|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Carbide Threading Inserts**  **Standing standard stock**   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Carbide Threading Inserts** | | | | | | | | | **No.** | **Reference Photo** | **Type** | **Grade** | **Material** | **Coating** | **Work-piece Materials** | | 1 |  | 16ER100ISO-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 2 | 16ER125ISO-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 3 | 16ER150ISO-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 4 | 16ER175ISO-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 5 | 16ER200ISO-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 6 | 16ER250ISO-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 7 | 16ER300ISO-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 8 |  | 16IR100ISO-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 9 | 16IR125ISO-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 10 | 16IR150ISO-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 11 | 16IR175ISO-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 12 | 16IR200ISO-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 13 | 16IR250ISO-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 14 | 16IR300ISO-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 15 |  | 16ERA55-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 16 |  | 16ERA60-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 17 |  | 16ERAG55-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 18 | 16ERAG60-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 19 |  | 16ERG55-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 20 | 16ERG60-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 21 |  | 16IRA55-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 22 |  | 16IRA60-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 23 |  | 16IRAG55-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 24 | 16IRAG60-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 25 |  | 16IRG55-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 26 | 16IRG60-TLZ | MS3015 | Carbide | PVD | Steel, S.S | | 27 |  | 16ER100-69 | MS3030 | Carbide | PVD | Steel, S.S | | 28 | 16ER125-69 | MS3030 | Carbide | PVD | Steel, S.S | | 29 | 16ER150-69 | MS3030 | Carbide | PVD | Steel, S.S | | 30 | 16ER175-69 | MS3030 | Carbide | PVD | Steel, S.S | | 31 | 16ER200-69 | MS3030 | Carbide | PVD | Steel, S.S | | 32 | 16ER250-69 | MS3030 | Carbide | PVD | Steel, S.S | | 33 | 16ER300-69 | MS3030 | Carbide | PVD | Steel, S.S | | 34 |  | 16NR100-69 | MS3030 | Carbide | PVD | Steel, S.S | | 35 | 16NR125-69 | MS3030 | Carbide | PVD | Steel, S.S | | 36 | 16NR150-69 | MS3030 | Carbide | PVD | Steel, S.S | | 37 | 16NR175-69 | MS3030 | Carbide | PVD | Steel, S.S | | 38 | 16NR200-69 | MS3030 | Carbide | PVD | Steel, S.S | | 39 | 16NR250-69 | MS3030 | Carbide | PVD | Steel, S.S | | 40 | 16NR300-69 | MS3030 | Carbide | PVD | Steel, S.S | | 41 |  | 16ERAG55-69 | MS3030 | Carbide | PVD | Steel, S.S | | 42 | 16ERAG60-69 | MS3030 | Carbide | PVD | Steel, S.S | | 43 |  | 16NRAG55-69 | MS3030 | Carbide | PVD | Steel, S.S | | 44 | 16NRAG60-69 | MS3030 | Carbide | PVD | Steel, S.S | | 45 |  | 16ER11W-69 | MS3030 | Carbide | PVD | Steel, S.S | | 46 | 16ER14W-69 | MS3030 | Carbide | PVD | Steel, S.S | | 47 |  | 16NR11W-69 | MS3030 | Carbide | PVD | Steel, S.S | | 48 | 16NR14W-69 | MS3030 | Carbide | PVD | Steel, S.S |   **Grade: MS3015**  **PVD (TiAlSiN), The versatile substrate combined with the nano -composite multi-layer silicon-containing coating, high hardness, high oxidation resistance, and low friction coefficient, making the cutting smoother. It is suitable for finishing to semi-finishing of various steels and stainless steel.**  **Grade: MS3030**  **PVD (AlTiN), High Co content and fine WC grain substrate, combine with PVD AlTiN coating, which has outstanding wear resistance. Suitable for steel and stainless steel drilling.**  **-TLZ groove type**  **Grade: MS3015**  **A PVD material with good stability can reflect the optimal impact resistance and wear resistance when processing steel parts and stainless steel.**   |  |  |  |  | | --- | --- | --- | --- | | **Recommended Cutting Parameters** | | | | | **Insert Type** | **Ap** | **NAP** | **Vc** | | **16IR-TLZ** | **0.58-1.73** | **5-12** | **100-150** | | **16ER-TLZ** | **0.61-1.84** | **5-12** | **100-150** |   **-69 groove type**  **Grade : MS3030**  **A PVD (Al TiSiN) composite coating which is suitable for processing stainless steel,**  **Un-alloyed steel, hardened steel, cast iron and other materials.**   |  |  |  |  | | --- | --- | --- | --- | | **Recommended Cutting Parameters** | | | | | **Insert Type** | **Ap** | **NAP** | **Vc** | | **16IR-69** | **0.29-1.73** | **4-12** | **120-170** | | **16ER-69** | **0.31-1.84** | **4-12** | **120-170** | |