3.5/4/5/5/10            | - | -              | -              | 19             |
| *4 18371 0      | Ø 1/1.5/2/2.5/3/3.5/4/5/5/10/12/12.5/13 | - | -              | -              | 25             |

