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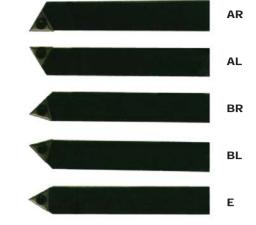
5pcs Indexable Tool Bits Set

- · Hardened and ground steel shanks for maximum rigidity.
- · Sets including inserts and wrenches in a fitted wooden case.
- \cdot Individual tools are supplied without wrenches or inserts.

Features:

- · Includes each of following styles:AR,AL,BR,,BL,E.
- · AR,AL are straight turning tools,BR,BL are 15" lead angle tools, E is for threading.
- · Use TNMA and TNMG inserts.

| Model No. | Size(in) |
|-----------|-----------------------------------|
| BTS-3/8 | 3/8 Square × 2-1/2 Overall Length |
| BTS-1/2 | 1/2 Square × 3-1/2 Overall Length |
| BTS-5/8 | 5/8 Square × 4 Overall Length |
| BTS-3/4 | 3/4 Square × 4-1/2 Overall Length |



Carbide Tipped Boring Tools

Features:

- · All shanks are ground to ± 0/-.0005"
- Tool life is extended because each bar has far more steel behind the cutting edge for heavier chatter free cut, deeper bore and more precise work
- The same bar can bore flat-bottom hole or face
- Grind bar on cutting end for special tools such as grooving, threading or automatic operations
- · material:C6

96



| Model No. | Shank Dia. | Length | Bore Depth | Min. Bore | Mfg. No. | |
|---|--|--|--|--|--|-----------------------------------|
| BB1-34/318 BB1-34/31116 BB1-34/3112 BB1-34/312 BB1-34/5 BB1-34/5 BB1-34/41316 BB1-34/534 BB1-34/534 BB1-34/538 BB1-34/612 | 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" | 3-1/8" 3-11/16" 4-1/4" 3-1/2" 4-1/4" 5" 3-7/8" 4-13/16" 5-3/4" 4-1/4" 5-3/8" 6-1/2" | 1-1/8" 1-11/16" 2-1/4" 1-1/2" 2-1/4" 3" 1-7/8" 2-13/16" 3-3/4" 2-1/4" 3-3/8" 4-1/2" | 7/16" 7/16" 7/16" 9/16" 9/16" 9/16" 11/16" 11/16" 11/16" 13/16" 13/16" | D7S D7M D7L D9S D9M D9L D11S D11M D11L D13S D13M D13L | 12 PC. SET Model BBS-3/4 |
| BB1-1/5 BB1-1/534 BB1-1/612 BB1-1/612 BB1-1/734 BB1-1/814 BB1-1/912 | 1" 1" 1" 1" 1" 1" | 5" 5-3/4" 6-1/2" 6-1/2" 7-3/4" 8-1/4" 9-1/2" | 3" 3-3/4" 4-1/2" 4-1/2" 5-3/4" 6-1/4" 7-1/2" | 9/16" 11/16" 7/8" 1-1/16" 1-1/4" 1-1/2" 1-5/8" | E9L E11L E14L E18L E20L E24L E26L | 7 PC. SET Model BBS-1 |

| Model No. | Shank Dia. | Length | Bore Depth | Min. Bore | Mfg. No. | | |
|--|--|--|--|---|---|-----------------------------------|--|
| BB1-38/2 BB1-38/238 BB1-38/234 BB1-38/2316 BB1-38/22132 BB1-38/318 BB1-38/238 BB1-38/31516 BB1-38/312 | 3/8" 3/8" 3/8" 3/8" 3/8" 3/8" 3/8" 3/8" | 2" 2-3/8" 2-3/4" 2-3/16" 2-21/32" 3-1/8" 2-3/8" 2-15/16" 3-1/2" | 3/4" 1-1/8" 1-1/2" 15/16" 1-13/32" 1-7/8" 1-1/8" 1-7/8" 2-1/4" | 5/16" 5/16" 5/16" 3/8" 3/8" 3/8" 7/16" 7/16" 7/16" | A5S A5M A5L A3S A3M A3L A7S A7M A7L | 9 PC. SET Model BBS-3/8 | |
| BB1-12/214 BB1-12/258 BB1-12/3 BB1-12/3316 BB1-12/3316 BB1-12/334 BB1-12/334 BB1-12/412 | 1/2" 1/2" 1/2" 1/2" 1/2" 1/2" 1/2" 1/2" | 2-1/4" 2-5/8" 3" 2-5/8" 3-3/16" 3-3/4" 3" 3-3/4" 4-1/2" | 3/4" 1-1/8" 1-1/2" 1-1/8" 1-11/16" 2-1/4" 1-1/2" 2-1/4" 3" | 5/16" 5/16" 5/16" 7/16" 7/16" 7/16" 9/16" 9/16" 9/16" | B5S B5M B5L B7S B7M B7L B9S B9M B9L | 9 PC. SET Model BBS-1/2 | |
| BB1-58/214 BB1-58/258 BB1-58/3 BB1-58/3316 BB1-58/3316 BB1-58/334 BB1-58/334 BB1-58/334 BB1-58/412 BB1-58/514 | 5/8" 5/8" 5/8" 5/8" 5/8" 5/8" 5/8" 5/8" | 2-1/4" 2-5/8" 3" 2-5/8" 3-3/16" 3-3/4" 3" 3-3/4" 4-1/2" 3-3/8" 4-5/16" 5-1/4" | 3/4" 1-1/8" 1-1/2" 1-1/8" 1-11/16" 2-1/4" 1-1/2" 2-1/4" 3" 1-7/8" 2-13/16" 3-3/4" | 5/16" 5/16" 5/16" 7/16" 7/16" 7/16" 9/16" 9/16" 9/16" 11/16" 11/16" | C5S C5M C5L C7S C7M C7L C9S C9M C9L C11S C11M C11L | 12 PC. SET Model BBS-5/8 | |

T-type Cut-off Blades



| Paralle | Туре | | | | Tapered | d Туре | 9 | | |
|-----------|----------|-------|--------|--------|-----------|----------|-------|--------|--------|
| Model No. | Tool No. | W | Н | L | Model No. | Tool No. | W | Н | L |
| COB-P1N | P1N | 0.04" | 1/2" | 3-1/2" | COB-T1-N | T1-N | .040" | 1/2" | 3-1/2" |
| COB-P1 | P1 | 1/16" | 1/2" | 4-1/2" | COB-T-1 | T-1 | 1/16" | 1/2" | 4-1/4" |
| COB-P2N | P2N | 5/64" | 1/2" | 4-1/2" | COB-T-2-N | T-2-N | 5/64" | 1/2" | 4-1/4" |
| COB-P2 | P2 | 3/32" | 1/2" | 4-1/2" | COB-T-2 | T-2 | 3/32" | 1/2" | 4-1/4" |
| COB-P3S | P3S | 1/8" | 1/2" | 4-1/2" | COB-T3-S | T3-S | 1/8" | 1/2" | 4-1/4" |
| COB-P3N | P3N | 3/32" | 11/16" | 5" | COB-T3-N | T3-N | 3/32" | 11/16" | 4-1/4" |
| COB-P3 | P3 | 1/8" | 11/16" | 5" | COB-T3 | T3 | 1/8" | 11/16" | 4-1/4" |
| COB-P4 | P4 | 5/32" | 11/16" | 5" | COB-T4 | T4 | 5/32" | 11/16" | 4-1/4" |
| COB-PP5S | PP5S | 3/16" | 11/16" | 5" | COB-T5-S | T5-S | 3/16" | 11/16" | 5" |
| COB-P3W | P3W | 1/8" | 3/4" | 5" | COB-T3-W | T3-W | 1/8" | 3/4" | 5" |
| COB-P4W | P4W | 5/32" | 3/4" | 5" | COB-T4-W | T4-W | 5/32" | 3/4" | 5" |
| COB-P5W | P5W | 3/16" | 3/4" | 5" | COB-T5-W | T5-W | 3/16" | 3/4" | 5" |
| COB-P5 | P5 | 1/8" | 7/8" | 6" | COB-T5-X | T5-X | 1/8" | 7/8" | 5" |
| COB-P5N | P5N | 5/32" | 7/8" | 6" | COB-T5-N | T5-N | 5/32" | 7/8" | 5" |
| COB-P5 | P5 | 3/16" | 7/8" | 6" | COB-T-5 | T-5 | 3/16" | 7/8" | 5" |
| COB-P6 | P6 | 1/4" | 7/8" | 6" | COB-T-6 | T-6 | 1/4" | 7/8" | 5" |
| COB-P8 | P8 | 1/8" | 1-1/8" | 6-1/2" | COB-T8-X | T8-X | 1/8" | 1-1/8" | 5-1/2" |
| COB-P8 | P8 | 5/32" | 1-1/8" | 6-1/2" | COB-T8-N | T8-N | 5/32" | 1-1/8" | 5-1/2" |
| COB-P8 | P8 | 3/16" | 1-1/8" | 6-1/2" | COB-T8 | T8 | 3/16" | 1-1/8" | 5-1/2" |
| COB-P9 | P9 | 1/4" | 1-1/8" | 6-1/2" | COB-T9 | T9 | 1/4" | 1-1/8" | 5-1/2" |
| COB-P10 | P10 | 5/16" | 1-1/8" | 6-1/2" | COB-T10 | T10 | 5/16" | 1-1/8" | 5-1/2" |

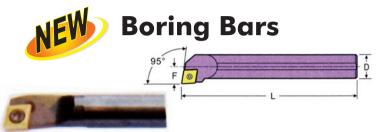
4pcs/set Indexable Boring Bars

Extreme fine gloss finish.
Utlizes 80° diamond CCMT inserts
Negative 5° end and side cutting angle
All boring bars supplied in fine wooden case
All boring bars supplied in white carbide inserts
With carbide inserts:

CCMT2151 2152 for 3/8"and 1/2"boring bars CCMT3251 3252 for 5/8"and 3/4"boring bars



Model No.: IBBS-4



Right Handed Boring Bar Shown In Picture (Left Hand Is available)

| Model No. | Shank (D) | Dimension (F) | Length (L) | Inserts Used Boring Bar |
|-------------|--------------|------------------|---------------|-------------------------|
| | | | | CCMT2151 |
| S-SCLCR4-2 | 5/16" | 0.1875" | 4" | CCMT2152 |
| | | | | CCMT2151 |
| S-SCLCR6-2 | 3/8" | 0.2500" | 6" | CCMT2152 |
| | | | | CCMT2151 |
| S-SCLCR8-2 | 1/2" | 0.2900" | 7" | CCMT2152 |
| | | | | CCMT3251 |
| S-SCLCR8-3 | 1/2" | 0.3120" | 7" | CCMT3252 |
| | | | | CCMT3251 |
| S-SCLCR10-3 | 5/8" | 0.4060" | 8" | CCMT3252 |
| | | | | CCMT3251 |
| S-SCLCR12-3 | 3/4" | 0.5000" | 10" | CCMT3252 |
| | | | | CCMT3251 |
| S-SCLCR16-3 | 1" | 0.6094" | 12" | CCMT3252 |
| S-MCLNR16-4 | 1" | 0.6400" | 12" | CNMG-432 |
| S-MCLNR20-4 | 1-1/4" | 0.7650" | 14" | CNMG-432 |
| S-MCLNR24-4 | 1-1/2" | 0.8900" | 14" | CNMG-432 |
| S-MCLNR28-4 | 1-3/4" | 1.015" | 14" | CNMG-432 |
| S-MCLNR32-6 | 2" | 1.281" | 16" | CNMG-643 |

Indexable End Mills & Sets

Features:

- · Positive rake 90° right hand cut.
- · Uses standard triangular inserts.
- · Cutting rake angle 0°
- · Adaptable for N.C. Machining.
- Setting angle 90°



| Model No. | Shank | Cutting Dia | #of Inserts | Insert Used |
|------------|-------|--------------------|-------------|----------------|
| EMI3/4-1 | 3/4" | 1" | 2 | TPG-TPU-22 |
| EMI3/4-114 | | 1-1/4" | 2 | TPG-TPU-TPC-32 |
| EMI3/4-112 | | 1-1/2" | 3 | TPG-TPU-TPC-32 |
| EMI3/4-134 | | 1-3/4" | 3 | TPG-TPU-TPC-32 |
| EMI3/4-2 | | 2" | 3 | TPG-TPU-TPC-32 |
| EMI1-114 | 1" | 1-1/4" | 2 | TPG-TPU-22 |
| EMI1-112 | | 1-1/2" | 3 | TPG-TPU-TPC-32 |
| EMI1-134 | | 1-3/4" | 3 | TPG-TPU-TPC-32 |
| EMI1-2 | | 2" | 3 | TPG-TPU-TPC-32 |
| EMIR8-1 | R8 | 1" | 2 | TPG-TPU-TPC-32 |
| EMIR8-114 | | 1-1/4" | 2 | TPG-TPU-TPC-32 |
| EMIR8-138 | | 1-3/8" | 2 | TPG-TPU-TPC-32 |
| EMIR8-112 | | 1-1/2" | 3 | TPG-TPU-TPC-32 |
| EMIR8-158 | | 1-5/8" | 3 | TPG-TPU-TPC-32 |
| EMIR8-134 | | 1-3/4" | 3 | TPG-TPU-TPC-32 |
| EMIR8-2 | | 2" | 3 | TPG-TPU-TPC-32 |
| EMIR8-3 | | 3" | 5 | TPG-TPU-TPC-32 |

Indexable End Mills & Sets

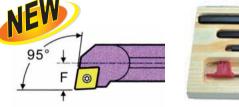
Features:

- · 3 indexable end mills.
- · Two hex wrenches.
- · Attractive hardwood block.
- Packed in specially desingned box for protection in transit.



| Model No. | Lead | Shank | Includes |
|-----------|------|-------|----------------|
| EMI3/4-3S | | 3/4" | 1-1/4,1-1/2,2" |
| EMI1-3S | | 1" | 1-1/4,1-1/2,2" |
| EMIR8-3SA | 90° | R8 | 1-1/4,1-1/2,2" |
| EMIR8-3SB | | R8 | 2,2-1/2,3" |
| EMIR8-3SC | | R8 | 2-3/4,3.3-1/2" |
| | | | |

Coolant Thru Boring Bar Set



| Individ | ual Boring B | ars | | | BBCS- | 3 |
|-----------|---------------------|-------|------------------|------------|-------------|--------------|
| Model No. | ANSI Designation | Dia. | Dimension (F) | Length | Bore Dia. | Insert |
| BBC-5/8 | A10M SCLCR 2 | 5/8" | 0.43" | 6.00" | 0.80" | CCMT 21.5 |
| BBC-1/2 | A08K SCLCR 2 | 1/2" | 0.35" | 5.00" | 0.63" | CCMT 21.5 |
| BBC-3/8 | A06J SCLCR 2 | 3/8" | 0.28" | 4.50" | 0.51" | CCMT 21.5 |
| BBCS-3 | 3PCS | Set E | ach Set Inc | ludes: 3 E | Boring Bars | & 10 Inserts |
| BBC-5/8 | A10M SCLCR 2 | 5/8" | 0.43" | 6.00" | 0.80" | CCMT 21.5 |
| BBC-1/2 | A08K SCLCR 2 | 1/2" | 0.35" | 5.00" | 0.63" | CCMT 21.5 |
| BBC-3/8 | A06J SCLCR 2 | 3/8" | 0.28" | 4.50" | 0.51" | CCMT 21.5 |
| BBC-5/16 | A05H SCLCR 2 | 5/16" | 0.24" | 4.00" | 0.39" | CCMT 21.5 |
| BBCS-3 | 4PCS Se | et Ea | ach Set Incl | udes: 4 B | oring Bars | & 10 Inserts |



Features:

- · 6Pcs Turning.
- · 1Pc Boring bar.
- 1Pc Wrench Key.Inserts: Tin Coated.



Model No.: 6+1 7 Piece Sets

| BTMS-3/8 BTMS-10 3/8" 10mm SCMCN,SCDCN S10K-SCLCR06 (S06M-SCLCR IT 21.5 BTMS-1/2 BTMS-12 1/2" 12mm SCLCR,SCKCR S12M-SCLCR06 (S08Q-SCLCR BTMS-5/8 BTMS-16 5/8" 16mm SCBCR,SCLCR S16R-SCLCR09 (S10R-SCLCR | | | | | | | | |
|---|--------------------|----------------------------------|-------------------------------|----------------------|----------------------|----------------|---------------------|--|
| T 21.5 | Inserts | Model No. | | Style | | Includes | | |
| IT 21.5 | | Inch | Metric | in | mm | 6Piece Turning | 1Piece Boring(Inch) | |
| liserts Divid-0/4 Divid-19 3/4 19/1/11 | IT 21.5 IT 21.5 | BTMS-3/8 BTMS-1/2 BTMS-5/8 | BTMS-10 BTMS-12 BTMS-16 | 3/8" 1/2" 5/8" | 10mm 12mm 16mm | SCLCR,SCKCR | | |

CHANGO



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