550 SERIES

Features sleeved retainers. For use in Augering, Trenching, Milling and HDD backreamers.

550CSF24
Flared body for block protection and improved rotation. Unique low energy carbide design increases penetration.

550CS24
Same carbide features as 550CSF24 except no flared body design. Puller groove for easy removal.

550CS
Pointed cap design for hard inconsistent cutting conditions. Puller groove for easy removal.

550MS
Slender profile design to increase penetration in soft cutting conditions. Puller groove for easy removal.

550BLK
Long base and chamfers for increased weld area and penetration. Machine finish to insure tight tolerances to improve block life and tool performance.
735 SERIES

735LB
This point attack tool with slim nose profile is designed for deep penetration in light cutting conditions for trenching, boring and augering machines.

735CB
This tool features an extra-large tungsten carbide tip which helps extend tool life by reducing steel wear, and is normally used when abrasive cutting conditions are encountered.

735MRW
This tool features an extra-long shank for external retention. Available in 1/2" diameter carbide, specify 735-HR.

735BLK
(Standard)

735HDBLK
These blocks are designed to hold the 735 tools solidly in position while providing a free-rotating, self-sharpening action.

735CBF
This tool features an extra-large tungsten carbide tip which helps extend tool life by reducing steel wear, and is normally used when abrasive cutting conditions are encountered. Flared head design protects block and reduces seating.

735MRW
This tool features an extra-long shank for external retention. Available in 1/2" diameter carbide, specify 735-HR.

735HDBLK
These blocks are designed to hold the 735 tools solidly in position while providing a free-rotating, self-sharpening action.

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This tool features an extra-large tungsten carbide tip which helps extend tool life by reducing steel wear, and is normally used when abrasive cutting conditions are encountered. Flared head design protects block and reduces seating.

735MRW
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735HDBLK
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735HDBLK
These blocks are designed to hold the 735 tools solidly in position while providing a free-rotating, self-sharpening action.

735CBF
This tool features an extra-large tungsten carbide tip which helps extend tool life by reducing steel wear, and is normally used when abrasive cutting conditions are encountered. Flared head design protects block and reduces seating.
**765 SERIES**

**765CB**
With an extra-large capped carbide tip, this tool is excellent for horizontal augers, vertical augers, trenchers, and ditching equipment in abrasive cutting conditions.

**765HB**
This tool performs well in tough conditions such as concrete, solid limestone, and ultra hard rock, and it is an excellent heavy-duty tool for trenching and ditching applications.

**765MB**
This tool is used in trenching, boring, and augering applications, and is recommended when faster penetration rates are required in light and medium duty cutting conditions.

**765CBF**
With an extra-large capped carbide tip, this tool is excellent for horizontal augers, vertical augers, trenchers, and ditching equipment in abrasive cutting conditions. Flared head design protects block and reduces seating.

**765HS**
This tool performs well in tough conditions such as concrete, solid limestone, and ultra hard rock.

**765BLK**
These blocks are designed to hold the 765 tools solidly in position while providing a free rotating, self-sharpening action.

**765HDBLK**

**765HRBLK**
Block designed .393” (10mm) taller than standard for additional clearance when needed. For use with sleeved, band or externally retained tools. Block width is 1.688” (42.9 mm).

**765BLK**

**765LBSER**
1.00” high base for use with 765BLK.

---

*The carbide geometry used is covered under U.S. Patent No. 4,938,538.*
This tool has the same carbide tip as the 765CS2FP. It features a larger steel body to provide more wear resistance in abrasive conditions where steel wash shortens tool life.

For No Puller Groove, specify 765CSFPHD.

765CSFP38

Same design as 765CSFP29 except for short height carbide to increase carbide fracture resistance when milling concrete or on reclaimers in extreme cutting conditions.

For No Puller Groove, specify 765CSF38.

765CSF

This tool has a wide flanged shank that offers added protection. The full cap carbide provides maximum performance in abrasive conditions on rock wheels, small utility planers and recyclers.

For Puller Groove, specify 765CSFP.

765CSFP58

This tool has a patented cap carbide design that provides maximum penetration. A wide carbide base reduces steel wash on body, increasing tool life. An excellent application for mainline milling and recycling trains. This tool includes a puller groove for easy removal.

For No Puller Groove specify 765CSF58

765CSFP68

Patented carbide geometry allows for consistent performance in all cutting conditions. Tip design of carbide maintains same diameter in tough cutting conditions (carbide wear) and wide base reduces steel wash in abrasive conditions. This allows machine to maintain high tram speed, increase tool life and improve production rates.

For Puller Groove specify 765CSFP68

765CSFP48HD

For use where large base carbides slow machine speed. Large profiled tip with small base to improve cutting in tough carbide wear conditions while maintaining slender design. Increased steel in wear areas to improve performance in abrasive conditions. Flared body design protects block.

For No Puller Groove, specify 765CSFPHD.

765CSFP67HD

Patented carbide geometry combines large barrel diameter to improve performance in carbide wear applications and small base to maintain machine tram speed throughout life of the tool. Has puller groove for easy removal and flared head for block protection.

For No Puller Groove specify 765CSF67HD

* The carbide geometry used is covered by U.S. Patent No. 4,938,538
** The carbide geometry used is covered by U.S. Patent No. 6,270,165
These tools feature unique designed sleeve to enhance rotation in worn blocks, reduce tool binding caused by tail of tool rubbing on block bore and improve tool installation. Unique washer design provides new face on worn blocks for tool to seat correctly and enhance rotation. Diameter of washer improves exterior block protection while curved design improves rotation and material removal. Tools pictured feature puller groove for easy installation and removal.

NOTE: ALSO AVAILABLE WITHOUT PULLER GROOVE.
875 SERIES

875HS
This tool is engineered with a large 1/2" insert that allows maximum performance in severe cutting conditions and concrete where abrasive steel wear is not a problem.

For abrasive conditions specify 875CS.

875HSFP
This tool provides maximum performance in severe cutting conditions. Wide flanged surface protects block and reduces seating. Has puller groove for easy removal.

For No Puller Groove, specify 875HSP.

875CSF
This tool provides full cap protection in abrasive conditions. The wide flanged shank allows maximum block protection with minimal seating. Excellent for use on reclaimers.

For Puller Groove specify 875CSFP.

875CSF24
This tool's profiled carbide increases penetration in abrasive conditions. Wide flanged surface reduces block wear.

For Puller Groove specify 875CSFP24.

875CSFP38
This tool has profiled carbide tip to maximize penetration. Shortened carbide height increases resistance to carbide fracturing in extremely hard conditions. Wide flanged body design provides block protection and minimizes seating. Excellent design for use on rock saw wheels and reclaimers.

For No Puller Groove, specify 875CSF38.

875CSFP29
This tool has a cap carbide design that provides maximum penetration. A wide carbide base reduces steel wash on body, increasing tool life. An excellent application for mainline milling and reclaimers.

For No Puller Groove, specify 875CSF29.
875 SERIES

875CSF58
Patented carbide design features wide tip and base for improved performance in hard cutting conditions (carbide wear) by increasing carbide wear and reducing carbide breakage. Unique low energy carbide geometry can maintain penetration rates while providing improved wear.

For Puller Groove, specify 875CSFP58

875CSF68
Same features as K1LA-2248-58XX except carbide tip is taller for longer tool life. (NOTE: In some conditions, tip loss could be experienced. If this happens, use the K1LA-2248-58XX.)

For Puller Groove, specify 875CSFP68

875CSFP67
Patented carbide geometry combines large barrel diameter to improve performance in carbide wear applications and small base to maintain machine tram speed throughout life of the tool. Has puller groove for easy removal and flared head for block protection. Excellent for use on rock saws and reclaimers in hard cutting conditions.

For No Puller Groove, specify 875CSF67

875HDBLK
This heavy-duty block is designed to hold 875 series tools solidly in position while providing a free rotating, self-sharpening action.

For Internal Groove, specify 875HDGBLK

875HRBLK
Block designed .393” (10 mm) taller than standard for additional clearance when needed. For use with sleeved or externally retained tools. Block width is 1.688” (42.9 mm).

875MPHBLK
This is a high rise block designed for use on reclaimers.

875MPHEBBLK
This block is 2.00” taller than 875MPHBLK and is ideal for use on 34” diameter drums on reclaimers.

* The carbide geometry used is covered under U.S. Patent No. 4,938,538.
** The carbide geometry used is covered under U.S. Patent No. 6,270,165.
990 FLARE SERIES

These tools feature a wide 2.50" head design to help reduce seating in the block, and to keep cuttings out of the bore, which can hinder rotation. The flared head also will protect the block face from excessive wear, thus reducing block changes. All have external retention for use on new or worn blocks.

**990HRF225**
Tool has 2.75" (70mm) gauge and slim nose design to increase penetration in softer cutting conditions. Carbide is 1/2" diameter insert.

**990SRF1325**
Has smaller tip diameter than 990SRF25. For use in medium, abrasive materials.

**990SRF25**
This tool features a large diameter insert carbide for use in hard rock cutting conditions where carbide wear determines tool life. Double angle carbide tip design improves resistance to fracturing in high impact applications.

**990HRF25**
This tool has a 1/2" diameter insert carbide and is designed for general purpose use.
**990 FLARE SERIES**

**990CRF2225**
This tool features a 1.00" diameter based carbide cap with profiled tip to increase tool life in abrasive conditions where steel wear is a problem. The profiled carbide tip increases penetration over standard designs.

**990CRF2325**
Same design features as 990CRF2225 except larger carbide barrel diameter to increase tool life in severe conditions where tool life is determined by carbide wear.

**990CRF5625**
Large profiled carbide design to maintain penetration while increasing tool life in extremely hard conditions where carbide wear is a problem. Profiled design of carbide allows tool to maximize chip size of material to increase productivity.

**990CRF25**
This tool has capped carbide to help extend tool life in abrasive conditions (i.e., sandstone or shale), where steel wash, not carbide wear is a problem.

* The carbide geometry used is covered under U.S. Patent No. 4,938,538.

**921BLK50**
This is a heavy duty block for use with 990 series tools. This block features: 1) an improved attack angle to maximize tool performance; 2) built-in gusset designed for added strength; 3) “V” design on the face to reduce washout on the front of the block; 4) increased base length to improve welding, and 5) a beveled base to improve weld penetration.

For applications where bolt clearance is needed, specify **921BLK50MOD** with 2.00" base length.
This tool has a 1/2” diameter insert carbide and is designed for general purpose use.

This tool has capped carbide to help extend tool life in abrasive conditions (i.e., sandstone or shale), where steel wash, not carbide wear is a problem.

This tool features a large diameter insert carbide for use in hard rock cutting conditions where carbide wear determines tool life. Double angle carbide tip design improves resistance to fracturing in high impact applications.

This tool features a 1.00” diameter based carbide cap with profiled tip to increase tool life in abrasive conditions where steel wear is a problem. The profiled carbide tip increases penetration over standard designs.

This tool is designed for medium cutting conditions in trenching, tunneling, and augering. A puller groove provides easy tool removal and spring band retainer provides positive retention.

This tool has a 1/2” diameter carbide for severe cutting conditions in trenching, tunneling, and augering. This tool features a spring band retainer for positive retention and a puller groove for easy removal. Also available with capped carbide for abrasive conditions — specify 990CB

Slim design holder for 990 series tools. Can be used with band or external keeper. Ideal for use on core barrels and foundation augers where close spacing is needed. Block diameter is 1.98” (50.4mm). Block attack angle is 45 degrees.

* The carbide geometry used is covered under U.S. Patent No. 4,938,538.
55, 56 SERIES

56 series tools feature 2.00” flared heads to reduce “peening” which hinders rotation of the tool.

56 has a slim profile for better penetration in soft conditions. The flanged head provides added block protection.

Available in 1.00” longer gage specify 56-2.

<table>
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<td>56-2</td>
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</tr>
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</table>

56 has a slim profile for better penetration in soft conditions. The flanged head provides added block protection.

Available in 1.00” longer gage specify 56-2.

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<tr>
<th>CAT. NO.</th>
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<td>56-2</td>
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</table>

56HS

This tool features a large diameter carbide for severe cutting applications, and a flanged head for block protection. Double angle carbide tip design improves resistance to fracturing in high impact applications.

56XHSH

This tool features a large diameter carbide with extra long length for severe rock cutting conditions. The 2.68” gage allows you to use the full length of the carbide without losing cutting clearance for the block. Double angle carbide tip design improves resistance to fracturing in high impact applications.

55S

These tools are engineered with large diameter 75-degree angle carbide that provides extended tool life in tunneling, augering, and trenching applications. They are available in 1.00” longer gage where penetration and clearance are needed. Specify 551S.

<table>
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56HC23

This tool features a heavy-duty capped carbide to reduce steel wash and increase tool performance. This will allow maximum tool life in abrasive conditions where steel wash, not carbide wear, is a problem.

*The carbide geometry used is covered under U.S. Patent No. 4,938,538.
These tools feature a wide 2.50” flared head design to help reduce seating in the block, and to keep cuttings out of the bore, which can hinder rotation. The flared head also will protect the block face from excessive wear, thus reducing block changes. All have external retention for use on new or worn blocks. NOTE: 66 series tools are used with 56 series blocks. NOTE: ALSO AVAILABLE WITH LOCKWASHER RETAINERS.

### FOR USE WITH 55, 56 AND 66 SERIES TOOLS

**56BLK50**

56BLK50 is a heavy-duty block for use with 55, 56 and 66 series tools. This block features: 1) an improved attack angle to maximize tool performance; 2) built-in gusset designed for added strength; 3) “V” design on the face to reduce washout on the front of the block; 4) increased base length to improve welding; and 5) a beveled base to improve weld penetration.

For applications where bold clearance is needed, please specify 56BLK50MOD with shorter 2.00” length base.

### 66 SERIES

**THE 66 SERIES OF TOOLS FEATURES A LARGE FLARED HEAD DESIGN**

**66HS**

This tool is similar to 56HS but has a 2.50” wide shoulder for block protection and better rotation. Double angle carbide tip design improves resistance to fracturing in high impact applications.

**66HC23**

66HC23 is similar to 56HC23 but has a 2.50” wide shoulder for block protection and better rotation.

For 2.75”/70mm gage, specify 66HC23275*.

For 3.50”/89mm gage, specify 66HC2335*.

### CAT. NO. DIM. (A) DIM. (B)

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<td>3.000</td>
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<tr>
<td>66XHSH35</td>
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</table>

### 66-234

This tool has a slim profile to increase penetration and productivity in softer conditions. Large 2.50” wide shoulder for complete block protection and a 1/2” diameter insert carbide.

For 3.50”/89mm gage, specify 66-2.

### 66XHSH

66XHSH is similar to 56XHSH but has a 2.50” wide shoulder for block protection and better rotation. Double angle carbide tip design improves resistance to fracturing in high impact applications.

For 3.00”/76mm gage, specify 66XHSH3.

For 3.50”/89mm gage, specify 66XHSH35.

### CAT. NO. DIM. (A) DIM. (B)

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### 56BLK46HD

Extra wide block for 55, 56 and 66 series tools. 45° Attack angle. Can be used with other 45° holders. Width – 3” (76 mm).
66 SERIES

66HC56275
Large profiled carbide to increase penetration thus increase chip size of cutting in layered and solid rock conditions. Low energy profiled carbide design keeps tool sharp while providing increased performance.

For 3.00”/76.2mm gage, specify 66HC563.
For 3.50”/89mm gage, specify 66HC5635.

<table>
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</table>

66BC35
This tool features large carbide cap design to improve tool performance in hard abrasive conditions. Carbide covers top of tool to reduce steel wash on body. For use in layered rock.

For 3.00”/76.2mm gage, specify 66BC3.

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<td></td>
<td>6.440</td>
<td>163.6 mm</td>
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</table>

1162 SERIES

1162HS
This tool has a 1.162” diameter shank with a large diameter carbide for road headers and high wall excavators.

For induction hardened bore, to increase block life, please add IH to the part number when ordering.

1162BLK50
This tool has the same features as 56BLK50 but is drilled out to accept 1162HS tool.

Available in 2.00” length base specify 1162BLK50MOD.

For induction hardened bore, to increase block life, please add IH to the part number when ordering.

THE 1162 SERIES FEATURES A SINGLE DIAMETER SHANK
NEW PRODUCTS

765CTF
Features threaded shank for maximum retention where problems are encountered with other retention methods. Capped carbide geometry provides extended wear life. Flats on flare provide ease of threading tool onto locknut. Used primarily on horizontal feed grinders/recyclers. Locknut provided with tool.

Used to install lock nut on 765CTF. Socket fits over head of tool. For use with 1/2” square drive impact wrench.

CARBIDE INSERT BLADES
Available for all models of Milling machines.

765CRF
This tool features an extra-large tungsten carbide tip which helps extend tool life by reducing steel wear, and is normally used when abrasive cutting conditions are encountered. Flared head design protects block and reduces seating.

Add an “N” to the part number for steel retention clip.

This style tooth is also available with a .735” diameter shank. 735CRF or 735CRFN

TT45D24
Small carbide capped tool designed at 50-degree angle for correct angle positioning. Primarily used on backreamers for cutting and wear protection. Easily replaced by cutting off worn tool and welding on new. Can be used in various other applications to reduce wear.

TT99045D
Large carbide capped tool designed at 45-degree angle for correct angle positioning. Low energy cap for improved penetration. Primarily used on back-reamers for cutting and wear protection. Easily replaced by cutting off worn tool and welding on new. Can be used in various other applications to reduce wear.
ACCESSORIES

STEEL-KEEPERS
K91
K91 is used for 735 and 765 external retention tools.

K01
K01 is used for external retention on 990 series tools.

K86
K86 is used for retention on 55, 56, 66 and 1162 series tools.

K25
K25 lock washer for 66 series tools, specify P (Q) 3 DD instead of P (Q) 3DS in product code number.

K30
Hairpin for use on 66 series tools in place of K25.

PLASTIC-KEEPERS
K07
K07 is used for 735 and 765 external retention tools.

PULLERS
For all tools with puller grooves. Use the first three digits (shank diameter) of the part number to specify the puller tool size.

<table>
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<td>M8T-003-22</td>
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<tr>
<td>990</td>
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</table>

CURVED KNOCK-OUT PUNCH
Carbide-tipped for extended life.

AIR-HAMMER PUNCH
For removal of conical tools from blocks. Hardened tip provides long life. Fits all light-duty air hammer guns with a 3/8" chuck. For heavy-duty guns with 1/2" chuck specify .

EXTRACTOR
This tool is used for installation and removal of tools with external retention.

<table>
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</table>
• Custom lacing for trenchers, rocksaws, milling and reclaiming drums.

• Specialized tools for tub and horizontal feed grinders.

• Custom designed tools for brush cutters.

• Technical training for proper tool application through seminars and literature.

Visit our website: www.ballantineinc.com

BALLANTINE, INC. PRODUCT LINES

• Trencher Chain, Teeth, Sprockets, Rollers (booms, augers, bearings and more)

• Terminator® Chain Assemblies and Teeth.

• Trench-All® Chain and Chain Assemblies.

• HDD Downhole Tools (drill rod, backreamers, pilot bits, drive chucks and more)

• Elevating Scraper Chain, Flights, Sprockets, Rollers and more.

• Carbide Construction Tools (rotary bits, blocks and more)

• Roller Chain, Sprockets, Leaf Chain

• Rockwheel/Rocksaw Segments, Cutters

• Vibratory and Static Plow Blades, Pull Blades

• Crane/Dragline Drive Chains

• Vertical Augers & Accessories (post-hole, digger derricks, pressure diggers)

• Recycling Tools for Bandit® Beast®, Morbark® and other recyclers and grinders

• Tiller Tines, Power Rake Blades, Shafts

• Backhoe Buckets, Teeth

• Stump Cutter Teeth, Holders

• State-Of-The-Art Robotic Hardfacing Equipment (Unlimited Capabilities, Expert Programmers, Expert Operators)
JOB SAFETY
Ballantine, Inc., as a supplier of construction tools, joins with industry and government in their efforts to improve safety.

Cemented carbide, which serves as the cutting edge on construction tools, has limited ductility. Like all brittle materials, it may fragment in service, particularly under conditions of impact loading and/or upon release from high compressive loading. Precautions should therefore be taken to ensure protection of personnel and equipment from flying fragments and sharp edges when working with such materials. This is to emphasize the importance of all safety precautions, including appropriate construction machinery manufacturers. To avoid adverse health effects, read material safety data sheet (MSDS).

Inasmuch as Ballantine, Inc. has no control over the use to which others may put the material, it does not guarantee that the same results as those described herein will be obtained. Each user of the material should make his own tests to determine the material’s suitability for his own particular use.