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| **TKF cut-off insert for small diameters** |

**TKF16R (12R) diagonal inserts features:**

**16 degree bevel angle, large U-shaped chip discharge groove,**

**Inserts wear-resistant highlights, without burrs, smooth cutting surface.**

**TKF16R (12R) flat inserts features:**

**Large U-shaped chip chute**

**Fine grinding groove blade, wear-resistant, smooth grooving surface.**

**Full-grinded Carbide Grooving Inserts**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Reference Photo** | **Type** | **Grade** | **Material** | **Coating** | **Work-piece Materials** |
| 1 |  | TKF12R100-S | MS3015 | Carbide | PVD | Steel, S.S |
| 2 | TKF12R150-S | MS3015 | Carbide | PVD | Steel, S.S |
| 3 | TKF12R200-S | MS3015 | Carbide | PVD | Steel, S.S |
| 4 | TKF12R100-S-16DR | MS3015 | Carbide | PVD | Steel, S.S |
| 5 | TKF12R150-S-16DR | MS3015 | Carbide | PVD | Steel, S.S |
| 6 | TKF12R200-S-16DR | MS3015 | Carbide | PVD | Steel, S.S |
| 7 | TKF16R150-S | MS3015 | Carbide | PVD | Steel, S.S |
| 8 | TKF16R200-S | MS3015 | Carbide | PVD | Steel, S.S |
| 9 | TKF16R150-S-16DR | MS3015 | Carbide | PVD | Steel, S.S |
| 10 | TKF16R200-S-16DR | MS3015 | Carbide | PVD | Steel, S.S |

**Coating: PVD (TiAlSiN)**

**Grade MS3015 is a 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.**