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| **Carbide GBA & TGF Shallow Groove Inserts** |

**Standard stock:**

**Full-grinded Carbide Grooving Inserts**

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| **No.** | **Reference Photo** | **Type** | **Grade** | **Material** | **Coating** | **Work-piece Materials** |
| 1 |  | GBA43L150-020 | MS3015 | Carbide | PVD | Steel, S.S |
| 2 | GBA43L200-020 | MS3015 | Carbide | PVD | Steel, S.S |
| 3 | GBA43L230-020 | MS3015 | Carbide | PVD | Steel, S.S |
| 4 | GBA43L240-020 | MS3015 | Carbide | PVD | Steel, S.S |
| 5 | GBA43L250-020 | MS3015 | Carbide | PVD | Steel, S.S |
| 6 | GBA43L300-030 | MS3015 | Carbide | PVD | Steel, S.S |
| 7 | GBA43L320-030 | MS3015 | Carbide | PVD | Steel, S.S |
| 8 | GBA43L330-030 | MS3015 | Carbide | PVD | Steel, S.S |
| 9 | GBA43L350-030 | MS3015 | Carbide | PVD | Steel, S.S |
| 10 | GBA43L400-030 | MS3015 | Carbide | PVD | Steel, S.S |
| 11 | GBA43L420-030 | MS3015 | Carbide | PVD | Steel, S.S |
| 12 | GBA43L450-030 | MS3015 | Carbide | PVD | Steel, S.S |
| 13 | GBA43R100-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 14 | GBA43R120-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 15 | GBA43R125-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 16 | GBA43R150-020 | MS3015 | Carbide | PVD | Steel, S.S |
| 17 | GBA43R160-020 | MS3015 | Carbide | PVD | Steel, S.S |
| 18 | GBA43R170-020 | MS3015 | Carbide | PVD | Steel, S.S |
| 19 | GBA43R180-020 | MS3015 | Carbide | PVD | Steel, S.S |
| 20 | GBA43R200-020 | MS3015 | Carbide | PVD | Steel, S.S |
| 21 | GBA43R220-020 | MS3015 | Carbide | PVD | Steel, S.S |
| 22 | GBA43R230-020 | MS3015 | Carbide | PVD | Steel, S.S |
| 23 | GBA43R250-020 | MS3015 | Carbide | PVD | Steel, S.S |
| 24 | GBA43R280-020 | MS3015 | Carbide | PVD | Steel, S.S |
| 25 | GBA43R300-030 | MS3015 | Carbide | PVD | Steel, S.S |
| 26 | GBA43R340-030 | MS3015 | Carbide | PVD | Steel, S.S |
| 27 | GBA43R350-030 | MS3015 | Carbide | PVD | Steel, S.S |
| 28 | GBA43R360-030 | MS3015 | Carbide | PVD | Steel, S.S |
| 29 | GBA43R400-030 | MS3015 | Carbide | PVD | Steel, S.S |
| 30 | GBA43R450-030 | MS3015 | Carbide | PVD | Steel, S.S |
| 31 | GBA43R470-030 | MS3015 | Carbide | PVD | Steel, S.S |
| 32 |  | TGF32R050-005 | MS3015 | Carbide | PVD | Steel, S.S |
| 33 | TGF32R075-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 34 | TGF32R100-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 35 | TGF32R110-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 36 | TGF32R120-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 37 | TGF32R125-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 38 | TGF32R130-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 39 | TGF32R140-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 40 | TGF32R150-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 41 | TGF32R160-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 42 | TGF32R170-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 43 | TGF32R180-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 44 | TGF32R190-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 45 | TGF32R200-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 46 | TGF32R210-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 47 | TGF32R220-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 48 | TGF32R230-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 49 | TGF32R240-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 50 | TGF32R250-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 51 | TGF32R260-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 52 | TGF32R270-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 53 | TGF32R280-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 54 | TGF32R290-010 | MS3015 | Carbide | PVD | Steel, S.S |
| 55 | TGF32R300-010 | MS3015 | Carbide | PVD | Steel, S.S |

**Grade: MS3015**

**PVD (TiN+TiCN) is suitable for high-precision processing of stainless steel and low carbon steel, with excellent sharpness and solubility.**