

2023 BIT SELECTION HANDBOOK



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ROCKMORE INTERNATIONAL



USA

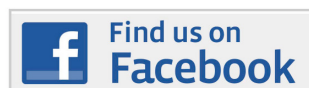
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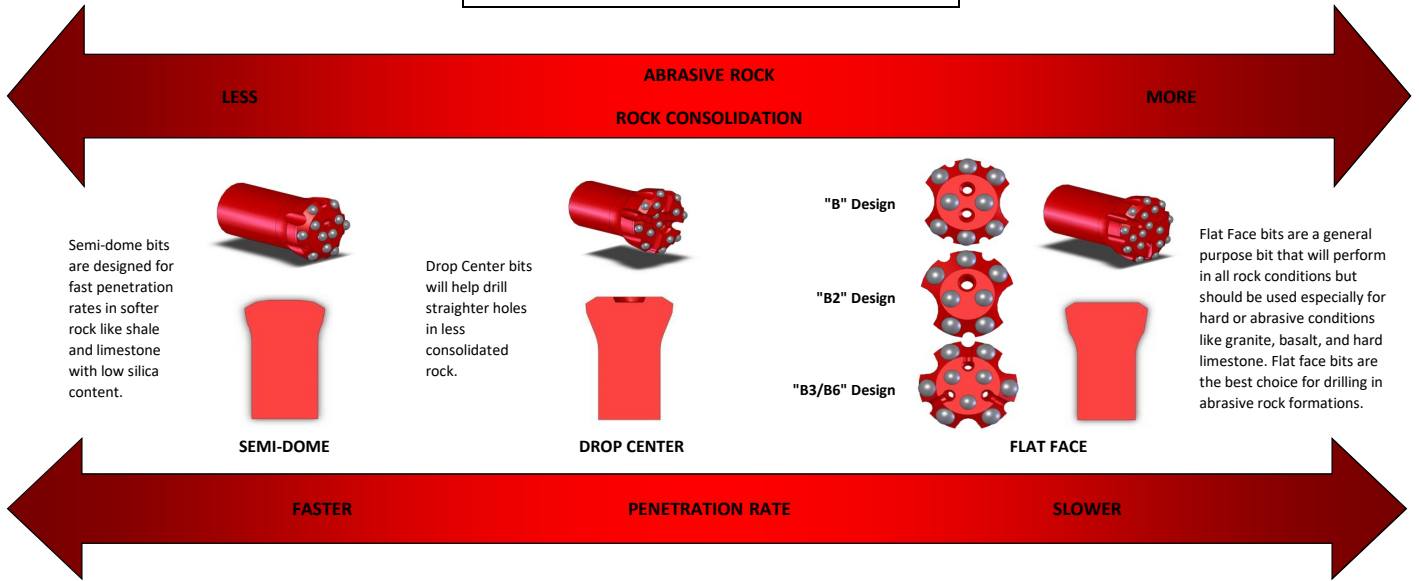
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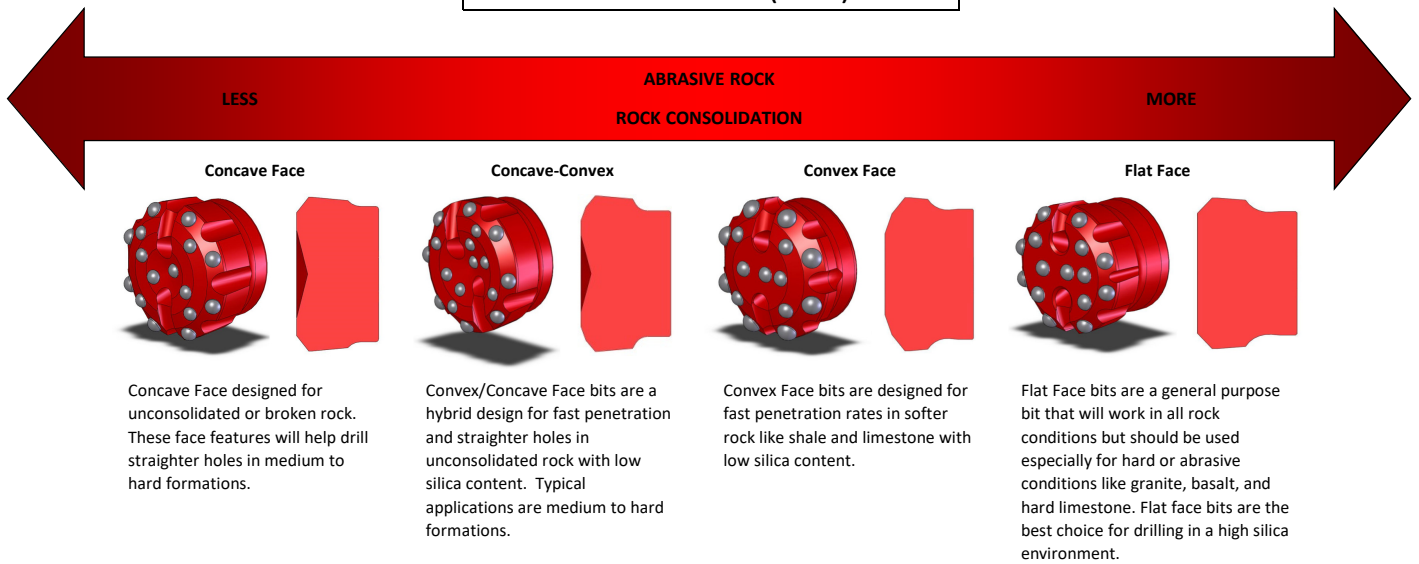


BIT FACE SELECTION

TOP-HAMMER BUTTON BITS



DOWN-THE-HOLE (DTH) BITS



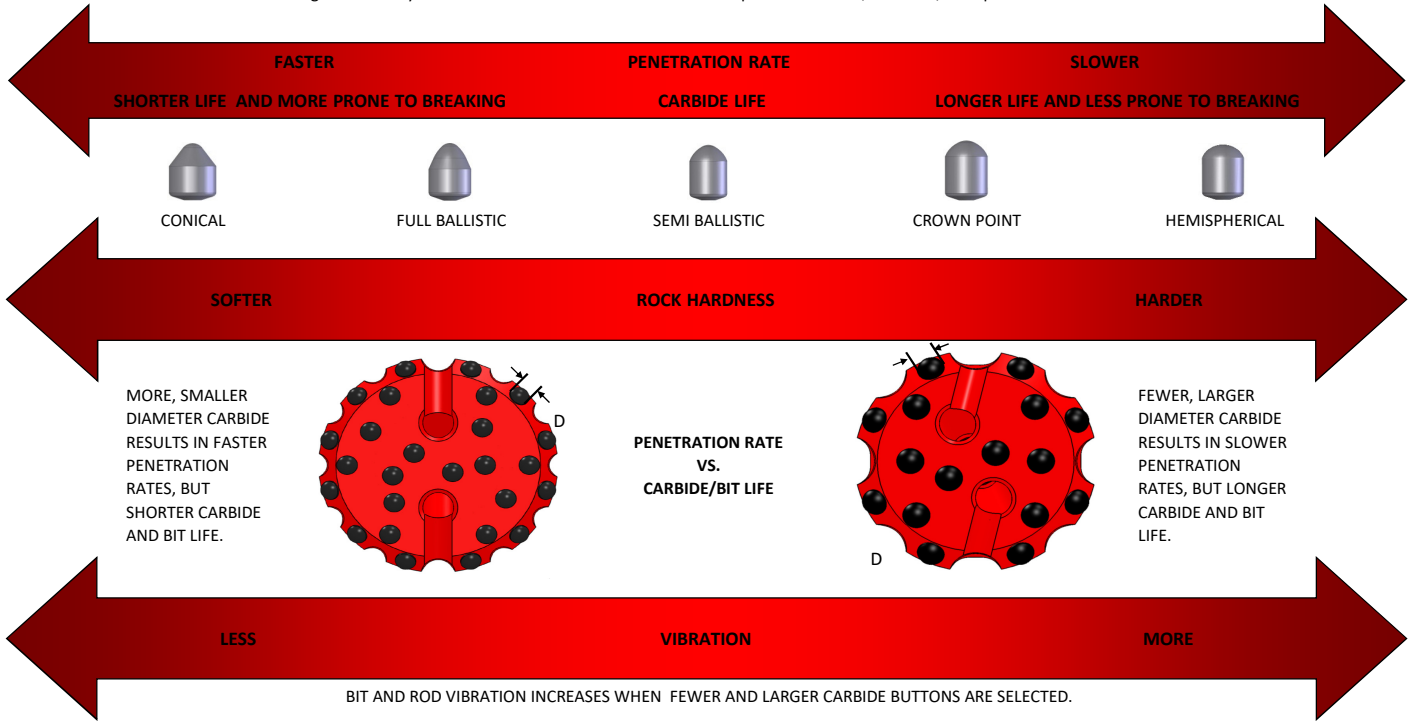
CARBIDE SELECTION

Carbide Designs

Perhaps the most fundamental decision when selecting different carbide configurations is profile shape. Button bits most commonly have either a hemispherical or semi-ballistic carbide design; however it is not uncommon to use other carbide designs as well. Below are selections of the different carbide designs offered by Rockmore International.

Carbide Configurations

Most face designs for button bits are offered in multiple carbide configurations and typically differ in diameter, shape (i.e. profile) and quantity. There are some general guidelines to follow while selecting between multiple carbide configurations including resistance to wear, penetration rate, vibration, and specific rock conditions.

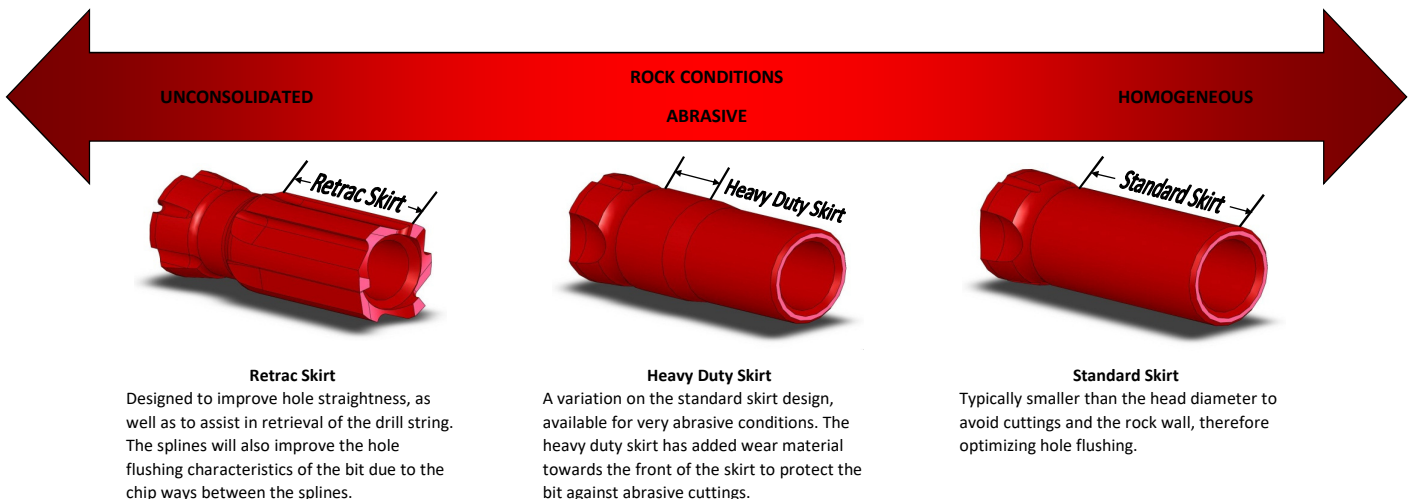


MULTIPOINT

MultiPoint -- the next generation carbide insert. Rockmore's exclusive new carbide insert design provides multiple strike points for more efficient rock fracture and longer insert life. Along with longer insert life, MultiPoint carbides also provide smoother bit rotation and advancement.



SKIRT SELECTION



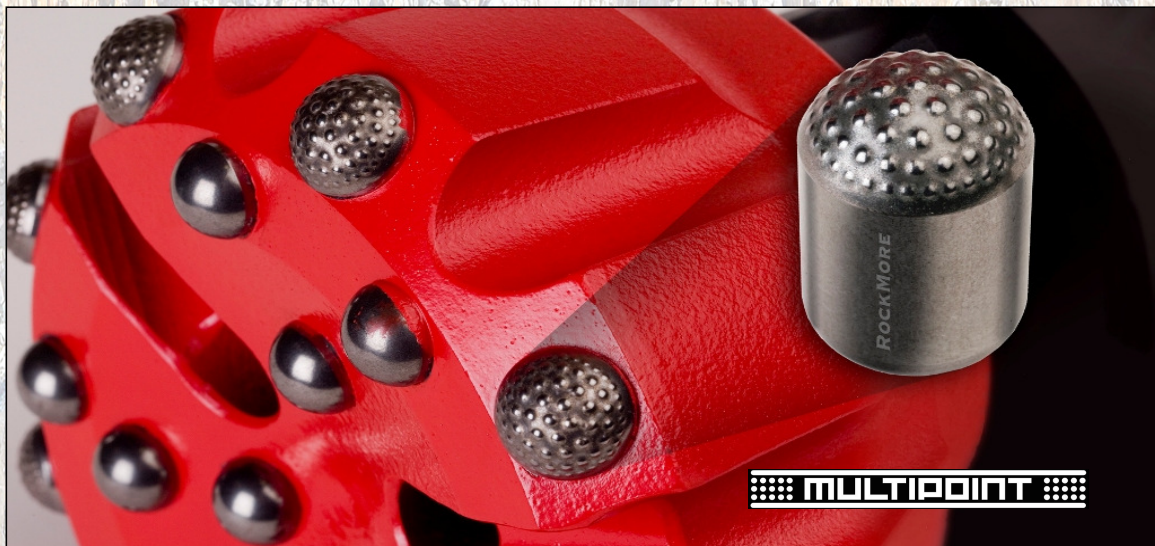


ROCKMORE
INTERNATIONAL
Rock Drilling Tools



The Next Generation Carbide Insert

MULTIPOINT



- Unique multiple contact carbide points
- Exclusive ROCKMORE design
- Smoother bit rotation & advancement
- More efficient rock fracture
- Longer insert life
- Faster penetration rates



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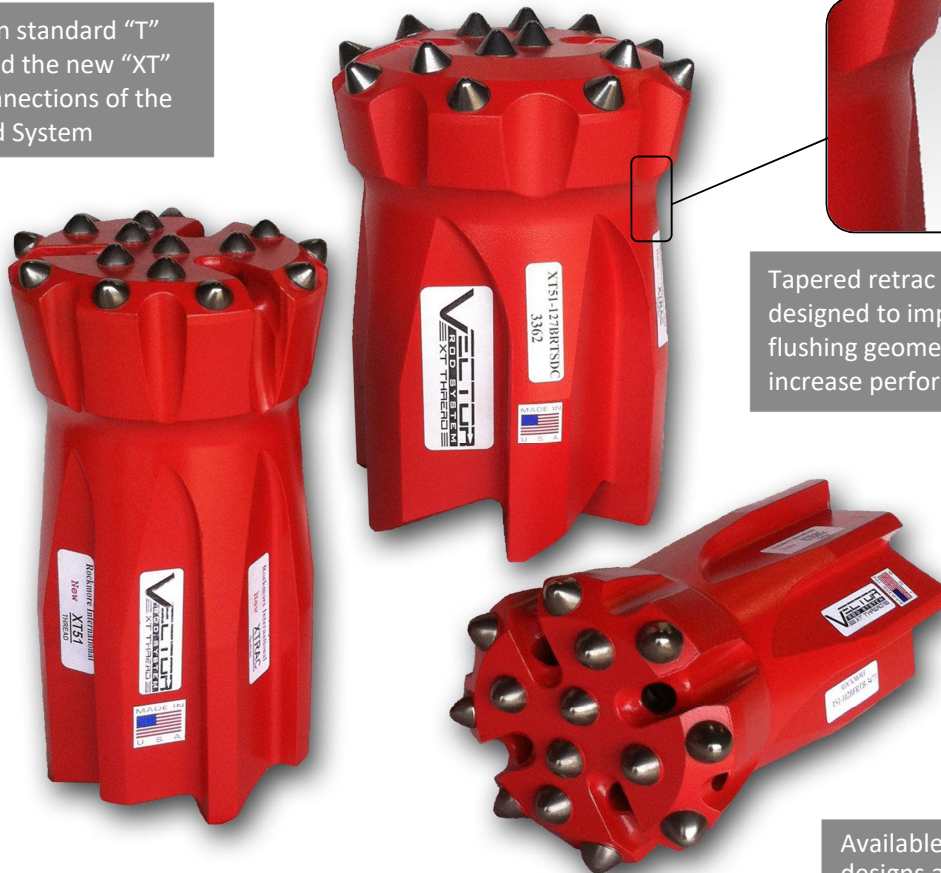


NEW Xtrac BIT DESIGN

Tapered Body Retractable Bit

Designed to improve top-hammer drill and blast operations. The Xtrac retrac bit increases overall drilling productivity by incorporating enhancements in the bit body design and improvements in the configuration of flushing geometry. This promotes straighter holes, faster penetration rates and longer bit life.

Available in standard "T" threads and the new "XT" thread connections of the Vector Rod System



Tapered retrac body designed to improve flushing geometry and increase performance

Features multiple flat spline grooves with extended cutting edges for smoother retraction of the bit

Available in various face designs and button configurations

AVAILABLE WITH THE FOLLOWING CARBIDE PROFILES



CONICAL



SEMI BALLISTIC



CROWN POINT



HEMISPHERICAL



MULTIPOINT

TAPERED BITS



22 mm X 4°46' (7/8" X 4°46')

| NO. | CROSS MULTI - USE | CARBIDE DIMENSIONS | | | | DIAMETER | | PART NUMBER | |
|-----|-------------------|--------------------|-----------------------|----|------|----------|---------|---------------|---------|
| | | W | | H | | D | | USA | AUSTRIA |
| | | mm | In. | mm | In. | mm | In. | | |
| 1 | | 8 | 5/16 | 14 | 9/16 | 32 | 1-1/4 | T22-32M4-1369 | 49701 |
| | | 8 | 5/16 | 14 | 9/16 | 34 | 1-11/32 | T22-34M4-1352 | 49703 |
| | | 8 | 5/16 | 14 | 9/16 | 35 | 1-3/8 | T22-35M4-1255 | 49775 |
| | | 8 | 5/16 | 14 | 9/16 | 36 | 1-13/32 | T22-36M4-1323 | 49705 |
| | | 8 | 5/16 | 14 | 9/16 | 38 | 1-1/2 | T22-38M4-1437 | 49707 |
| | | 8 | 5/16 | 14 | 9/16 | 40 | 1-9/16 | T22-40M4-1438 | 49709 |
| | | 8 | 5/16 | 14 | 9/16 | 41 | 1-5/8 | T22-41M4-1496 | 49790 |
| | | 8 | 5/16 | 14 | 9/16 | 42 | 1-21/32 | T22-42M4-1038 | 49711 |
| | | 8 | 5/16 | 14 | 9/16 | 45 | 1-3/4 | T22-45M4-1118 | 49722 |
| | | 8 | 5/16 | 14 | 9/16 | 46 | 1-13/16 | T22-46M4-1226 | 49724 |
| | | 8 | 5/16 | 14 | 9/16 | 48 | 1-7/8 | T22-48M4-1497 | 49791 |
| | | 8 | 5/16 | 14 | 9/16 | 51 | 2 | T22-51M4-1367 | 49712 |
| | | 8 | 5/16 | 14 | 9/16 | 57 | 2-1/4 | T22-57M4-1764 | 49713 |
| | | 1 | 1 FRONT FLUSHING HOLE | | | | | | |

| NO. | B2 DESIGN | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|-----------|--------------------|-----------------------|----|------------------|-----|----|----------|-----|-------------|-----------------|-------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 2 | | HEM | 5 | 7 | 9/32 | 2 | 7 | 9/32 | 33 | 1-5/16 | T22-33B24-1297 | 41025 |
| | | BAL | 5 | 7 | 9/32 | 2 | 7 | 9/32 | 33 | 1-5/16 | T22-33B24B-1293 | 41035 |
| | | HEM | 5 | 8 | 5/16 | 2 | 7 | 9/32 | 35 | 1-3/8 | T22-35B24-1032 | 41032 |
| | | BAL | 5 | 8 | 5/16 | 2 | 7 | 9/32 | 35 | 1-3/8 | T22-35B24B-1498 | 41075 |
| | | HEM | 5 | 8 | 5/16 | 2 | 7 | 9/32 | 36 | 1-13/32 | T22-36B24-1266 | 41030 |
| | | BAL | 5 | 8 | 5/16 | 2 | 7 | 9/32 | 36 | 1-13/32 | T22-36B24B-1673 | 41091 |
| | | HEM | 5 | 9 | 11/32 | 2 | 7 | 9/32 | 38 | 1-1/2 | T22-38B24-1031 | 41029 |
| | | BAL | 5 | 9 | 11/32 | 2 | 7 | 9/32 | 38 | 1-1/2 | T22-38B24B-1499 | 41076 |
| | | HEM | 5 | 9 | 11/32 | 2 | 9 | 11/32 | 41 | 1-5/8 | T22-41B24-1138 | 41027 |
| | | BAL | 5 | 9 | 11/32 | 2 | 9 | 11/32 | 41 | 1-5/8 | T22-41B24B-1500 | 41034 |
| | | HEM | 5 | 10 | 13/32 | 2 | 9 | 11/32 | 45 | 1-3/4 | T22-45B24-1501 | 41033 |
| | | BAL | 5 | 10 | 13/32 | 2 | 9 | 11/32 | 45 | 1-3/4 | T22-45B24B-1502 | 41077 |
| | | HEM | 5 | 11 | 7/16 | 2 | 9 | 11/32 | 48 | 1-7/8 | T22-48B24-1741 | 41003 |
| | | BAL | 5 | 11 | 7/16 | 2 | 9 | 11/32 | 48 | 1-7/8 | T22-48B24B-1760 | 41005 |
| | | HEM | 5 | 11 | 7/16 | 2 | 10 | 13/32 | 50 | 1-31/32 | T22-50B24-1359 | 41059 |
| | | HEM | 5 | 11 | 7/16 | 2 | 10 | 13/32 | 51 | 2 | T22-51B24-1761 | 41031 |
| | | BAL | 5 | 11 | 7/16 | 2 | 10 | 13/32 | 51 | 2 | T22-51B24B-1762 | 41007 |
| | | 2 | 1 FRONT FLUSHING HOLE | | | | | | | | | |

CARBIDE PROFILE DESIGNS

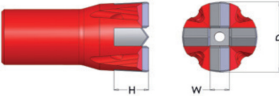


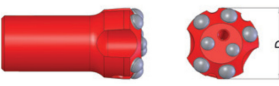
HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

TAPERED BITS

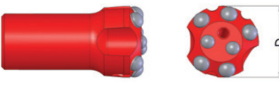



22 mm X 7^⁹ (7/8" X 7^⁹)

| NO. | CROSS MULTI - USE  1 FRONT FLUSHING HOLE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | |
|-----|---|--------------------|------|----|------|----|--------|---------------|---------|-------------|--|
| | | W | | H | | D | | USA | AUSTRIA | | |
| | | mm | In. | mm | In. | mm | In. | | | | |
| 1 | | 8 | 5/16 | 14 | 9/16 | 30 | 1-3/16 | T22-30M7-1696 | 49758 | | |
| | | 8 | 5/16 | 14 | 9/16 | 32 | 1-1/4 | T22-32M7-1732 | 49765 | | |
| | | 8 | 5/16 | 14 | 9/16 | 35 | 1-3/8 | T22-35M7-1865 | 49798 | | |
| | | 8 | 5/16 | 14 | 9/16 | 41 | 1-5/8 | T22-41M7-2414 | 49746 | | |
| | | 8 | 5/16 | 14 | 9/16 | 45 | 1-3/4 | T22-45M7-1852 | 49763 | | |
| | | 8 | 5/16 | 14 | 9/16 | 48 | 1-7/8 | T22-48M7-2629 | 49764 | | |

| NO. | B2 DESIGN  1 FRONT FLUSHING HOLE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|------------------|----|------------------|-----|----|----------|-----|-------------|-----------------|-------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | |
| | | | No. | mm | In. | No. | mm | In. | | | mm | In. |
| 2 | | BAL | 5 | 7 | 9/32 | 2 | 7 | 9/32 | 30 | 1-3/16 | T22-30B27B-4231 | 11020 |
| | | BAL | 5 | 7 | 9/32 | 2 | 7 | 9/32 | 33 | 1-5/16 | T22-33B27B-1375 | 41074 |
| | | HEM | 5 | 8 | 5/16 | 2 | 7 | 9/32 | 36 | 1-13/32 | T22-36B27B-1756 | 41065 |
| | | BAL | 5 | 8 | 5/16 | 2 | 7 | 9/32 | 36 | 1-13/32 | T22-36B27B-1855 | 41010 |
| | | BAL | 5 | 9 | 11/32 | 2 | 7 | 9/32 | 38 | 1-1/2 | T22-38B27B-1754 | 41096 |
| | | BAL | 5 | 9 | 11/32 | 2 | 9 | 11/32 | 41 | 1-5/8 | T22-41B27B-1856 | 41052 |
| | | HEM | 5 | 10 | 13/32 | 2 | 9 | 11/32 | 45 | 1-3/4 | T22-45B27B-2269 | 41099 |
| | | BAL | 5 | 10 | 13/32 | 2 | 9 | 11/32 | 45 | 1-3/4 | T22-45B27B-2372 | 41053 |

25 mm X 7^⁹ (1" X 7^⁹)

| NO. | B2 DESIGN  1 FRONT FLUSHING HOLE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|------------------|----|------------------|-----|----|----------|-----|-------------|-----------------|-------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | |
| | | | No. | mm | In. | No. | mm | In. | | | mm | In. |
| 3 | | HEM | 5 | 8 | 5/16 | 2 | 7 | 9/32 | 34 | 1-11/32 | T25-34B27B-3223 | 41060 |
| | | BAL | 5 | 8 | 5/16 | 2 | 7 | 9/32 | 36 | 1-13/32 | T25-36B27B-1868 | 41013 |
| | | HEM | 5 | 9 | 11/32 | 2 | 9 | 11/32 | 41 | 1-5/8 | T25-41B27B-1867 | 41012 |
| | | BAL | 5 | 9 | 11/32 | 2 | 9 | 11/32 | 41 | 1-5/8 | T25-41B27B-1863 | 41011 |

| NO. | B3 DESIGN  3 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|----|------------------|-----|----|----------|-----|-------------|------------------|-------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | |
| | | | No. | mm | In. | No. | mm | In. | | | mm | In. |
| 4 | | CP | 6 | 8 | 5/16 | 3 | 7 | 9/32 | 41 | 1-5/8 | T25-41B37CP-3364 | 41019 |
| | | BAL | 6 | 8 | 5/16 | 3 | 7 | 9/32 | 41 | 1-5/8 | T25-41B37B-3363 | 41018 |
| | | BAL | 6 | 9 | 11/32 | 3 | 7 | 9/32 | 43 | 1-11/16 | T25-43B37B-3002 | 41093 |
| | | BAL | 6 | 9 | 11/32 | 3 | 8 | 5/16 | 45 | 1-3/4 | T25-45B37B-3131 | 41004 |

CARBIDE PROFILE DESIGNS

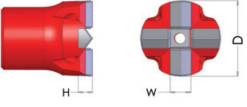


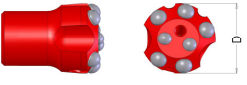
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 Note: Some button bits may not be offered with a particular carbide design shown above.

TAPERED BITS



22 mm X 11° (7/8" X 11°)

| NO. | CROSS SINGLE - USE | CARBIDE DIMENSIONS | | | | DIAMETER | | PART NUMBER | |
|-----|--|--------------------|------|----|-----|----------|-------|---------------|---------|
| | | W | | H | | D | | USA | AUSTRIA |
| | | mm | In. | mm | In. | mm | In. | | |
| 1 |  1 FRONT FLUSHING HOLE | 8 | 5/16 | 6 | 1/4 | 28 | 1-1/8 | T22-28S11-550 | 49792 |
| | | 8 | 5/16 | 6 | 1/4 | 32 | 1-1/4 | T22-32S11-551 | 49776 |
| | | 8 | 5/16 | 6 | 1/4 | 35 | 1-3/8 | T22-35S11-866 | 49749 |
| | | 8 | 5/16 | 6 | 1/4 | 38 | 1-1/2 | T22-38S11-552 | 49736 |
| | | 8 | 5/16 | 6 | 1/4 | 41 | 1-5/8 | T22-41S11-211 | 49752 |
| | | 8 | 5/16 | 6 | 1/4 | 45 | 1-3/4 | T22-45S11-553 | 49737 |
| | | 8 | 5/16 | 6 | 1/4 | 48 | 1-7/8 | T22-48S11-554 | 49747 |
| | | 8 | 5/16 | 6 | 1/4 | 51 | 2 | T22-51S11-555 | 49750 |

| NO. | B2 DESIGN | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|----|------------------|-----|----|----------|-----|-------------|-------------------|-------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 2 |  1 FRONT FLUSHING HOLE | HEM | 5 | 7 | 9/32 | 2 | 7 | 9/32 | 32 | 1-1/4 | T22-32B211-2679 | 41024 |
| | | BAL | 5 | 7 | 9/32 | 2 | 7 | 9/32 | 32 | 1-1/4 | T22-32B211B-2359 | 41023 |
| | | HEM | 5 | 7 | 9/32 | 2 | 7 | 9/32 | 33 | 1-5/16 | T22-33B211-1505 | 41079 |
| | | BAL | 5 | 7 | 9/32 | 2 | 7 | 9/32 | 33 | 1-5/16 | T22-33B211B-1506 | 41080 |
| | | HEM | 5 | 8 | 5/16 | 2 | 7 | 9/32 | 35 | 1-3/8 | T22-35B211-1507 | 41081 |
| | | CP | 5 | 8 | 5/16 | 2 | 7 | 9/32 | 35 | 1-3/8 | T22-35B211CP-3366 | 41040 |
| | | BAL | 5 | 8 | 5/16 | 2 | 7 | 9/32 | 35 | 1-3/8 | T22-35B211B-1254 | 41041 |
| | | HEM | 5 | 9 | 11/32 | 2 | 7 | 9/32 | 38 | 1-1/2 | T22-38B211-1508 | 41082 |
| | | BAL | 5 | 9 | 11/32 | 2 | 7 | 9/32 | 38 | 1-1/2 | T22-38B211B-1239 | 41042 |
| | | HEM | 5 | 9 | 11/32 | 2 | 9 | 11/32 | 41 | 1-5/8 | T22-41B211-1509 | 41083 |
| | | BAL | 5 | 9 | 11/32 | 2 | 9 | 11/32 | 41 | 1-5/8 | T22-41B211B-1510 | 41084 |
| | | HEM | 5 | 10 | 13/32 | 2 | 9 | 11/32 | 45 | 1-3/4 | T22-45B211-1511 | 41085 |
| | | BAL | 5 | 10 | 13/32 | 2 | 9 | 11/32 | 45 | 1-3/4 | T22-45B211B-1512 | 41086 |

CARBIDE PROFILE DESIGNS

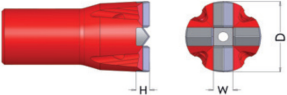
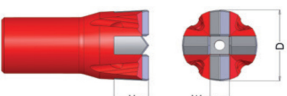
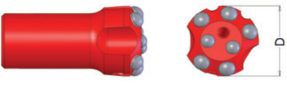


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 Note: Some button bits may not be offered with a particular carbide design shown above.

TAPERED BITS



22 mm X 12° (7/8" X 12°)

| NO. | CROSS SINGLE - USE | CARBIDE DIMENSIONS | | | | DIAMETER | | PART NUMBER | | | | |
|-----|--|--------------------|------------------|----|-------|------------------|-------|----------------|---------|-------------|------------------|---------|
| | | W | | H | | D | | USA | AUSTRIA | | | |
| | | mm | In. | mm | In. | mm | In. | | | | | |
| 1 |  1 FRONT FLUSHING HOLE | 8 | 5/16 | 6 | 1/4 | 32 | 1-1/4 | T22-32S12-606 | 49781 | | | |
| | | 8 | 5/16 | 6 | 1/4 | 35 | 1-3/8 | T22-35S12-607 | 49782 | | | |
| | | 8 | 5/16 | 6 | 1/4 | 38 | 1-1/2 | T22-38S12-608 | 49771 | | | |
| | | 8 | 5/16 | 6 | 1/4 | 41 | 1-5/8 | T22-41S12-609 | 49783 | | | |
| | | 8 | 5/16 | 6 | 1/4 | 45 | 1-3/4 | T22-45S12-610 | 49784 | | | |
| | | 8 | 5/16 | 6 | 1/4 | 48 | 1-7/8 | T22-48S12-611 | 49785 | | | |
| | | 8 | 5/16 | 6 | 1/4 | 51 | 2 | T22-51S12-612 | 49786 | | | |
| | | | | | | | | | | | | |
| NO. | CROSS MULTI - USE | CARBIDE DIMENSIONS | | | | DIAMETER | | PART NUMBER | | | | |
| | | W | | H | | D | | USA | AUSTRIA | | | |
| | | mm | In. | mm | In. | mm | In. | | | | | |
| 2 |  1 FRONT FLUSHING HOLE | 8 | 5/16 | 14 | 9/16 | 32 | 1-1/4 | T22-32M12-129 | 49731 | | | |
| | | 8 | 5/16 | 14 | 9/16 | 35 | 1-3/8 | T22-35M12-714 | 49739 | | | |
| | | 8 | 5/16 | 14 | 9/16 | 38 | 1-1/2 | T22-38M12-713 | 49760 | | | |
| | | 8 | 5/16 | 14 | 9/16 | 41 | 1-5/8 | T22-41M12-712 | 49787 | | | |
| | | 8 | 5/16 | 14 | 9/16 | 45 | 1-3/4 | T22-45M12-711 | 49788 | | | |
| | | 8 | 5/16 | 14 | 9/16 | 48 | 1-7/8 | T22-48M12-1513 | 49793 | | | |
| | | 8 | 5/16 | 14 | 9/16 | 51 | 2 | T22-51M12-1514 | 49794 | | | |
| | | | | | | | | | | | | |
| NO. | B2 DESIGN | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 3 |  1 FRONT FLUSHING HOLE | BAL | 4 | 7 | 9/32 | 1 | 7 | 9/32 | 28 | 1-1/8 | T22-28B212B-4271 | 11024 |
| | | BAL | 4 | 7 | 9/32 | 1 | 7 | 9/32 | 31 | 1-7/32 | T22-31B212B-1653 | 41016 |
| | | HEM | 5 | 7 | 9/32 | 2 | 7 | 9/32 | 32 | 1-1/4 | T22-32B212B-1848 | 41048 |
| | | BAL | 5 | 7 | 9/32 | 2 | 7 | 9/32 | 32 | 1-1/4 | T22-32B212B-1169 | 41057 |
| | | HEM | 5 | 7 | 9/32 | 2 | 7 | 9/32 | 33 | 1-5/16 | T22-33B212B-2627 | 41014 |
| | | BAL | 5 | 7 | 9/32 | 2 | 7 | 9/32 | 33 | 1-5/16 | T22-33B212B-1493 | 41015 |
| | | HEM | 5 | 8 | 5/16 | 2 | 7 | 9/32 | 35 | 1-3/8 | T22-35B212B-100 | 41046 |
| | | BAL | 5 | 8 | 5/16 | 2 | 7 | 9/32 | 35 | 1-3/8 | T22-35B212B-1398 | 41064 |
| | | HEM | 5 | 9 | 11/32 | 2 | 7 | 9/32 | 38 | 1-1/2 | T22-38B212B-690 | 41047 |
| | | BAL | 5 | 9 | 11/32 | 2 | 7 | 9/32 | 38 | 1-1/2 | T22-38B212B-1399 | 41049 |
| | | HEM | 5 | 9 | 11/32 | 2 | 9 | 11/32 | 41 | 1-5/8 | T22-41B212B-102 | 41069 |
| | | BAL | 5 | 9 | 11/32 | 2 | 9 | 11/32 | 41 | 1-5/8 | T22-41B212B-1246 | 41050 |
| | | HEM | 5 | 10 | 13/32 | 2 | 9 | 11/32 | 45 | 1-3/4 | T22-45B212B-101 | 41070 |
| | | BAL | 5 | 10 | 13/32 | 2 | 9 | 11/32 | 45 | 1-3/4 | T22-45B212B-1515 | 41087 |

CARBIDE PROFILE DESIGNS

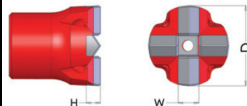
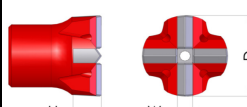


HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



"H" THREAD

| NO. | CROSS SINGLE - USE | CARBIDE DIMENSIONS | | | | DIAMETER | | PART NUMBER | |
|-----|--|--------------------|--|------|-------|----------|-------|-------------|---------|
| | | W | | H | | D | | USA | AUSTRIA |
| | | mm | In. | mm | In. | mm | In. | | |
| 1 |  1 FRONT FLUSHING HOLE | 8 | 5/16 | 6 | 1/4 | 35 | 1-3/8 | H-35S-158 | 41107 |
| | | 8 | 5/16 | 6 | 1/4 | 38 | 1-1/2 | H-38S-159 | 41108 |
| | | 8 | 5/16 | 6 | 1/4 | 41 | 1-5/8 | H-41S-160 | 41109 |
| | | 8 | 5/16 | 6 | 1/4 | 45 | 1-3/4 | H-45S-161 | 41110 |
| | | 8 | 5/16 | 6 | 1/4 | 48 | 1-7/8 | H-48S-162 | 41111 |
| | | 8 | 5/16 | 6 | 1/4 | 51 | 2 | H-51S-163 | 41112 |
| | | 8 | 5/16 | 6 | 1/4 | 57 | 2-1/4 | H-57S-164 | 41113 |
| | | 2 |  1 FRONT FLUSHING HOLE | 8 | 5/16 | 14 | 9/16 | 35 | 1-3/8 |
| 8 | 5/16 | | | 14 | 9/16 | 38 | 1-1/2 | H-38M-166 | 41115 |
| 8 | 5/16 | | | 14 | 9/16 | 41 | 1-5/8 | H-41M-167 | 41116 |
| 8 | 5/16 | | | 14 | 9/16 | 45 | 1-3/4 | H-45M-168 | 41117 |
| 8 | 5/16 | | | 14 | 9/16 | 48 | 1-7/8 | H-48M-169 | 41118 |
| 8 | 5/16 | | | 14 | 9/16 | 51 | 2 | H-51M-170 | 41119 |
| 8 | 5/16 | | | 14 | 9/16 | 57 | 2-1/4 | H-57M-171 | 41120 |
| 9.5 | 3/8 | | | 14 | 9/16 | 64 | 2-1/2 | H-64M-172 | 41121 |
| 12 | 15/32 | | | 20.6 | 13/16 | 70 | 2-3/4 | H-70M-572 | 41122 |
| 12 | 15/32 | | | 20.6 | 13/16 | 76 | 3 | H-76M-573 | 41123 |

CARBIDE PROFILE DESIGNS

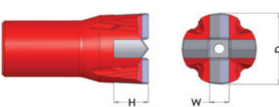


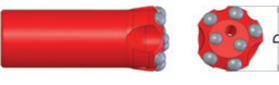
HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



R22 7/8" ROPE THREAD

| NO. | CROSS MULTI - USE  1 FRONT FLUSHING HOLE | CARBIDE DIMENSIONS | | | | DIAMETER | | PART NUMBER | |
|-----|---|--------------------|------|----|------|----------|-------|-------------|---------|
| | | W | | H | | D | | USA | AUSTRIA |
| | | mm | In. | mm | In. | mm | In. | | |
| 1 | | 8 | 5/16 | 14 | 9/16 | 35 | 1-3/8 | R22-35M-808 | 49679 |
| | | 8 | 5/16 | 14 | 9/16 | 38 | 1-1/2 | R22-38M-807 | 49651 |
| | | 8 | 5/16 | 14 | 9/16 | 41 | 1-5/8 | R22-41M-949 | 49662 |

| NO. | B2 DESIGN  1 FRONT FLUSHING HOLE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|------------------|-----|------------------|-----|----|----------|-----|-------------|----------------|-------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | |
| | | | No. | mm | In. | No. | mm | In. | | | mm | In. |
| 2 | | HEM | 5 | 7 | 9/32 | 2 | 7 | 9/32 | 32 | 1-1/4 | R22-32B2-4079 | 44241 |
| | | BAL | 5 | 7 | 9/32 | 2 | 7 | 9/32 | 32 | 1-1/4 | R22-32B2B-2979 | 44705 |
| | | HEM | 5 | 8 | 5/16 | 2 | 7 | 9/32 | 34 | 1-11/32 | R22-34B2-3129 | 44237 |
| | | BAL | 5 | 8 | 5/16 | 2 | 7 | 9/32 | 34 | 1-11/32 | R22-34B2B-3130 | 44238 |
| | | HEM | 5 | 8 | 5/16 | 2 | 7 | 9/32 | 35 | 1-3/8 | R22-35B2-923 | 44503 |
| | | HEM | 5 | 9 | 11/32 | 2 | 7 | 9/32 | 38 | 1-1/2 | R22-38B2-924 | 44599 |
| | | HEM | 5 | 9 | 11/32 | 2 | 9 | 11/32 | 41 | 1-5/8 | R22-41B2-1517 | 44614 |
| | | HEM | 5 | 9.5 | 3/8 | 2 | 8 | 5/16 | 43 | 1-11/16 | R22-43B2-4080 | 41193 |
| | | HEM | 5 | 10 | 13/32 | 2 | 9 | 11/32 | 45 | 1-3/4 | R22-45B2-1518 | 44615 |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



R25 1" ROPE THREAD

| NO. | CROSS MULTI - USE | CARBIDE DIMENSIONS | | | | DIAMETER | | PART NUMBER | |
|-----|------------------------------|--------------------|------|----|------|----------|---------|--------------|---------|
| | | W | | H | | D | | USA | AUSTRIA |
| | | mm | In. | mm | In. | mm | In. | | |
| 1 | <p>1 FRONT FLUSHING HOLE</p> | 8 | 5/16 | 14 | 9/16 | 35 | 1-3/8 | R25-35M-415 | 49673 |
| | | 8 | 5/16 | 14 | 9/16 | 38 | 1-1/2 | R25-38M-413 | 49600 |
| | | 8 | 5/16 | 14 | 9/16 | 41 | 1-5/8 | R25-41M-663 | 49601 |
| | | 8 | 5/16 | 14 | 9/16 | 43 | 1-11/16 | R25-43M-4081 | 49602 |
| | | 8 | 5/16 | 14 | 9/16 | 45 | 1-3/4 | R25-45M-414 | 49603 |
| | | 9.5 | 3/8 | 19 | 3/4 | 48 | 1-7/8 | R25-48M-771 | 49640 |
| | | 9.5 | 3/8 | 19 | 3/4 | 51 | 2 | R25-51M-854 | 49660 |
| | | 9.5 | 3/8 | 19 | 3/4 | 57 | 2-1/4 | R25-57M-863 | 49658 |

| NO. | B2 DESIGN | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|------------------------------|--------------------|------------------|-----|------------------|-----|----|----------|-----|-------------|----------------|-------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 2 | <p>1 FRONT FLUSHING HOLE</p> | HEM | 5 | 7 | 9/32 | 2 | 7 | 9/32 | 32 | 1-1/4 | R25-32B2-941 | 44124 |
| | | BAL | 5 | 7 | 9/32 | 2 | 7 | 9/32 | 32 | 1-1/4 | R25-32B2B-1383 | 44125 |
| | | HEM | 5 | 7 | 9/32 | 2 | 7 | 9/32 | 33 | 1-5/16 | R25-33B2-1434 | 44847 |
| | | BAL | 5 | 7 | 9/32 | 2 | 7 | 9/32 | 33 | 1-5/16 | R25-33B2B-1519 | 44616 |
| | | HEM | 5 | 8 | 5/16 | 2 | 7 | 9/32 | 35 | 1-3/8 | R25-35B2-1130 | 44741 |
| | | BAL | 5 | 8 | 5/16 | 2 | 7 | 9/32 | 35 | 1-3/8 | R25-35B2B-1458 | 44647 |
| | | HEM | 5 | 8 | 5/16 | 2 | 7 | 9/32 | 36 | 1-13/32 | R25-36B2-769 | 44507 |
| | | HEM | 5 | 9 | 11/32 | 2 | 7 | 9/32 | 38 | 1-1/2 | R25-38B2-1520 | 44617 |
| | | HEM | 5 | 9.5 | 3/8 | 2 | 7 | 9/32 | 38 | 1-1/2 | R25-38B2-410 | 44743 |
| | | BAL | 5 | 9 | 11/32 | 2 | 7 | 9/32 | 38 | 1-1/2 | R25-38B2B-1521 | 44754 |
| | | HEM | 5 | 9 | 11/32 | 2 | 9 | 11/32 | 41 | 1-5/8 | R25-41B2-082 | 44673 |
| | | BAL | 5 | 9 | 11/32 | 2 | 9 | 11/32 | 41 | 1-5/8 | R25-41B2B-1483 | 44677 |
| | | HEM | 5 | 9.5 | 3/8 | 2 | 8 | 5/16 | 43 | 1-11/16 | R25-43B2-1390 | 44623 |
| | | BAL | 5 | 9.5 | 3/8 | 2 | 8 | 5/16 | 43 | 1-11/16 | R25-43B2B-1765 | 44991 |
| | | HEM | 5 | 10 | 13/32 | 2 | 9 | 11/32 | 45 | 1-3/4 | R25-45B2-407 | 44602 |
| | | BAL | 5 | 10 | 13/32 | 2 | 9 | 11/32 | 45 | 1-3/4 | R25-45B2B-408 | 44603 |
| | | HEM | 5 | 11 | 7/16 | 2 | 9 | 11/32 | 48 | 1-7/8 | R25-48B2-083 | 44326 |
| | | BAL | 5 | 11 | 7/16 | 2 | 9 | 11/32 | 48 | 1-7/8 | R25-48B2B-406 | 44327 |
| | | HEM | 5 | 11 | 7/16 | 2 | 10 | 13/32 | 51 | 2 | R25-51B2-085 | 44328 |
| | | BAL | 5 | 11 | 7/16 | 2 | 10 | 13/32 | 51 | 2 | R25-51B2B-2628 | 44329 |

| NO. | B3 DESIGN | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|-------------------------------|--------------------|------------------|----|------------------|-----|-----|----------|-----|-------------|-----------------|-------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 3 | <p>3 FRONT FLUSHING HOLES</p> | BAL | 6 | 7 | 9/32 | 3 | 7 | 9/32 | 35 | 1-3/8 | R25-35B3B-4182 | 16078 |
| | | HEM | 6 | 9 | 11/32 | 3 | 7 | 9/32 | 43 | 1-11/16 | R25-43B3-4063 | 16079 |
| | | CP / HEM | 6 | 9 | 11/32 | 3 | 7 | 9/32 | 43 | 1-11/16 | R25-43B3CP-4064 | 16080 |
| | | HEM | 6 | 9 | 11/32 | 3 | 8 | 5/16 | 45 | 1-3/4 | R25-45B3-1522 | 44618 |
| | | BAL | 6 | 9 | 11/32 | 3 | 8 | 5/16 | 45 | 1-3/4 | R25-45B3B-1523 | 44619 |
| | | HEM | 6 | 9 | 11/32 | 3 | 9 | 11/32 | 48 | 1-7/8 | R25-48B3-1524 | 44624 |
| | | BAL | 6 | 9 | 11/32 | 3 | 9 | 11/32 | 48 | 1-7/8 | R25-48B3B-1525 | 44625 |
| | | HEM | 6 | 10 | 13/32 | 3 | 9.5 | 3/8 | 51 | 2 | R25-51B3-1526 | 44767 |
| | | BAL | 6 | 10 | 13/32 | 3 | 9.5 | 3/8 | 51 | 2 | R25-51B3B-1527 | 44626 |
| | | HEM | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 57 | 2-1/4 | R25-57B3-1528 | 44629 |
| | | BAL | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 57 | 2-1/4 | R25-57B3B-1529 | 44632 |
| | | BAL | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 60 | 2-3/8 | R25-60B3B-3401 | 44188 |

| NO. | FLAT FACE - RETRAC | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|------------------------------|--------------------|------------------|-----|------------------|-----|----|----------|-----|-------------|------------------|-------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 4 | <p>1 FRONT FLUSHING HOLE</p> | BAL | 5 | 9 | 11/32 | 2 | 9 | 11/32 | 41 | 1-5/8 | R25-41BFRTB-1738 | 44968 |
| | | BAL | 5 | 9.5 | 3/8 | 2 | 8 | 5/16 | 43 | 1-11/16 | R25-43BFRTB-3749 | 44062 |
| | | BAL | 5 | 10 | 13/32 | 2 | 9 | 11/32 | 45 | 1-3/4 | R25-45BFRTB-3750 | 44063 |

| NO. | FLAT FACE - RETRAC | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|-------------------------------|--------------------|------------------|----|------------------|-----|-----|----------|-----|-------------|------------------|-------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 5 | <p>3 FRONT FLUSHING HOLES</p> | HEM | 6 | 9 | 11/32 | 3 | 9 | 11/32 | 48 | 1-7/8 | R25-48BFRT-3251 | 44221 |
| | | BAL | 6 | 9 | 11/32 | 3 | 9 | 11/32 | 48 | 1-7/8 | R25-48BFRTB-3252 | 44222 |
| | | BAL | 6 | 10 | 13/32 | 3 | 9.5 | 3/8 | 51 | 2 | R25-51BFRTB-2816 | 44254 |
| | | HEM | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 57 | 2-1/4 | R25-57BFRT-3584 | 41189 |
| | | BAL | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 57 | 2-1/4 | R25-57BFRTB-3580 | 41187 |
| | | BAL | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 60 | 2-3/8 | R25-60BFRTB-3402 | 44189 |

CARBIDE PROFILE DESIGNS

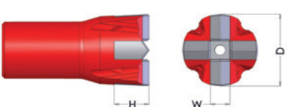


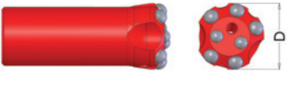
HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

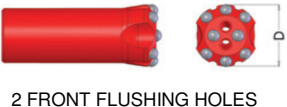
THREADED BITS

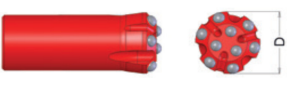


R28 1-1/8" ROPE THREAD

| NO. | CROSS MULTI - USE  1 FRONT FLUSHING HOLE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | |
|-----|---|--------------------|------|--|----|------|--|----------|-------|--------------|---------|
| | | W | | | H | | | D | | USA | AUSTRIA |
| | | mm | In. | | mm | In. | | mm | In. | | |
| 1 | | 8 | 5/16 | | 14 | 9/16 | | 35 | 1-3/8 | R28-35M-1530 | 49696 |
| | | 8 | 5/16 | | 14 | 9/16 | | 38 | 1-1/2 | R28-38M-419 | 49604 |
| | | 8 | 5/16 | | 14 | 9/16 | | 41 | 1-5/8 | R28-41M-386 | 49605 |
| | | 8 | 5/16 | | 14 | 9/16 | | 45 | 1-3/4 | R28-45M-387 | 49607 |

| NO. | B2 DESIGN  1 FRONT FLUSHING HOLE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|------------------|-----|-------|------------------|----|----------|----|-------------|----------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 2 | | HEM | 5 | 8 | 5/16 | 2 | 7 | 9/32 | 36 | 1-13/32 | R28-36B2-216 | 44792 |
| | | BAL | 5 | 8 | 5/16 | 2 | 7 | 9/32 | 36 | 1-13/32 | R28-36B2B-1766 | 44990 |
| | | HEM | 5 | 8 | 5/16 | 2 | 8 | 5/16 | 38 | 1-1/2 | R28-38B2-1291 | 44664 |
| | | BAL | 5 | 8 | 5/16 | 2 | 8 | 5/16 | 38 | 1-1/2 | R28-38B2B-2575 | 44633 |
| | | BAL | 5 | 9 | 11/32 | 2 | 7 | 9/32 | 38 | 1-1/2 | R28-38B2B-694 | 44727 |
| | | HEM | 5 | 9 | 11/32 | 2 | 9 | 11/32 | 41 | 1-5/8 | R28-41B2-788 | 44628 |
| | | BAL | 5 | 9 | 11/32 | 2 | 9 | 11/32 | 41 | 1-5/8 | R28-41B2B-1804 | 44656 |
| | | HEM | 5 | 9.5 | 3/8 | 2 | 8 | 5/16 | 43 | 1-11/16 | R28-43B2-1481 | 44994 |
| | | BAL | 5 | 9.5 | 3/8 | 2 | 8 | 5/16 | 43 | 1-11/16 | R28-43B2B-1767 | 44661 |
| | | HEM | 5 | 10 | 13/32 | 2 | 9 | 11/32 | 45 | 1-3/4 | R28-45B2-976 | 44729 |
| | | BAL | 5 | 10 | 13/32 | 2 | 9 | 11/32 | 45 | 1-3/4 | R28-45B2B-461 | 44563 |
| | | HEM | 5 | 11 | 7/16 | 2 | 9 | 11/32 | 48 | 1-7/8 | R28-48B2-091 | 44887 |

| NO. | B DESIGN  2 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|------------------|----|-------|------------------|----|----------|----|-------------|---------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 3 | | HEM | 6 | 8 | 5/16 | 2 | 8 | 5/16 | 43 | 1-11/16 | R28-43B-1349 | 44807 |
| | | BAL | 6 | 8 | 5/16 | 2 | 8 | 5/16 | 43 | 1-11/16 | R28-43BB-1538 | 44713 |
| | | BAL | 6 | 9 | 11/32 | 2 | 9 | 11/32 | 45 | 1-3/4 | R28-45BB-1573 | 44826 |

| NO. | B3 DESIGN  3 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|----|-------|------------------|-----|----------|----|-------------|----------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 4 | | HEM | 6 | 9 | 11/32 | 3 | 8 | 5/16 | 45 | 1-3/4 | R28-45B3-975 | 44564 |
| | | BAL | 6 | 9 | 11/32 | 3 | 8 | 5/16 | 45 | 1-3/4 | R28-45B3B-1532 | 44662 |
| | | HEM | 6 | 9 | 11/32 | 3 | 9 | 11/32 | 48 | 1-7/8 | R28-48B3-1533 | 44683 |
| | | BAL | 6 | 9 | 11/32 | 3 | 9 | 11/32 | 48 | 1-7/8 | R28-48B3B-1534 | 44698 |
| | | HEM | 6 | 10 | 13/32 | 3 | 9.5 | 3/8 | 51 | 2 | R28-51B3-1347 | 44753 |
| | | BAL | 6 | 10 | 13/32 | 3 | 9.5 | 3/8 | 51 | 2 | R28-51B3B-1535 | 44699 |

CARBIDE PROFILE DESIGNS

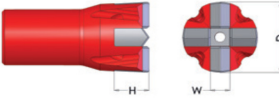



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.


THREADED BITS

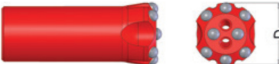


R32 1-1/4" ROPE THREAD

| NO. | CROSS MULTI - USE | CARBIDE DIMENSIONS | | | | DIAMETER | | PART NUMBER | |
|-----|--|--------------------|-----|----|-----|----------|---------|---------------|---------|
| | | W | | H | | D | | USA | AUSTRIA |
| | | mm | In. | mm | In. | mm | In. | | |
| 1 |  1 FRONT FLUSHING HOLE | 9.5 | 3/8 | 19 | 3/4 | 41 | 1-5/8 | R32-41M-138 | 49608 |
| | | 9.5 | 3/8 | 19 | 3/4 | 43 | 1-11/16 | R32-43M-416 | 49614 |
| | | 9.5 | 3/8 | 19 | 3/4 | 45 | 1-3/4 | R32-45M-139 | 49615 |
| | | 9.5 | 3/8 | 19 | 3/4 | 48 | 1-7/8 | R32-48M-140 | 49616 |
| | | 9.5 | 3/8 | 19 | 3/4 | 51 | 2 | R32-51M-141 | 49617 |
| | | 9.5 | 3/8 | 19 | 3/4 | 57 | 2-1/4 | R32-57M-142 | 49618 |
| | | 12.7 | 1/2 | 25 | 1 | 76 | 3 | R32-76MHD-147 | 49670 |

| NO. | X MULTI - USE | CARBIDE DIMENSIONS | | | | DIAMETER | | PART NUMBER | |
|-----|--|--------------------|-------|------|-------|----------|-------|----------------|---------|
| | | W | | H | | D | | USA | AUSTRIA |
| | | mm | In. | mm | In. | mm | In. | | |
| 2 |  1 FRONT FLUSHING HOLE | 12 | 15/32 | 20.6 | 13/16 | 64 | 2-1/2 | R32-64X-269 | 49619 |
| | | 12.7 | 1/2 | 25 | 1 | 76 | 3 | R32-76XHD-148 | 49678 |
| | | 12.7 | 1/2 | 25 | 1 | 89 | 3-1/2 | R32-89XHD-400 | 49647 |
| | | 16 | 5/8 | 25 | 1 | 102 | 4 | R32-102XHD-401 | 49692 |

| NO. | B2 DESIGN | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|------|------------------|-----|-----|----------|-----|-------------|-----------------|-------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 3 |  1 FRONT FLUSHING HOLE * = 2 SIDE FLUSH HOLES | HEM | 5 | 9 | 11/32 | 2 | 9 | 11/32 | 41 | 1-5/8 | R32-41B2-001 | 44649 |
| | | BAL | 5 | 9 | 11/32 | 2 | 9 | 11/32 | 41 | 1-5/8 | R32-41B2B-364 | 44650 |
| | | HEM | 5 | 9.5 | 3/8 | 2 | 8 | 5/16 | 43 | 1-11/16 | R32-43B2-193 | 44636 |
| | | CP | 5 | 9.5 | 3/8 | 2 | 8 | 5/16 | 43 | 1-11/16 | R32-43B2CP-2863 | 44267 |
| | | BAL | 5 | 9.5 | 3/8 | 2 | 8 | 5/16 | 43 | 1-11/16 | R32-43B2B-1253 | 44648 |
| | | HEM | 5 | 10 | 13/32 | 2 | 9 | 11/32 | 45 | 1-3/4 | R32-45B2-002 | 44652 |
| | | BAL | 5 | 10 | 13/32 | 2 | 9 | 11/32 | 45 | 1-3/4 | R32-45B2B-671 | 44651 |
| | | HEM | 5 | 11 | 7/16 | 2 | 9 | 11/32 | 48 | 1-7/8 | R32-48B2-1110 | 44530 |
| | | HEM | 5 | 11 | 7/16 | 2 | 9 | 11/32 | 48 | 1-7/8 | R32-48B2-1394 * | 44529 |
| | | BAL | 5 | 11 | 7/16 | 2 | 9 | 11/32 | 48 | 1-7/8 | R32-48B2B-362 * | 44659 |
| | | HEM | 5 | 12.7 | 1/2 | 2 | 9.5 | 3/8 | 51 | 2 | R32-51B2-358 | 44757 |
| | | BAL | 5 | 11 | 7/16 | 2 | 10 | 13/32 | 51 | 2 | R32-51B2B-366 | 44567 |

| NO. | B DESIGN | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|-----|------------------|-----|-----|----------|-----|-------------|-----------------|-------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 4 |  2 FRONT FLUSHING HOLES * = 1 SIDE FLUSH HOLE | HEM | 6 | 8 | 5/16 | 2 | 8 | 5/16 | 41 | 1-5/8 | R32-41B-452 | 44803 |
| | | HEM | 6 | 8 | 5/16 | 2 | 8 | 5/16 | 41 | 1-5/8 | R32-41B-2529 * | 44346 |
| | | BAL | 6 | 8 | 5/16 | 2 | 8 | 5/16 | 41 | 1-5/8 | R32-41BB-2530 * | 44347 |
| | | HEM | 6 | 8 | 5/16 | 2 | 8 | 5/16 | 43 | 1-11/16 | R32-43B-1541 | 44716 |
| | | BAL | 6 | 8 | 5/16 | 2 | 8 | 5/16 | 43 | 1-11/16 | R32-43BB-1542 | 44717 |
| | | HEM | 6 | 9 | 11/32 | 2 | 9 | 11/32 | 45 | 1-3/4 | R32-45B-697 | 44740 |
| | | BAL | 6 | 9 | 11/32 | 2 | 9 | 11/32 | 45 | 1-3/4 | R32-45BB-176 | 44755 |
| | | HEM | 6 | 9.5 | 3/8 | 2 | 9.5 | 3/8 | 48 | 1-7/8 | R32-48B-1543 | 44718 |
| | | BAL | 6 | 9.5 | 3/8 | 2 | 9.5 | 3/8 | 48 | 1-7/8 | R32-48BB-973 | 44798 |
| | | HEM | 6 | 11 | 7/16 | 2 | 9 | 11/32 | 51 | 2 | R32-51B-1252 | 44453 |
| | | BAL | 6 | 11 | 7/16 | 2 | 9 | 11/32 | 51 | 2 | R32-51BB-179 * | 44827 |

CARBIDE PROFILE DESIGNS

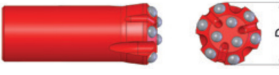
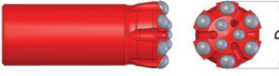
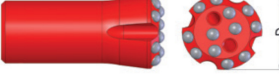
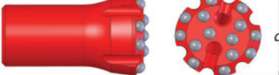



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



R32 1-1/4" ROPE THREAD (CONTINUED)

| NO. | B3 DESIGN | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | | | | |
|-----|---|--------------------|------------------|------|-------|------------------|------|----------|-----------------|-------------|-----------------|----------|--|-------------|--|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA | | | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | | | | |
| 5 |  3 FRONT FLUSHING HOLES | HEM | 6 | 9 | 11/32 | 3 | 7 | 9/32 | 43 | 1-11/16 | R32-43B3-1850 | 44324 | | | |
| | | BAL | 6 | 9 | 11/32 | 3 | 7 | 9/32 | 43 | 1-11/16 | R32-43B3B-1224 | 44325 | | | |
| | | HEM | 6 | 9 | 11/32 | 3 | 8 | 5/16 | 45 | 1-3/4 | R32-45B3-1295 | 44675 | | | |
| | | HEM | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 45 | 1-3/4 | R32-45B3-755 | 44726 | | | |
| | | CP | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 45 | 1-3/4 | R32-45B3CP-2613 | 44273 | | | |
| | | BAL | 6 | 9 | 11/32 | 3 | 8 | 5/16 | 45 | 1-3/4 | R32-45B3B-384 | 44704 | | | |
| | | BAL | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 45 | 1-3/4 | R32-45B3B-1945 | 44728 | | | |
| | | HEM | 6 | 9 | 11/32 | 3 | 9 | 11/32 | 48 | 1-7/8 | R32-48B3-1485 | 44690 | | | |
| | | HEM | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 48 | 1-7/8 | R32-48B3-760 | 44694 | | | |
| | | CP | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 48 | 1-7/8 | R32-48B3CP-2765 | 44265 | | | |
| | | BAL | 6 | 9 | 11/32 | 3 | 9 | 11/32 | 48 | 1-7/8 | R32-48B3B-699 | 44787 | | | |
| | | BAL | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 48 | 1-7/8 | R32-48B3B-2398 | 44322 | | | |
| | | HEM | 6 | 10 | 13/32 | 3 | 9.5 | 3/8 | 51 | 2 | R32-51B3-361 | 44756 | | | |
| | | HEM | 6 | 11 | 7/16 | 3 | 9 | 11/32 | 51 | 2 | R32-51B3-3535 | 44712 | | | |
| | | CP | 6 | 10 | 13/32 | 3 | 9.5 | 3/8 | 51 | 2 | R32-51B3CP-2617 | 44323 | | | |
| | | BAL | 6 | 10 | 13/32 | 3 | 9.5 | 3/8 | 51 | 2 | R32-51B3B-383 | 44802 | | | |
| | | BAL | 6 | 10 | 13/32 | 3 | 9.5 | 3/8 | 54 | 2-1/8 | R32-54B3B-3360 | 44197 | | | |
| | | HEM | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 57 | 2-1/4 | R32-57B3-1283 | 44730 | | | |
| | | BAL | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 57 | 2-1/4 | R32-57B3B-1539 | 44791 | | | |
| | | HEM | 6 | 11 | 7/16 | 3 | 11 | 7/16 | 64 | 2-1/2 | R32-64B3-1471 | 44544 | | | |
| BAL | 6 | 11 | 7/16 | 3 | 11 | 7/16 | 64 | 2-1/2 | R32-64B3B-1540 | 44570 | | | | | |
| 6 |  3 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | | | | | DIAMETER | | PART NUMBER | |
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA | | | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | | | | |
| | | HEM | 6 | 9 | 11/32 | 3 | 7 | 9/32 | 43 | 1-11/16 | R32-43B6-3460 | 44175 | | | |
| | | CP | 6 | 9 | 11/32 | 3 | 7 | 9/32 | 43 | 1-11/16 | R32-43B6CP-3257 | 44218 | | | |
| | | HEM | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 45 | 1-3/4 | R32-45B6-3039 | 44247 | | | |
| | | CP | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 45 | 1-3/4 | R32-45B6CP-3040 | 44249 | | | |
| | | BAL | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 45 | 1-3/4 | R32-45B6B-3041 | 44248 | | | |
| | | HEM | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 48 | 1-7/8 | R32-48B6-3066 | 44230 | | | |
| | | CP | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 48 | 1-7/8 | R32-48B6CP-3112 | 44219 | | | |
| BAL | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 48 | 1-7/8 | R32-48B6B-3197 | 44231 | | | | | |
| 7 |  2 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | | | | | DIAMETER | | PART NUMBER | |
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA | | | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | | | | |
| HEM | 8 | 10 | 13/32 | 4 | 10 | 13/32 | 64 | 2-1/2 | R32-64BF-011 | 44571 | | | | | |
| BAL | 8 | 10 | 13/32 | 4 | 10 | 13/32 | 64 | 2-1/2 | R32-64BFB-1392 | 44572 | | | | | |
| 8 |  2 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | | | | | DIAMETER | | PART NUMBER | |
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA | | | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | | | | |
| HEM | 8 | 11 | 7/16 | 6 | 11 | 7/16 | 76 | 3 | R32-76BF-017 | 44731 | | | | | |
| BAL | 8 | 11 | 7/16 | 6 | 11 | 7/16 | 76 | 3 | R32-76BFB-1544 | 44725 | | | | | |
| 9 |  3 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | | | | | DIAMETER | | PART NUMBER | |
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA | | | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | | | | |
| | | HEM | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 64 | 2-1/2 | R32-64BDC-1456 | 44573 | | | |
| | | BAL | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 64 | 2-1/2 | R32-64BDCB-1457 | 44574 | | | |
| | | HEM | 6 | 12.7 | 1/2 | 3 | 11 | 7/16 | 76 | 3 | R32-76BDC-777 | 44577 | | | |
| | | BAL | 6 | 12.7 | 1/2 | 3 | 11 | 7/16 | 76 | 3 | R32-76BDCB-775 | 44578 | | | |
| | | HEM | 6 | 14 | 9/16 | 3 | 12.7 | 1/2 | 89 | 3-1/2 | R32-89BDC-1250 | 44579 | | | |
| BAL | 6 | 14 | 9/16 | 3 | 12.7 | 1/2 | 89 | 3-1/2 | R32-89BDCB-1362 | 44580 | | | | | |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.


THREADED BITS




| R32 1-1/4" ROPE THREAD (CONTINUED) | | | | | | | | | | | | |
|------------------------------------|--------------------|--------------------|------------------|------|-------|------------------|-----|----------|----|-------------|-------------------|---------|
| NO. | FLAT FACE - RETRAC | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 10 | | HEM | 6 | 9 | 11/32 | 3 | 9 | 11/32 | 48 | 1-7/8 | R32-48BFRT-1763 | 44540 |
| | | BAL | 6 | 9 | 11/32 | 3 | 9 | 11/32 | 48 | 1-7/8 | R32-48BFRTB-1742 | 44542 |
| | | HEM | 6 | 10 | 13/32 | 3 | 9.5 | 3/8 | 51 | 2 | R32-51BFRT-1331 | 41174 |
| | | BAL | 6 | 10 | 13/32 | 3 | 9.5 | 3/8 | 51 | 2 | R32-51BFRTB-1486 | 44758 |
| | | BAL | 6 | 10 | 13/32 | 3 | 9.5 | 3/8 | 54 | 2-1/8 | R32-54BFRTB-3276 | 44216 |
| | | HEM | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 57 | 2-1/4 | R32-57BFRT-1337 | 41173 |
| | | BAL | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 57 | 2-1/4 | R32-57BFRTB-1546 | 44806 |
| 11 | | HEM | 8 | 10 | 13/32 | 4 | 10 | 13/32 | 64 | 2-1/2 | R32-64BFRT-2634 | 44666 |
| | | BAL | 8 | 10 | 13/32 | 4 | 10 | 13/32 | 64 | 2-1/2 | R32-64BFRTB-2331 | 44780 |
| | | | | | | | | | | | | |
| 12 | | HEM | 8 | 11 | 7/16 | 6 | 11 | 7/16 | 76 | 3 | R32-76BFRT-2635 | 44732 |
| | | BAL | 8 | 11 | 7/16 | 6 | 11 | 7/16 | 76 | 3 | R32-76BFRTB-2339 | 44873 |
| | | | | | | | | | | | | |
| 13 | | HEM | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 64 | 2-1/2 | R32-64BRTDC-2636 | 44874 |
| | | | | | | 1 | 9 | 11/32 | | | | |
| | | BAL | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 64 | 2-1/2 | R32-64BRTDCB-2637 | 44875 |
| | | | | | | 1 | 9 | 11/32 | | | | |
| | | HEM | 6 | 12.7 | 1/2 | 3 | 11 | 7/16 | 76 | 3 | R32-76BRTDC-4082 | 44799 |
| | | | | | | 1 | 9.5 | 3/8 | | | | |
| 14 | | HEM | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 89 | 3-1/2 | R32-89BRTDC-3895 | 41192 |
| | | | | | | 2 | 9.5 | 3/8 | | | | |
| | | CON | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 89 | 3-1/2 | R32-89BRTDCC-3000 | 41185 |
| | | | | | | 2 | 9.5 | 3/8 | | | | |

| XR32 1-1/4" ROPE THREAD (ROCKMORE XR32 THREAD SYSTEM) | | | | | | | | | | | | |
|---|-----------|--------------------|------------------|----|-------|------------------|----|----------|----|-------------|-----------------|---------|
| NO. | B3 DESIGN | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 1 | | HEM | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 45 | 1-3/4 | XR32-45B3-2518 | 44269 |
| | | BAL | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 45 | 1-3/4 | XR32-45B3B-2448 | 44270 |
| 2 | | HEM | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 45 | 1-3/4 | XR32-45B6-3062 | 44244 |
| | | BAL | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 45 | 1-3/4 | XR32-45B6B-3198 | 44245 |
| | | HEM | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 48 | 1-7/8 | XR32-48B6-3411 | 44184 |
| | | BAL | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 48 | 1-7/8 | XR32-48B6B-3410 | 44185 |
| | | | | | | | | | | | | |


CARBIDE PROFILE DESIGNS




Hemispherical




MULTIPOINT
Hemispherical MultiPoint




(Semi) Ballistic



MULTIPOINT
(Semi) Ballistic MultiPoint



CrownPoint



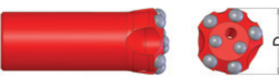
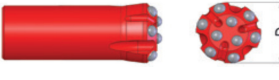
Conical

HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



R35 1-3/8" ROPE THREAD

| NO. | DESIGN | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|------|-------|------------------|-----|----------|----|-------------|-----------------|---------|
| | | DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 1 | B2 DESIGN  1 FRONT FLUSHING HOLE | HEM | 5 | 11 | 7/16 | 2 | 9 | 11/32 | 48 | 1-7/8 | R35-48B2-3485 | 44454 |
| | | BAL | 5 | 11 | 7/16 | 2 | 9 | 11/32 | 48 | 1-7/8 | R35-48B2B-3701 | 44123 |
| | | HEM | 5 | 12.7 | 1/2 | 2 | 9.5 | 3/8 | 51 | 2 | R35-51B2-1934 | 44455 |
| | | BAL | 5 | 12.7 | 1/2 | 2 | 9.5 | 3/8 | 51 | 2 | R35-51B2B-1894 | 44268 |
| 2 | B3 DESIGN  3 FRONT FLUSHING HOLES | BAL | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 45 | 1-3/4 | R35-45B3B-3527 | 44151 |
| | | HEM | 6 | 9 | 11/32 | 3 | 9 | 11/32 | 48 | 1-7/8 | R35-48B3-1574 | 44833 |
| | | BAL | 6 | 9 | 11/32 | 3 | 9 | 11/32 | 48 | 1-7/8 | R35-48B3B-1662 | 44911 |
| | | BAL | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 48 | 1-7/8 | R35-48B3B-2129 | 44381 |
| | | HEM | 6 | 10 | 13/32 | 3 | 9.5 | 3/8 | 51 | 2 | R35-51B3-1576 | 44834 |
| | | BAL | 6 | 10 | 13/32 | 3 | 9.5 | 3/8 | 51 | 2 | R35-51B3B-1671 | 44913 |
| | | BAL | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 57 | 2-1/4 | R35-57B3B-4083 | 44479 |
| | | | | | | | | | | | | |
| 3 | B6 DESIGN  3 FRONT FLUSHING HOLES | BAL | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 45 | 1-3/4 | R35-45B6B-3505 | 44159 |
| | | HEM | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 48 | 1-7/8 | R35-48B6-3483 | 44171 |
| | | CP | 6 | 10 | 13/32 | 3 | 8 | 5/16 | 48 | 1-7/8 | R35-48B6CP-3121 | 44240 |
| | | | | | | | | | | | | |

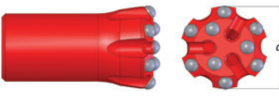
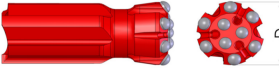
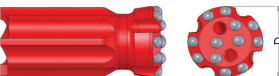
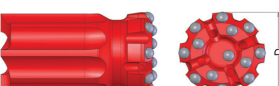
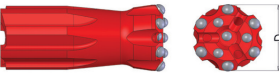
CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



| T35 1-3/8" | | | | | | | | | | | | |
|------------------------|---|--------------------|------------------|----|-------|------------------|-------|----------|----|-------------|-------------------|---------|
| NO. | B3 | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 1 |  | HEM | 6 | 10 | 13/32 | 3 | 9.5 | 3/8 | 54 | 2-1/8 | T35-54B3-3560 | 41140 |
| | | BAL | 6 | 10 | 13/32 | 3 | 9.5 | 3/8 | 54 | 2-1/8 | T35-54B3B-4084 | 41141 |
| | | HEM | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 57 | 2-1/4 | T35-57B3-3558 | 41144 |
| | | BAL | 6 | 11 | 7/16 | 3 | 10 | 13/32 | 57 | 2-1/4 | T35-57B3B-4085 | 41145 |
| 3 FRONT FLUSHING HOLES | | | | | | | | | | | | |
| NO. | FLAT FACE - RETRAC | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 2 |  | HEM | 6 | 10 | 13/32 | 3 | 9.5 | 3/8 | 54 | 2-1/8 | T35-54BFRT-3561 | 41142 |
| | | BAL | 6 | 10 | 13/32 | 3 | 9.5 | 3/8 | 54 | 2-1/8 | T35-54BFRTB-4041 | 41143 |
| | | HEM | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 57 | 2-1/4 | T35-57BFRT-3559 | 41146 |
| | | BAL | 6 | 11 | 7/16 | 3 | 10 | 13/32 | 57 | 2-1/4 | T35-57BFRTB-4042 | 41147 |
| 3 FRONT FLUSHING HOLES | | | | | | | | | | | | |
| NO. | FLAT FACE - RETRAC | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 3 |  | BAL | 8 | 10 | 13/32 | 4 | 10 | 13/32 | 64 | 2-1/2 | T35-64BFRTB-4314 | 16011 |
| 2 FRONT FLUSHING HOLES | | | | | | | | | | | | |
| NO. | DROP CENTER - RETRAC | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 4 |  | BAL | 8 | 11 | 7/16 | 4 | 10 | 13/32 | 76 | 3 | T35-76BRTDCB-4315 | 16013 |
| | | | | | | 1 | 10 | 13/32 | | | | |
| 3 FRONT FLUSHING HOLES | | | | | | | | | | | | |
| NO. | DROP CENTER - XTRAC | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 5 |  | HEM | 6 | 10 | 13/32 | 3 | 9 | 11/32 | 60 | 2-3/8 | T35-60BRTDC-4273 | 16081 |
| | | | | | 1 | 9 | 11/32 | | | | | |
| 3 FRONT FLUSHING HOLES | | | | | | | | | | | | |

CARBIDE PROFILE DESIGNS




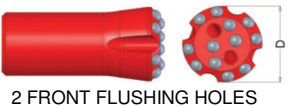
HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

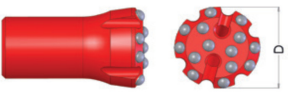
THREADED BITS

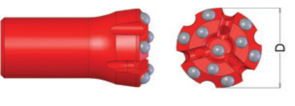


R38 1-1/2" ROPE THREAD

| NO. | X MULTI - USE  1 FRONT FLUSHING HOLE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | |
|-----|---|--------------------|-------|------|-------|-----|-------|----------|-----|----------------|---------|
| | | W | | | H | | | D | | USA | AUSTRIA |
| | | mm | In. | mm | In. | mm | In. | mm | In. | | |
| 1 | | 12 | 15/32 | 20.6 | 13/16 | 64 | 2-1/2 | | | R38-64X-352 | 49653 |
| | | 12.7 | 1/2 | 25 | 1 | 70 | 2-3/4 | | | R38-70XHD-422 | 49621 |
| | | 12.7 | 1/2 | 25 | 1 | 76 | 3 | | | R38-76XHD-427 | 49622 |
| | | 12.7 | 1/2 | 25 | 1 | 89 | 3-1/2 | | | R38-89XHD-425 | 49623 |
| | | 16 | 5/8 | 25 | 1 | 102 | 4 | | | R38-102XHD-426 | 49663 |

| NO. | FLAT FACE  2 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|----|-------|------------------|----|----------|----|-------------|----------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 2 | | HEM | 8 | 10 | 13/32 | 4 | 10 | 13/32 | 64 | 2-1/2 | R38-64BF-747 | 44687 |
| | | BAL | 8 | 10 | 13/32 | 4 | 10 | 13/32 | 64 | 2-1/2 | R38-64BFB-1552 | 44876 |

| NO. | FLAT FACE  2 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|------|------|------------------|------|----------|-----|-------------|-----------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 3 | | HEM | 8 | 11 | 7/16 | 6 | 11 | 7/16 | 76 | 3 | R38-76BF-1436 | 44682 |
| | | BAL | 8 | 11 | 7/16 | 6 | 11 | 7/16 | 76 | 3 | R38-76BFB-1553 | 44877 |
| | | HEM | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | R38-89BF-1554 | 44508 |
| | | BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | R38-89BFB-1555 | 44878 |
| | | HEM | 8 | 14 | 9/16 | 6 | 14 | 9/16 | 102 | 4 | R38-102BF-1385 | 44630 |
| | | BAL | 8 | 14 | 9/16 | 6 | 14 | 9/16 | 102 | 4 | R38-102BFB-1556 | 44879 |

| NO. | DROP CENTER  3 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|------|-------|------------------|------|----------|----|-------------|-----------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 4 | | HEM | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 64 | 2-1/2 | R38-64BDC-1557 | 44880 |
| | | BAL | 6 | 10 | 13/32 | 1 | 9 | 11/32 | 64 | 2-1/2 | R38-64BDCB-1558 | 44881 |
| | | HEM | 6 | 11 | 7/16 | 3 | 11 | 7/16 | 70 | 2-3/4 | R38-70BDC-181 | 44575 |
| | | BAL | 6 | 11 | 7/16 | 1 | 9.5 | 3/8 | 70 | 2-3/4 | R38-70BDCB-933 | 44576 |
| | | HEM | 6 | 12.7 | 1/2 | 3 | 11 | 7/16 | 76 | 3 | R38-76BDC-429 | 44559 |
| | | BAL | 6 | 12.7 | 1/2 | 1 | 9.5 | 3/8 | 76 | 3 | R38-76BDCB-776 | 44560 |
| | | HEM | 6 | 14 | 9/16 | 3 | 12.7 | 1/2 | 89 | 3-1/2 | R38-89BDC-905 | 44561 |
| | | BAL | 6 | 14 | 9/16 | 2 | 9.5 | 3/8 | 89 | 3-1/2 | R38-89BDCB-872 | 44562 |
| | | BAL | 6 | 14 | 9/16 | 3 | 12.7 | 1/2 | 89 | 3-1/2 | R38-89BDCB-872 | 44562 |
| | | BAL | 6 | 14 | 9/16 | 2 | 9.5 | 3/8 | 89 | 3-1/2 | R38-89BDCB-872 | 44562 |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

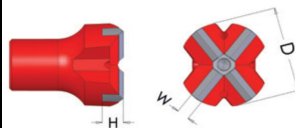
THREADED BITS

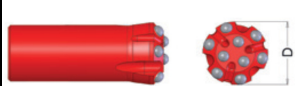



T38 1-1/2"

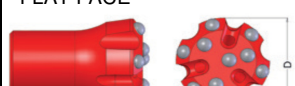
These bits are available optionally in XT38 thread for use in Rockmore's Vector Rod System.





| NO. | X MULTI - USE  1 FRONT FLUSHING HOLE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | |
|-----|---|--------------------|-------|------|-------|-----|-------|----------------|-------|-------------|---------|
| | | W | | | H | | | D | | USA | AUSTRIA |
| | | mm | In. | mm | In. | mm | In. | mm | In. | | |
| 1 | | 12 | 15/32 | 20.6 | 13/16 | 64 | 2-1/2 | T38-64X-215 | 49644 | | |
| | | 12.7 | 1/2 | 25 | 1 | 70 | 2-3/4 | T38-70XHD-152 | 49627 | | |
| | | 12.7 | 1/2 | 25 | 1 | 76 | 3 | T38-76XHD-154 | 49628 | | |
| | | 12.7 | 1/2 | 25 | 1 | 89 | 3-1/2 | T38-89XHD-155 | 49629 | | |
| | | 16 | 5/8 | 25 | 1 | 102 | 4 | T38-102XHD-837 | 49689 | | |


| NO. | B3 DESIGN  3 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|------|-------|------------------|----|----------|----|-------------|----------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 2 | | HEM | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 57 | 2-1/4 | T38-57B3-1563 | 44884 |
| | | BAL | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 57 | 2-1/4 | T38-57B3B-1564 | 44885 |
| | | HEM | 6 | 11 | 7/16 | 3 | 11 | 7/16 | 64 | 2-1/2 | T38-64B3-1470 | 44805 |
| | | HEM | 6 | 12.7 | 1/2 | 3 | 11 | 7/16 | 64 | 2-1/2 | T38-64B3-2383 | 44321 |
| | | BAL | 6 | 11 | 7/16 | 3 | 11 | 7/16 | 64 | 2-1/2 | T38-64B3B-1565 | 44886 |

| NO. | FLAT FACE  1 FRONT FLUSHING HOLE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|------------------|------|------|------------------|------|----------|----|-------------|----------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 3 | | HEM | 6 | 11 | 7/16 | 3 | 9.5 | 3/8 | 57 | 2-1/4 | T38-57BF-316 | 44842 |
| | | HEM | 6 | 12.7 | 1/2 | 3 | 11 | 7/16 | 64 | 2-1/2 | T38-64BF-692 | 44736 |
| | | CP | 6 | 12.7 | 1/2 | 3 | 11 | 7/16 | 64 | 2-1/2 | T38-64BF-2542 | 41134 |
| | | BAL | 6 | 12.7 | 1/2 | 3 | 12.7 | 1/2 | 64 | 2-1/2 | T38-64BFB-1413 | 44835 |

| NO. | FLAT FACE  3 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|------------------|------|------|------------------|------|----------|----|-------------|----------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 4 | | HEM | 6 | 12.7 | 1/2 | 3 | 12.7 | 1/2 | 76 | 3 | T38-76BF-2396 | 44380 |
| | | BAL | 6 | 12.7 | 1/2 | 3 | 12.7 | 1/2 | 76 | 3 | T38-76BFB-2631 | 44382 |
| | | HEM | 6 | 14 | 9/16 | 4 | 14 | 9/16 | 89 | 3-1/2 | T38-89BF-2633 | 44314 |
| | | BAL | 6 | 14 | 9/16 | 4 | 14 | 9/16 | 89 | 3-1/2 | T38-89BFB-2671 | 44315 |

| NO. | FLAT FACE  1 FRONT FLUSHING HOLE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|------------------|------|-----|------------------|----|----------|----|-------------|----------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 5 | | HEM | 6 | 12.7 | 1/2 | 5 | 11 | 7/16 | 70 | 2-3/4 | T38-70BF-1223 | 44548 |
| | | HEM | 6 | 12.7 | 1/2 | 5 | 11 | 7/16 | 76 | 3 | T38-76BF-1290 | 44506 |
| | | BAL | 6 | 12.7 | 1/2 | 5 | 11 | 7/16 | 76 | 3 | T38-76BFB-1326 | 44658 |
| | | CON | 6 | 12.7 | 1/2 | 5 | 11 | 7/16 | 76 | 3 | T38-76BFC-2169 | 44256 |

| NO. | FLAT FACE  2 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|----|-------|------------------|----|----------|----|-------------|---------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 6 | | HEM | 8 | 10 | 13/32 | 4 | 10 | 13/32 | 64 | 2-1/2 | T38-64BF-020 | 44711 |
| | | BAL | 8 | 10 | 13/32 | 4 | 10 | 13/32 | 64 | 2-1/2 | T38-64BFB-280 | 44710 |
| | | HEM | 8 | 10 | 13/32 | 4 | 10 | 13/32 | 70 | 2-3/4 | T38-70BF-1187 | 44549 |

| NO. | FLAT FACE  4 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|------|-----|------------------|----|----------|----|-------------|---------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 7 | | HEM | 8 | 12.7 | 1/2 | 5 | 10 | 13/32 | 76 | 3 | T38-76BF-3302 | 44131 |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.


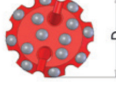

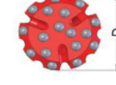

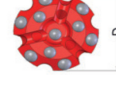
THREADED BITS


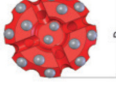


T38 1-1/2" (CONTINUED)

These bits are available optionally in XT38 thread for use in Rockmore's Vector Rod System.



| NO. | FLAT FACE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | | |
|-----|---|--------------------|------------------|------|-------|------------------|-------|----------|-----------------|-------------|------------------|---------|--|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | | |
| 8 |   | HEM | 8 | 11 | 7/16 | 6 | 11 | 7/16 | 76 | 3 | T38-76BF-027 | 44681 | |
| | | BAL | 8 | 11 | 7/16 | 6 | 11 | 7/16 | 76 | 3 | T38-76BFB-846 | 44680 | |
| | | HEM | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | T38-89BF-1292 | 44510 | |
| | | HEM | 8 | 14 | 9/16 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | T38-89BF-2505 | 44134 | |
| | | BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | T38-89BFB-1445 | 44695 | |
| | | HEM | 8 | 14 | 9/16 | 6 | 14 | 9/16 | 102 | 4 | T38-102BF-1361 | 44631 | |
| | | BAL | 8 | 14 | 9/16 | 6 | 14 | 9/16 | 102 | 4 | T38-102BFB-1446 | 44620 | |
| | | HEM | 8 | 16 | 5/8 | 6 | 14 | 9/16 | 115 | 4-1/2 | T38-115BF-1448 | 44790 | |
| | | | | | | | | | | | | | |
| 9 |   | HEM | 9 | 11 | 7/16 | 8 | 10 | 13/32 | 89 | 3-1/2 | T38-89BF-1484 | 44860 | |
| | | BAL | 9 | 11 | 7/16 | 8 | 10 | 13/32 | 89 | 3-1/2 | T38-89BFB-1566 | 44888 | |
| | | HEM | 9 | 12.7 | 1/2 | 8 | 12.7 | 1/2 | 102 | 4 | T38-102BF-1567 | 44889 | |
| | | BAL | 9 | 12.7 | 1/2 | 8 | 12.7 | 1/2 | 102 | 4 | T38-102BFB-1568 | 44890 | |
| | | HEM | 9 | 14 | 9/16 | 9 | 12.7 | 1/2 | 115 | 4-1/2 | T38-115BF-1569 | 44891 | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 10 |   | HEM | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 64 | 2-1/2 | T38-64BDC-1454 | 44518 | |
| | | 1 | | | | 9 | 11/32 | | | | | | |
| | | BAL | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 64 | 2-1/2 | T38-64BDCB-1455 | 44519 | |
| | | 1 | | | | 9 | 11/32 | | | | | | |
| | | HEM | 6 | 11 | 7/16 | 3 | 11 | 7/16 | 70 | 2-3/4 | T38-70BDC-025 | 44520 | |
| | | 1 | | | | 9.5 | 3/8 | | | | | | |
| | | BAL | 6 | 11 | 7/16 | 3 | 11 | 7/16 | 70 | 2-3/4 | T38-70BDCB-656 | 44521 | |
| | | 1 | | | | 9.5 | 3/8 | | | | | | |
| | | HEM | 6 | 12.7 | 1/2 | 3 | 11 | 7/16 | 76 | 3 | T38-76BDC-028 | 44714 | |
| | | 1 | | | | 9.5 | 3/8 | | | | | | |
| | | CP | 6 | 12.7 | 1/2 | 3 | 11 | 7/16 | 76 | 3 | T38-76BDCCP-2420 | 44722 | |
| | | 1 | | | | 9.5 | 3/8 | | | | | | |
| | | BAL | 6 | 12.7 | 1/2 | 3 | 11 | 7/16 | 76 | 3 | T38-76BDCB-1462 | 44859 | |
| | | 1 | | | | 9.5 | 3/8 | | | | | | |
| | | HEM | 6 | 14 | 9/16 | 3 | 12.7 | 1/2 | 89 | 3-1/2 | T38-89BDC-799 | 44522 | |
| 2 | 9.5 | 3/8 | | | | | | | | | | | |
| BAL | 6 | 14 | 9/16 | 3 | 12.7 | 1/2 | 89 | 3-1/2 | T38-89BDCB-1464 | 44523 | | | |
| 2 | | | | 9.5 | 3/8 | | | | | | | | |

| NO. | DROP CENTER | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|------------------|----|------|------------------|-------|----------|-----|-------------|------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 11 |   | HEM | 8 | 11 | 7/16 | 4 | 10 | 13/32 | 76 | 3 | T38-76BDC-1149 | 44604 |
| | | 1 | | | | 10 | 13/32 | | | | | |
| | | BAL | 8 | 11 | 7/16 | 4 | 10 | 13/32 | 76 | 3 | T38-76BDCB-1319 | 44605 |
| | | 1 | | | | 10 | 13/32 | | | | | |
| | | HEM | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 89 | 3-1/2 | T38-89BDC-1143 | 44606 |
| | | 2 | | | | 9.5 | 3/8 | | | | | |
| | | BAL | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 89 | 3-1/2 | T38-89BDCB-1321 | 44607 |
| | | 2 | | | | 9.5 | 3/8 | | | | | |
| | | HEM | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | T38-102BDC-1365 | 44608 |
| | | 3 | | | | 11 | 7/16 | | | | | |
| | | BAL | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | T38-102BDCB-1450 | 44609 |
| | | 3 | | | | 11 | 7/16 | | | | | |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



T38 1-1/2" (CONTINUED)

These bits are available optionally in XT38 thread for use in Rockmore's Vector Rod System.



| NO. | DESCRIPTION | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | | |
|-----|--|--------------------|------------------|------|-------|------------------|------|----------|-----|-------------|-------------------|---------|--|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | | |
| 12 | FLAT FACE - RETRAC 1 FRONT FLUSHING HOLE | HEM | 6 | 11 | 7/16 | 3 | 9.5 | 3/8 | 57 | 2-1/4 | T38-57BFRT-2401 | 44035 | |
| | | HEM | 6 | 12.7 | 1/2 | 3 | 11 | 7/16 | 64 | 2-1/2 | T38-64BFRT-2145 | 41175 | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 13 | FLAT FACE - RETRAC 3 FRONT FLUSHING HOLES | HEM | 6 | 12.7 | 1/2 | 3 | 11 | 7/16 | 64 | 2-1/2 | T38-64BFRT-3119 | 44153 | |
| | | HEM | 6 | 12.7 | 1/2 | 3 | 12.7 | 1/2 | 76 | 3 | T38-76BFRT-2672 | 44316 | |
| | | BAL | 6 | 12.7 | 1/2 | 3 | 12.7 | 1/2 | 76 | 3 | T38-76BFRTB-2673 | 44317 | |
| | | HEM | 6 | 14 | 9/16 | 4 | 14 | 9/16 | 89 | 3-1/2 | T38-89BFRT-2674 | 44318 | |
| | | BAL | 6 | 14 | 9/16 | 4 | 14 | 9/16 | 89 | 3-1/2 | T38-89BFRTB-2675 | 44319 | |
| 14 | FLAT FACE - RETRAC 2 FRONT FLUSHING HOLES | HEM | 8 | 10 | 13/32 | 4 | 10 | 13/32 | 64 | 2-1/2 | T38-64BFRT-2126 | 44686 | |
| | | BAL | 8 | 10 | 13/32 | 4 | 10 | 13/32 | 64 | 2-1/2 | T38-64BFRTB-2108 | 44669 | |
| | | | | | | | | | | | | | |
| 15 | FLAT FACE - RETRAC 4 FRONT FLUSHING HOLES | HEM | 8 | 12.7 | 1/2 | 5 | 10 | 13/32 | 76 | 3 | T38-76BFRT-3274 | 44132 | |
| | | | | | | | | | | | | | |
| 16 | FLAT FACE - RETRAC 2 FRONT FLUSHING HOLES | HEM | 8 | 11 | 7/16 | 6 | 11 | 7/16 | 76 | 3 | T38-76BFRT-2187 | 44685 | |
| | | BAL | 8 | 11 | 7/16 | 6 | 11 | 7/16 | 76 | 3 | T38-76BFRTB-1925 | 44655 | |
| | | HEM | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | T38-89BFRT-2114 | 41129 | |
| | | HEM | 8 | 14 | 9/16 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | T38-89BFRT-3611 | 44135 | |
| | | BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | T38-89BFRTB-2121 | 44892 | |
| | | HEM | 8 | 14 | 9/16 | 6 | 14 | 9/16 | 102 | 4 | T38-102BFRT-2244 | 44893 | |
| | | BAL | 8 | 14 | 9/16 | 6 | 14 | 9/16 | 102 | 4 | T38-102BFRTB-2638 | 44894 | |
| 17 | DROP CENTER - RETRAC 3 FRONT FLUSHING HOLES | HEM | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 64 | 2-1/2 | T38-64BRTDC-2107 | 44850 | |
| | | | | | | 1 | 9 | 11/32 | | | | | |
| | | BAL | 6 | 10 | 13/32 | 3 | 10 | 13/32 | 64 | 2-1/2 | T38-64BRTDCB-194 | 44846 | |
| | | | | | | 1 | 9 | 11/32 | | | | | |
| | | HEM | 6 | 11 | 7/16 | 3 | 11 | 7/16 | 70 | 2-3/4 | T38-70BRTDC-2639 | 44895 | |
| | | | | | | 1 | 9.5 | 3/8 | | | | | |
| | | BAL | 6 | 11 | 7/16 | 3 | 11 | 7/16 | 70 | 2-3/4 | T38-70BRTDCB-2640 | 44896 | |
| | | | | | | 1 | 9.5 | 3/8 | | | | | |
| | | HEM | 6 | 12.7 | 1/2 | 3 | 11 | 7/16 | 76 | 3 | T38-76BRTDC-2641 | 44600 | |
| | | | | | | 1 | 9.5 | 3/8 | | | | | |
| | | BAL | 6 | 12.7 | 1/2 | 3 | 11 | 7/16 | 76 | 3 | T38-76BRTDCB-2475 | 44601 | |
| | | | | | | 1 | 9.5 | 3/8 | | | | | |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

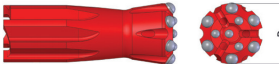

THREADED BITS



T38 1-1/2" (CONTINUED)

These bits are available optionally in XT38 thread for use in Rockmore's Vector Rod System.



| NO. | DESCRIPTION | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|------------------|------|------|------------------|------|----------|-----|-------------|--------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 18 | DROP CENTER - XTRAC  3 FRONT FLUSHING HOLES | HEM | 6 | 12.7 | 1/2 | 3 | 9 | 11/32 | 64 | 2-1/2 | T38-64BRTDC-4185 | 16082 |
| | | | | | | 1 | 9 | 11/32 | | | | |
| | | | | | | | | | | | | |
| 19 | DROP CENTER - RETRAC  4 FRONT FLUSHING HOLES | HEM | 8 | 11 | 7/16 | 4 | 10 | 13/32 | 76 | 3 | T38-76BRTDC-2142 | 44751 |
| | | BAL | 8 | 11 | 7/16 | 4 | 10 | 13/32 | 76 | 3 | T38-76BRTDCB-865 | 44828 |
| | | HEM | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 89 | 3-1/2 | T38-89BRTDC-2642 | 44897 |
| | | BAL | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 89 | 3-1/2 | T38-89BRTDCB-2643 | 44898 |
| | | HEM | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | T38-102BRTDC-2532 | 44899 |
| | | BAL | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | T38-102BRTDCB-2644 | 44900 |
| | | | | | | 3 | 11 | 7/16 | | | | |
| | | | | | | 2 | 9.5 | 3/8 | | | | |
| | | | | | | 2 | 9.5 | 3/8 | | | | |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



T45 1-3/4"

These bits are available optionally in XT45 thread for use in Rockmore's Vector Rod System.



| NO. | X MULTI - USE | CARBIDE DIMENSIONS | | | | DIAMETER | | PART NUMBER | | | | |
|-----|---------------|--------------------|-----|------------------|------|----------|-------|----------------|---------|-------|-----------------|-------|
| | | W | | H | | D | | USA | AUSTRIA | | | |
| | | mm | In. | mm | In. | mm | In. | | | | | |
| 1 | | 12.7 | 1/2 | 25 | 1 | 76 | 3 | T45-76XHD-312 | 49634 | | | |
| | | 12.7 | 1/2 | 25 | 1 | 89 | 3-1/2 | T45-89XHD-353 | 49635 | | | |
| | | 16 | 5/8 | 25 | 1 | 102 | 4 | T45-102XHD-305 | 49642 | | | |
| NO. | FLAT FACE | CARBIDE DIMENSIONS | | | | DIAMETER | | PART NUMBER | | | | |
| | | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | | |
| | | DESIGN | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 2 | | HEM | 6 | 12.7 | 1/2 | 3 | 12.7 | 1/2 | 76 | 3 | T45-76BF-2395 | 44341 |
| | | BAL | 6 | 12.7 | 1/2 | 3 | 12.7 | 1/2 | 76 | 3 | T45-76BFB-2632 | 44320 |
| | | HEM | 6 | 14 | 9/16 | 4 | 14 | 9/16 | 89 | 3-1/2 | T45-89BF-1947 | 44401 |
| | | BAL | 6 | 14 | 9/16 | 4 | 14 | 9/16 | 89 | 3-1/2 | T45-89BFB-1948 | 44402 |
| NO. | FLAT FACE | CARBIDE DIMENSIONS | | | | DIAMETER | | PART NUMBER | | | | |
| | | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | | |
| | | DESIGN | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 3 | | HEM | 8 | 12.7 | 1/2 | 5 | 10 | 13/32 | 76 | 3 | T45-76BF-3267 | 44220 |
| | | BAL | 8 | 12.7 | 1/2 | 5 | 10 | 13/32 | 76 | 3 | T45-76BFB-3850 | 41156 |
| | | BAL | 8 | 12.7 | 1/2 | 5 | 12.7 | 1/2 | 89 | 3-1/2 | T45-89BFB-3614 | 44040 |
| NO. | FLAT FACE | CARBIDE DIMENSIONS | | | | DIAMETER | | PART NUMBER | | | | |
| | | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | | |
| | | DESIGN | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 4 | | HEM | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | T45-89BF-3959 | 41157 |
| | | HEM | 8 | 14 | 9/16 | 6 | 12.7 | 1/2 | 102 | 4 | T45-102BF-4006 | 44016 |
| NO. | FLAT FACE | CARBIDE DIMENSIONS | | | | DIAMETER | | PART NUMBER | | | | |
| | | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | | |
| | | DESIGN | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 5 | | HEM | 8 | 11 | 7/16 | 6 | 11 | 7/16 | 76 | 3 | T45-76BF-040 | 44693 |
| | | BAL | 8 | 11 | 7/16 | 6 | 11 | 7/16 | 76 | 3 | T45-76BFB-274 | 44774 |
| | | HEM | 8 | 12.7 | 1/2 | 6 | 11 | 7/16 | 82 | 3-1/4 | T45-82BF-2797 | 44456 |
| | | BAL | 8 | 12.7 | 1/2 | 6 | 11 | 7/16 | 82 | 3-1/4 | T45-82BFB-2124 | 44388 |
| | | HEM | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | T45-89BF-1157 | 44553 |
| | | HEM | 8 | 14 | 9/16 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | T45-89BF-2585 | 44696 |
| | | BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | T45-89BFB-1327 | 44663 |
| | | HEM | 8 | 14 | 9/16 | 6 | 14 | 9/16 | 102 | 4 | T45-102BF-1057 | 44635 |
| | | BAL | 8 | 14 | 9/16 | 6 | 14 | 9/16 | 102 | 4 | T45-102BFB-1447 | 44634 |
| | | HEM | 8 | 16 | 5/8 | 6 | 14 | 9/16 | 115 | 4-1/2 | T45-115BF-1449 | 44557 |
| | | HEM | 8 | 16 | 5/8 | 8 | 14 | 9/16 | 127 | 5 | T45-127BF-328 | 44773 |
| | | BAL | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 152 | 6 | T45-152BFB-3278 | 45761 |
| NO. | FLAT FACE | CARBIDE DIMENSIONS | | | | DIAMETER | | PART NUMBER | | | | |
| | | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | | |
| | | DESIGN | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 6 | | HEM | 9 | 11 | 7/16 | 8 | 10 | 13/32 | 89 | 3-1/2 | T45-89BF-1459 | 44853 |
| | | BAL | 9 | 11 | 7/16 | 8 | 10 | 13/32 | 89 | 3-1/2 | T45-89BFB-1580 | 44854 |
| | | HEM | 9 | 12.7 | 1/2 | 8 | 12.7 | 1/2 | 102 | 4 | T45-102BF-1460 | 44861 |
| | | BAL | 9 | 12.7 | 1/2 | 8 | 12.7 | 1/2 | 102 | 4 | T45-102BFB-1581 | 44862 |
| | | HEM | 9 | 14 | 9/16 | 9 | 12.7 | 1/2 | 115 | 4-1/2 | T45-115BF-1582 | 44901 |
| | | HEM | 9 | 14 | 9/16 | 9 | 14 | 9/16 | 127 | 5 | T45-127BF-1583 | 44902 |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

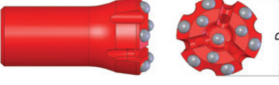
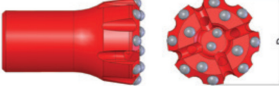

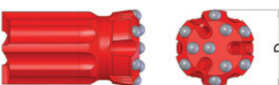
THREADED BITS



T45 1-3/4" (CONTINUED)

These bits are available optionally in XT45 thread for use in Rockmore's Vector Rod System.



| NO. | DROP CENTER | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | | | |
|-----|---|--------------------|---|------|------|------------------|------|----------|-----|-------------|------------------|---------|----------------|-------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA | | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | | | |
| 7 |  | HEM | 6 | 11 | 7/16 | 3 | 11 | 7/16 | 70 | 2-3/4 | T45-70BDC-932 | 44591 | | |
| | | BAL | 6 | 11 | 7/16 | 3 | 11 | 7/16 | 70 | 2-3/4 | T45-70BDCB-175 | 44592 | | |
| | | HEM | 6 | 12.7 | 1/2 | 3 | 11 | 7/16 | 76 | 3 | T45-76BDC-042 | 44744 | | |
| | | BAL | 6 | 12.7 | 1/2 | 3 | 11 | 7/16 | 76 | 3 | T45-76BDCB-1463 | 44781 | | |
| | | HEM | 6 | 14 | 9/16 | 3 | 12.7 | 1/2 | 89 | 3-1/2 | T45-89BDC-048 | 44593 | | |
| | | BAL | 6 | 14 | 9/16 | 3 | 12.7 | 1/2 | 89 | 3-1/2 | T45-89BDCB-1465 | 44594 | | |
| 8 |  | HEM | 8 | 11 | 7/16 | 4 | 10 | 13/32 | 76 | 3 | T45-76BDC-1148 | 44863 | | |
| | | BAL | 8 | 11 | 7/16 | 4 | 10 | 13/32 | 76 | 3 | T45-76BDCB-1316 | 44864 | | |
| | | HEM | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 83 | 3-1/4 | T45-83BDC-2938 | 44260 | | |
| | | BAL | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 83 | 3-1/4 | T45-83BDCB-2939 | 44261 | | |
| | | HEM | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 89 | 3-1/2 | T45-89BDC-1142 | 44818 | | |
| | | HEM | 8 | 12.7 | 1/2 | 4 | 12.7 | 1/2 | 89 | 3-1/2 | T45-89BDC-3987 | 44008 | | |
| | | BAL | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 89 | 3-1/2 | T45-89BDCB-1318 | 44819 | | |
| | | BAL | 8 | 12.7 | 1/2 | 4 | 12.7 | 1/2 | 89 | 3-1/2 | T45-89BDCB-3995 | 44004 | | |
| | | HEM | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | T45-102BDC-1131 | 44820 | | |
| | | BAL | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | T45-102BDCB-1451 | 44865 | | |
| | | HEM | 8 | 14 | 9/16 | 4 | 14 | 9/16 | 115 | 4-1/2 | T45-115BDC-329 | 44866 | | |
| | | 9 |  | HEM | 6 | 11 | 7/16 | 5 | 11 | 7/16 | 70 | 2-3/4 | T45-70BSD-597 | 44524 |
| | | | | BAL | 6 | 11 | 7/16 | 5 | 11 | 7/16 | 70 | 2-3/4 | T45-70BSDB-977 | 44525 |
| | | | | HEM | 6 | 11 | 7/16 | 5 | 11 | 7/16 | 76 | 3 | T45-76BSD-338 | 44526 |
| BAL | 6 | | | 11 | 7/16 | 5 | 11 | 7/16 | 76 | 3 | T45-76BSDB-271 | 44998 | | |
| HEM | 6 | | | 14 | 9/16 | 5 | 12.7 | 1/2 | 89 | 3-1/2 | T45-89BSD-307 | 44595 | | |
| BAL | 6 | | | 14 | 9/16 | 5 | 12.7 | 1/2 | 89 | 3-1/2 | T45-89BSDB-785 | 44596 | | |
| 10 |  | HEM | 6 | 12.7 | 1/2 | 3 | 12.7 | 1/2 | 76 | 3 | T45-76BFRT-2676 | 44311 | | |
| | | BAL | 6 | 12.7 | 1/2 | 3 | 12.7 | 1/2 | 76 | 3 | T45-76BFRTB-2677 | 44312 | | |
| | | HEM | 6 | 14 | 9/16 | 4 | 14 | 9/16 | 89 | 3-1/2 | T45-89BFRT-2645 | 44403 | | |
| | | BAL | 6 | 14 | 9/16 | 4 | 14 | 9/16 | 89 | 3-1/2 | T45-89BFRTB-2646 | 44404 | | |
| | | | | | | | | | | | | | | |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

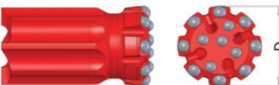
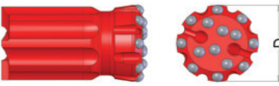

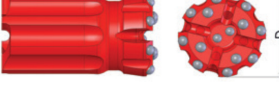
THREADED BITS



T45 1-3/4" (CONTINUED)

These bits are available optionally in XT45 thread for use in Rockmore's Vector Rod System.



| NO. | FLAT FACE - RETRAC | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | | | |
|-----|---|--------------------|--|------|------|------------------|------|----------|-----|-------------|-------------------|---------|-------------------|-------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA | | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | | | |
| 11 |  | HEM | 8 | 12.7 | 1/2 | 5 | 10 | 13/32 | 76 | 3 | T45-76BFRT-3282 | 44133 | | |
| | | HEM | 8 | 12.7 | 1/2 | 5 | 12.7 | 1/2 | 89 | 3-1/2 | T45-89BFRT-4088 | 44144 | | |
| | | | | | | | | | | | | | | |
| 12 |  | HEM | 8 | 11 | 7/16 | 6 | 11 | 7/16 | 76 | 3 | T45-76BFRT-1923 | 44684 | | |
| | | BAL | 8 | 11 | 7/16 | 6 | 11 | 7/16 | 76 | 3 | T45-76BFRTB-1924 | 44692 | | |
| | | BAL | 8 | 12.7 | 1/2 | 6 | 11 | 7/16 | 82 | 3-1/4 | T45-82BFRTB-2246 | 44384 | | |
| | | CON | 8 | 12.7 | 1/2 | 6 | 11 | 7/16 | 82 | 3-1/4 | T45-82BFRTC-4087 | 44331 | | |
| | | HEM | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | T45-89BFRT-2097 | 44622 | | |
| | | HEM | 8 | 14 | 9/16 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | T45-89BFRT-2577 | 44399 | | |
| | | BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | T45-89BFRTB-2043 | 44654 | | |
| | | HEM | 8 | 14 | 9/16 | 6 | 14 | 9/16 | 102 | 4 | T45-102BFRT-2045 | 44641 | | |
| | | BAL | 8 | 14 | 9/16 | 6 | 14 | 9/16 | 102 | 4 | T45-102BFRTB-327 | 44657 | | |
| | | HEM | 8 | 16 | 5/8 | 6 | 14 | 9/16 | 115 | 4-1/2 | T45-115BFRT-2546 | 44554 | | |
| | | HEM | 8 | 16 | 5/8 | 8 | 14 | 9/16 | 127 | 5 | T45-127BFRT-2647 | 44903 | | |
| | | 13 |  | HEM | 6 | 11 | 7/16 | 3 | 11 | 7/16 | 70 | 2-3/4 | T45-70BRTDC-2648 | 44904 |
| | | | | BAL | 6 | 11 | 7/16 | 3 | 11 | 7/16 | 70 | 2-3/4 | T45-70BRTDCB-2649 | 44905 |
| | | | | HEM | 6 | 12.7 | 1/2 | 3 | 11 | 7/16 | 76 | 3 | T45-76BRTDC-2175 | 44552 |
| BAL | 6 | | | 12.7 | 1/2 | 3 | 11 | 7/16 | 76 | 3 | T45-76BRTDCB-2411 | 44906 | | |
| HEM | 6 | | | 14 | 9/16 | 3 | 12.7 | 1/2 | 89 | 3-1/2 | T45-89BRTDC-2241 | 44973 | | |
| BAL | 6 | | | 14 | 9/16 | 3 | 12.7 | 1/2 | 89 | 3-1/2 | T45-89BRTDCB-2313 | 44974 | | |
| HEM | 6 | | | 11 | 7/16 | 1 | 9.5 | 3/8 | | | | | | |
| BAL | 6 | | | 11 | 7/16 | 1 | 9.5 | 3/8 | | | | | | |
| HEM | 6 | | | 12.7 | 1/2 | 1 | 9.5 | 3/8 | | | | | | |
| BAL | 6 | | | 12.7 | 1/2 | 1 | 9.5 | 3/8 | | | | | | |
| HEM | 6 | | | 14 | 9/16 | 2 | 9.5 | 3/8 | | | | | | |
| BAL | 6 | | | 14 | 9/16 | 2 | 9.5 | 3/8 | | | | | | |
| 14 |  | HEM | 8 | 11 | 7/16 | 4 | 10 | 13/32 | 76 | 3 | T45-76BRTDC-1926 | 44814 | | |
| | | BAL | 8 | 11 | 7/16 | 4 | 10 | 13/32 | 76 | 3 | T45-76BRTDCB-862 | 44822 | | |
| | | HEM | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 89 | 3-1/2 | T45-89BRTDC-1927 | 44801 | | |
| | | HEM | 8 | 12.7 | 1/2 | 4 | 12.7 | 1/2 | 89 | 3-1/2 | T45-89BRTDC-4001 | 41135 | | |
| | | BAL | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 89 | 3-1/2 | T45-89BRTDCB-861 | 44745 | | |
| | | BAL | 8 | 12.7 | 1/2 | 4 | 12.7 | 1/2 | 89 | 3-1/2 | T45-89BRTDCB-4002 | 41136 | | |
| | | HEM | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | T45-102BRTDC-2484 | 44907 | | |
| | | BAL | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | T45-102BRTDCB-21 | 44823 | | |
| | | HEM | 8 | 14 | 9/16 | 4 | 14 | 9/16 | 115 | 4-1/2 | T45-115BRTDC-2650 | 44556 | | |
| | | HEM | 8 | 16 | 5/8 | 4 | 16 | 5/8 | 127 | 5 | T45-127BRTDC-2651 | 44995 | | |
| | | HEM | 8 | 11 | 7/16 | 1 | 10 | 13/32 | | | | | | |
| | | BAL | 8 | 11 | 7/16 | 1 | 10 | 13/32 | | | | | | |
| | | HEM | 8 | 11 | 7/16 | 2 | 9.5 | 3/8 | | | | | | |
| | | BAL | 8 | 12.7 | 1/2 | 2 | 9.5 | 3/8 | | | | | | |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

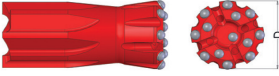
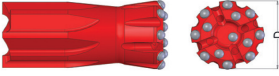
THREADED BITS



T45 1-3/4" (CONTINUED)

These bits are available optionally in XT45 thread for use in Rockmore's Vector Rod System.



| NO. | DROP CENTER - XTRAC  4 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|------|------|------------------|------|----------|----|-------------|-------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 15 |  | HEM | 8 | 11 | 7/16 | 4 | 10 | 13/32 | 76 | 3 | T45-76BRTDC-4214 | 16083 |
| | | BAL | 8 | 11 | 7/16 | 4 | 10 | 13/32 | 76 | 3 | T45-76BRTDCB-4052 | 41197 |
| | | HEM | 8 | 12.7 | 1/2 | 4 | 12.7 | 1/2 | 89 | 3-1/2 | T45-89BRTDC-3919 | 16084 |
| | | BAL | 8 | 12.7 | 1/2 | 4 | 12.7 | 1/2 | 89 | 3-1/2 | T45-89BRTDCB-3989 | 41198 |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

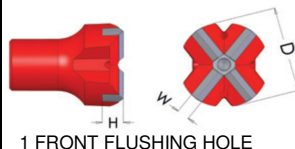
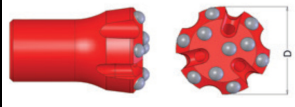
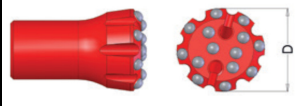
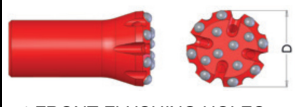
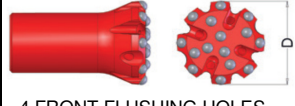
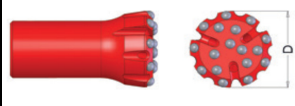
THREADED BITS



T51 2"

These bits are available optionally in XT51 thread for use in Rockmore's Vector Rod System.



| NO. | X MULTI - USE  1 FRONT FLUSHING HOLE | CARBIDE DIMENSIONS | | | | DIAMETER | | PART NUMBER | | | | | |
|----------------|---|--|--|--------------------|------------------|------------------|----------|----------------|-------------|----------------|-----------------|-----------------|-------|
| | | W | | H | | D | | USA | AUSTRIA | | | | |
| | | mm | In. | mm | In. | mm | In. | | | | | | |
| 1 | | 12.7 | 1/2 | 25 | 1 | 89 | 3-1/2 | T51-89XHD-911 | 49636 | | | | |
| | | 16 | 5/8 | 25 | 1 | 102 | 4 | T51-102XHD-182 | 49693 | | | | |
| | | 16 | 5/8 | 25 | 1 | 115 | 4-1/2 | T51-115XHD-157 | 49694 | | | | |
| NO. | FLAT FACE  3 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | DIAMETER | | PART NUMBER | | | | | |
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | | |
| | | No. | mm | In. | No. | mm | In. | mm | In. | | | | |
| 2 | | HEM | 6 | 14 | 9/16 | 4 | 14 | 9/16 | 89 | 3-1/2 | T51-89BF-1951 | 44405 | |
| | | BAL | 6 | 14 | 9/16 | 4 | 14 | 9/16 | 89 | 3-1/2 | T51-89BFB-1952 | 44406 | |
| | | | | | | | | | | | | | |
| NO. | FLAT FACE  2 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | DIAMETER | | PART NUMBER | | | | | |
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | | |
| | | No. | mm | In. | No. | mm | In. | mm | In. | | | | |
| | | 3 | HEM | 8 | 12.7 | 1/2 | 6 | 11 | 7/16 | 82 | 3-1/4 | T51-82BF-1887 | 44457 |
| | | | BAL | 8 | 12.7 | 1/2 | 6 | 11 | 7/16 | 82 | 3-1/4 | T51-82BFB-2123 | 44389 |
| | | | HEM | 8 | 12.7 | 1/2 | 6 | 11 | 7/16 | 85 | 3-3/8 | T51-85BF-1889 | 44443 |
| | | 3 | BAL | 8 | 12.7 | 1/2 | 6 | 11 | 7/16 | 85 | 3-3/8 | T51-85BFB-2360 | 44343 |
| | | | HEM | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | T51-89BF-1328 | 44638 |
| | | | BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | T51-89BFB-1317 | 44765 |
| | | 3 | CON | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | T51-89BFC-3796 | 44055 |
| | | | HEM | 8 | 14 | 9/16 | 6 | 14 | 9/16 | 102 | 4 | T51-102BF-1330 | 44639 |
| | | | BAL | 8 | 14 | 9/16 | 6 | 14 | 9/16 | 102 | 4 | T51-102BFB-1452 | 44762 |
| | | 3 | HEM | 8 | 16 | 5/8 | 6 | 14 | 9/16 | 115 | 4-1/2 | T51-115BF-1590 | 44640 |
| | | | BAL | 8 | 16 | 5/8 | 6 | 14 | 9/16 | 115 | 4-1/2 | T51-115BFB-1444 | 44558 |
| | | | HEM | 8 | 16 | 5/8 | 8 | 14 | 9/16 | 127 | 5 | T51-127BF-1591 | 44642 |
| 3 | HEM | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 140 | 5-1/2 | T51-140BF-1699 | 44988 | | |
| | NO. | FLAT FACE  4 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | DIAMETER | | PART NUMBER | | | | |
| | | | CARBIDE DESIGN | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | |
| No. | | | mm | In. | No. | mm | In. | mm | In. | | | | |
| 4 | | HEM | 8 | 12.7 | 1/2 | 5 | 12.7 | 1/2 | 89 | 3-1/2 | T51-89BF-3575 | 44017 | |
| | | HEM | 8 | 14 | 9/16 | 6 | 12.7 | 1/2 | 102 | 4 | T51-102BF-1836 | 44467 | |
| | | BAL | 8 | 14 | 9/16 | 6 | 12.7 | 1/2 | 102 | 4 | T51-102BFB-1837 | 44468 | |
| NO. | FLAT FACE  4 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | DIAMETER | | PART NUMBER | | | | | |
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | | |
| | | No. | mm | In. | No. | mm | In. | mm | In. | | | | |
| 5 | | HEM | 8 | 14 | 9/16 | 7 | 14 | 9/16 | 115 | 4-1/2 | T51-115BF-1740 | 44970 | |
| | | BAL | 8 | 14 | 9/16 | 7 | 14 | 9/16 | 115 | 4-1/2 | T51-115BFB-1838 | 44469 | |
| | | HEM | 8 | 16 | 5/8 | 7 | 14 | 9/16 | 121 | 4-3/4 | T51-121BF-4090 | 44250 | |
| 5 | | BAL | 8 | 16 | 5/8 | 7 | 14 | 9/16 | 121 | 4-3/4 | T51-121BFB-4091 | 44251 | |
| | | HEM | 8 | 16 | 5/8 | 8 | 14 | 9/16 | 127 | 5 | T51-127BF-1839 | 44470 | |
| | | NO. | FLAT FACE  3 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | DIAMETER | | PART NUMBER | | | |
| CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | | | |
| No. | mm | | | In. | No. | mm | In. | mm | In. | | | | |
| 6 | | HEM | 9 | 11 | 7/16 | 8 | 10 | 13/32 | 89 | 3-1/2 | T51-89BF-1389 | 44855 | |
| | | BAL | 9 | 11 | 7/16 | 8 | 10 | 13/32 | 89 | 3-1/2 | T51-89BFB-1592 | 44856 | |
| | | HEM | 9 | 12.7 | 1/2 | 8 | 12.7 | 1/2 | 102 | 4 | T51-102BF-1516 | 44857 | |
| 6 | | BAL | 9 | 12.7 | 1/2 | 8 | 12.7 | 1/2 | 102 | 4 | T51-102BFB-1594 | 44858 | |
| | | HEM | 9 | 14 | 9/16 | 9 | 12.7 | 1/2 | 115 | 4-1/2 | T51-115BF-1476 | 44909 | |
| | | HEM | 9 | 14 | 9/16 | 9 | 14 | 9/16 | 127 | 5 | T51-127BF-1477 | 44910 | |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

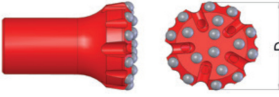
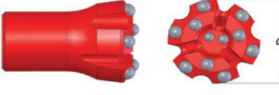
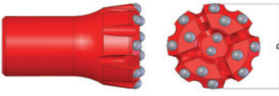
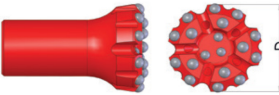
THREADED BITS



T51 2" (CONTINUED)

These bits are available optionally in XT51 thread for use in Rockmore's Vector Rod System.



| NO. | DESCRIPTION | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|------|------|------------------|------|----------|-----|-------------|------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 7 | FLAT FACE, STARFLOW  5 FRONT FLUSHING HOLES | HEM | 10 | 14 | 9/16 | 9 | 12.7 | 1/2 | 115 | 4-1/2 | T51-115BF-3636 | 44080 |
| | | HEM | 10 | 16 | 5/8 | 7 | 16 | 5/8 | 127 | 5 | T51-127BF-3637 | 44081 |
| | | HEM | 10 | 16 | 5/8 | 8 | 16 | 5/8 | 140 | 5-1/2 | T51-140BF-3638 | 44082 |
| | | | | | | | | | | | | |
| 8 | DROP CENTER  3 FRONT FLUSHING HOLES | HEM | 6 | 12.7 | 1/2 | 3 | 11 | 7/16 | 76 | 3 | T51-76BDC-2610 | 44307 |
| | | BAL | 6 | 12.7 | 1/2 | 3 | 11 | 7/16 | 76 | 3 | T51-76BDCB-2621 | 44308 |
| | | HEM | 6 | 12.7 | 1/2 | 3 | 11 | 7/16 | 80 | 3-1/8 | T51-80BDC-255 | 44309 |
| | | BAL | 6 | 12.7 | 1/2 | 3 | 11 | 7/16 | 80 | 3-1/8 | T51-80BDCB-2678 | 44310 |
| | | HEM | 6 | 14 | 9/16 | 3 | 12.7 | 1/2 | 89 | 3-1/2 | T51-89BDC-1597 | 44871 |
| | | BAL | 6 | 14 | 9/16 | 3 | 12.7 | 1/2 | 89 | 3-1/2 | T51-89BDCB-1595 | 44872 |
| 9 | DROP CENTER  4 FRONT FLUSHING HOLES | HEM | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 89 | 3-1/2 | T51-89BDC-1329 | 44760 |
| | | HEM | 8 | 12.7 | 1/2 | 4 | 12.7 | 1/2 | 89 | 3-1/2 | T51-89BDC-3934 | 44007 |
| | | BAL | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 89 | 3-1/2 | T51-89BDCB-1308 | 44759 |
| | | BAL | 8 | 12.7 | 1/2 | 4 | 12.7 | 1/2 | 89 | 3-1/2 | T51-89BDCB-3999 | 44003 |
| | | HEM | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | T51-102BDC-1325 | 44764 |
| | | BAL | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | T51-102BDCB-1305 | 44763 |
| | | HEM | 8 | 14 | 9/16 | 4 | 14 | 9/16 | 115 | 4-1/2 | T51-115BDC-260 | 44610 |
| | | BAL | 8 | 14 | 9/16 | 4 | 14 | 9/16 | 115 | 4-1/2 | T51-115BDCB-051 | 44611 |
| | | HEM | 8 | 16 | 5/8 | 4 | 16 | 5/8 | 127 | 5 | T51-127BDC-2001 | 44849 |
| | | BAL | 8 | 16 | 5/8 | 4 | 16 | 5/8 | 127 | 5 | T51-127BDCB-900 | 44870 |
| | | HEM | 8 | 16 | 5/8 | 4 | 16 | 5/8 | 140 | 5-1/2 | T51-140BDC-1440 | 44989 |
| | | BAL | 8 | 16 | 5/8 | 4 | 14 | 9/16 | | | | |
| 10 | DROP CENTER, STARFLOW  5 FRONT FLUSHING HOLES | HEM | 10 | 14 | 9/16 | 5 | 12.7 | 1/2 | 115 | 4-1/2 | T51-115BDC-3639 | 44086 |
| | | HEM | 10 | 16 | 5/8 | 5 | 16 | 5/8 | 127 | 5 | T51-127BDC-3640 | 44087 |
| | | HEM | 10 | 16 | 5/8 | 5 | 16 | 5/8 | 140 | 5-1/2 | T51-140BDC-3641 | 44088 |
| | | | | | | | | | | | | |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



T51 2" (CONTINUED)

These bits are available optionally in XT51 thread for use in Rockmore's Vector Rod System.



| NO. | FLAT FACE - RETRAC | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|------------------------|--------------------|------------------------|------|------|------------------|------|----------|-----|-------------|-------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 11 | | HEM | 6 | 14 | 9/16 | 4 | 14 | 9/16 | 89 | 3-1/2 | T51-89BFRT-2652 | 44407 |
| | | BAL | 6 | 14 | 9/16 | 4 | 14 | 9/16 | 89 | 3-1/2 | T51-89BFRTB-2653 | 44408 |
| | | | | | | | | | | | | |
| | 3 FRONT FLUSHING HOLES | | | | | | | | | | | |
| 12 | | BAL | 8 | 12.7 | 1/2 | 6 | 11 | 7/16 | 82 | 3-1/4 | T51-82BFRTB-2136 | 44386 |
| | | CON | 8 | 12.7 | 1/2 | 6 | 11 | 7/16 | 82 | 3-1/4 | T51-82BFRTC-4092 | 44770 |
| | | HEM | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | T51-89BFRT-2176 | 44645 |
| | | BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | T51-89BFRTB-2007 | 44691 |
| | | CON | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | T51-89BFRTC-2189 | 44496 |
| | | HEM | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 93 | 3-11/16 | T51-93BFRT-3248 | 44223 |
| | | BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 93 | 3-11/16 | T51-93BFRTB-3247 | 44224 |
| | | BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 95 | 3-3/4 | T51-95BFRTB-3185 | 44233 |
| | | HEM | 8 | 14 | 9/16 | 6 | 14 | 9/16 | 102 | 4 | T51-102BFRT-2122 | 44724 |
| | | BAL | 8 | 14 | 9/16 | 6 | 14 | 9/16 | 102 | 4 | T51-102BFRTB-187 | 44678 |
| | | HEM | 8 | 16 | 5/8 | 6 | 14 | 9/16 | 115 | 4-1/2 | T51-115BFRT-2654 | 44978 |
| | | HEM | 8 | 16 | 5/8 | 8 | 14 | 9/16 | 127 | 5 | T51-127BFRT-2655 | 44979 |
| | | HEM | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 140 | 5-1/2 | T51-140BFRT-2656 | 44980 |
| | | | 2 FRONT FLUSHING HOLES | | | | | | | | | |
| 13 | | HEM | 8 | 12.7 | 1/2 | 5 | 12.7 | 1/2 | 89 | 3-1/2 | T51-89BFRT-3571 | 44045 |
| | | BAL | 8 | 12.7 | 1/2 | 5 | 12.7 | 1/2 | 89 | 3-1/2 | T51-89BFRTB-3861 | 44028 |
| | | HEM | 8 | 14 | 9/16 | 6 | 12.7 | 1/2 | 102 | 4 | T51-102BFRT-2531 | 44471 |
| | | BAL | 8 | 14 | 9/16 | 6 | 12.7 | 1/2 | 102 | 4 | T51-102BFRTB-969 | 44472 |
| | 4 FRONT FLUSHING HOLES | | | | | | | | | | | |
| 14 | | HEM | 8 | 14 | 9/16 | 6 | 12.7 | 1/2 | 102 | 4 | T51-102BFRT-4035 | 16085 |
| | | | | | | | | | | | | |
| | 4 FRONT FLUSHING HOLES | | | | | | | | | | | |
| 15 | | HEM | 8 | 14 | 9/16 | 7 | 14 | 9/16 | 115 | 4-1/2 | T51-115BFRT-2660 | 44473 |
| | | BAL | 8 | 14 | 9/16 | 7 | 14 | 9/16 | 115 | 4-1/2 | T51-115BFRTB-4089 | 44392 |
| | | HEM | 8 | 16 | 5/8 | 8 | 14 | 9/16 | 127 | 5 | T51-127BFRT-2661 | 44474 |
| | | CON | 8 | 14 | 9/16 | 8 | 14 | 9/16 | 127 | 5 | T51-127BFRTC-2897 | 44446 |
| | 4 FRONT FLUSHING HOLES | | | | | | | | | | | |
| 16 | | HEM | 9 | 11 | 7/16 | 8 | 10 | 13/32 | 89 | 3-1/2 | T51-89BFRT-2604 | 44960 |
| | | BAL | 9 | 11 | 7/16 | 8 | 10 | 13/32 | 89 | 3-1/2 | T51-89BFRTB-2172 | 44961 |
| | | HEM | 9 | 12.7 | 1/2 | 8 | 12.7 | 1/2 | 102 | 4 | T51-102BFRT-2483 | 44962 |
| | | BAL | 9 | 12.7 | 1/2 | 8 | 12.7 | 1/2 | 102 | 4 | T51-102BFRTB-250 | 44963 |
| | | CON | 9 | 12.7 | 1/2 | 8 | 12.7 | 1/2 | 102 | 4 | T51-102BFRTC-090 | 44383 |
| | | HEM | 9 | 14 | 9/16 | 9 | 12.7 | 1/2 | 115 | 4-1/2 | T51-115BFRT-2284 | 44964 |
| | | BAL | 9 | 14 | 9/16 | 9 | 12.7 | 1/2 | 115 | 4-1/2 | T51-115BFRTB-2930 | 44679 |
| | | HEM | 9 | 14 | 9/16 | 9 | 14 | 9/16 | 127 | 5 | T51-127BFRT-2659 | 44965 |
| | | | 3 FRONT FLUSHING HOLES | | | | | | | | | |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

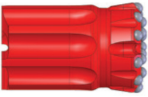
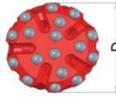
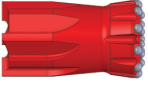
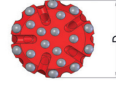

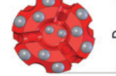

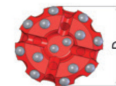
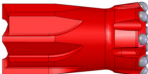
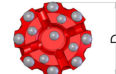
THREADED BITS



T51 2" (CONTINUED)

These bits are available optionally in XT51 thread for use in Rockmore's Vector Rod System.



| NO. | DESCRIPTION | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | | |
|-----|---|--------------------|------------------|------|------|------------------|------|----------|--------------------|-------------|-------------------|---------|--|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | | |
| 17 | FLAT FACE - RETRAC, STARFLOW   5 FRONT FLUSHING HOLES | HEM | 10 | 14 | 9/16 | 9 | 12.7 | 1/2 | 115 | 4-1/2 | T51-115BFRT-3630 | 44083 | |
| | | HEM | 10 | 16 | 5/8 | 7 | 16 | 5/8 | 127 | 5 | T51-127BFRT-3631 | 44084 | |
| | | HEM | 10 | 16 | 5/8 | 8 | 16 | 5/8 | 140 | 5-1/2 | T51-140BFRT-3632 | 44085 | |
| | | | | | | | | | | | | | |
| 18 | FLAT FACE - XTRAC, STARFLOW   5 FRONT FLUSHING HOLES | HEM | 10 | 14 | 9/16 | 9 | 12.7 | 1/2 | 115 | 4-1/2 | T51-115BFRT-4236 | 16086 | |
| | | HEM | 10 | 16 | 5/8 | 7 | 16 | 5/8 | 127 | 5 | T51-127BFRT-3825 | 16088 | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 19 | DROP CENTER - RETRAC   3 FRONT FLUSHING HOLES | HEM | 6 | 14 | 9/16 | 3 | 12.7 | 1/2 | 89 | 3-1/2 | T51-89BRTDC-2238 | 44975 | |
| | | BAL | 6 | 14 | 9/16 | 2 | 9.5 | 3/8 | | | | | |
| | | BAL | 6 | 14 | 9/16 | 3 | 12.7 | 1/2 | 89 | 3-1/2 | T51-89BRTDCB-916 | 44976 | |
| | | BAL | 6 | 14 | 9/16 | 2 | 9.5 | 3/8 | | | | | |
| 20 | DROP CENTER - RETRAC   4 FRONT FLUSHING HOLES | HEM | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 89 | 3-1/2 | T51-89BRTDC-2330 | 44761 | |
| | | HEM | 8 | 12.7 | 1/2 | 2 | 9.5 | 3/8 | | | | | |
| | | BAL | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 89 | 3-1/2 | T51-89BRTDCB-909 | 44746 | |
| | | BAL | 8 | 12.7 | 1/2 | 1 | 12.7 | 1/2 | | | | | |
| | | CON | 8 | 12.7 | 1/2 | 4 | 12.7 | 1/2 | 89 | 3-1/2 | T51-89BRTDCB-4004 | 41138 | |
| | | CON | 8 | 12.7 | 1/2 | 1 | 12.7 | 1/2 | | | | | |
| | | BAL | 8 | 12.7 | 1/2 | 4 | 11 | 7/16 | 89 | 3-1/2 | T51-89BRTDCC-2511 | 44336 | |
| | | BAL | 8 | 12.7 | 1/2 | 2 | 9.5 | 3/8 | | | | | |
| | | HEM | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 93 | 3-11/16 | T51-93BRTDCB-3409 | 44187 | |
| | | HEM | 8 | 14 | 9/16 | 2 | 9.5 | 3/8 | | | | | |
| | | HEM | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | T51-102BRTDC-2662 | 44747 | |
| | | HEM | 8 | 14 | 9/16 | 3 | 11 | 7/16 | | | | | |
| HEM | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | T51-102BRTDCB-210 | 44748 | | | |
| HEM | 8 | 14 | 9/16 | 3 | 11 | 7/16 | | | | | | | |
| HEM | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | T51-102BRTDCC-010 | 44749 | | | |
| HEM | 8 | 14 | 9/16 | 3 | 11 | 7/16 | | | | | | | |
| HEM | 8 | 14 | 9/16 | 4 | 14 | 9/16 | 115 | 4-1/2 | T51-115BRTDC-2495 | 44982 | | | |
| HEM | 8 | 14 | 9/16 | 3 | 12.7 | 1/2 | | | | | | | |
| HEM | 8 | 16 | 5/8 | 4 | 16 | 5/8 | 127 | 5 | T51-127BRTDC-2663 | 44983 | | | |
| HEM | 8 | 16 | 5/8 | 3 | 12.7 | 1/2 | | | | | | | |
| HEM | 8 | 16 | 5/8 | 4 | 16 | 5/8 | 140 | 5-1/2 | T51-140BRTDC-2664 | 44984 | | | |
| HEM | 8 | 16 | 5/8 | 4 | 14 | 9/16 | | | | | | | |
| 21 | DROP CENTER - XTRAC   4 FRONT FLUSHING HOLES | HEM | 8 | 12.7 | 1/2 | 4 | 12.7 | 1/2 | 89 | 3-1/2 | T51-89BRTDC-3988 | 16109 | |
| | | HEM | 8 | 16 | 5/8 | 1 | 12.7 | 1/2 | | | | | |
| | | HEM | 8 | 16 | 5/8 | 4 | 12.7 | 1/2 | 102 | 4 | T51-102BRTDC-3993 | 44006 | |
| | | HEM | 8 | 16 | 5/8 | 1 | 12.7 | 1/2 | | | | | |
| BAL | 8 | 16 | 5/8 | 4 | 12.7 | 1/2 | 102 | 4 | T51-102BRTDCB-4034 | 44005 | | | |
| BAL | 8 | 16 | 5/8 | 1 | 12.7 | 1/2 | | | | | | | |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

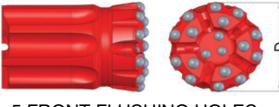
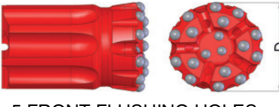
THREADED BITS

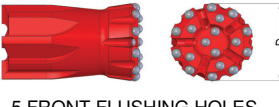
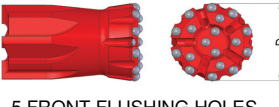


T51 2" (CONTINUED)

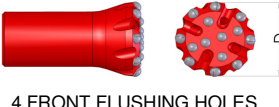
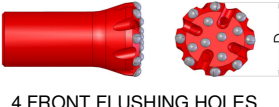
These bits are available optionally in XT51 thread for use in Rockmore's Vector Rod System.

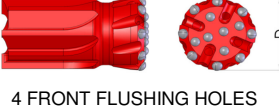
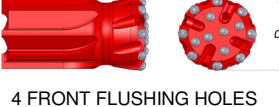


| NO. | DROPCENTER - RETRAC, STARFLOW  5 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|----|------|------------------|------|----------|-----|-------------|-------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 22 |  5 FRONT FLUSHING HOLES | HEM | 10 | 14 | 9/16 | 5 | 12.7 | 1/2 | 115 | 4-1/2 | T51-115BRTDC-3617 | 44089 |
| | | HEM | 10 | 16 | 5/8 | 5 | 16 | 5/8 | 127 | 5 | T51-127BRTDC-3633 | 44090 |
| | | HEM | 10 | 16 | 5/8 | 5 | 16 | 5/8 | 140 | 5-1/2 | T51-140BRTDC-3634 | 44091 |

| NO. | DROPCENTER - XTRAC, STARFLOW  5 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|------------------|----|------|------------------|------|----------|-----|-------------|-------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 23 |  5 FRONT FLUSHING HOLES | HEM | 10 | 14 | 9/16 | 5 | 12.7 | 1/2 | 115 | 4-1/2 | T51-115BRTDC-4228 | 16087 |
| | | HEM | 10 | 16 | 5/8 | 5 | 16 | 5/8 | 127 | 5 | T51-127BRTDC-4065 | 16089 |
| | | | | | | | | | | | | |

T51 2" Xtreme Series (for extreme hard and abrasive rock conditions - with FA carbide)

| NO. | FLAT FACE, XTREME  4 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|----|------|------------------|------|----------|-----|-------------|---------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 24 |  4 FRONT FLUSHING HOLES | FA | 8 | 14 | 9/16 | 6 | 12.7 | 1/2 | 102 | 4 | T51-102BF-XTR | 44439 |
| | | FA | 8 | 14 | 9/16 | 7 | 14 | 9/16 | 115 | 4-1/2 | T51-115BF-XTR | 44440 |
| | | FA | 8 | 16 | 5/8 | 8 | 14 | 9/16 | 127 | 5 | T51-127BF-XTR | 44351 |

| NO. | FLAT FACE - RETRAC, XTREME  4 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|------------------|----|------|------------------|------|----------|-----|-------------|-----------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 25 |  4 FRONT FLUSHING HOLES | FA | 8 | 14 | 9/16 | 6 | 12.7 | 1/2 | 102 | 4 | T51-102BFRT-XTR | 44348 |
| | | FA | 8 | 14 | 9/16 | 7 | 14 | 9/16 | 115 | 4-1/2 | T51-115BFRT-XTR | 44349 |
| | | FA | 8 | 16 | 5/8 | 8 | 14 | 9/16 | 127 | 5 | T51-127BFRT-XTR | 44350 |

CARBIDE PROFILE DESIGNS



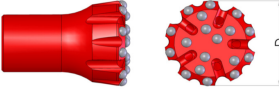
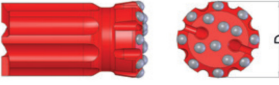
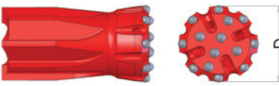
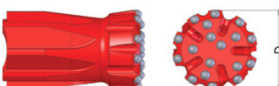
HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



XT51 2" ROCKMORE Vector Rod System



| NO. | DESCRIPTION | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|------|------|------------------|------|----------|-----|-------------|---------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 1 | FLAT FACE, STARFLOW  5 FRONT FLUSHING HOLES | HEM | 10 | 16 | 5/8 | 8 | 16 | 5/8 | 140 | 5-1/2 | XT51-140BF-4093 | 44051 |
| | | HEM | 10 | 16 | 5/8 | 5 | 16 | 5/8 | 140 | 5-1/2 | XT51-140BDC-4094 | 44053 |
| 3 | FLAT FACE - RETRAC  2 FRONT FLUSHING HOLES | HEM | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 89 | 3-1/2 | XT51-89BFRT-3292 | 44215 |
| | | CON | 8 | 14 | 9/16 | 6 | 14 | 9/16 | 102 | 4 | XT51-102BFRTC-3298 | 44213 |
| 5 | FLAT FACE - XTRAC  4 FRONT FLUSHING HOLES | CP | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 102 | 4 | XT51-102BFRTCP-3472 | 44174 |
| | | HEM / BAL | 8 | 14 | 9/16 | 6 | 14 | 9/16 | 102 | 4 | XT51-102BFRT-3554 | 44148 |
| | | CP | 8 | 14 | 9/16 | 6 | 14 | 9/16 | 102 | 4 | XT51-102BFRTCP-3491 | 44167 |
| | | BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 102 | 4 | XT51-102BFRTB-3473 | 44173 |
| | | BAL | 8 | 14 | 9/16 | 6 | 14 | 9/16 | 102 | 4 | XT51-102BFRTB-3492 | 44166 |
| | | CON | 8 | 14 | 9/16 | 6 | 14 | 9/16 | 102 | 4 | XT51-102BFRTC-3377 | 44194 |
| 6 | FLAT FACE - XTRAC, STARFLOW  5 FRONT FLUSHING HOLES | HEM | 10 | 16 | 5/8 | 8 | 16 | 5/8 | 140 | 5-1/2 | XT51-140BFRT-4095 | 44052 |
| | | CON | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 89 | 3-1/2 | XT51-89BRTDCC-3297 | 44212 |

CARBIDE PROFILE DESIGNS



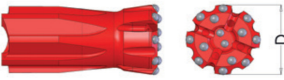
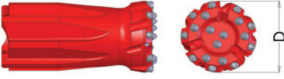
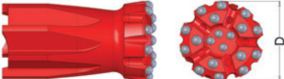
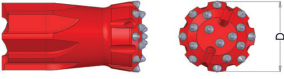
HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



XT51 2" ROCKMORE Vector Rod System (CONTINUED)



| NO. | DROP CENTER - XTRAC | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|------|-------|------------------|------|----------|-----|-------------|----------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 8 |  4 FRONT FLUSHING HOLES * = SPECIAL 1 SIDE HOLE | HEM | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 89 | 3-1/2 | XT51-89BRTDC-3421 * | 44214 |
| | | HEM | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 89 | 3-1/2 | XT51-89BRTDC-4316 | 16111 |
| | | BAL | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 89 | 3-1/2 | XT51-89BRTDCB-3562 * | 44146 |
| | | BAL | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 89 | 3-1/2 | XT51-89BRTDCB-4023 | 16110 |
| | | BAL | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | XT51-102BRTDCB-3670 | 16091 |
| | | BAL | 8 | 16 | 5/8 | 4 | 16 | 5/8 | 115 | 4-1/2 | XT51-115BRTDCB-4025 | 16094 |
| | | BAL | 8 | 16 | 5/8 | 4 | 16 | 5/8 | 127 | 5 | XT51-127BRTDCB-4027 | 16097 |
| | | BAL | 8 | 16 | 5/8 | 3 | 12.7 | 1/2 | | | | |
| 9 |  3 FRONT FLUSHING HOLES | BAL | 9 | 10 | 13/32 | 6 | 10 | 13/32 | 94 | 3-11/16 | XT51-94BRTDCB-3315 | 44121 |
| | | CON | 9 | 10 | 13/32 | 6 | 10 | 13/32 | 94 | 3-11/16 | XT51-94BRTDCC-3319 | 44203 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 10 |  5 FRONT FLUSHING HOLES | HEM | 10 | 16 | 5/8 | 5 | 12.7 | 1/2 | 115 | 4-1/2 | XT51-115BRTDC-3663 | 16093 |
| | | HEM | 10 | 16 | 5/8 | 5 | 16 | 5/8 | 127 | 5 | XT51-127BRTDC-4292 | 16096 |
| | | HEM | 10 | 16 | 5/8 | 5 | 16 | 5/8 | 140 | 5-1/2 | XT51-140BRTDC-4096 | 44054 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 11 |  5 FRONT FLUSHING HOLES | CON | 8 | 12.7 | 1/2 | 4 | 12.7 | 1/2 | 89 | 3-1/2 | XT51-89BRTSDC-4024 | 16090 |
| | | CON | 8 | 12.7 | 1/2 | 9 | 12.7 | 1/2 | 102 | 4 | XT51-102BRTSDC-3668 | 16092 |
| | | CON | 8 | 14 | 9/16 | 8 | 14 | 9/16 | 115 | 4-1/2 | XT51-115BRTSDC-4026 | 16095 |
| | | CON | 8 | 14 | 9/16 | 8 | 14 | 9/16 | 127 | 5 | XT51-127BRTSDC-4028 | 16098 |
| | | | | | | | | | | | | |

CARBIDE PROFILE DESIGNS

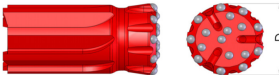



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



ST58 2-1/4"

| NO. | FLAT FACE - RETRAC | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|------------------|------|------|------------------|------|----------|-----|-------------|--------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 1 |  <p>3 FRONT FLUSHING HOLES</p> | HEM | 9 | 11 | 7/16 | 8 | 10 | 13/32 | 89 | 3-1/2 | ST58-89BFRT-1713 | 44929 |
| | | BAL | 9 | 11 | 7/16 | 8 | 10 | 13/32 | 89 | 3-1/2 | ST58-89BFRTB-365 | 44930 |
| | | BAL | 9 | 11 | 7/16 | 8 | 11 | 7/16 | 93 | 3-11/16 | ST58-93BFRTB-1489 | 44921 |
| | | CON | 9 | 12.7 | 1/2 | 8 | 11 | 7/16 | 93 | 3-11/16 | ST58-93BFRTC-936 | 44493 |
| | | HEM | 9 | 12.7 | 1/2 | 8 | 12.7 | 1/2 | 102 | 4 | ST58-102BFRT-381 | 44931 |
| | | BAL | 9 | 12.7 | 1/2 | 8 | 12.7 | 1/2 | 102 | 4 | ST58-102BFRTB-424 | 44932 |
| NO. | DROP CENTER - RETRAC | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 2 |  <p>4 FRONT FLUSHING HOLES</p> | HEM | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 89 | 3-1/2 | ST58-89BRTDC-367 | 44934 |
| | | BAL | 8 | 11 | 7/16 | 4 | 11 | 7/16 | 89 | 3-1/2 | ST58-89BRTDCB-368 | 44935 |
| | | BAL | 8 | 12.7 | 1/2 | 4 | 12.7 | 1/2 | 93 | 3-11/16 | ST58-93BRTDCB-3746 | 44916 |
| | | HEM | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | ST58-102BRTDC-438 | 44924 |
| | | BAL | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | ST58-102BRTDCB-257 | 44936 |
| | | HEM | 8 | 14 | 9/16 | 4 | 14 | 9/16 | 115 | 4-1/2 | ST58-115BRTDC-474 | 44937 |
| | | HEM | 8 | 16 | 5/8 | 4 | 16 | 5/8 | 127 | 5 | ST58-127BRTDC-089 | 44986 |
| | | HEM | 8 | 16 | 5/8 | 3 | 12.7 | 1/2 | | | | |
| | | HEM | 8 | 16 | 5/8 | 3 | 12.7 | 1/2 | | | | |

CARBIDE PROFILE DESIGNS

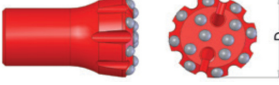
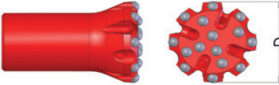
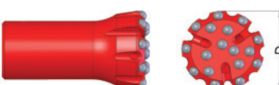
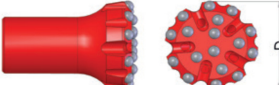
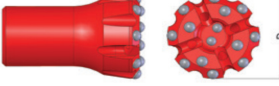


HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



GT60 2-3/8"

| NO. | FLAT FACE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|------------------|------|------------------|------|------|----------|-------------------|-------------|------------------|-------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | FRONT NO. X DIA. | | D | | USA | AUSTRIA | | |
| | | | No. | mm | In. | No. | mm | In. | | | mm | In. |
| 1 |  | HEM | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 93 | 3-11/16 | GT60-93BF-2708 | 44290 |
| | | BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 93 | 3-11/16 | GT60-93BFB-2709 | 44289 |
| | | HEM | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 95 | 3-3/4 | GT60-95BF-2710 | 44288 |
| | | BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 95 | 3-3/4 | GT60-95BFB-2711 | 44287 |
| | | | | | | | | | | | | |
| 2 |  | HEM | 8 | 14 | 9/16 | 6 | 12.7 | 1/2 | 102 | 4 | GT60-102BF-2160 | 44359 |
| | | HEM | 8 | 16 | 5/8 | 6 | 12.7 | 1/2 | 102 | 4 | GT60-102BF-3609 | 44136 |
| | | BAL | 8 | 14 | 9/16 | 6 | 12.7 | 1/2 | 102 | 4 | GT60-102BFB-2161 | 44360 |
| | | HEM | 8 | 14 | 9/16 | 7 | 14 | 9/16 | 115 | 4-1/2 | GT60-115BF-2162 | 44361 |
| | | BAL | 8 | 14 | 9/16 | 7 | 14 | 9/16 | 115 | 4-1/2 | GT60-115BFB-2163 | 44362 |
| | | HEM | 8 | 16 | 5/8 | 8 | 14 | 9/16 | 127 | 5 | GT60-127BF-2164 | 44363 |
| 3 |  | HEM | 9 | 12.7 | 1/2 | 8 | 12.7 | 1/2 | 102 | 4 | GT60-102BF-3717 | 44071 |
| | | BAL | 9 | 12.7 | 1/2 | 8 | 12.7 | 1/2 | 102 | 4 | GT60-102BFB-3718 | 44072 |
| | | HEM | 9 | 14 | 9/16 | 9 | 12.7 | 1/2 | 115 | 4-1/2 | GT60-115BF-3719 | 44075 |
| | | HEM | 9 | 14 | 9/16 | 9 | 14 | 9/16 | 127 | 5 | GT60-127BF-3720 | 44077 |
| 4 |  | HEM | 10 | 14 | 9/16 | 9 | 12.7 | 1/2 | 115 | 4-1/2 | GT60-115BF-3642 | 44104 |
| | | HEM | 10 | 16 | 5/8 | 7 | 16 | 5/8 | 127 | 5 | GT60-127BF-3643 | 44105 |
| | | HEM | 10 | 16 | 5/8 | 8 | 16 | 5/8 | 140 | 5-1/2 | GT60-140BF-3644 | 44106 |
| | | HEM | 10 | 16 | 5/8 | 8 | 16 | 5/8 | 152 | 6 | GT60-152BF-3947 | 44009 |
| | | | | | | | | | | | | |
| 5 |  | HEM | 8 | 12.7 | 1/2 | 4 | 12.7 | 1/2 | 93 | 3-11/16 | GT60-93BDC-2085 | 44286 |
| | | | | | | 2 | 9.5 | 3/8 | | | | |
| | | BAL | 8 | 12.7 | 1/2 | 4 | 12.7 | 1/2 | 93 | 3-11/16 | GT60-93BDCB-2712 | 44285 |
| | | | | | | 2 | 9.5 | 3/8 | | | | |
| | | HEM | 8 | 12.7 | 1/2 | 4 | 12.7 | 1/2 | 95 | 3-3/4 | GT60-95BDC-2713 | 44284 |
| | | | | | | 2 | 9.5 | 3/8 | | | | |
| | | BAL | 8 | 12.7 | 1/2 | 4 | 12.7 | 1/2 | 95 | 3-3/4 | GT60-95BDCB-2714 | 44283 |
| | | | | | | 2 | 9.5 | 3/8 | | | | |
| | | HEM | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | GT60-102BDC-2086 | 44364 |
| | | | | | | 3 | 11 | 7/16 | | | | |
| | | BAL | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | GT60-102BDCB-766 | 44365 |
| | | | | | | 3 | 11 | 7/16 | | | | |
| | | HEM | 8 | 14 | 9/16 | 4 | 14 | 9/16 | 115 | 4-1/2 | GT60-115BDC-2087 | 44366 |
| | | | | | | 3 | 12.7 | 1/2 | | | | |
| BAL | 8 | 14 | 9/16 | 4 | 14 | 9/16 | 115 | 4-1/2 | GT60-115BDCB-938 | 44367 | | |
| | | | | 3 | 12.7 | 1/2 | | | | | | |
| HEM | 8 | 16 | 5/8 | 4 | 16 | 5/8 | 127 | 5 | GT60-127BDC-1999 | 44368 | | |
| | | | | 3 | 12.7 | 1/2 | | | | | | |
| BAL | 8 | 16 | 5/8 | 4 | 16 | 5/8 | 127 | 5 | GT60-127BDCB-2064 | 44369 | | |
| | | | | 3 | 12.7 | 1/2 | | | | | | |
| HEM | 8 | 16 | 5/8 | 4 | 16 | 5/8 | 140 | 5-1/2 | GT60-140BDC-2000 | 44370 | | |
| | | | | 4 | 14 | 9/16 | | | | | | |
| HEM | 8 | 16 | 5/8 | 6 | 16 | 5/8 | 152 | 6 | GT60-152BDC-2342 | 44208 | | |
| | | | | 4 | 14 | 9/16 | | | | | | |

CARBIDE PROFILE DESIGNS

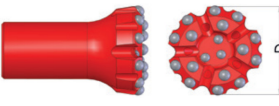
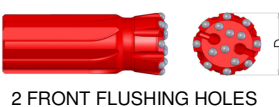
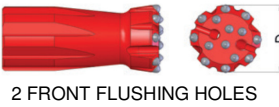
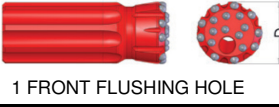
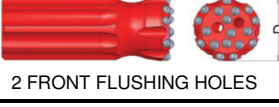
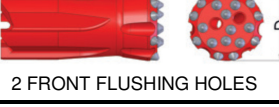
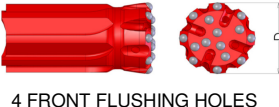
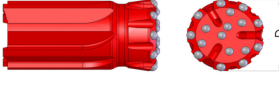


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 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



GT60 2-3/8" (CONTINUED)

| NO. | DROP CENTER, STARFLOW | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|------------------|------|------|------------------|------|----------|-----|-------------|--------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 6 |  | HEM | 10 | 14 | 9/16 | 5 | 12.7 | 1/2 | 115 | 4-1/2 | GT60-115BDC-3645 | 44108 |
| | | HEM | 10 | 16 | 5/8 | 5 | 16 | 5/8 | 127 | 5 | GT60-127BDC-3646 | 44109 |
| | | HEM | 10 | 16 | 5/8 | 5 | 16 | 5/8 | 140 | 5-1/2 | GT60-140BDC-3647 | 44110 |
| | | HEM | 10 | 16 | 5/8 | 5 | 16 | 5/8 | 152 | 6 | GT60-152BDC-4190 | 16105 |
| 7 |  | HEM | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 93 | 3-11/16 | GT60-93BFRT-2715 | 44282 |
| | | BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 93 | 3-11/16 | GT60-93BFRTB-2716 | 44281 |
| | | HEM | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 95 | 3-3/4 | GT60-95BFRT-2717 | 44280 |
| | | BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 95 | 3-3/4 | GT60-95BFRTB-2718 | 44279 |
| 8 |  | BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 95 | 3-3/4 | GT60-95BFRTB-3506 | 44158 |
| | | BAL | 8 | 14 | 9/16 | 6 | 12.7 | 1/2 | 102 | 4 | GT60-102BFRTB-3653 | 44120 |
| | | | | | | | | | | | | |
| 9 |  | BAL | 9 | 12.7 | 1/2 | 9 | 11 | 7/16 | 93 | 3-11/16 | GT60-93BFRTB-3177 | 44234 |
| | | | | | | | | | | | | |
| 10 |  | BAL | 9 | 12.7 | 1/2 | 9 | 12.7 | 1/2 | 93 | 3-11/16 | GT60-93BFRTB-3516 | 44160 |
| | | CON | 9 | 12.7 | 1/2 | 9 | 12.7 | 1/2 | 93 | 3-11/16 | GT60-93BFRTC-3369 | 44196 |
| | | | | | | | | | | | | |
| 11 |  | BAL | 9 | 12.7 | 1/2 | 9 | 12.7 | 1/2 | 94 | 3-11/16 | GT60-94BFRTB-3577 | 44143 |
| | | | | | | | | | | | | |
| 12 |  | HEM | 8 | 14 | 9/16 | 6 | 12.7 | 1/2 | 102 | 4 | GT60-102BFRT-706 | 44371 |
| | | BAL | 8 | 14 | 9/16 | 6 | 12.7 | 1/2 | 102 | 4 | GT60-102BFRTB-19 | 44372 |
| | | HEM | 8 | 14 | 9/16 | 7 | 14 | 9/16 | 115 | 4-1/2 | GT60-115BFRT-721 | 44373 |
| | | BAL | 8 | 14 | 9/16 | 7 | 14 | 9/16 | 115 | 4-1/2 | GT60-115BFRTB-3499 | 44164 |
| | | HEM | 8 | 16 | 5/8 | 8 | 14 | 9/16 | 127 | 5 | GT60-127BFRT-763 | 44374 |
| 13 |  | BAL | 9 | 12.7 | 1/2 | 8 | 11 | 7/16 | 93 | 3-11/16 | GT60-93BFRTB-3723 | 44070 |
| | | HEM | 9 | 12.7 | 1/2 | 8 | 12.7 | 1/2 | 102 | 4 | GT60-102BFRT-3724 | 44073 |
| | | HEM | 9 | 14 | 9/16 | 9 | 11 | 7/16 | 102 | 4 | GT60-102BFRT-3514 | 44010 |
| | | BAL | 9 | 12.7 | 1/2 | 8 | 12.7 | 1/2 | 102 | 4 | GT60-102BFRTB-3725 | 44074 |
| | | HEM | 9 | 14 | 9/16 | 9 | 12.7 | 1/2 | 115 | 4-1/2 | GT60-115BFRT-3726 | 44076 |
| | | HEM | 9 | 14 | 9/16 | 9 | 14 | 9/16 | 127 | 5 | GT60-127BFRT-3727 | 44078 |
| | | HEM | 9 | 16 | 5/8 | 9 | 16 | 5/8 | 127 | 5 | GT60-127BFRT-3426 | 44079 |

CARBIDE PROFILE DESIGNS


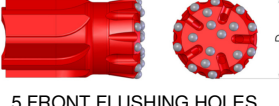
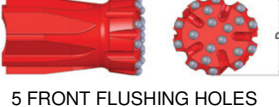
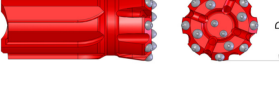
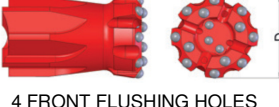


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 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



GT60 2-3/8" (CONTINUED)

| NO. | DESCRIPTION | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | | | |
|-----|---|--------------------|--|------|------|------------------|------|----------|--------------------|-------------|---------------------|---------|-------------------|-------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA | | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | | | |
| 14 | FLAT FACE - XTRAC  3 FRONT FLUSHING HOLES | HEM | 9 | 16 | 5/8 | 9 | 12.7 | 1/2 | 115 | 4-1/2 | GT60-115BFRT-3821 | 44039 | | |
| | | 15 | FLAT FACE - RETRAC, STARFLOW  5 FRONT FLUSHING HOLES | HEM | 10 | 14 | 9/16 | 9 | 12.7 | 1/2 | 115 | 4-1/2 | GT60-115BFRT-3425 | 44161 |
| | | | | HEM | 10 | 16 | 5/8 | 7 | 16 | 5/8 | 127 | 5 | GT60-127BFRT-3423 | 44163 |
| HEM | 10 | | | 16 | 5/8 | 8 | 16 | 5/8 | 140 | 5-1/2 | GT60-140BFRT-3635 | 44107 | | |
| HEM | 10 | | | 16 | 5/8 | 8 | 16 | 5/8 | 152 | 6 | GT60-152BFRT-3552 | 44145 | | |
| 16 | FLAT FACE - XTRAC, STARFLOW  5 FRONT FLUSHING HOLES | HEM | 10 | 14 | 9/16 | 9 | 12.7 | 1/2 | 115 | 4-1/2 | GT60-115BFRT-3859 | 44011 | | |
| | | HEM | 10 | 16 | 5/8 | 7 | 16 | 5/8 | 127 | 5 | GT60-127BFRT-3659 | 44114 | | |
| | | HEM | 10 | 16 | 5/8 | 9 | 16 | 5/8 | 140 | 5-1/2 | GT60-140BFRT-3860 | 44015 | | |
| | | HEM | 10 | 16 | 5/8 | 8 | 16 | 5/8 | 152 | 6 | GT60-152BFRT-3660 | 16103 | | |
| 17 | DROP CENTER - RETRAC  4 FRONT FLUSHING HOLES | HEM | 8 | 12.7 | 1/2 | 4 | 12.7 | 1/2 | 93 | 3-11/16 | GT60-93BRTDC-999 | 44278 | | |
| | | BAL | 8 | 12.7 | 1/2 | 2 | 9.5 | 3/8 | 93 | 3-11/16 | GT60-93BRTDCB-2719 | 44277 | | |
| | | | | | | 4 | 12.7 | 1/2 | | | | | | |
| | | HEM | 8 | 12.7 | 1/2 | 2 | 9.5 | 3/8 | 95 | 3-3/4 | GT60-95BRTDC-2720 | 44276 | | |
| | | | | | | 4 | 12.7 | 1/2 | | | | | | |
| | | BAL | 8 | 12.7 | 1/2 | 2 | 9.5 | 3/8 | 95 | 3-3/4 | GT60-95BRTDCB-2705 | 44275 | | |
| | | | | | | 4 | 12.7 | 1/2 | | | | | | |
| | | CON | 8 | 12.7 | 1/2 | 2 | 9.5 | 3/8 | 95 | 3-3/4 | GT60-95BRTDCC-3331 | 44202 | | |
| | | | | | | 4 | 12.7 | 1/2 | | | | | | |
| | | HEM | 8 | 14 | 9/16 | 3 | 11 | 7/16 | 102 | 4 | GT60-102BRTDC-647 | 44375 | | |
| | | | | | | 4 | 12.7 | 1/2 | | | | | | |
| | | BAL | 8 | 14 | 9/16 | 3 | 11 | 7/16 | 102 | 4 | GT60-102BRTDCB-749 | 44376 | | |
| 4 | 12.7 | | | | | 1/2 | | | | | | | | |
| HEM | 8 | 14 | 9/16 | 3 | 12.7 | 1/2 | 115 | 4-1/2 | GT60-115BRTDC-759 | 44377 | | | | |
| | | | | 4 | 14 | 9/16 | | | | | | | | |
| BAL | 8 | 14 | 9/16 | 3 | 12.7 | 1/2 | 115 | 4-1/2 | GT60-115BRTDCB-761 | 44337 | | | | |
| | | | | 4 | 14 | 9/16 | | | | | | | | |
| HEM | 8 | 16 | 5/8 | 3 | 12.7 | 1/2 | 127 | 5 | GT60-127BRTDC-765 | 44378 | | | | |
| | | | | 4 | 16 | 5/8 | | | | | | | | |
| HEM | 8 | 16 | 5/8 | 4 | 16 | 5/8 | 140 | 5-1/2 | GT60-140BRTDC-18 | 44379 | | | | |
| | | | | 4 | 14 | 9/16 | | | | | | | | |
| 18 | DROP CENTER - XTRAC  4 FRONT FLUSHING HOLES | HEM | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | GT60-102BRTDC-4075 | 16099 | | |
| | | CON | 8 | 12.7 | 1/2 | 3 | 11 | 7/16 | 102 | 4 | GT60-102BRTDCC-3597 | 44138 | | |
| | | | | | | 4 | 12.7 | 1/2 | | | | | | |

CARBIDE PROFILE DESIGNS

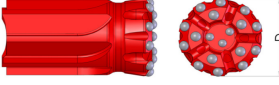
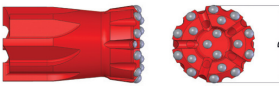


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THREADED BITS



GT60 2-3/8" (CONTINUED)

| NO. | DROP CENTER - RETRAC, STARFLOW | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|------------------|----|------|------------------|--------------|-------------|-----|-------------|--------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 19 |  5 FRONT FLUSHING HOLES | HEM | 10 | 14 | 9/16 | 5 3 | 12.7 12.7 | 1/2 1/2 | 115 | 4-1/2 | GT60-115BRTDC-3616 | 44111 |
| | | HEM | 10 | 16 | 5/8 | 5 3 | 16 12.7 | 5/8 1/2 | 127 | 5 | GT60-127BRTDC-3618 | 44112 |
| | | HEM | 10 | 16 | 5/8 | 5 4 | 16 14 | 5/8 9/16 | 140 | 5-1/2 | GT60-140BRTDC-3619 | 44113 |
| NO. | DROP CENTER - XTRAC, STARFLOW | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 20 |  5 FRONT FLUSHING HOLES | HEM | 10 | 14 | 9/16 | 5 3 | 12.7 12.7 | 1/2 1/2 | 115 | 4-1/2 | GT60-115BRTDC-4047 | 16100 |
| | | HEM | 10 | 16 | 5/8 | 5 3 | 16 12.7 | 5/8 1/2 | 127 | 5 | GT60-127BRTDC-4048 | 16101 |
| | | HEM | 10 | 16 | 5/8 | 5 4 | 16 14 | 5/8 9/16 | 140 | 5-1/2 | GT60-140BRTDC-4076 | 16102 |
| | | HEM | 10 | 16 | 5/8 | 5 4 | 16 14 | 5/8 9/16 | 152 | 6 | GT60-152BRTDC-4131 | 16104 |

CARBIDE PROFILE DESIGNS






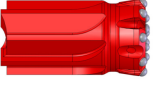

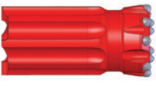


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 Note: Some button bits may not be offered with a particular carbide design shown above.

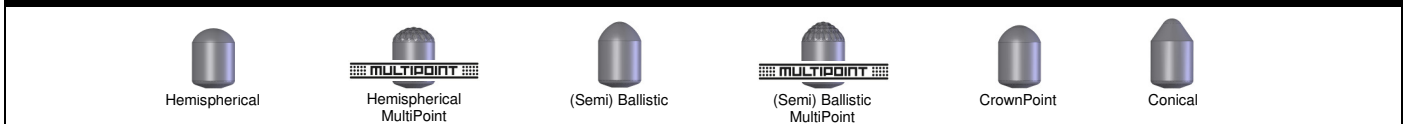
THREADED BITS



T-Wiz60 2-3/8"

| NO. | FLAT FACE  2 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|------|------|------------------|------|----------|------|-------------|-----------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 1 | | BAL | 9 | 12.7 | 1/2 | 10 | 12.7 | 1/2 | 102 | 4 | TWIZ60-102BFB-3865 | 44027 |
| NO. | DROP CENTER  2 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
| 2 | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| | | BAL | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | TWIZ60-102BDCB-3952 | 44019 |
| NO. | DROP CENTER  4 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
| 3 | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| | | BAL | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | TWIZ60-102BDCB-3951 | 44018 |
| NO. | FLAT FACE - RETRAC  2 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
| 4 | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| | | BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 95 | 3-3/4 | TWIZ60-95BFRTB-3753 | 44061 |
| NO. | FLAT FACE - RETRAC  2 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
| 5 | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| | | BAL | 9 | 12.7 | 1/2 | 10 | 12.7 | 1/2 | 102 | 4 | TWIZ60-102BFRTB-3829 | 44038 |
| NO. | FLAT FACE - RETRAC  4 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
| 6 | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| | | | HEM | 8 | 16 | 5/8 | 8 | 14 | 9/16 | 127 | | |
| | | BAL | 8 | 16 | 5/8 | 8 | 14 | 9/16 | 127 | 5 | TWIZ60-127BFRTB-4008 | 41131 |
| NO. | FLAT FACE - RETRAC, STARFLOW  5 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
| 7 | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| | | | HEM | 10 | 16 | 5/8 | 8 | 16 | 5/8 | 140 | | |
| | | BAL | 10 | 16 | 5/8 | 8 | 16 | 5/8 | 140 | 5-1/2 | TWIZ60-140BFRTB-4010 | 41133 |
| NO. | DROP CENTER - RETRAC  2 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
| 8 | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| | | BAL | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 102 | 4 | TWIZ60-102BRTDCB-3953 | 44020 |

CARBIDE PROFILE DESIGNS

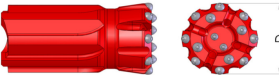


HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



T-Wiz60 2-3/8" (CONTINUED)

| NO. | DROP CENTER - RETRAC  4 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|------------------|------|-----|------------------|------|----------|----|-------------|----------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 9 | | BAL | 8 | 12.7 | 1/2 | 4 | 12.7 | 1/2 | 95 | 3-3/4 | TWIZ60-95BRTDCB-3912 | 44060 |
| | | | | | | 2 | 9.5 | 3/8 | | | | |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

REAMING ACCESSORIES



REAMING BITS & PILOT ADAPTERS

| NO. | IMAGE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|-------|--------------------|------------------|------|------|------------------|------|----------|----------|-------------|------------------|---------|
| | | ANGLE | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 1 | | 6° | 8 | 9.5 | 3/8 | 4 | 8 | 5/16 | 64 | 2-1/2 | RBB-64-6-487 | 43030 |
| | | 6° | 6 | 11 | 7/16 | 3 | 11 | 7/16 | 76 | 3 | RBB-76-6-774 | 43031 |
| | | 6° | 8 | 12.7 | 1/2 | 4 | 11 | 7/16 | 89 | 3-1/2 | RBB-89-6-489 | 43014 |
| | | | | | | | | | | | | |
| 2 | | 6° | 4 | 6.3 | 1/4 | 1 | 6.3 | 1/4 | 26 | 1-1/32 | PAR25-26B-2612 | 43070 |
| | | 6° | 4 | 6.3 | 1/4 | 1 | 6.3 | 1/4 | 26 | 1-1/32 | PAR28-26B-2749 | 43071 |
| | | 6° | 4 | 6.3 | 1/4 | 1 | 6.3 | 1/4 | 26 | 1-1/32 | PAR32-26B-2408 | 43072 |
| | | | | | | | | | | | | |
| 3 | | 12° | 8 | 9.5 | 3/8 | 4 | 8 | 5/16 | 76 | 3 | RBB-76-12-1771 | 43010 |
| | | 12° | 8 | 12.7 | 1/2 | 4 | 9.5 | 3/8 | 89 | 3-1/2 | RBB-89-12-095 | 43011 |
| | | 12° | 8 | 12.7 | 1/2 | 4 | 12.7 | 1/2 | 102 | 4 | RBB-102-12-096 | 43012 |
| | | 12° | 8 | 14 | 9/16 | 4 | 14 | 9/16 | 115 | 4-1/2 | RBB-115-12-2453 | 43017 |
| | | 12° | 8 | 14 | 9/16 | 8 | 12.7 | 1/2 | 127 | 5 | RBB-127-12-097 | 43013 |
| | | | | | | | | | | | | |
| 4 | | 12° | 4 | 9.5 | 3/8 | 2 | 8 | 5/16 | 41 | 1-5/8 | PAR32-41B-2099 | 43073 |
| | | 12° | 4 | 9.5 | 3/8 | 2 | 8 | 5/16 | 41 | 1-5/8 | PAT38-41B-2759 | 43074 |
| | | | | | | | | | | | | |
| 5 | | T12 | 8 | 12.7 | 1/2 | 4 | 11 | 7/16 | 102 | 4 | RBB-102-T12-490 | 43000 |
| | | T12 | 8 | 12.7 | 1/2 | 4 | 11 | 7/16 | 115 | 4-1/2 | RBB-115-T12-491 | 43002 |
| | | T12 | 8 | 12.7 | 1/2 | 4 | 11 | 7/16 | 127 | 5 | RBB-127-T12-492 | 43001 |
| | | | | | | | | | | | | |
| 6 | | T12 | | | | | | | DIAMETER | | PART NUMBER | |
| | | T12 | | | | | | | D | | USA | AUSTRIA |
| | | T12 | | | | | | | mm | In. | | |
| | | T12 | | | | | | | 47 | 1-7/8 | PAR32-47-T12-498 | 43075 |
| | | T12 | | | | | | | 47 | 1-7/8 | PAR38-47-T12-499 | 43076 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

REAMING SHELLS

| NO. | IMAGE | ANGLE (A) | D X B° | | PART NUMBER | |
|-----|----------|-----------|----------|----------|-------------|----------|
| | | | mm | In. | USA | AUSTRIA |
| | | | 6° | 22 x 12° | 7/8 x 12° | RS2212-6 |
| 6° | 22 x 11° | 7/8 x 11° | RS2211-6 | 43036 | | |

REAMING ACCESSORIES



HOLE OPENERS

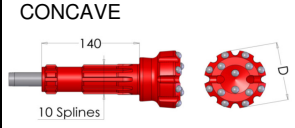
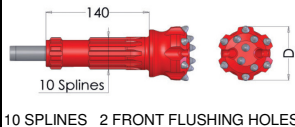
| NO. | STANDARD TYPE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | | | PART NUMBER | | |
|-----|---------------|--------------------|----|------|------------------|----|------|----------|-----|--------|-----|-------------|---------------------|-------|
| | | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | d | | D | | USA | AUSTRIA | |
| | | THD No. | mm | In. | No. | mm | In. | mm | In. | mm | In. | | | |
| 1 | | R32 | 8 | 14 | 9/16 | 4 | 11 | 7/16 | 41 | 1-5/8 | 102 | 4 | R32-41-102HO-925 | 43067 |
| | | T38 | 8 | 14 | 9/16 | 7 | 11 | 7/16 | 51 | 2 | 102 | 4 | T38-51-102HO-889 | 43043 |
| | | T38 | 8 | 14 | 9/16 | 4 | 11 | 7/16 | | | | | | |
| | | T38 | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 67 | 2-5/8 | 127 | 5 | T38-67-127HO-278 | 43044 |
| | | T45 | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 64 | 2-1/2 | 127 | 5 | T45-64-127HO-4086 | 43059 |
| | | T45 | 8 | 14 | 9/16 | 4 | 12.7 | 1/2 | 73 | 2-7/8 | 127 | 5 | T45-73-127HO-279 | 43045 |
| | | T38 | 8 | 16 | 5/8 | 6 | 14 | 9/16 | 102 | 4 | 152 | 6 | T38-102-152HO-896 | 43046 |
| | | T45 | 8 | 16 | 5/8 | 6 | 14 | 9/16 | 64 | 2-1/2 | 152 | 6 | T45-64-152HO-3681 | 43060 |
| | | ST58 | 8 | 16 | 5/8 | 4 | 14 | 9/16 | 89 | 3-1/2 | 152 | 6 | ST58-89-152HO-303 | 43047 |
| | | R38 | 10 | 16 | 5/8 | 6 | 14 | 9/16 | 76 | 3 | 178 | 7 | R38-76-178HO-1346 | 43048 |
| | | T38 | 10 | 16 | 5/8 | 8 | 16 | 5/8 | 152 | 6 | 203 | 8 | T38-152-203HO-119 | 43049 |
| | | ST58 | 12 | 14 | 9/16 | 20 | 14 | 9/16 | 127 | 5 | 225 | 8-7/8 | ST58-127-225HO-3482 | 43061 |
| | | 2 | | R32 | 8 | 11 | 7/16 | 7 | 9.5 | 3/8 | 29 | 1-5/32 | 76 | 3 |
| R32 | 8 | | | 12.7 | 1/2 | 6 | 11 | 7/16 | 29 | 1-5/32 | 89 | 3-1/2 | R32-29-89CO-1277 | 43041 |
| R32 | 8 | | | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 29 | 1-5/32 | 102 | 4 | R32-29-102CO-192 | 43042 |
| R35 | 8 | | | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 29 | 1-5/32 | 102 | 4 | R35-29-102CO-891 | 43052 |
| T38 | 8 | | | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 29 | 1-5/32 | 102 | 4 | T38-29-102CO-3679 | 43064 |
| R32 | 8 | | | 14 | 9/16 | 10 | 12.7 | 1/2 | 29 | 1-5/32 | 115 | 4-1/2 | R32-29-115CO-247 | 43050 |
| T38 | 8 | | | 14 | 9/16 | 8 | 12.7 | 1/2 | 29 | 1-5/32 | 115 | 4-1/2 | T38-29-115CO-3680 | 43065 |
| R32 | 8 | | | 14 | 9/16 | 10 | 12.7 | 1/2 | 29 | 1-5/32 | 127 | 5 | R32-29-127CO-270 | 43051 |
| T38 | 8 | | | 14 | 9/16 | 10 | 12.7 | 1/2 | 29 | 1-5/32 | 127 | 5 | T38-29-127CO-039 | 43066 |

NOTE: ADDITIONAL THREADS AND SIZES AVAILABLE UPON REQUEST.

DOWN-THE-HOLE (DTH) BITS ROCKMORE



SHANK: RM250

| NO. | CONCAVE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|----|-------|------------------|-----|----------|----|--------------|-----------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 1 |  10 Splines 10 SPLINES 2 FRONT FLUSHING HOLES | HEM | 8 | 11 | 7/16 | 6 | 9.5 | 3/8 | 76 | 3 | RM250-76CC-3459 | 45616 |
| | | HEM | 8 | 11 | 7/16 | 6 | 11 | 7/16 | 89 | 3-1/2 | RM250-89CC-3824 | 45651 |
| 2 |  10 Splines 10 SPLINES 2 FRONT FLUSHING HOLES | HEM | 6 | 10 | 13/32 | 5 | 10 | 13/32 | 72 | 2-13/16 | RM250-72CV-4121 | 45615 |
| | | HEM | 8 | 11 | 7/16 | 6 | 9.5 | 3/8 | 76 | 3 | RM250-76CV-3678 | 45570 |
| 3 | RM250 BLOW TUBE | | | | | | | | | PART NUMBER | | |
| | | | | | | | | | | USA | AUSTRIA | |
| | | | | | | | | | | BTRM250-1021 | 45118 | |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

* = No shank breakage warranty

DOWN-THE-HOLE (DTH) BITS ATLAS COPCO



SHANK: COP 32

| NO. | CONVEX 214 8 Splines 8 SPLINES 2 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|----|-------|------------------|----|----------|----|-------------|------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 1 | | FB | 8 | 11 | 7/16 | 6 | 11 | 7/16 | 85 | 3-3/8 | COP32-85CVB-2727 | 45133 |
| | | HEM | 8 | 12 | 15/32 | 6 | 12 | 15/32 | 90 | 3-1/2 | COP32-90CV-1787 | 45079 |
| | | FB | 8 | 12 | 15/32 | 6 | 12 | 15/32 | 90 | 3-1/2 | COP32-90CVB-1401 | 41248 |

SHANK: TD 40

| NO. | FLAT FACE 210 12 Splines 12 SPLINES 2 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|------------------|----|------|------------------|------|----------|-------|-------------|-----------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 2 | | HEM | 8 | 14 | 9/16 | 7 | 12.7 | 1/2 | 110 | 4-5/16 | TD40-110FF-3684 | 45595 |
| | | HEM | 8 | 14 | 9/16 | 8 | 12.7 | 1/2 | 115 | 4-1/2 | TD40-115FF-3529 | 45574 |
| | | HEM | 8 | 16 | 5/8 | 6 | 12.7 | 1/2 | 115 | 4-1/2 | TD40-115FF-3689 | 45598 |
| | | HEM | 8 | 14 | 9/16 | 8 | 12.7 | 1/2 | 120 | 4-23/32 | TD40-120FF-3692 | 45596 |
| | | HEM | 8 | 14 | 9/16 | 10 | 12.7 | 1/2 | 125 | 4-15/16 | TD40-125FF-3696 | 45556 |
| | | HEM | 8 | 16 | 5/8 | 8 | 14 | 9/16 | 130 * | 5-1/8 | TD40-130FF-3698 | 45597 |
| | | HEM | 8 | 16 | 5/8 | 10 | 14 | 9/16 | 140 * | 5-1/2 | TD40-140FF-3699 | 45537 |

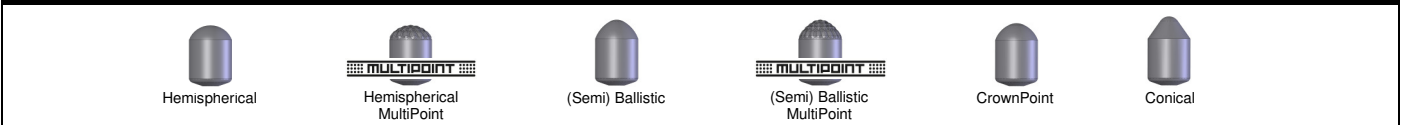
| NO. | CONCAVE 210 12 Splines 12 SPLINES 2 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|------------------|----|------|------------------|------|----------|-------|-------------|-----------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 3 | | HEM | 8 | 14 | 9/16 | 8 | 12.7 | 1/2 | 115 | 4-1/2 | TD40-115CC-3685 | 45600 |
| | | HEM / BAL | 8 | 14 | 9/16 | 8 | 12.7 | 1/2 | 115 | 4-1/2 | TD40-115CC-3686 | 45604 |
| | | HEM | 8 | 16 | 5/8 | 8 | 12.7 | 1/2 | 125 | 4-15/16 | TD40-125CC-3693 | 45601 |
| | | HEM / BAL | 8 | 16 | 5/8 | 8 | 12.7 | 1/2 | 125 | 4-15/16 | TD40-125CC-3694 | 45605 |
| | | HEM | 8 | 16 | 5/8 | 8 | 12.7 | 1/2 | 130 * | 5-1/8 | TD40-130CC-4122 | 45602 |
| | | HEM / BAL | 8 | 16 | 5/8 | 8 | 12.7 | 1/2 | 130 * | 5-1/8 | TD40-130CC-4123 | 45606 |

| NO. | CONVEX 210 12 Splines 12 SPLINES 2 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|------|------|------------------|------|----------|-------|-------------|------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 4 | | BAL | 8 | 14 | 9/16 | 8 | 12.7 | 1/2 | 110 | 4-5/16 | TD40-110CVB-3683 | 45585 |
| | | BAL | 8 | 12.7 | 1/2 | 8 | 12.7 | 1/2 | 115 | 4-1/2 | TD40-115CVB-3688 | 45586 |
| | | BAL | 8 | 14 | 9/16 | 8 | 12.7 | 1/2 | 115 | 4-1/2 | TD40-115CVB-3687 | 45593 |
| | | BAL | 8 | 14 | 9/16 | 8 | 12.7 | 1/2 | 120 | 4-23/32 | TD40-120CVB-3691 | 45587 |
| | | BAL | 8 | 14 | 9/16 | 9 | 12.7 | 1/2 | 125 | 4-15/16 | TD40-125CVB-3695 | 45588 |
| | | BAL | 8 | 14 | 9/16 | 10 | 12.7 | 1/2 | 130 * | 5-1/8 | TD40-130CVB-3697 | 45589 |

| NO. | HEDGEHOG, CONVEX 210 12 Splines 12 SPLINES 2 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|----|-----|------------------|----|----------|-----|-------------|--------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 5 | | FB | 8 | 13 | 1/2 | 8 | 12 | 15/32 | 115 | 4-1/2 | TD40-115HHCVB-3690 | 45608 |

| NO. | TD40 / QL4 BLOW TUBE | PART NUMBER | | | | | | | | | |
|-----|-------------------------|-------------|--|--|--|--|---------|--|--|--|--|
| | | USA | | | | | AUSTRIA | | | | |
| | | BTTD40-1022 | | | | | 45093 | | | | |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.
 * = No shank breakage warranty

DOWN-THE-HOLE (DTH) BITS BULROC



SHANK: BULROC 2 (BR2), ROK 20LT

| NO. | | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|----|-------|------------------|----|----------|----|-------------|-----------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 1 | | HEM | 6 | 10 | 13/32 | 5 | 10 | 13/32 | 70 | 2-3/4 | BUL2-70FF-3029 | 45135 |
| | | BAL | 6 | 10 | 13/32 | 5 | 10 | 13/32 | 70 | 2-3/4 | BUL2-70FFB-3031 | 45180 |
| | | HEM | 6 | 11 | 7/16 | 5 | 11 | 7/16 | 76 | 3 | BUL2-76FF-2960 | 45087 |
| | | HEM / BAL | 6 | 11 | 7/16 | 5 | 11 | 7/16 | 76 | 3 | BUL2-76FF-3030 | 45088 |
| | | BAL | 6 | 11 | 7/16 | 5 | 11 | 7/16 | 76 | 3 | BUL2-76FFB-3032 | 45089 |
| | | | | | | | | | | | | |

SHANK: BULROC 3/33 (BR3)

| NO. | | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | | |
|-----|--|--------------------|------------------|----|-------|------------------|----|----------|-------|-------------|------------------|---------|--|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | | |
| 2 | | FB | 8 | 11 | 7/16 | 6 | 11 | 7/16 | 85 | 3-3/8 | BUL3-85CVB-2822 | 41245 | |
| | | HEM | 8 | 12 | 15/32 | 6 | 12 | 15/32 | 90 | 3-1/2 | BUL3-90CV-2742 | 41216 | |
| | | FB | 8 | 11 | 7/16 | 8 | 11 | 7/16 | 90 | 3-1/2 | BUL3-90CVB-2823 | 41215 | |
| | | FB | 8 | 12 | 15/32 | 6 | 12 | 15/32 | 90 | 3-1/2 | BUL3-90CVB-1875 | 41238 | |
| | | CON | 8 | 12 | 15/32 | 6 | 12 | 15/32 | 90 | 3-1/2 | BUL3-90CVC-2743 | 41233 | |
| | | HEM | 8 | 12 | 15/32 | 6 | 12 | 15/32 | 95 | 3-3/4 | BUL3-95CV-2744 | 41237 | |
| | | FB | 8 | 12 | 15/32 | 6 | 12 | 15/32 | 95 | 3-3/4 | BUL3-95CVB-1402 | 41234 | |
| | | HEM | 8 | 12 | 15/32 | 8 | 12 | 15/32 | 105 | 4-1/8 | BUL3-105CV-2745 | 41239 | |
| | | FB | 8 | 12 | 15/32 | 8 | 12 | 15/32 | 105 | 4-1/8 | BUL3-105CVB-1932 | 41232 | |
| | | FB | 8 | 12 | 15/32 | 8 | 12 | 15/32 | 110 * | 4-5/16 | BUL3-110CVB-4107 | 41268 | |
| | | FB | 8 | 12 | 15/32 | 9 | 12 | 15/32 | 115 * | 4-1/2 | BUL3-115CVB-4108 | 41235 | |
| | | FB | 8 | 12 | 15/32 | 9 | 12 | 15/32 | 120 * | 4-23/32 | BUL3-120CVB-4109 | 41282 | |
| | | FB | 9 ** | 12 | 15/32 | 11 | 12 | 15/32 | 125 * | 4-15/16 | BUL3-125CVB-4110 | 41293 | |
| | | | | | | | | | | | | | |

| NO. | | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|----|------|------------------|----|----------|----|-------------|-------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 3 | | FB | 7 | 11 | 7/16 | 6 | 11 | 7/16 | 90 | 3-1/2 | BUL3-90HHCVB-4111 | 45502 |
| | | | | | | | | | | | | |

| NO. | | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|----|------|------------------|----|----------|----|-------------|-------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 4 | | FB | 7 | 11 | 7/16 | 6 | 11 | 7/16 | 90 | 3-1/2 | BUL3-90HHCVB-3784 | 45413 |
| | | | | | | | | | | | | |

SHANK: BULROC 33 (BR33), ROK 30LT

| NO. | | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|----|-------|------------------|----|----------|-----|-------------|-------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 5 | | HEM | 8 | 12 | 15/32 | 6 | 12 | 15/32 | 90 | 3-1/2 | BUL33-90CV-2728 | 45463 |
| | | FB | 8 | 12 | 15/32 | 6 | 12 | 15/32 | 90 | 3-1/2 | BUL33-90CVB-2690 | 45162 |
| | | CON | 8 | 11 | 7/16 | 6 | 11 | 7/16 | 90 | 3-1/2 | BUL33-90CVC-2378 | 45164 |
| | | HEM | 8 | 12 | 15/32 | 6 | 12 | 15/32 | 95 | 3-3/4 | BUL33-95CV-2729 | 45459 |
| | | FB | 8 | 12 | 15/32 | 6 | 12 | 15/32 | 95 | 3-3/4 | BUL33-95CVB-2732 | 45460 |
| | | HEM | 8 | 12 | 15/32 | 8 | 12 | 15/32 | 105 | 4-1/8 | BUL33-105CV-2733 | 45461 |
| | | FB | 8 | 12 | 15/32 | 8 | 12 | 15/32 | 105 | 4-1/8 | BUL33-105CVB-2741 | 45462 |
| | | | | | | | | | | | | |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.
 * = No shank breakage warranty

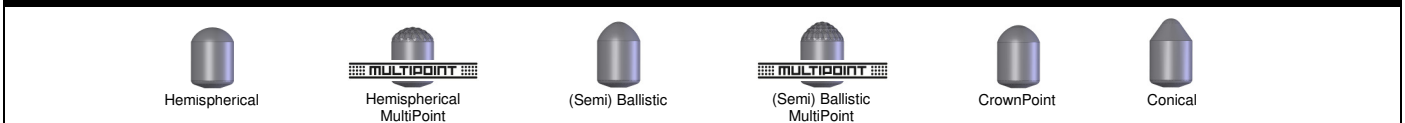
DOWN-THE-HOLE (DTH) BITS INGERSOLL-RAND



SHANK: IR 3.5

| NO. | FLAT FACE 8 SPLINES 2 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | | | |
|-----|---|--------------------|--|------|-------|------------------|-------|---------------|-----|-------------|--------------------|---------|-------------------|-------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA | | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | | | |
| 1 | | HEM | 8 | 12.7 | 1/2 | 8 | 11 | 7/16 | 105 | 4-1/8 | IR35-105FF-2590 | 45196 | | |
| 2 | CONVEX 8 SPLINES 2 FRONT FLUSHING HOLES | CON | 8 | 11 | 7/16 | 6 | 11 | 7/16 | 85 | 3-3/8 | IR35-85CVC-4112 | 45134 | | |
| | | HEM | 8 | 11 | 7/16 | 6 | 11 | 7/16 | 92 | 3-5/8 | IR35-92CV-2722 | 45070 | | |
| | | HEM / BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 92 | 3-5/8 | IR35-92CV-4113 | 45398 | | |
| | | BAL | 8 | 11 | 7/16 | 6 | 11 | 7/16 | 92 | 3-5/8 | IR35-92CVB-2596 | 45137 | | |
| | | BAL | 8 | 11 | 7/16 | 8 | 11 | 7/16 | 92 | 3-5/8 | IR35-92CVB-2833 | 45278 | | |
| | | CON | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 92 | 3-5/8 | IR35-92CVC-3766 | 45497 | | |
| | | HEM | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 95 | 3-3/4 | IR35-95CV-2723 | 45291 | | |
| | | HEM / BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 95 | 3-3/4 | IR35-95CV-4114 | 45496 | | |
| | | BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 95 | 3-3/4 | IR35-95CVB-2602 | 45290 | | |
| | | CON | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 95 | 3-3/4 | IR35-95CVC-3207 | 45412 | | |
| | | HEM | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 100 | 3-15/16 | IR35-100CV-2724 | 45263 | | |
| | | BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 100 | 3-15/16 | IR35-100CVB-2603 | 45169 | | |
| | | HEM | 8 | 12.7 | 1/2 | 8 | 11 | 7/16 | 105 | 4-1/8 | IR35-105CV-2725 | 45293 | | |
| | | BAL | 8 | 12.7 | 1/2 | 8 | 11 | 7/16 | 105 | 4-1/8 | IR35-105CVB-2726 | 45292 | | |
| | | 3 | HEDGEHOG, CONVEX 8 SPLINES 2 FRONT FLUSHING HOLES | FB | 7 | 11 | 7/16 | 6 | 11 | 7/16 | 92 | 3-5/8 | IR35-92HHCVB-3178 | 45493 |
| | | | | FB | 7 | 12 | 15/32 | 6 | 12 | 15/32 | 95 | 3-3/4 | IR35-95HHCVB-3767 | 45494 |
| FB | 7 | | | 12 | 15/32 | 6 | 12 | 15/32 | 100 | 3-15/16 | IR35-100HHCVB-3179 | 45524 | | |
| FB | 7 | | | 12 | 15/32 | 6 | 12 | 15/32 | 105 | 4-1/8 | IR35-105HHCVB-3214 | 45528 | | |
| | | | | | | | | | | | | | | |
| 4 | IR 3.5 / IR 3.5HD BLOW TUBE | | | | | | | | | PART NUMBER | | | | |
| | | | | | | | | | | USA | AUSTRIA | | | |
| | | | | | | | | BTIR35HD-1018 | | 45099 | | | | |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.
 * = No shank breakage warranty

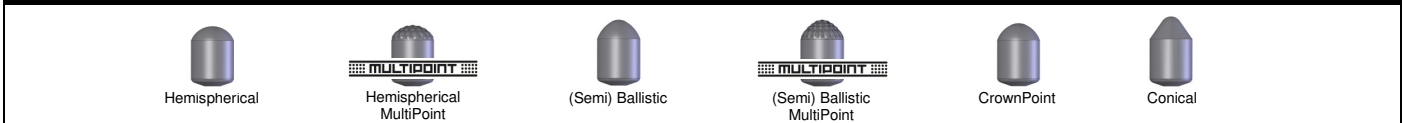
DOWN-THE-HOLE (DTH) BITS INGERSOLL-RAND



SHANK: IR 3.5HD

| NO. | FLAT FACE 8 SPLINES 2 FRONT FLUSHING HOLES | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|--|------|-------|------------------|-------|----------|-----|-------------|----------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 5 | | HEM | 8 | 14 | 9/16 | 7 | 12.7 | 1/2 | 105 | 4-1/8 | IR35HD-105FF-2832 | 45335 |
| 6 | CONVEX 8 SPLINES 2 FRONT FLUSHING HOLES | HEM | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 95 | 3-3/4 | IR35HD-95CV-2827 | 45331 |
| | | HEM / BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 95 | 3-3/4 | IR35HD-95CV-3771 | 45468 |
| | | BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 95 | 3-3/4 | IR35HD-95CVB-2828 | 45330 |
| | | CON | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 95 | 3-3/4 | IR35HD-95CVC-3772 | 45498 |
| | | HEM | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 100 | 3-15/16 | IR35HD-100CV-2829 | 45333 |
| | | HEM / BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 100 | 3-15/16 | IR35HD-100CV-4115 | 45538 |
| | | BAL | 8 | 12.7 | 1/2 | 6 | 12.7 | 1/2 | 100 | 3-15/16 | IR35HD-100CVB-2830 | 45332 |
| | | CON | 8 | 12.7 | 1/2 | 7 | 12.7 | 1/2 | 100 | 3-15/16 | IR35HD-100CVC-3768 | 45523 |
| | | HEM / BAL | 8 | 12.7 | 1/2 | 8 | 12.7 | 1/2 | 105 | 4-1/8 | IR35HD-105CV-4116 | 45336 |
| | | BAL | 8 | 12.7 | 1/2 | 8 | 12.7 | 1/2 | 105 | 4-1/8 | IR35HD-105CVB-2831 | 45334 |
| | | FB | 7 | 14 | 9/16 | 6 | 14 | 9/16 | 105 | 4-1/8 | IR35HD-105CVB-3769 | 45469 |
| | | CON | 8 | 12.7 | 1/2 | 8 | 12.7 | 1/2 | 105 | 4-1/8 | IR35HD-105CVC-4117 | 45642 |
| | | 7 | HEDGEHOG, CONVEX 8 SPLINES 2 FRONT FLUSHING HOLES | FB | 7 | 12 | 15/32 | 6 | 12 | 15/32 | 95 | 3-3/4 |
| FB | 7 | | | 12 | 15/32 | 6 | 12 | 15/32 | 100 | 3-15/16 | IR35HD-100HHCVB-4129 | 45650 |
| FB | 7 | | | 12 | 15/32 | 7 | 12 | 15/32 | 105 | 4-1/8 | IR35HD-105HHCVB-4118 | 45633 |
| | | | | | | | | | | | | |
| 8 | IR 3.5 / IR 3.5HD BLOW TUBE | | | | | | | | | | PART NUMBER | |
| | | | | | | | | | | | USA | AUSTRIA |
| | | | | | | | | | | | BTIR35HD-1018 | 45099 |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

* = No shank breakage warranty

DOWN-THE-HOLE (DTH) BITS INGERSOLL-RAND



SHANK: 340A

| NO. | FLAT FACE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----------|----------------|--------------------|------------------|------|-------|------------------|-------|----------|------------------|-------------|--------------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 9 | | HEM | 8 | 12.7 | 1/2 | 8 | 11 | 7/16 | 105 | 4-1/8 | 340A-105FF-1599 | 45032 |
| | | HEM | 8 | 12.7 | 1/2 | 8 | 11 | 7/16 | 110 | 4-5/16 | 340A-110FF-1600 | 45069 |
| | | HEM | 8 | 14 | 9/16 | 8 | 12.7 | 1/2 | 115 | 4-1/2 | 340A-115FF-914 | 45066 |
| | | HEM | 8 | 16 | 5/8 | 6 | 14 | 9/16 | 115 | 4-1/2 | 340A-115FF-3761 | 45411 |
| | | HEM / BAL | 8 | 14 | 9/16 | 8 | 12.7 | 1/2 | 115 | 4-1/2 | 340A-115FF-2796 | 45517 |
| | | HEM | 8 | 14 | 9/16 | 8 | 12.7 | 1/2 | 121 | 4-3/4 | 340A-121FF-2198 | 45341 |
| | | HEM | 8 | 16 | 5/8 | 8 | 12.7 | 1/2 | 127 * | 5 | 340A-127FF-1601 | 45165 |
| | | HEM | 8 | 16 | 5/8 | 8 | 12.7 | 1/2 | 130 * | 5-1/8 | 340A-130FF-1602 | 45195 |
| | | HEM | 8 | 16 | 5/8 | 8 | 14 | 9/16 | 140 * | 5-1/2 | 340A-140FF-735 | 45033 |
| | | HEM | 8 | 16 | 5/8 | 9 | 14 | 9/16 | 145 * | 5-3/4 | 340A-145FF-2841 | 45307 |
| | | HEM | 8 | 16 | 5/8 | 9 | 14 | 9/16 | 150 * | 5-7/8 | 340A-150FF-4104 | 45260 |
| | | 10 | | HEM | 8 | 12.7 | 1/2 | 8 | 11 | 7/16 | 105 | 4-1/8 |
| HEM | 8 | | | 12.7 | 1/2 | 8 | 11 | 7/16 | 110 | 4-5/16 | 340A-110CC-1604 | 45035 |
| HEM / BAL | 8 | | | 14 | 9/16 | 8 | 12.7 | 1/2 | 110 | 4-5/16 | 340A-110CC-3759 | 45516 |
| HEM | 8 | | | 14 | 9/16 | 8 | 12.7 | 1/2 | 115 | 4-1/2 | 340A-115CC-917 | 45212 |
| HEM / BAL | 8 | | | 14 | 9/16 | 8 | 12.7 | 1/2 | 115 | 4-1/2 | 340A-115CC-2834 | 45425 |
| HEM / BAL | 8 | | | 14 | 9/16 | 8 | 12.7 | 1/2 | 120 | 4-23/32 | 340A-120CC-3762 | 45508 |
| HEM | 8 | | | 14 | 9/16 | 8 | 12.7 | 1/2 | 121 | 4-3/4 | 340A-121CC-1439 | 45192 |
| HEM | 8 | | | 16 | 5/8 | 8 | 12.7 | 1/2 | 127 * | 5 | 340A-127CC-1605 | 45213 |
| HEM / BAL | 8 | | | 16 | 5/8 | 8 | 12.7 | 1/2 | 127 * | 5 | 340A-127CC-2836 | 45424 |
| HEM | 8 | | | 16 | 5/8 | 8 | 12.7 | 1/2 | 130 * | 5-1/8 | 340A-130CC-1606 | 45193 |
| HEM / BAL | 8 | | | 16 | 5/8 | 8 | 12.7 | 1/2 | 130 * | 5-1/8 | 340A-130CC-2838 | 45437 |
| HEM | 8 | | | 16 | 5/8 | 8 | 14 | 9/16 | 140 * | 5-1/2 | 340A-140CC-1607 | 45214 |
| HEM / BAL | 8 | 16 | 5/8 | 8 | 14 | 9/16 | 140 * | 5-1/2 | 340A-140CC-4298 | 45644 | | |
| 11 | | HEM | 8 | 14 | 9/16 | 8 | 12.7 | 1/2 | 105 | 4-1/8 | 340A-105CV-3757 | 41276 |
| | | BAL | 8 | 12.7 | 1/2 | 8 | 11 | 7/16 | 105 | 4-1/8 | 340A-105CVB-2282 | 45167 |
| | | HEM | 8 | 14 | 9/16 | 8 | 12.7 | 1/2 | 110 | 4-5/16 | 340A-110CV-4097 | 41287 |
| | | BAL | 8 | 12.7 | 1/2 | 8 | 12.7 | 1/2 | 110 | 4-5/16 | 340A-110CVB-3760 | 41294 |
| | | BAL | 8 | 14 | 9/16 | 8 | 12.7 | 1/2 | 110 | 4-5/16 | 340A-110CVB-2760 | 45443 |
| | | HEM | 8 | 14 | 9/16 | 8 | 12.7 | 1/2 | 115 | 4-1/2 | 340A-115CV-1969 | 41278 |
| | | HEM / BAL | 8 | 14 | 9/16 | 8 | 12.7 | 1/2 | 115 | 4-1/2 | 340A-115CV-4099 | 45636 |
| | | BAL | 8 | 12.7 | 1/2 | 9 | 12.7 | 1/2 | 115 | 4-1/2 | 340A-115CVB-4100 | 45075 |
| | | BAL | 8 | 14 | 9/16 | 8 | 12.7 | 1/2 | 115 | 4-1/2 | 340A-115CVB-2084 | 45067 |
| | | FB | 7 | 14 | 9/16 | 7 | 14 | 9/16 | 115 | 4-1/2 | 340A-115CVB-2835 | 45431 |
| | | CON | 8 | 12.7 | 1/2 | 9 | 12.7 | 1/2 | 115 | 4-1/2 | 340A-115CVC-4101 | 45575 |
| | | BAL | 8 | 14 | 9/16 | 8 | 12.7 | 1/2 | 120 | 4-23/32 | 340A-120CVB-3682 | 45550 |
| | | BAL | 9 ** | 12.7 | 1/2 | 11 | 12.7 | 1/2 | 127 * | 5 | 340A-127CVB-2756 | 45074 |
| | | HEM | 8 | 14 | 9/16 | 9 | 14 | 9/16 | 130 * | 5-1/8 | 340A-130CV-3778 | 45149 |
| | | HEM / BAL | 9 ** | 12.7 | 1/2 | 12 | 12.7 | 1/2 | 130 * | 5-1/8 | 340A-130CV-4103 | 45641 |
| | | BAL | 9 ** | 12.7 | 1/2 | 12 | 12.7 | 1/2 | 130 * | 5-1/8 | 340A-130CVB-3779 | 45150 |
| | | HEM | 8 | 16 | 5/8 | 9 | 14 | 9/16 | 140 * | 5-1/2 | 340A-140CV-3763 | 45151 |
| | | FB | 9 ** | 14 | 9/16 | 12 | 12 | 15/32 | 140 * | 5-1/2 | 340A-140CVB-2839 | 45152 |
| FB | 8 | 16 | 5/8 | 9 | 14 | 9/16 | 145 * | 5-3/4 | 340A-145CVB-2840 | 45328 | | |
| 12 | | FB | 8 | 13 | 1/2 | 8 | 12 | 15/32 | 110 | 4-5/16 | 340A-110HHCVB-4098 | 45539 |
| | | FB | 8 | 13 | 1/2 | 8 | 12 | 15/32 | 115 | 4-1/2 | 340A-115HHCVB-3160 | 45499 |
| | | FB | 8 | 13 | 1/2 | 8 | 12 | 15/32 | 120 | 4-23/32 | 340A-120HHCVB-4102 | 45567 |
| | | FB | 9 | 12 | 15/32 | 10 | 12 | 15/32 | 127 * | 5 | 340A-127HHCVB-3452 | 45531 |
| | | | | | | | | | | | | |
| 13 | 340A BLOW TUBE | | | | | | | | | PART NUMBER | | |
| | | | | | | | | | | USA | AUSTRIA | |
| | | | | | | | | | | BT340A-1003 | 45094 | |

CARBIDE PROFILE DESIGNS



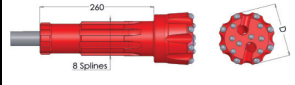
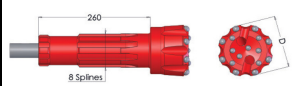
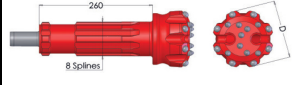
HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

* = No shank breakage warranty

DOWN-THE-HOLE (DTH) BITS INGERSOLL-RAND



SHANK: 350R

| NO. | FLAT FACE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | | | |
|-----------|--|--------------------|--|-----|------|------------------|------|-------------|-------|-------------|------------------|---------|-----------------|-------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA | | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | | | |
| 14 |  8 SPLINES 2 FRONT FLUSHING HOLES ** 3 FRONT FLUSHING HOLES | HEM | 8 | 16 | 5/8 | 8 | 12.7 | 1/2 | 130 | 5-1/8 | 350R-130FF-1608 | 45166 | | |
| | | HEM | 8 | 16 | 5/8 | 8 | 14 | 9/16 | 135 | 5-5/16 | 350R-135FF-4106 | 45549 | | |
| | | HEM | 9 ** | 16 | 5/8 | 9 | 14 | 9/16 | 135 | 5-5/16 | 350R-135FF-4301 | 45566 | | |
| | | HEM | 8 | 16 | 5/8 | 8 | 14 | 9/16 | 140 | 5-1/2 | 350R-140FF-106 | 45086 | | |
| | | HEM | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 145 | 5-3/4 | 350R-145FF-4300 | 45664 | | |
| | | HEM | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 146 | 5-3/4 | 350R-146FF-883 | 45216 | | |
| | | HEM | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 150 | 5-7/8 | 350R-150FF-2201 | 45184 | | |
| | | HEM | 9 ** | 16 | 5/8 | 9 | 14 | 9/16 | 150 | 5-7/8 | 350R-150FF-4302 | 45573 | | |
| | | HEM | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 152 * | 6 | 350R-152FF-2202 | 45344 | | |
| | | HEM | 8 | 16 | 5/8 | 10 | 16 | 5/8 | 165 * | 6-1/2 | 350R-165FF-4031 | 45673 | | |
| | | 15 |  8 SPLINES 2 FRONT FLUSHING HOLES ** 3 FRONT FLUSHING HOLES | HEM | 8 | 16 | 5/8 | 8 | 12.7 | 1/2 | 127 | 5 | 350R-127CC-1609 | 45217 |
| | | | | HEM | 8 | 16 | 5/8 | 8 | 12.7 | 1/2 | 130 | 5-1/8 | 350R-130CC-1610 | 45218 |
| HEM / BAL | 8 | | | 16 | 5/8 | 8 | 12.7 | 1/2 | 130 | 5-1/8 | 350R-130CC-2783 | 45467 | | |
| HEM / BAL | 9 ** | | | 16 | 5/8 | 9 | 14 | 9/16 | 130 | 5-1/8 | 350R-130CC-4304 | 45675 | | |
| HEM / BAL | 8 | | | 16 | 5/8 | 8 | 14 | 9/16 | 135 | 5-5/16 | 350R-135CC-4105 | 45548 | | |
| HEM / BAL | 9 ** | | | 14 | 9/16 | 9 | 14 | 9/16 | 135 | 5-5/16 | 350R-135CC-4305 | 45702 | | |
| HEM | 8 | | | 16 | 5/8 | 8 | 14 | 9/16 | 140 | 5-1/2 | 350R-140CC-107 | 45219 | | |
| HEM | 8 | | | 16 | 5/8 | 8 | 16 | 5/8 | 146 | 5-3/4 | 350R-146CC-851 | 45220 | | |
| HEM | 8 | | | 16 | 5/8 | 9 | 16 | 5/8 | 150 | 5-7/8 | 350R-150CC-2203 | 45345 | | |
| HEM / BAL | 8 | | | 16 | 5/8 | 9 | 14 | 9/16 | 150 | 5-7/8 | 350R-150CC-4303 | 45643 | | |
| HEM / BAL | 9 ** | | | 16 | 5/8 | 10 | 14 | 9/16 | 150 | 5-7/8 | 350R-150CC-4306 | 45695 | | |
| HEM | 8 | | | 16 | 5/8 | 9 | 16 | 5/8 | 152 * | 6 | 350R-152CC-737 | 45346 | | |
| HEM / BAL | 8 | | | 16 | 5/8 | 9 | 16 | 5/8 | 152 * | 6 | 350R-152CC-3393 | 45559 | | |
| HEM | 8 | | | 16 | 5/8 | 9 | 16 | 5/8 | 165 * | 6-1/2 | 350R-165CC-2188 | 45529 | | |
| HEM | 10 | | | 16 | 5/8 | 12 | 16 | 5/8 | 180 * | 7 | 350R-180CC-2404 | 45410 | | |
| 16 |  8 SPLINES 2 FRONT FLUSHING HOLES | BAL | 8 | 16 | 5/8 | 6 | 16 | 5/8 | 127 | 5 | 350R-127CVB-4299 | 45520 | | |
| | | BAL | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 140 | 5-1/2 | 350R-140CVB-2843 | 45403 | | |
| | | BAL | 8 | 16 | 5/8 | 9 | 14 | 9/16 | 146 | 5-3/4 | 350R-146CVB-2844 | 45394 | | |
| | | | | | | | | | | | | | | |
| 17 | 350R BLOW TUBE | | | | | | | | | PART NUMBER | | | | |
| | | | | | | | | | | USA | AUSTRIA | | | |
| | | | | | | | | BT350R-1004 | 45101 | | | | | |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.
 * = No shank breakage warranty

DOWN-THE-HOLE (DTH) BITS INGERSOLL-RAND



SHANK: 360, SF6

| NO. | FLAT FACE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|---|-----|-----|------------------|-----|----------|-------|-------------|-----------------|-------------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 18 | <p>8 SPLINES 2 FRONT FLUSHING HOLES ** 3 FRONT FLUSHING HOLES</p> | HEM | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 152 | 6 | 360-152FF-1173 | 41297 |
| | | HEM | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 156 | 6-1/8 | 360-156FF-794 | 41206 |
| | | HEM | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 159 | 6-1/4 | 360-159FF-117 | 41208 |
| | | HEM | 8 | 16 | 5/8 | 10 | 16 | 5/8 | 165 | 6-1/2 | 360-165FF-1098 | 41209 |
| | | HEM | 10 | 16 | 5/8 | 10 | 16 | 5/8 | 165 | 6-1/2 | 360-165FF-219 | 41296 |
| | | HEM | 10 | 16 | 5/8 | 10 | 16 | 5/8 | 172 | 6-3/4 | 360-172FF-1611 | 41213 |
| | | HEM / BAL | 9 ** | 16 | 5/8 | 10 | 16 | 5/8 | 178 * | 7 | 360-178FF-3788 | 45626 |
| | | HEM | 10 | 16 | 5/8 | 12 | 16 | 5/8 | 180 * | 7 | 360-180FF-1798 | 45277 |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 190 * | 7-1/2 | 360-190FF-2205 | 45348 |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 200 * | 7-7/8 | 360-200FF-2206 | 45350 |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 203 * | 8 | 360-203FF-843 | 41214 |
| | | 19 | <p>8 SPLINES 2 FRONT FLUSHING HOLES ** 3 FRONT FLUSHING HOLES</p> | HEM | 8 | 16 | 5/8 | 9 | 16 | 5/8 | 152 | 6 |
| HEM | 8 | | | 16 | 5/8 | 9 | 16 | 5/8 | 156 | 6-1/8 | 360-156CC-903 | 41210 |
| HEM | 8 | | | 16 | 5/8 | 9 | 16 | 5/8 | 159 | 6-1/4 | 360-159CC-118 | 41286 |
| HEM | 8 | | | 16 | 5/8 | 9 | 16 | 5/8 | 165 | 6-1/2 | 360-165CC-238 | 41291 |
| HEM | 10 | | | 16 | 5/8 | 10 | 16 | 5/8 | 165 | 6-1/2 | 360-165CC-1612 | 41257 |
| HEM | 8 | | | 19 | 3/4 | 9 | 16 | 5/8 | 172 | 6-3/4 | 360-172CC-1356 | 45436 |
| HEM | 10 | | | 16 | 5/8 | 10 | 16 | 5/8 | 172 | 6-3/4 | 360-172CC-1397 | 41258 |
| BAL | 10 | | | 16 | 5/8 | 10 | 16 | 5/8 | 172 | 6-3/4 | 360-172CCB-1891 | 45435 |
| HEM | 9 ** | | | 19 | 3/4 | 10 | 19 | 3/4 | 178 * | 7 | 360-178CC-3450 | 45637 |
| HEM | 10 | | | 19 | 3/4 | 14 | 16 | 5/8 | 190 * | 7-1/2 | 360-190CC-2102 | 45349 |
| HEM | 10 | | | 19 | 3/4 | 14 | 16 | 5/8 | 200 * | 7-7/8 | 360-200CC-226 | 45351 |
| HEM | 10 | | | 19 | 3/4 | 14 | 16 | 5/8 | 203 * | 8 | 360-203CC-225 | 41259 |
| HEM | 12 | | | 19 | 3/4 | 23 | 16 | 5/8 | 254 * | 10 | 360-254CC-3314 | 45440 |
| 20 | 360 BLOW TUBE | | | | | | | | | | | PART NUMBER |
| | | | | | | | | | | USA | AUSTRIA | |
| | | | | | | | | | | BT360-1005 | 45095 | |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

* = No shank breakage warranty

DOWN-THE-HOLE (DTH) BITS INGERSOLL-RAND



SHANK: 380

| NO. | FLAT FACE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | | |
|-----|-----------|--------------------|------------------|----|-----|------------------|----|----------|-------|-------------|----------------|-------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | | |
| 21 | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 203 | 8 | 380-203FF-1067 | 45221 | |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 207 | 8-1/8 | 380-207FF-2211 | 45362 | |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 216 | 8-1/2 | 380-216FF-1053 | 45222 | |
| | | HEM | 10 | 19 | 3/4 | 16 | 16 | 5/8 | 225 | 8-7/8 | 380-225FF-2213 | 45364 | |
| | | HEM | 10 | 19 | 3/4 | 16 | 16 | 5/8 | 229 | 9 | 380-229FF-2215 | 45366 | |
| | | HEM | 12 | 19 | 3/4 | 23 | 16 | 5/8 | 251 * | 9-7/8 | 380-251FF-2217 | 45368 | |
| | | HEM | 12 | 19 | 3/4 | 27 | 16 | 5/8 | 254 * | 10 | 380-254FF-1613 | 45223 | |
| | | HEM | 12 | 19 | 3/4 | 37 | 16 | 5/8 | 305 * | 12 | 380-305FF-3649 | 45618 | |
| 22 | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 190 | 7-1/2 | 380-190CC-2623 | 45432 | |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 194 | 7-5/8 | 380-194CC-2600 | 45464 | |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 203 | 8 | 380-203CC-232 | 45224 | |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 207 | 8-1/8 | 380-207CC-3028 | 45363 | |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 216 | 8-1/2 | 380-216CC-1147 | 45225 | |
| | | HEM | 10 | 19 | 3/4 | 16 | 16 | 5/8 | 225 | 8-7/8 | 380-225CC-2228 | 45365 | |
| | | HEM | 10 | 19 | 3/4 | 16 | 16 | 5/8 | 229 | 9 | 380-229CC-2230 | 45367 | |
| | | HEM | 12 | 19 | 3/4 | 23 | 16 | 5/8 | 251 * | 9-7/8 | 380-251CC-2051 | 45369 | |
| | | HEM | 12 | 19 | 3/4 | 23 | 16 | 5/8 | 254 * | 10 | 380-254CC-233 | 45226 | |
| | | HEM | 12 | 19 | 3/4 | 31 | 16 | 5/8 | 305 * | 12 | 380-305CC-3650 | 45617 | |
| | | 23 | 380 BLOW TUBE | | | | | | | | | PART NUMBER | |
| | | | | | | | | | | | | USA | AUSTRIA |
| | | | | | | | | | | BT380-1006 | 45115 | | |

CARBIDE PROFILE DESIGNS



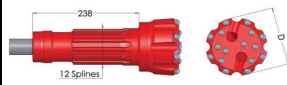
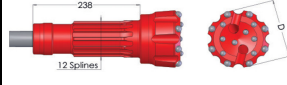
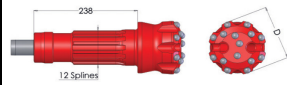
HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

* = No shank breakage warranty

DOWN-THE-HOLE (DTH) BITS INGERSOLL-RAND - QL SERIES



SHANK: QL5/QL50

| NO. | FLAT FACE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | | | |
|-----------|---|--------------------|---|-----|------|------------------|------|------------|---------|-------------|-----------------|-------------|-----------------|-------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA | | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | | | |
| 1 |  12 SPLINES 2 FRONT FLUSHING HOLES ** 3 FRONT FLUSHING HOLES | HEM | 8 | 16 | 5/8 | 8 | 12.7 | 1/2 | 130 | 5-1/8 | QL5-130FF-2066 | 45312 | | |
| | | HEM | 9** | 16 | 5/8 | 9 | 14 | 9/16 | 135 | 5-5/16 | QL5-135FF-4309 | 45683 | | |
| | | HEM | 8 | 16 | 5/8 | 8 | 14 | 9/16 | 140 | 5-1/2 | QL5-140FF-2067 | 45314 | | |
| | | HEM | 8 | 16 | 5/8 | 10 | 14 | 9/16 | 140 | 5-1/2 | QL5-140FF-4308 | 45569 | | |
| | | HEM | 9** | 16 | 5/8 | 9 | 14 | 9/16 | 140 | 5-1/2 | QL5-140FF-3481 | 45681 | | |
| | | HEM | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 146 | 5-3/4 | QL5-146FF-2068 | 45316 | | |
| | | HEM | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 152* | 6 | QL5-152FF-2220 | 45378 | | |
| | | HEM | 8 | 16 | 5/8 | 10 | 16 | 5/8 | 165* | 6-1/2 | QL5-165FF-3384 | 45560 | | |
| | | 2 |  12 SPLINES 2 FRONT FLUSHING HOLES ** 3 FRONT FLUSHING HOLES | HEM | 8 | 16 | 5/8 | 8 | 12.7 | 1/2 | 127 | 5 | QL5-127CC-2069 | 45311 |
| HEM | 8 | | | 16 | 5/8 | 8 | 12.7 | 1/2 | 130 | 5-1/8 | QL5-130CC-2070 | 45313 | | |
| HEM / BAL | 8 | | | 16 | 5/8 | 6 | 16 | 5/8 | 130 | 5-1/8 | QL5-130CC-3780 | 45487 | | |
| HEM / BAL | 9** | | | 16 | 5/8 | 9 | 14 | 9/16 | 130 | 5-1/8 | QL5-130CC-4310 | 45669 | | |
| BAL | 8 | | | 16 | 5/8 | 6 | 16 | 5/8 | 130 | 5-1/8 | QL5-130CCB-3776 | 45505 | | |
| HEM / BAL | 8 | | | 16 | 5/8 | 6 | 16 | 5/8 | 135 | 5-5/16 | QL5-135CC-2937 | 45489 | | |
| HEM / BAL | 9** | | | 14 | 9/16 | 9 | 14 | 9/16 | 135 | 5-5/16 | QL5-135CC-4311 | 45630 | | |
| HEM | 9** | | | 14 | 9/16 | 9 | 14 | 9/16 | 135 | 5-5/16 | QL5-135CC-4312 | 45631 | | |
| HEM | 8 | | | 16 | 5/8 | 8 | 14 | 9/16 | 140 | 5-1/2 | QL5-140CC-2071 | 45315 | | |
| HEM / BAL | 8 | | | 16 | 5/8 | 8 | 14 | 9/16 | 140 | 5-1/2 | QL5-140CC-2801 | 45564 | | |
| HEM | 8 | | | 16 | 5/8 | 8 | 16 | 5/8 | 146 | 5-3/4 | QL5-146CC-2072 | 45317 | | |
| HEM / BAL | 8 | | | 16 | 5/8 | 8 | 16 | 5/8 | 146 | 5-3/4 | QL5-146CC-3777 | 45490 | | |
| HEM / BAL | 9** | | | 16 | 5/8 | 9 | 14 | 9/16 | 150 | 5-7/8 | QL5-150CC-4313 | 45670 | | |
| HEM | 8 | | | 16 | 5/8 | 9 | 16 | 5/8 | 152* | 6 | QL5-152CC-2236 | 45379 | | |
| HEM / BAL | 9** | | | 16 | 5/8 | 9 | 16 | 5/8 | 152* | 6 | QL5-152CC-3313 | 45544 | | |
| HEM | 8 | | | 16 | 5/8 | 9 | 16 | 5/8 | 165* | 6-1/2 | QL5-165CC-2786 | 45530 | | |
| HEM | 10 | | | 16 | 5/8 | 12 | 16 | 5/8 | 180* | 7 | QL5-180CC-3305 | 45541 | | |
| 3 |  12 SPLINES 2 FRONT FLUSHING HOLES ** 3 FRONT FLUSHING HOLES | | | BAL | 8 | 16 | 5/8 | 7 | 16 | 5/8 | 130 | 5-1/8 | QL5-130CVB-3027 | 45506 |
| | | | | BAL | 9** | 14 | 9/16 | 9 | 16 | 5/8 | 130 | 5-1/8 | QL5-130CVB-3325 | 45547 |
| | | | | BAL | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 135 | 5-5/16 | QL5-135CVB-3026 | 45507 |
| | | | | BAL | 9** | 14 | 9/16 | 10 | 14 | 9/16 | 135 | 5-5/16 | QL5-135CVB-4307 | 45662 |
| | | BAL | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 140 | 5-1/2 | QL5-140CVB-2901 | 45522 | | |
| | | BAL | 9** | 14 | 9/16 | 10 | 14 | 9/16 | 140 | 5-1/2 | QL5-140CVB-3381 | 45557 | | |
| | | 4 | QL5/QL50 BLOW TUBE | | | | | | | | | PART NUMBER | | |
| | | | | | | | | USA | AUSTRIA | | | | | |
| | | | | | | | | BTQL5-1013 | 45116 | | | | | |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.
 * = No shank breakage warranty

DOWN-THE-HOLE (DTH) BITS INGERSOLL-RAND - QL SERIES



SHANK: QL6/QL60

| NO. | FLAT FACE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | | |
|-----|--------------------|--------------------|------------------|-----|-----|------------------|-----|----------|-------|-------------|-----------------|-------------|-----------------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA | |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | | |
| 5 | | HEM | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 152 | 6 | QL6-152FF-1623 | 45235 | |
| | | HEM | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 155 | 6.1 | QL6-155FF-2118 | 45380 | |
| | | HEM | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 156 | 6-1/8 | QL6-156FF-1938 | 45382 | |
| | | HEM | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 159 | 6-1/4 | QL6-159FF-2219 | 45384 | |
| | | HEM | 8 | 16 | 5/8 | 10 | 16 | 5/8 | 165 | 6-1/2 | QL6-165FF-1180 | 45236 | |
| | | HEM | 8 | 19 | 3/4 | 10 | 16 | 5/8 | 165 | 6-1/2 | QL6-165FF-1049 | 45473 | |
| | | HEM | 10 | 16 | 5/8 | 10 | 16 | 5/8 | 165 | 6-1/2 | QL6-165FF-1624 | 45241 | |
| | | HEM | 8 | 19 | 3/4 | 10 | 16 | 5/8 | 172 | 6-3/4 | QL6-172FF-1350 | 45237 | |
| | | HEM | 8 | 19 | 3/4 | 8 | 19 | 3/4 | 172 | 6-3/4 | QL6-172FF-2815 | 45474 | |
| | | HEM | 10 | 16 | 5/8 | 10 | 16 | 5/8 | 172 | 6-3/4 | QL6-172FF-1625 | 45242 | |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 190 * | 7-1/2 | QL6-190FF-2221 | 45386 | |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 200 * | 7-7/8 | QL6-200FF-2222 | 45388 | |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 203 * | 8 | QL6-203FF-2356 | 45421 | |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 219 * | 8-5/8 | QL6-219FF-2946 | 45491 | |
| | | HEM | 12 | 19 | 3/4 | 23 | 16 | 5/8 | 244 * | 9-5/8 | QL6-244FF-3148 | 45521 | |
| 6 | | HEM | 8 | 16 | 5/8 | 9 | 16 | 5/8 | 152 | 6 | QL6-152CC-2233 | 45238 | |
| | | HEM | 9 ** | 19 | 3/4 | 9 | 16 | 5/8 | 152 | 6 | QL6-152CC-2578 | 45445 | |
| | | HEM | 8 | 16 | 5/8 | 9 | 16 | 5/8 | 155 | 6.1 | QL6-155CC-2117 | 45381 | |
| | | HEM | 9 ** | 19 | 3/4 | 9 | 16 | 5/8 | 155 | 6.1 | QL6-155CC-2580 | 45446 | |
| | | HEM | 8 | 16 | 5/8 | 9 | 16 | 5/8 | 156 | 6-1/8 | QL6-156CC-1920 | 45383 | |
| | | HEM | 9 ** | 19 | 3/4 | 9 | 16 | 5/8 | 156 | 6-1/8 | QL6-156CC-2694 | 45447 | |
| | | HEM | 8 | 16 | 5/8 | 9 | 16 | 5/8 | 159 | 6-1/4 | QL6-159CC-1955 | 45385 | |
| | | HEM | 9 ** | 19 | 3/4 | 9 | 16 | 5/8 | 159 | 6-1/4 | QL6-159CC-2695 | 45448 | |
| | | HEM | 8 | 16 | 5/8 | 9 | 16 | 5/8 | 165 | 6-1/2 | QL6-165CC-1102 | 45239 | |
| | | HEM | 8 | 19 | 3/4 | 9 | 16 | 5/8 | 165 | 6-1/2 | QL6-165CC-2391 | 45475 | |
| | | HEM | 9 ** | 19 | 3/4 | 10 | 16 | 5/8 | 165 | 6-1/2 | QL6-165CC-2670 | 45449 | |
| | | HEM | 10 | 16 | 5/8 | 10 | 16 | 5/8 | 165 | 6-1/2 | QL6-165CC-1626 | 45243 | |
| | | HEM | 10 | 19 | 3/4 | 12 | 16 | 5/8 | 165 | 6-1/2 | QL6-165CC-2367 | 45476 | |
| | | HEM | 8 | 16 | 5/8 | 9 | 16 | 5/8 | 172 | 6-3/4 | QL6-172CC-1278 | 45240 | |
| | | HEM | 9 ** | 19 | 3/4 | 10 | 16 | 5/8 | 172 | 6-3/4 | QL6-172CC-2599 | 45450 | |
| | | HEM | 10 | 16 | 5/8 | 10 | 16 | 5/8 | 172 | 6-3/4 | QL6-172CC-1410 | 45244 | |
| | | HEM | 10 | 19 | 3/4 | 10 | 16 | 5/8 | 172 | 6-3/4 | QL6-172CC-2247 | 45477 | |
| | | HEM | 10 | 16 | 5/8 | 12 | 16 | 5/8 | 180 | 7 | QL6-180CC-2437 | 45470 | |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 190 * | 7-1/2 | QL6-190CC-2223 | 45387 | |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 200 * | 7-7/8 | QL6-200CC-2224 | 45389 | |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 220 * | 8-5/8 | QL6-220CC-2583 | 45518 | |
| | | 7 | | HEM | 10 | 16 | 5/8 | 10 | 16 | 5/8 | 152 | 6 | QL6-152CCV-2425 |
| HEM | 10 | | | 16 | 5/8 | 10 | 16 | 5/8 | 155 | 6.1 | QL6-155CCV-2250 | 45452 | |
| HEM | 10 | | | 16 | 5/8 | 10 | 16 | 5/8 | 156 | 6-1/8 | QL6-156CCV-2692 | 45453 | |
| HEM | 10 | | | 16 | 5/8 | 10 | 16 | 5/8 | 159 | 6-1/4 | QL6-159CCV-2693 | 45454 | |
| HEM | 10 | | | 16 | 5/8 | 10 | 16 | 5/8 | 165 | 6-1/2 | QL6-165CCV-2449 | 45455 | |
| HEM | 10 | | | 16 | 5/8 | 10 | 16 | 5/8 | 172 | 6-3/4 | QL6-172CCV-2450 | 45456 | |
| HEM | 10 | | | 19 | 3/4 | 9 | 16 | 5/8 | 172 | 6-3/4 | QL6-172CCV-1959 | 45478 | |
| HEM | 10 | | | 19 | 3/4 | 8 | 19 | 3/4 | 172 | 6-3/4 | QL6-172CCV-2589 | 45479 | |
| 8 | QL6/QL60 BLOW TUBE | | | | | | | | | | | PART NUMBER | |
| | | | | | | | | | | | | USA | AUSTRIA |
| | | | | | | | | | | BTQL6-1014 | 45097 | | |

CARBIDE PROFILE DESIGNS

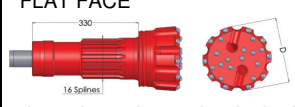
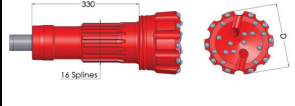


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 Note: Some button bits may not be offered with a particular carbide design shown above.
 * = No shank breakage warranty

DOWN-THE-HOLE (DTH) BITS INGERSOLL-RAND - QL SERIES



SHANK: QL8/QL80

| NO. | FLAT FACE  | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|----|-----|------------------|----|----------|-------|-------------|----------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 9 | 16 SPLINES 2 FRONT FLUSHING HOLES | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 203 | 8 | QL8-203FF-2073 | 45318 |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 216 | 8-1/2 | QL8-216FF-2074 | 45320 |
| | | HEM | 12 | 19 | 3/4 | 27 | 16 | 5/8 | 254 * | 10 | QL8-254FF-2075 | 45322 |
| | | HEM | 12 | 19 | 3/4 | 37 | 16 | 5/8 | 305 * | 12 | QL8-305FF-3233 | 45620 |
| NO. | CONCAVE  | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 10 | 16 SPLINES 2 FRONT FLUSHING HOLES | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 203 | 8 | QL8-203CC-2076 | 45319 |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 207 | 8-1/8 | QL8-207CC-2227 | 45390 |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 216 | 8-1/2 | QL8-216CC-2077 | 45321 |
| | | HEM | 10 | 19 | 3/4 | 16 | 16 | 5/8 | 225 | 8-7/8 | QL8-225CC-2229 | 45391 |
| | | HEM | 10 | 19 | 3/4 | 16 | 16 | 5/8 | 229 | 9 | QL8-229CC-2231 | 45392 |
| | | HEM | 12 | 19 | 3/4 | 23 | 16 | 5/8 | 254 * | 10 | QL8-254CC-2078 | 45323 |
| | | HEM | 12 | 19 | 3/4 | 31 | 16 | 5/8 | 305 * | 12 | QL8-305CC-3648 | 45619 |
| NO. | QL8/QL80 BLOW TUBE | | | | | | | | | PART NUMBER | | |
| | | | | | | | | | | USA | AUSTRIA | |
| | | | | | | | | | | BTQL8-1015 | 45117 | |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

* = No shank breakage warranty

DOWN-THE-HOLE (DTH) BITS SANDVIK - MISSION



SHANK: MI6, M60

| NO. | FLAT FACE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|----|-----|------------------|----|----------|-------|-------------|----------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 1 | <p>12 SPLINES 2 FRONT FLUSHING HOLES</p> | HEM | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 156 | 6-1/8 | MI6-156FF-2370 | 45708 |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 203 * | 8 | MI6-203FF-2371 | 45709 |

| NO. | CONCAVE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|--|--------------------|------------------|----|-----|------------------|----|----------|-----|-------------|----------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 2 | <p>12 SPLINES 2 FRONT FLUSHING HOLES</p> | HEM | 8 | 16 | 5/8 | 9 | 16 | 5/8 | 156 | 6-1/8 | MI6-156CC-2002 | 45356 |
| | | HEM | 8 | 16 | 5/8 | 9 | 16 | 5/8 | 165 | 6-1/2 | MI6-165CC-1976 | 45358 |
| | | HEM | 8 | 16 | 5/8 | 9 | 16 | 5/8 | 172 | 6-3/4 | MI6-172CC-2024 | 45361 |

SHANK: 5315, SD6

| NO. | FLAT FACE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|------------------|----|-----|------------------|----|----------|-------|-------------|-----------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 3 | <p>8 SPLINES 2 FRONT FLUSHING HOLES</p> | HEM | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 152 | 6 | 5315-152FF-1175 | 45003 |
| | | HEM | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 156 | 6-1/8 | 5315-156FF-673 | 45010 |
| | | HEM | 8 | 16 | 5/8 | 8 | 16 | 5/8 | 159 | 6-1/4 | 5315-159FF-112 | 45011 |
| | | HEM | 8 | 16 | 5/8 | 10 | 16 | 5/8 | 165 | 6-1/2 | 5315-165FF-1100 | 45037 |
| | | HEM | 10 | 16 | 5/8 | 10 | 16 | 5/8 | 165 | 6-1/2 | 5315-165FF-217 | 45015 |
| | | HEM | 10 | 16 | 5/8 | 10 | 16 | 5/8 | 172 | 6-3/4 | 5315-172FF-1637 | 45016 |
| | | HEM | 10 | 16 | 5/8 | 10 | 16 | 5/8 | 178 * | 7 | 5315-178FF-2207 | 45042 |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 190 * | 7-1/2 | 5315-190FF-2208 | 45024 |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 200 * | 7-7/8 | 5315-200FF-2209 | 45026 |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 203 * | 8 | 5315-203FF-830 | 45017 |

| NO. | CONCAVE | CARBIDE DIMENSIONS | | | | | | DIAMETER | | PART NUMBER | | |
|-----|---|--------------------|------------------|----|-----|------------------|----|----------|-------|-------------|-----------------|---------|
| | | CARBIDE DESIGN | GAUGE NO. X DIA. | | | FRONT NO. X DIA. | | | D | | USA | AUSTRIA |
| | | | No. | mm | In. | No. | mm | In. | mm | In. | | |
| 4 | <p>8 SPLINES 2 FRONT FLUSHING HOLES</p> | HEM | 8 | 16 | 5/8 | 9 | 16 | 5/8 | 152 | 6 | 5315-152CC-111 | 45012 |
| | | HEM | 8 | 16 | 5/8 | 9 | 16 | 5/8 | 156 | 6-1/8 | 5315-156CC-901 | 45013 |
| | | HEM | 8 | 16 | 5/8 | 9 | 16 | 5/8 | 159 | 6-1/4 | 5315-159CC-114 | 45014 |
| | | HEM | 8 | 16 | 5/8 | 9 | 16 | 5/8 | 165 | 6-1/2 | 5315-165CC-236 | 45038 |
| | | HEM | 10 | 16 | 5/8 | 10 | 16 | 5/8 | 165 | 6-1/2 | 5315-165CC-1638 | 45018 |
| | | HEM | 10 | 16 | 5/8 | 10 | 16 | 5/8 | 172 | 6-3/4 | 5315-172CC-1422 | 45019 |
| | | HEM | 10 | 16 | 5/8 | 10 | 16 | 5/8 | 178 * | 7 | 5315-178CC-1853 | 45043 |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 190 * | 7-1/2 | 5315-190CC-1845 | 45025 |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 200 * | 7-7/8 | 5315-200CC-2210 | 45027 |
| | | HEM | 10 | 19 | 3/4 | 14 | 16 | 5/8 | 203 * | 8 | 5315-203CC-1364 | 45020 |

| NO. | 5315 BLOW TUBE | PART NUMBER | |
|-----|----------------|-------------|---------|
| | | USA | AUSTRIA |
| | | BT5315-1010 | 45036 |

CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

* = No shank breakage warranty

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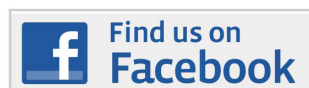
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