CIC 200[™] OUAD POINT DRILLS[™] CUT WHERE OTHER DRILLS FAIL



TOUGH!



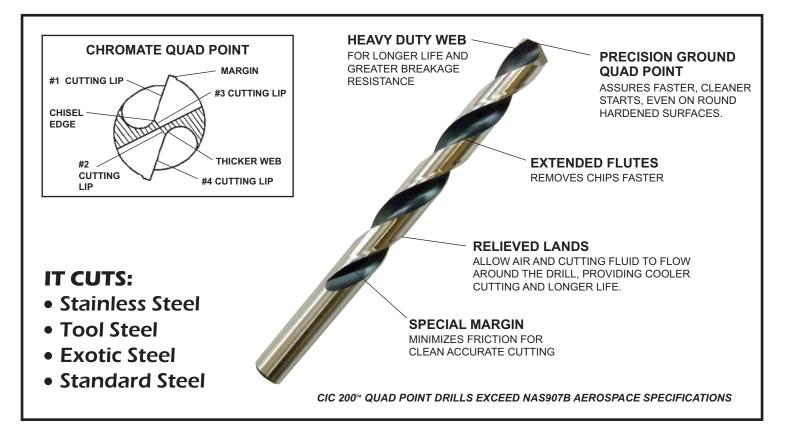


CIC 200TH QUAD POINT DRILLSTH

FASTER CUTTING AND LONGER LIFE ON THE TOUGHEST INDUSTRIAL APPLICATIONS

- Chromium, vanadium and molybdenum alloy tool steel maintains maximum sharpness and durability
- Nitro-carburized for exceptional hardness
- Cuts materials up to 55 Rockwell "C" scale
- Runs cooler uses less torque
- Self-piloting point assures fast, accurate starts and prevents "walking"
- No need for center punching
- Outlasts ordinary drills up to 10 to 1

MORE HOLES PER DRILL ASSURES A LOWER COST PER HOLE



THE ONE DRILL FOR ALL MAINTENANCE JOBS

040108



EXCEPTIONAL PRODUCTS, SERVICE AND INNOVATIVE SOLUTIONS

5250-A Naiman Parkway . Solon . OH . 44139 1-800-BUY-BOLT . www.chromate.com

P/N 21226

CIC 200TM QUAD POINTTM DRILL ORGANIZER — FRACTIONAL SIZES —

SIZES EMBOSSED ON FRONT OF EACH COMPARTMENT



- Contains 50 Quad Point Drills
- 23 of the most popular fractional sizes
- Stores hundreds of drills in one place
- Eliminates misplaced drills

P/N 61695

- ONE CONVENIENT LOCATION FOR ALL YOUR DRILLS
 THE RIGHT SIZE ALWAYS AVAILABLE
- CONTROLS YOUR DRILL INVENTORY

QTY.	DRILL SIZE						
3	1/16	2	5/32	4	1/4	2	3/8
3	5/64	2	11/64	2	17/64	1	25/64
3	3/32	4	3/16	2	9/32	1	27/64
3	7/64	2	13/64	2	5/16	1	7/16
4	1/8	2	7/32	1	21/64	1	1/2
2	9/64	2	15/64	1	11/32		

CIC 200[™] PRO[™] DRILLS

CUT WHERE OTHER DRILLS FAIL



FASTER CUTTING AND LONGER LIFE ON THE TOUGHEST INDUSTRIAL APPLICATIONS

THE ONE DRILL FOR ALL MAINTENANCE JOBS

MORE HOLES PER DRILL ASSURES A LOWER COST PER HOLE



EXCEPTIONAL PRODUCTS, SERVICE AND INNOVATIVE SOLUTIONS

CIC 200[™] PRO[™] DRILLS

CUT WHERE OTHER DRILLS FAIL

 Chromium, vanadium & molybdenum alloy tool steel maintains sharpness & durability

- Nitro-carburized for exceptional hardness
- Cuts materials up to 55 Rockwell "C" scale
 - Runs cooler uses less torque
- Self-piloting point assures fast, accurate starts and prevents "walking"
 - No need for center punching
 - Eliminates step drilling
 - Outlasts ordinary drills up to 10 to 1

DIA.	LENGTH	DEC. EQUIV.	PART	DIA.	LENGTH	DEC. EQUIV.	PART
1/16"	1-7/8"	.0625	97104	19/64"	3-7/8"	.2969	97119
5/64"	2"	.0781	97105	5/16"	4"	.3125	97120
3/32"	2-1/4"	.0938	97106	21/64"	4-1/16"	.3281	97121
7/64"	2-3/8"	.1094	97107	11/32"	4-1/8"	.3438	97122
1/8"	2-1/2"	.1250	97108	23/64"	4-3/16"	.3594	97123
9/64"	2-5/8"	.1406	97109	3/8"	4-1/4"	.3750	97124
5/32"	2-3/4"	.1562	97110	25/64"	4-5/16"	.3906	97125
11/64"	2-7/8"	.1719	97111	13/32"	4-3/8"	.4062	97126
3/16"	3"	.1875	97112	27/64"	4-7/16"	.4219	97127
13/64"	3-1/8"	.2031	97113	7/16"	4-1/2"	.4375	97128
7/32"	3-1/4"	.2188	97114	29/64"	4-5/8"	.4531	97129
15/64"	3-3/8"	.2344	97115	15/32"	4-3/4"	.4688	97130
1/4"	3-1/2"	.2500	97116	31/64"	4-7/8"	.4844	97131
17/64"	3-5/8"	.2656	97117	1/2"	5"	.5000	97132
9/32"	3-3/4"	.2812	97118	-	-	-	-



EXCEPTIONAL PRODUCTS, SERVICE AND INNOVATIVE SOLUTIONS

CIC 200[™] PRO[™] DRILL ORGANIZER — FRACTIONAL SIZES —

SIZES EMBOSSED ON FRONT OF EACH COMPARTMENT



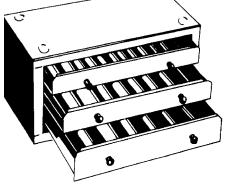
- Contains 45 CIC 200 Pro Drills
- 23 of the most popular fractional sizes
- Stores hundreds of drills in one place
- Eliminates misplaced drills

P/N 61699

- ► ONE CONVENIENT LOCATION FOR ALL YOUR DRILLS
- ► THE RIGHT SIZE ALWAYS AVAILABLE
- ► CONTROLS YOUR DRILL INVENTORY

QTY.	DRILL SIZE						
3	1/16	3	5/32	3	1/4	1	3/8
3	5/64	2	11/64	1	17/64	1	25/64
3	3/32	4	3/16	1	9/32	1	27/64
3	7/64	1	13/64	1	5/16	1	7/16
5	1/8	1	7/32	1	21/64	1	1/2
3	9/64	1	15/64	1	11/32		

GUAD POINT NUMBER DRILL ORGANIZER



P/N 61697

DRILL

CABINET

14-1/2" WIDE 7-1/4" HIGH 7-1/4" DEEP SIZES EMBOSSED ON FRONT OF EACH

COMPARTMENT

- Total of 75 Quad Point Drills.
- The Organizer stores hundreds of drills in one place. Eliminates misplaced drills.
- 25 of the most popular number drill sizes.
- Chromate 200 Quad Point Drills the drills that cut where ordinary drills fail. *The perfect drill for all maintenance jobs.*

QTY.	DRILL SIZE						
3	#3	3	#11	3	#26	3	#36
3	#5	3	#15	3	#28	3	#38
3	#6	3	#20	3	#29	3	#39
3	#7	3	#21	3	#30	3	#40
3	#8	3	#22	3	#33	3	#43
3	#9	3	#25	3	#35	3	#44
3	#10						

Saves Money, Time and Labor

- ONE CONVENIENT LOCATION FOR ALL YOUR DRILLS.
- THE RIGHT SIZE AVAILABLE EVERY TIME.
- INSTANT CONTROL OF YOUR DRILL INVENTORY.

CIC 200TM METRIC DRILL ORGANIZER

SIZES EMBOSSED ON FRONT OF EACH COMPARTMENT



14-1/2" W x 7-1/4" H x 7-1/4" D

- Contains 25 CIC 200 Metric Drills
- 25 of the most popular metric sizes
- Stores hundreds of drills in one place
- Eliminates misplaced drills

P/N 61696

ONE CONVENIENT LOCATION FOR ALL YOUR DRILLS
 THE RIGHT SIZE ALWAYS AVAILABLE
 CONTROLS YOUR DRILL INVENTORY

QTY.	DRILL SIZE						
1	M1.0	1	M4.0	1	M7.0	1	M10.0
1	M1.5	1	M4.5	1	M7.5	1	M10.5
1	M2.0	1	M5.0	1	M8.0	1	M11.0
1	M2.5	1	M5.5	1	M8.5	1	M11.5
1	M3.0	1	M6.0	1	M9.0	1	M12.0
1	M3.5	1	M6.5	1	M9.5	1	M12.5
						1	M13.0

CIC 200TM QUAD POINTTM DRILL ORGANIZER — FRACTIONAL SIZES —

SIZES EMBOSSED ON FRONT OF EACH COMPARTMENT



- Contains 50 Quad Point Drills
- 23 of the most popular fractional sizes
- Stores hundreds of drills in one place
- Eliminates misplaced drills

P/N 61695

- ONE CONVENIENT LOCATION FOR ALL YOUR DRILLS
 THE RIGHT SIZE ALWAYS AVAILABLE
- ► CONTROLS YOUR DRILL INVENTORY

QTY.	DRILL SIZE						
3	1/16	2	5/32	4	1/4	2	3/8
3	5/64	2	11/64	2	17/64	1	25/64
3	3/32	4	3/16	2	9/32	1	27/64
3	7/64	2	13/64	2	5/16	1	7/16
4	1/8	2	7/32	1	21/64	1	1/2
2	9/64	2	15/64	1	11/32		

CIC 200[™] PRO[™] DRILL ORGANIZER — FRACTIONAL SIZES —

SIZES EMBOSSED ON FRONT OF EACH COMPARTMENT



- Contains 45 CIC 200 Pro Drills
- 23 of the most popular fractional sizes
- Stores hundreds of drills in one place
- Eliminates misplaced drills

P/N 61699

- ► ONE CONVENIENT LOCATION FOR ALL YOUR DRILLS
- ► THE RIGHT SIZE ALWAYS AVAILABLE
- ► CONTROLS YOUR DRILL INVENTORY

QTY.	DRILL SIZE						
3	1/16	3	5/32	3	1/4	1	3/8
3	5/64	2	11/64	1	17/64	1	25/64
3	3/32	4	3/16	1	9/32	1	27/64
3	7/64	1	13/64	1	5/16	1	7/16
5	1/8	1	7/32	1	21/64	1	1/2
3	9/64	1	15/64	1	11/32		

CIC 200TM CARBIDE MASONRY DRILL ORGANIZER — FRACTIONAL SIZES —

SIZES EMBOSSED ON FRONT OF EACH COMPARTMENT



- Contains 26 Carbide Masonry Drills
- 15 of the most popular fractional sizes
- Stores hundreds of drills in one place
- Eliminates misplaced drills

P/N 61611

- ► ONE CONVENIENT LOCATION FOR <u>ALL</u> YOUR DRILLS
- ► THE RIGHT SIZE ALWAYS AVAILABLE
- ► CONTROLS YOUR DRILL INVENTORY

QTY.	DRILL SIZE	QTY.	DRILL SIZE	QTY.	DRILL SIZE
3	1/8 x 3 x 1/8	2	1/4 x 4-1/8 x 1/4	2	3/8 x 6 x 3/8
1	5/32 x 3-1/8 x 5/32	4	1/4 x 6 x 1/4	1	7/16 x 6-1/4 x 7/16
2	3/16 x 3-1/2 x 3/16	1	9/32 x 4-3/8 x 1/4	1	1/2 x 6-3/4 x 3/8
3	3/16 x 6 x 3/16	1	5/16 x 4-3/4 x 5/16	1	5/8 x 6 x 3/8
1	7/32 x 3-3/4 x 7/32	2	5/16 x 6 x 5/16	1	3/4 x 6 x 3/8

CIC 200TM CARBIDE MASONRY DRILL STARTER ORGANIZER — FRACTIONAL SIZES —

SIZES EMBOSSED ON FRONT OF EACH COMPARTMENT



- Contains 7 Carbide Masonry Drills
- 7 of the most popular fractional sizes
- Stores hundreds of drills in one place
- Eliminates misplaced drills

P/N 61612

- ► ONE CONVENIENT LOCATION FOR <u>ALL</u> YOUR DRILLS
- ► THE RIGHT SIZE ALWAYS AVAILABLE
- ► CONTROLS YOUR DRILL INVENTORY

QTY.	DRILL SIZE	PART	QTY.	DRILL SIZE	PART
1	1/8 x 3 x 1/8	77501	1	3/8 x 6 x 3/8	77530
1	3/16 x 6 x 3/16	77505	1	1/2 x 6-3/4 x 3/8	77546
1	1/4 x 6 x 1/4	77510	1	5/8 x 6 x 3/8	77563
1	5/16 x 6 x 5/16	77520			—

CIC 200[™] PRO[™] DRILL 45-PIECE UNDER-MOUNT ORGANIZER

SIZES EMBOSSED ON FRONT OF EACH COMPARTMENT



Workbench spacesaver

P/N 7880

- Built-in lock secures drill inventory (2 keys included)
- Contains 45 CIC 200[™] Pro[™] Drills
- 23 most popular fractional sizes
- Stores hundreds of drills in one place
- Eliminates misplaced drills

OVERALL DIMENSIONS: 26-1/8" W x 12-1/2" D x 4-1/2" H

DRAWER DIMENSIONS: 23-1/8" W x 11" D x 3" H

ONE CONVENIENT LOCATION FOR ALL YOUR DRILLS THE RIGHT SIZE ALWAYS AVAILABLE CONTROLS YOUR DRILL INVENTORY

	QTY.	DRILL SIZE						
J	3	1/16	3	5/32	3	1/4	1	3/8
	3	5/64	2	11/64	1	17/64	1	25/64
	3	3/32	4	3/16	1	9/32	1	27/64
	3	7/64	1	13/64	1	5/16	1	7/16
	5	1/8	1	7/32	1	21/64	1	1/2
	3	9/64	1	15/64	1	11/32	-	-

SAVES TIME, MONEY AND LABOR!



QUALITY BUILDS CONFIDENCE, SERVICE EARNS TRUST.



CIC 200[™] PRO[™] DRILL UNDER-MOUNT ORGANIZER WITH RED LION TOOL COOL II



UNDER-MOUNT DISPENSER (P/N 7896) WITH PRO DRILLS STARTER SET

- Workbench spacesaver
- Built-in lock secures drill inventory (2 keys included)
- Heavy-duty ball bearing drawer slides
- 3 each of the most popular fractional Pro[™] Drill sizes (1/8", 3/16", 1/4", 5/16", 3/8")

3 CANS RED LION[™] TOOL COOL II (74185)

- Cools and lubricates
- Allows for cleaner, smoother cut
- · For all cutting applications

CIC 200[™] PRO[™] DRILLS, ALONG WITH 3 CANS OF TOOL COOL II, WILL GIVE YOU A BUNDLE FOR DRILLING THAT CAN'T BE BEAT!



QUALITY BUILDS CONFIDENCE, SERVICE EARNS TRUST.



CIC 200[™] PRO[™] DRILL 45-PIECE UNDER-MOUNT ORGANIZER



OVERALL DIMENSIONS: 26-1/8" W x 12-1/2" D x 4-1/2" H P/N 7885

DRAWER DIMENSIONS: 23-1/8" W x 11" D x 3" H

ONE CONVENIENT LOCATION FOR ALL YOUR DRILLS

- THE RIGHT SIZE IS ALWAYS AVAILABLE
- CONTROLS YOUR DRILL INVENTORY

INCLUDES:

UNDER-MOUNT DISPENSER (P/N 7896)

- Workbench spacesaver
- Built-in lock secures drill inventory (2 keys included)
- Stores hundreds of drills in one place
- Eliminates misplaced drills

45 CIC 200[™] PRO[™] DRILLS

• 23 most popular fractional sizes

1/2" BLACK & DECKER

- DRILL MOTOR (P/N 16511)
- Powerful 7 Amp motor
- All metal keyed chuck
- Comfort grip handle for controlled drilling & driving
- Variable speed
- 360° side handle
- Reversing brush system
- Handles tough applications
- Drill holes through wood, metal and plastic
- For driving large fasteners in wood, metal and plastic

QTY.	DRILL SIZE						
3	1/16	3	5/32	3	1/4	1	3/8
3	5/64	2	11/64	1	17/64	1	25/64
3	3/32	4	3/16	1	9/32	1	27/64
3	7/64	1	13/64	1	5/16	1	7/16
5	1/8	1	7/32	1	21/64	1	1/2
3	9/64	1	15/64	1	11/32	-	-



QUALITY BUILDS CONFIDENCE, SERVICE EARNS TRUST.



CIC 200[™] PRO[™] DRILL 100-PIECE UNDER-MOUNT ORGANIZER

P/N 7886



OVERALL DIMENSIONS: 26-1/8" W x 12-1/2" D x 4-1/2" H

DRAWER DIMENSIONS: 23-1/8" W x 11" D x 3" H

ONE CONVENIENT LOCATION FOR ALL YOUR DRILLS

- THE RIGHT SIZE IS ALWAYS AVAILABLE
- CONTROLS YOUR DRILL INVENTORY

INCLUDES:

UNDER-MOUNT DISPENSER (P/N 7896)

- Workbench spacesaver
- Built-in lock secures drill inventory (2 keys included)
- Stores hundreds of drills in one place
- Eliminates misplaced drills

100 CIC 200[™] PRO[™] DRILLS

• 29 most popular fractional sizes

1/2" BLACK & DECKER

DRILL MOTOR (P/N 16511)

- Powerful 7 Amp motor
- All metal keyed chuck
- Comfort grip handle for controlled drilling & driving
- Variable speed
- 360° side handle
- Reversing brush system
- Handles tough applications
- Drill holes through wood, metal and plastic
- For driving large fasteners in wood, metal and plastic

QTY.	DRILL SIZE						
4	1/16	4	11/64	3	9/32	2	25/64
4	5/64	6	3/16	3	19/64	2	13/32
4	3/32	3	13/64	4	5/16	2	27/64
4	7/64	4	7/32	3	21/64	2	7/16
8	1/8	3	15/64	3	11/32	2	29/64
4	9/64	6	1/4	3	23/64	2	15/32
4	5/32	3	17/64	4	3/8	2	31/64
_	-	-	-	-	-	3	1/2



QUALITY BUILDS CONFIDENCE, SERVICE EARNS TRUST.



CIC 200[™] QUAD POINT[™] DRILLS MASTER DISPENSER, 50 PIECES



- **Top drawer** Holds fractional drills 1/16" to 1/2" by 64^{ths} with 42 compartments
- Second drawer For #1 to #60 wire gauge with 75 compartments
- Third drawer For letter size A to Z with 42 compartments
- Lower drawer Undivided for extra long drills, reamers and miscellaneous tools
- · All steel lockable cabinet with ball bearing slides and vinyl dividers that protect & separate drills
- Dimensions: 26-1/8" W x 12-1/2" D x 4-1/2" H
- Stackable for larger inventories at one location

QTY.	QTY. DRILL SIZE QTY.		DRILL SIZE	QTY.	DRILL SIZE	QTY.	DRILL SIZE
3	1/16	2	5/32	4	1/4	2	3/8
3	5/64	2	11/64	2	17/64	1	25/64
3	3/32	4	3/16	2	9/32	1	27/64
3	7/64	2	13/64	2	5/16	1	7/16
4	1/8	2	7/32	1	21/64	1	1/2
2	9/64	2	15/64	1	11/32	-	-



QUALITY BUILDS CONFIDENCE, SERVICE EARNS TRUST.



CIC 200[™] QUAD POINT[™] DRILLS MASTER DISPENSER, 115-PIECES

INCLUDES FRACTIONAL, NUMBER & LETTER DRILLS

0

SIZES EMBOSSED ON FRONT OF EACH COMPARTMENT

CHROMATE

ONE CONVENIENT LOCATION FOR ALL YOUR DRILLS

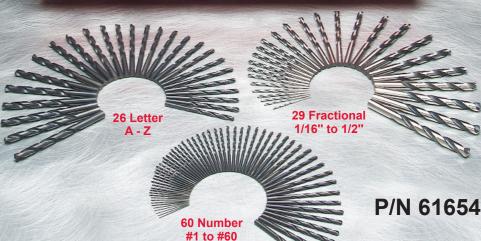
THE RIGHT SIZE DRILL IS ALWAYS AVAILABLE

CONTROLS YOUR DRILL INVENTORY THE MOST POPULAR FRACTIONAL SIZES

ADD MORE DRILL SIZES AS NEEDED

STORES THOUSANDS OF DRILLS IN ONE PLACE

ELIMINATES MISPLACED DRILLS



Quad Point Drills:

- Cuts up to 55 Rockwell "C"
- Cuts standard, stainless, tool and exotic steels
- Won't snap or chip weld
- No need to center punch

Dispenser:

- · All steel lockable cabinet with vinyl dividers that protect & separate drills
- Ball bearing slides
- Dimensions: 26-1/8" W x 12-1/2" D x 4-1/2" H
- Stackable for larger inventories at one location
- · Lower drawer is undivided for extra long drills, reamers and miscellaneous tools
- Holds full packages of jobber or screw machine length drills, fractional, letter & wire gauge sizes in one cabinet
- Top drawer holds fractional drills 1/16" to 1/2" by $64^{\mbox{\tiny ths}}$ with 42 compartments
- Second drawer is for #1 to #60 wire gauge with 75 compartments
- Third drawer is for letter size A to Z with 42 compartments



QUALITY BUILDS CONFIDENCE, SERVICE EARNS TRUST.



CIC 200[™] QUAD POINT[™] DRILLS MASTER DISPENSER, 332-PIECES

INCLUDES FRACTIONAL, NUMBER & LETTER DRILLS

0

- 10

SIZES EMBOSSED ON FRONT OF EACH COMPARTMENT

ONE CONVENIENT LOCATION FOR ALL YOUR DRILLS

THE RIGHT SIZE DRILL IS ALWAYS AVAILABLE

CONTROLS YOUR DRILL INVENTORY THE MOST POPULAR FRACTIONAL SIZES

ADD MORE DRILL SIZES AS NEEDED

STORES THOUSANDS OF DRILLS IN ONE PLACE

ELIMINATES MISPLACED DRILLS

Quad Point Drills:

- Cuts up to 55 Rockwell "C" • Cuts standard,
- stainless, tool and exotic steels • Won't snap
- or chip weld
- No need to
- center punch

Black & Decker Drill Motors:

- Powerful 7 Amp motor
- All metal keyed chuck
- Variable speed
- Reversing brush system
- Handles tough applications
- 360° side handle
- Comfort grip handle for controlled drilling & driving

Dispenser:

· All steel lockable cabinet with vinyl dividers that protect & separate drills

CHROMATE

- Ball bearing slides
- Dimensions: 26-1/8" W x 12-1/2" D x 4-1/2" H
- Stackable for larger inventories at one location
- · Lower drawer is undivided for extra long drills, reamers & miscellaneous tools
- Holds full packages of jobber or screw machine length drills, fractional, letter & wire gauge sizes in one cabinet
- Top drawer holds fractional drills 1/16" to 1/2" by 64^{ths} with 42 compartments
- Second drawer is for #1 to #60 wire gauge with 75 compartments
- Third drawer is for letter size A to Z with 42 compartments



QUALITY BUILDS CONFIDENCE, SERVICE EARNS TRUST.

5250-A Naiman Parkway . Solon . OH 44139 1-800-BUY-BOLT . Fax: 631-567-2418 . www.chromate.com

INCL

INCLUDES TWO 1/2" BLACK & DECKER DRILL MOTORS!

P/N 61656

148 Fractional 1/16" to 1/2"

141 Number #1 to #60

43 Letter

A - Z

CIC 200[™] QUAD POINT[™] DRILLS AND PRO[™] SHOOTER TAPS MASTER DISPENSER



Quad Point Drills & Pro Shooter Taps:

- Cuts up to 55 Rockwell "C"
- Cuts standard, stainless, tool and exotic steels
- Won't snap or chip weld
- No need to center punch

Dispenser (Features Fractional, Number and Letter Drawers):

Holds full packages of jobber or screw machine length drills, fractional, letter and wire gauge sizes in one cabinet.

- Top drawer Holds fractional drills 1/16" to 1/2" by 64^{ths} with 42 compartments
- Second drawer For #1 to #60 wire gauge with 75 compartments
- Third drawer For letter size A to Z with 42 compartments
- Lower drawer Fourth drawer holds Pro Shooter Taps and corresponding drills
- All steel lockable cabinet and vinyl dividers that protect & separate drills
- Ball bearing slides
- Dimensions: 26-1/8" W x 12-1/2" D x 4-1/2" H
- Stackable for larger inventories at one location

QTY	DRILL SIZE	QTY	DRILL SIZE	QTY	DRILL SIZE	QTY	DRILL SIZE	QTY	DRILL SIZE					
QUAD	QUAD POINT DRILLS (included in top drawer)													
3	1/16	2	9/64	1	7/32	2	19/64	1	25/64					
3	5/64	2	5/32	2	15/64	1	5/16	1	27/64					
3	3/32	2	11/64	4	1/4	1	21/64	1	7/16					
3	7/64	4	3/16	2	17/64	1	11/32	1	29/64					
4	1/8	2	13/64	2	9/32	2	3/8	1	1/2					
PRO SH	HOOTER TAPS AND	DRILLS (ii	ncluded in fourth drav	wer)										
1	4-40 Tap	1	10-24 Тар	1	1/4-28 Tap	1	3/8-16 Tap	1	1/2-20 Tap					
1	#43 Drill	1	#24 Drill	1	7/32 Drill	1	"P" Drill	1	29/64 Drill					
1	6-32 Tap	1	10-32 Тар	1	5/16-18 Tap	1	3/8-24 Tap							
1	#35 Drill	1	#20 Drill	1	"H" Drill	1	"R" Drill							
1	8-32 Tap	1	1/4-20 Tap	1	5/16-24 Tap	1	1/2-13 Tap							
1	#29 Drill	1	#6 Drill	1	"J" Drill	1	7/16 Drill							

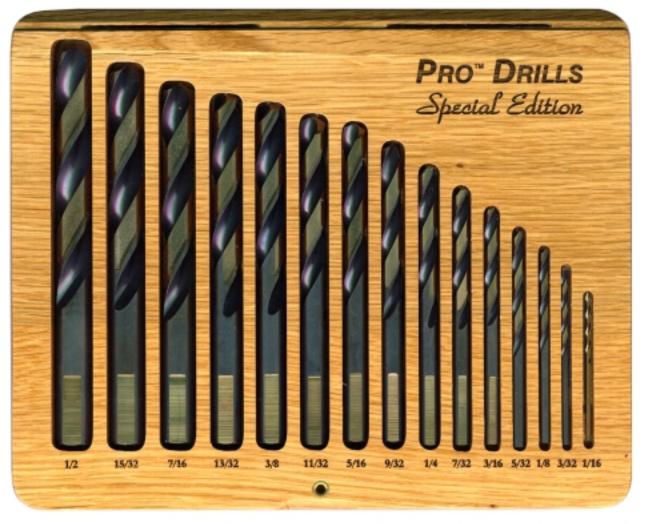


QUALITY BUILDS CONFIDENCE, SERVICE EARNS TRUST.



 $I \cdot N \cdot T \cdot R \cdot O \cdot D \cdot U \cdot C \cdot I \cdot N \cdot G$

CIC 2000[™] SERIES "Cutting Tools for the New Millennium"

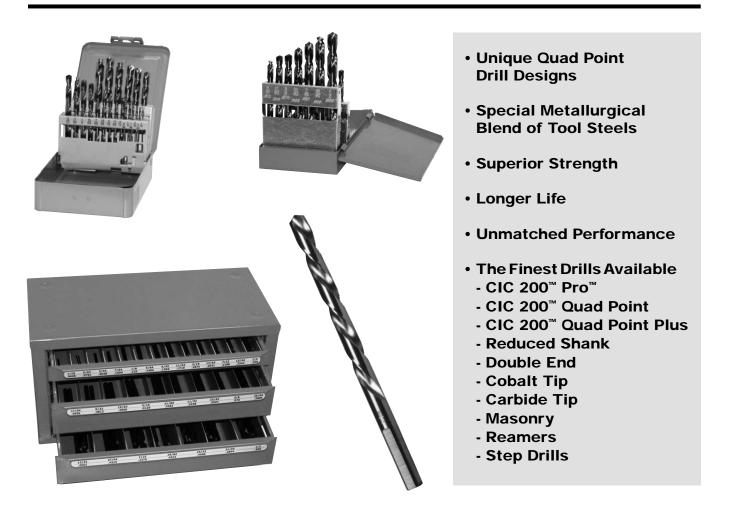


INCLUDES:

P/N 61635

- Oak hardwood box with hinged top cover safely stores and protects CIC 200[™] Pro[™] Drills
- 15 of the most popular fractional sizes used by professional mechanics
- Sizes include 1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32" and 1/2"
- Dimensions: 7-7/8" long x 6-3/8" wide x 1-1/2" thick

DRILLS



CHROMATE DRILLS ARE STRONGER, CUT FASTER, LAST LONGER AND OUTPERFORM ORDINARY DRILLS UP TO 10 TO 1. Manufactured from the finest and toughest tool steels to exacting specifications. Always use Chromate Drills when speed, accuracy, performance and longevity are important.

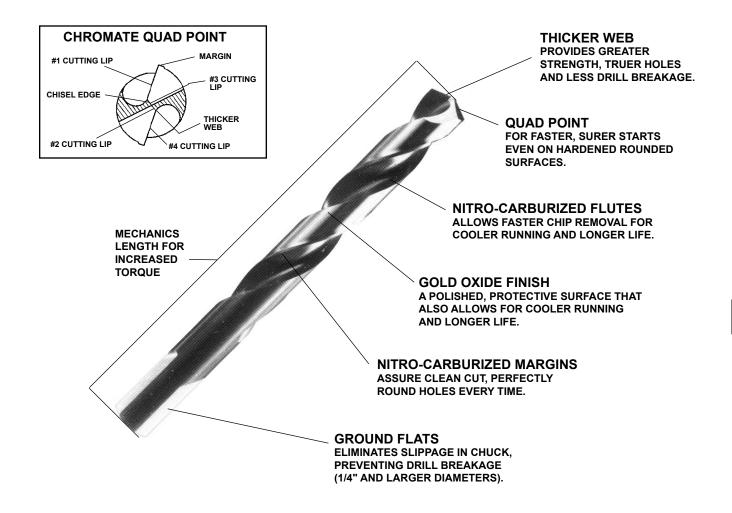


FOR MORE INFORMATION ON OUR PRODUCTS OR SYSTEMS, CALL 1-800-BUY-BOLT

CIC 200[™] PROFESSIONAL DRILLS

OUTLAST ORDINARY DRILLS UP TO 10 TO 1

Constructed of special tool steels – a metallurgical blend of chromium, vanadium, molybdenum and tungsten alloys. CIC 200 Professional Drills offer superior strength, faster heat dissipation and longer life for quality, reliability and performance that is unequaled by any other drill.



CIC 200[™] PRO DRILLS CUT UP TO 55 ROCKWELL "C"

SPECIAL TOOL STEEL

- The toughest of the high molybdenum tool steels.
 Extremely resistant to breakage.
- Will cut up to 55 Rockwell "C"
- Heat-treated at 2,185°F and then nitro-carburized at 950°F.
- Stays sharp longer.
- Withstands higher temperatures.

SPECIAL DESIGN AND FEATURES

- Triple-flat shank for non-slip chucking.
- Quad point for fast penetration and accurate starting without center punching.
- Heavy duty web design for longer life and less breakage.
- Special mechanics length for less breakage, increased torque and outstanding performance with hand drill.
- Nitro-carburized surface has hardness of approximately 70 Rockwell "C".

CIC 200[™] PROFESSIONAL DRILLS (Cont'd.)

MECHANICS LENGTH — FRACTIONAL SIZE DRILLS



DIA.	LENGTH	DEC. EQUIV.		PART	DIA.	LENGTH	DEC. EQUIV.		PART
1/16"	1-7/8"	.0625	F	97104	19/64"	3-7/8"	.2969	С	97119
5/64"	2"	.0781	F	97105	5/16"	4"	.3125	С	97120
3/32"	2-1/4"	.0938	F	97106	21/64"	4-1/16"	.3281	С	97121
7/64"	2-3/8"	.1094	F	97107	11/32"	4-1/8"	.3438	С	97122
1/8"	2-1/2"	.1250	F	97108	23/64"	4-3/16"	.3594	С	97123
9/64"	2-5/8"	.1406	F	97109	3/8"	4-1/4"	.3750	С	97124
5/32"	2-3/4"	.1562	F	97110	25/64"	4-5/16"	.3906	С	97125
11/64"	2-7/8"	.1719	F	97111	13/32"	4-3/8"	.4062	С	97126
3/16"	3"	.1875	F	97112	27/64"	4-7/16"	.4219	С	97127
13/64"	3-1/8"	.2031	F	97113	7/16"	4-1/2"	.4375	С	97128
7/32"	3-1/4"	.2188	D	97114	29/64"	4-5/8"	.4531	С	97129
15/64"	3-3/8"	.2344	D	97115	15/32"	4-3/4"	.4688	С	97130
1/4"	3-1/2"	.2500	D	97116	31/64"	4-7/8"	.4844	С	97131
17/64"	3-5/8"	.2656	D	97117	1/2"	5"	.5000	С	97132
9/32"	3-3/4"	.2812	D	97118	-	-	-		-

FRACTIONAL DRILL ORGANIZER

CIC 200[™] PRO[™] DRILL ORGANIZERS

	19

- ONE CONVENIENT LOCATION FOR ALL YOUR DRILLS
- THE RIGHT SIZE ALWAYS AVAILABLE
- PROVIDES INSTANT CONTROL OF YOUR INVENTORY
- STORES HUNDREDS OF DRILLS IN ONE PLACE
- ELIMINATES MISPLACED DRILLS
- EASY ACCESS FOR YOUR STAFF

BASIC

- Contains 45 CIC 200[™] Pro[™] Drills
- · 23 of the most popular fractional sizes
- · One 29-piece Index for filling
- Contains 25 CIC 200[™] Pro[™] Drills
 13 of the most popular fractional sizes

STARTER

- One 29-piece Index for filling
- <u>MEGA</u>
- Contains 58 CIC 200[™] Pro[™] Drills
- 29 of the most popular fractional sizes
- Two (2) 29-piece Indexes for filling

CONTEN	TS		PART
BASIC	1 each: 13/64, 7/32, 15/64, 17/64, 9/32, 5/16, 21/64, 11/32, 3/8, 25/64, 27/64, 7/16 and 1/2 2 each: 11/64 3 each: 1/16, 5/64, 3/32, 7/64, 9/64, 5/32 and 1/4 4 each: 3/16 5 each: 1/8	A	61699
STARTER	1 each: 9/32, 5/16, 11/32, 3/8, 7/16 and 1/2 2 each: 7/32 and 1/4 3 each: 1/16, 3/32, 1/8, 5/32 and 3/16	A	61699S
MEGA	2 each: 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 11/64, 3/16, 13/64, 7/32, 15/64, 1/4, 17/64, 9/32, 19/64, 5/16, 21/64, 11/32, 23/64, 3/8, 25/64, 13/32, 27/64, 7/16, 29/64, 15/32, 31/64 and 1/2	A	61699M

CIC 200[™] PROFESSIONAL DRILLS (Cont'd.)

MECHANICS LENGTH INDEXES AND CADDY

		DRILL INDEXES		
		DESCRIPTION		PART
LANADA	482.5.665	13 DRILLS: 1/16 to 1/4 by 64ths	A	61632
EINSTALL.	MAN AN	15 DRILLS: 1/16 to 1/2 by 32nds	A	61634
2000000000		21 DRILLS: 1/16 to 3/8 by 64ths	A	61636
	5	29 DRILLS: 1/16 to 1/2 by 64ths	A	61638
		DRILL CADDY		
INDEX	CADDY	29 DRILLS: 1/16 to 1/2 by 64ths	A	61643

6 PIECE PRO FRACTIONAL ORGANIZER "COMPLETER KIT"



CONTENTS

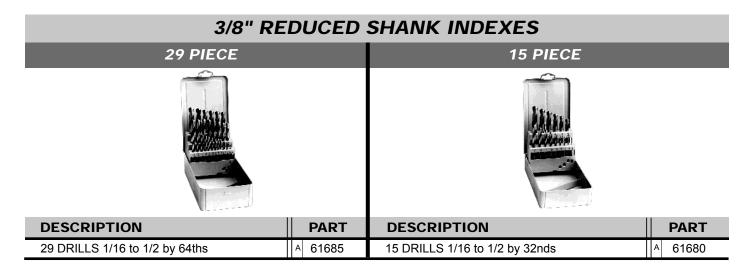
1 each: 19/64, 23/64, 13/32, 29/64, 15/32 and 31/64

3/8" REDUCED SHANK DRILLS

All sizes from 27/64" to 1/2" with shanks machined down to 3/8" for use with standard 3/8" shop drill motors.



DIAMETER	LENGTH	DECIMAL EQUIVALENT	PART
27/64	4-7/16	.4219	c 98027
7/16	4-1/2	.4375	c 98028
29/64	4-5/8	.4531	c 98029
15/32	4-3/4	.4688	c 98030
31/64	4-7/8	.4844	c 98031
1/2	5	.5000	c 98032



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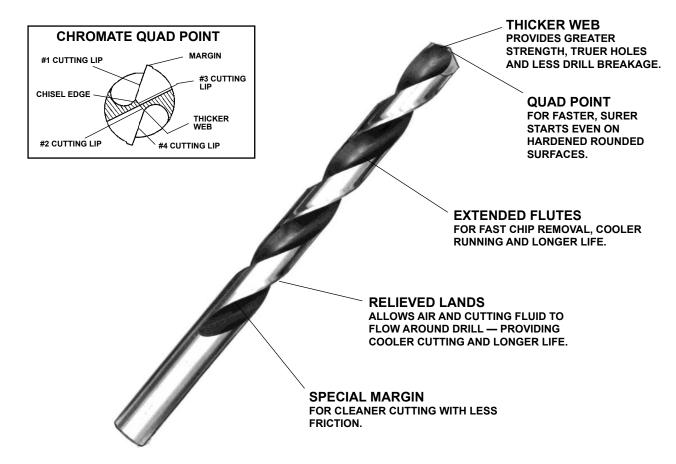
PART

61689

CIC 200™ QUAD POINT DRILLS

THE ONE DRILL FOR ALL YOUR CUTTING REQUIREMENTS

Constructed of special tool steel — a metallurgical blend of chromium, vanadium and molybdenum. CIC 200 Quad Point Drills offer superior strength, faster heat dissipation and longer life.



CIC 200[™] QUAD POINT DRILLS CUT UP TO 55 ROCKWELL "C"

SPECIAL FEATURES

• Cuts standard, stainless, tool and exotic steels

• Won't snap or chip weld

No need to center punch prior to drilling

Use in drill press or hand drill

Stays sharp longer – outlasting ordinary drills ten to one

When you purchase a drill you are actually buying holes. CIC 200[™] QUAD POINT DRILLS will outlast ordinary drills up to 10 to 1, giving you many more holes per drill, thus reducing your per hole cost to a minimum!

LET US SHOW YOU HOW WELL IT WORKS!

23.4

JOBBER AND STUBBY LENGTHS - FRACTIONAL SIZES



	DEC.	JOB	BER	STUBBY			DEC.	JOB	В	ER	STU	B	BY	
DIA.	EQUIV.	LTH.	PART	LTH.	LTH. PAR		DIA.	EQUIV.	LTH.		PART	LTH.		PART
1/64	.0156	3/4	J 91001	-		-	17/64	.2656	4-1/8	F	91017	2-5/8	F	81017
1/32	.0312	1-3/8	J 91002	-		-	9/32	.2812	4-1/4	F	91018	2-11/16	F	81018
3/64	.0469	1-3/4	J 91003	-		-	19/64	.2969	4-3/8	F	91019	2-3/4	F	81019
1/16	.0625	1-7/8	J 91004	1-5/8	J	81004	5/16	.3125	4-1/2	F	91020	2-13/16	F	81020
5/64	.0781	2	J 91005	1-11/16	J	81005	21/64	.3281	4-5/8	F	91021	2-15/16	F	81021
3/32	.0938	2-1/4	J 91006	1-3/4	J	81006	11/32	.3438	4-3/4	D	91022	3	D	81022
7/64	.1094	2-5/8	J 91007	1-13/16	J	81007	23/64	.3594	4-7/8	D	91023	3-1/16	D	81023
1/8	.1250	2-3/4	J 91008	1-7/8	J	81008	3/8	.3750	5	D	91024	3-1/8	D	81024
9/64	.1406	2-7/8	J 91009	1-15/16	J	81009	25/64	.3906	5-1/8	D	91025	3-1/4	D	81025
5/32	.1562	3-1/8	J 91010	2-1/16	J	81010	13/32	.4062	5-1/4	D	91026	3-5/16	D	81026
11/64	.1719	3-1/4	J 91011	2-1/8	J	81011	27/64	.4219	5-3/8	С	91027	3-3/8	С	81027
3/16	.1875	3-1/2	J 91012	2-3/16	J	81012	7/16	.4375	5-1/2	С	91028	3-7/16	С	81028
13/64	.2031	3-5/8	J 91013	2-1/4	J	81013	29/64	.4531	5-5/8	С	91029	3-9/16	С	81029
7/32	.2188	3-3/4	J 91014	2-3/8	J	81014	15/32	.4688	5-3/4	С	91030	3-5/8	С	81030
15/64	.2344	3-7/8	F 91015	2-7/16	F	81015	31/64	.4844	5-7/8	С	91031	3-11/16	С	81031
1/4	.2500	4	F 91016	2-1/2	F	81016	1/2	.5000	6	С	91032	3-3/4	С	81032

JOBBER LENGTHS — LETTER SIZES

	DEC.	JOBBER				DEC.	JOB	BE	R
DIA.	EQUIV.	LENGTH		PART	DIA.	EQUIV.	LENGTH		PART
Α	.234	3-7/8	С	10201	Ν	.302	4-3/8	С	10214
В	.238	4	С	10202	0	.316	4-1/2	С	10215
С	.242	4	С	10203	Р	.323	4-5/8	С	10216
D	.246	4	С	10204	Q	.332	4-3/4	С	10217
E	.250	4	С	10205	R	.339	4-3/4	С	10218
F	.257	4-1/8	С	10206	S	.348	4-7/8	С	10219
G	.261	4-1/8	С	10207	Т	.358	4-7/8	С	10220
Н	.266	4-1/8	С	10208	U	.368	5	С	10221
l	.272	4-1/8	С	10209	V	.377	5	С	10222
J	.277	4-1/8	С	10210	W	.386	5-1/8	С	10223
K	.281	4-1/4	С	10211	Х	.397	5-1/8	С	10224
L	.290	4-1/4	С	10212	Y	.404	5-1/4	С	10225
М	.295	4-3/8	С	10213	Z	.413	5-1/4	С	10226

JOBBER AND STUBBY LENGTHS – NUMBER SIZES



	DEC.	JOB	BER	STU	BBY		DEC.	JOB	BER	STU	BBY
DIA.	EQUIV.	LTH.	PART	LTH.	PART	DIA.	EQUIV.	LTH.	PART	LTH.	PART
80	.0135	3/4	J 10080	-	-	40	.0980	2-3/8	J 10040	1-13/16	J 80040
79	.0145	3/4	J 10079	-	-	39	.0995	2-3/8	J 10039	1-13/16	J 80039
78	.0160	7/8	J 10078	-	-	38	.1015	2-1/2	J 10038	1-13/16	J 80038
77	.0180	7/8	J 10077	-	-	37	.1040	2-1/2	J 10037	1-13/16	J 80037
76	.0200	7/8	J 10076	-	-	36	.1065	2-1/2	J 10036	1-13/16	J 80036
75	.0210	1	J 10075	-	-	35	.1100	2-5/8	J 10035	1-7/8	J 80035
74	.0225	1	J 10074	-	-	34	.1110	2-5/8	J 10034	1-7/8	J 80034
73	.0240	1-1/8	J 10073	-	-	33	.1130	2-5/8	J 10033	1-7/8	J 80033
72	.0250	1-1/8	J 10072	-	-	32	.1160	2-3/4	J 10032	1-7/8	J 80032
71	.0260	1-1/4	J 10071	-	-	31	.1200	2-3/4	J 10031	1-7/8	J 80031
70	.0280	1-1/4	J 10070	-	-	30	.1285	2-3/4	J 10030	1-15/16	J 80030
69	.0292	1-3/8	J 10069	-	-	29	.1360	2-7/8	J 10029	1-15/16	J 80029
68	.0310	1-3/8	J 10068	-	-	28	.1405	2-7/8	J 10028	1-15/16	J 80028
67	.0320	1-3/8	J 10067	-	-	27	.1440	3	J 10027	2-1/16	J 80027
66	.0330	1-3/8	J 10066	-	-	26	.1470	3	J 10026	2-1/16	J 80026
65	.0350	1-1/2	J 10065	-	-	25	.1495	3	J 10025	2-1/16	J 80025
64	.0360	1-1/2	J 10064	-	-	24	.1520	3-1/8	J 10024	2-1/16	J 80024
63	.0370	1-1/2	J 10063	-	-	23	.1540	3-1/8	J 10023	2-1/16	J 80023
62	.0380	1-1/2	J 10062	-	-	22	.1570	3-1/8	J 10022	2-1/8	J 80022
61	.0390	1-5/8	J 10061	-	-	21	.1590	3-1/4	J 10021	2-1/8	J 80021
60	.0400	1-5/8	J 10060	-	-	20	.1610	3-1/4	J 10020	2-1/8	J 80020
59	.0410	1-5/8	J 10059	-	-	19	.1660	3-1/4	J 10019	2-1/8	J 80019
58	.0420	1-5/8	J 10058	-	-	18	.1695	3-1/4	J 10018	2-1/8	J 80018
57	.0430	1-3/4	J 10057	-	-	17	.1730	3-3/8	J 10017	2-3/16	J 80017
56	.0465	1-3/4	J 10056	-	-	16	.1770	3-3/8	J 10016	2-3/16	J 80016
55	.0520	1-7/8	J 10055	-	-	15	.1800	3-3/8	J 10015	2-3/16	J 80015
54	.0550	1-7/8	J 10054	-	-	14	.1820	3-3/8	J 10014	2-3/16	J 80014
53	.0595	1-7/8	J 10053	-	-	13	.1850	3-1/2	J 10013	2-3/16	J 80013
52	.0635	1-7/8	J 10052	-	-	12	.1890	3-1/2	J 10012	2-1/4	J 80012
51	.0670	2	J 10051	-	-	11	.1910	3-1/2	J 10011	2-1/4	J 80011
50	.0700	2	J 10050	-	-	10	.1935	3-5/8	F 10010	2-1/4	F 80010
49	.0730	2	J 10049	-	-	9	.1960	3-5/8	F 10009	2-1/4	F 80009
48	.0760	2	J 10048	-	-	8	.1990	3-5/8	F 10008	2-1/4	F 80008
47	.0785	2	J 10047	-	-	7	.2010	3-5/8	F 10007	2-1/4	F 80007
46	.0810	2-1/8	J 10046	-	-	6	.2040	3-3/4	F 10006		F 80006
45	.0820	2-1/8	J 10045	-	-	5	.2055	3-3/4	F 10005	2-3/8	F 80005
44	.0860	2-1/8	J 10044	1-3/4	J 80044	4	.2090	3-3/4	F 10004	2-3/8	F 80004
43	.0890	2-1/4	J 10043		J 80043	3	.2130	3-3/4	F 10003	2-3/8	F 80003
42	.0935	2-1/4	J 10042	1-3/4	J 80042	2	.2210	3-7/8	F 10002	2-7/16	F 80002
41	.0960	2-3/8	J 10041	1-13/16	J 80041	1	.2280	3-7/8	f 10001	2-7/16	F 80001

6" LENGTH - FRACTIONAL SIZES

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DIAMETER	DEC. EQUIV.		PART	DIAMETER	DEC. EQUIV.		PART
3/64	.0469	С	82081	5/32	.1562	С	82088
1/16	.0625	С	82082	11/64	.1719	С	82089
5/64	.0781	С	82083	3/16	.1875	С	82090
3/32	.0938	С	82084	13/64	.2031	С	82091
7/64	.1094	С	82085	7/32	.2188	С	82092
1/8	.1250	С	82086	15/64	.2344	С	82093
9/64	.1406	С	82087	1/4	.2500	С	82094

6" LENGTH - NUMBER SIZES



DIAMETER	DEC. EQUIV.	PART	DIAMETER	DEC. EQUIV.	PART
60	.0400	c 82060	30	.1285	c 82030
59	.0410	c 82059	29	.1360	c 82029
58	.0420	c 82058	28	.1405	c 82028
57	.0430	c 82057	27	.1440	c 82027
56	.0465	c 82056	26	.1470	c 82026
55	.0520	c 82055	25	.1495	c 82025
54	.0550	c 82054	24	.1520	C 82024
53	.0595	c 82053	23	.1540	c 82023
52	.0635	c 82052	22	.1570	c 82022
51	.0670	c 82051	21	.1590	c 82021
50	.0700	c 82050	20	.1610	c 82020
49	.0730	c 82049	19	.1660	c 82019
48	.0760	c 82048	18	.1695	C 82018
47	.0785	c 82047	17	.1730	C 82017
46	.0810	c 82046	16	.1770	C 82016
45	.0820	c 82045	15	.1800	c 82015
44	.0860	c 82044	14	.1820	C 82014
43	.0890	c 82043	13	.1850	c 82013
42	.0935	c 82042	12	.1890	c 82012
41	.0960	c 82041	11	.1910	C 82011
40	.0980	c 82040	10	.1935	c 82010
39	.0995	c 82039	9	.1960	c 82009
38	.1015	c 82038	8	.1990	c 82008
37	.1040	c 82037	7	.2010	c 82007
36	.1065	c 82036	6	.2040	c 82006
35	.1100	c 82035	5	.2055	c 82005
34	.1110	c 82034	4	.2090	c 82004
33	.1130	c 82033	3	.2130	c 82003
32	.1160	c 82032	2	.2210	c 82002
31	.1200	c 82031	1	.2280	c 82001

REDUCED SHANK DRILLS

1/2" SHANK — 6" LENGTH



GROUND FLATS

DIA.	DEC.	PART	DIA.	DEC.	PART	DIA.	DEC.	PART
33/64	.5156	A 91235	3/4	.7500	A 91250	63/64	.9844	A 91265
17/32	.5312	A 91236	49/64	.7656	A 91251	1	1.0000	A 91266
35/64	.5469	A 91237	25/32	.7812	A 91252	1-1/32	1.0312	A 91267
9/16	.5625	A 91238	51/64	.7969	A 91253	1-1/16	1.0625	A 91268
37/64	.5781	A 91239	13/16	.8125	A 91254	1-3/32	1.0938	A 91269
19/32	.5938	A 91240	53/64	.8281	A 91255	1-1/8	1.1250	A 91270
39/64	.6094	A 91241	27/32	.8438	A 91256	1-5/32	1.1562	A 91271
5/8	.6250	A 91242	55/64	.8594	A 91257	1-3/16	1.1875	A 91272
41/64	.6406	A 91243	7/8	.8750	A 91258	1-7/32	1.2188	A 91273
21/32	.6562	A 91244	57/64	.8906	A 91259	1-1/4	1.2500	A 91274
43/64	.6719	A 91245	29/32	.9062	A 91260	1-5/16	1.3125	A 91276
11/16	.6875	A 91246	59/64	.9219	A 91261	1-3/8	1.3750	A 91278
45/64	.7031	A 91247	15/16	.9375	A 91262	1-7/16	1.4375	A 91280
23/32	.7188	A 91248	61/64	.9531	A 91263	1-1/2	1.5000	A 91282
47/64	.7344	A 91249	31/32	.9688	A 91264	-	-	-

1/4 INCH SHANK



		JOB	BER	STU	BBY
DIAMETER	DEC. EQUIV.	LENGTH	PART	LENGTH	PART
17/64	.2656	3-1/2	а 91417	2-5/8	a 61401
9/32	.2812	3-19/32	А 91418	2-11/16	a 61404
19/64	.2969	3-23/32	А 91419	2-3/4	a 61408
5/16	.3125	3-27/32	А 91420	2-13/16	a 61412
21/64	.3281	3-15/16	А 91421	2-15/16	a 61416
11/32	.3438	4-1/32	А 91422	3	-
23/64	.3594	4-5/32	А 91423	3-1/16	A 61424
3/8	.3750	4-1/4	А 91424	3-1/8	A 61428
25/64	.3906	4-11/32	A 91425	3-1/4	a 61432
13/32	.4062	4-15/32	А 91426	3-5/16	A 61436
27/64	.4219	4-9/16	А 91427	3-3/8	a 61440
7/16	.4375	4-11/16	А 91428	3-7/16	a 61444
29/64	.4531	4-25/32	а 91429	3-9/16	a 61448
15/32	.4688	4-7/8	A 91430	3-5/8	a 61452
31/64	.4844	5	А 91431	3-11/16	-
1/2	.5000	5-3/32	A 91432	3-3/4	A 61460

DOUBLE-END

STANDARD

WITH COUNTERSINKS





DRILL ENDS ARE EQUAL DIAMETER. INCLUDED ANGLE IS 60°.

SIZE	DECIMAL EQUIV.	LENGTH		PART	BODY DIA.	DRILL DIA.	DRILL LENGTH	OVERALL LENGTH	ТҮРЕ		PART
3/32	.0937	1-3/4	F	61498	1/8	.025	.040	1-7/32	00	А	61530
7/64	.1093	1-15/16	F	61499	1/8	1/32	3/64	1-7/32	0	Α	61531
1/8	.1250	1-15/16	F	61500	1/8	3/64	3/64	1-1/4	1	Α	61532
9/64	.1410	2"	F	61503	3/16	5/64	5/64	1-7/8	2	Α	61533
5/32	.1562	2-1/8	F	61505	1/4	7/64	7/64	2	3	Α	61534
3/16	.1875	2-5/16	F	61510	5/16	1/8	1/8	2-1/8	4	А	61535
7/32	.2188	2-9/16	F	61515	7/16	3/16	3/16	2-3/4	5	А	61536
1/4	.2500	2-5/8	D	61520	1/2	7/32	7/32	3	6	А	61537
#30	.1285	2"	F	61525	5/8	1/4	1/4	3-1/4	7	А	61538
#20	.1610	2-1/8	F	61527	3/4	5/16	5/16	3-1/2	8	Α	61539
#11	.1910	2-5/16	D	61528	-	-	-	-	- 1		-
#10	.1935	2-5/16	D	61529	-	-	-	-	-	Τ	-

12" LENGTH - FRACTIONAL SIZES

9" EXTENDED FLUTES

. C. C. C. C. C. C. O. O. O. O.

- 135° SPLIT POINT
- HARDENED FULL LENGTH OF FLUTES
- DEEP DRILLING UP TO 8"

STANDARD AIRCRAFT FLUTES

- 135° SPLIT POINT
- SPRING TEMPERED CONSTRUCTION
- DRILLS HARD-TO-REACH AREAS
- HIGH SPEED STEEL

DIAMETER	PART
1/8	A 11030
5/32	A 11031
3/16	A 11032
7/32	A 11033
1/4	A 11034
9/32	A 11035
5/16	A 11036
3/8	A 11038
7/16	A 11040
1/2	A 11042

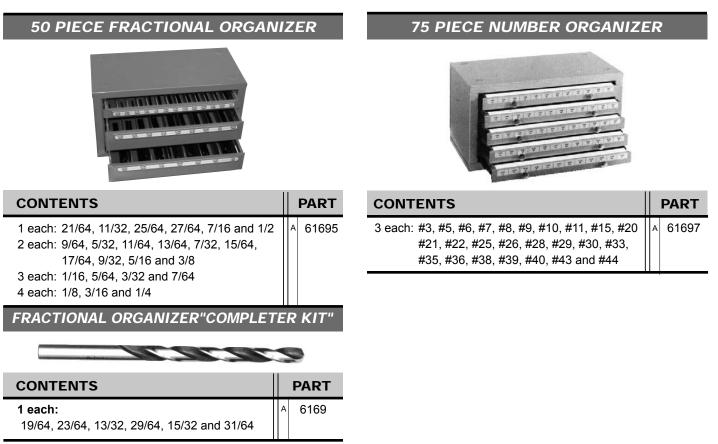
DIAMETER	FLUTE LENGTH	PART
1/8	1-5/8	A 11052
5/32	2	A 11054
3/16	2-5/16	A 11056
7/32	2-1/2	A 11058
1/4	2-3/4	A 11060
9/32	2-15/16	A 11062
5/16	3-3/16	A 11064
3/8	3-5/8	A 11066
7/16	4-1/16	A 11068
1/2	4-1/2	A 11070

and a second second

CIC 200™ QUAD POINT DRILLS (Cont'd.)

DRILL ORGANIZERS AND DISPENSERS

One convenient location for all your CIC 200[™] Quad Point Drills. The right size available every time. Provides instant control of your drill inventory.



MASTER DRILL DISPENSER - COMPLETE



CONTENTS	PART
Total of 115 CIC 200 [™] Quad Point Drills 1 each of 29 fractional sizes: 1/16 through 1/2 1 each of 60 number sizes: #1 through #60 1 each of 26 letter sizes: A through Z	A 61654

MASTER DRILL DISPENSER - STARTER



CONTENTS	PART
Total of 50 CIC 200™ Quad Point Drills	A 61653
4 each: 1/8, 3/16 and 1/4	
3 each: 1/16, 5/64, 3/32, and 7/64	
2 each: 9/64, 5/32, 11/64, 13/64, 7/32, 15/64,	
17/64, 9/32, 5/16 and 3/8	
1 each: 21/64, 11/32, 25/64, 27/64, 7/16, 1/2	

23.10

DRILL INDEXES

DESCRIPTION	# OF DRILLS		PART
1/16 to 1/4 by 64ths	13	А	61600
1/16 to 1/2 by 32nds	15	А	61605
1/16 to 3/8 by 64ths	21	А	61610
1/16 to 1/2 by 64ths	29	А	61615
1 to 60 Numbers	60	А	61620
A to Z Letters	26	А	61625
61 to 80 Numbers	20	А	61630
Left Hand Drills 1/8, 3/16, 1/4, 5/16	4	А	61631
Left Hand Drills 1/6 to 1/2 by 32nds	15	А	61633
Stubby Drill Index 1/16 to 1/2 by 64ths	29	А	61678
1/4" REDUCED SHANK INDE>	(ES		
1/16 to 1/2 by 32nds	15	А	61640
1/16 to 3/8 by 64ths	21	А	61645
1/16 to 1/2 by 64ths	29	А	61650
1/16 to 1/2 by 64ths (stubby)	29	А	61678
1/2" REDUCED SHANK INDE)	(ES		
9/16" to 1" by 16ths	8	А	61648
JOBBER LENGTH – DRILL CA	DDY INDEX		
1/16 to 1/2 by 64ths	29	Α	61642
		-	

CA



23

CIC 200™ QUAD POINT **PLUS** DRILLS

JOBBER LENGTH – FRACTIONAL SIZE DRILLS

FEATURES

- Stops Chuck Slippage Flats on drill shanks allow easy positive chuck grip.*
- Made of Special Hi-moly Tool Steel Tougher than cobalt steel.
- Substantially Longer Cutting Life The nitro-carburized flute has an increased Rockwell hardness.
- Cuts Harder Materials

The flatter point takes a smaller chip. More torque is directed to a smaller area. Allows drilling into materials with hardness over 30 on the Rockwell "C" Scale.

Stops Drill Walking

23

The split point design gives accurate starting. No need for a center punch.

Holds Tighter Hole Size

The split point design is self centering. This limits the normal oversize drilling characteristics.

- Outstanding Quality Appearance A rich gold color sets it apart from commodity cutting tools.
- Runs Cooler, Uses Less Torque 135° point takes a smaller chip resulting in less heat. Friction is reduced by the gold surface treatment.
- Made in U.S.A.

* 3-flat design, 3/16" diameter and larger.

APPLICATIONS

- Work Hardening Grades of Stainless Steel 300 series stainless steel
- Free Machining Grades of Stainless Steel 400 series and type 303 stainless steel
- Titanium Alloys
- Other High Tensile Strength Materials

Flats on Shank for Positive Chuck Grip



Quality Gold Finish

DIA.	LENGTH	DEC. EQUIV.		PART
1/16"	1-7/8''	.0625	С	93004
5/64"	2"	.0781	с	93005
3/32"	2-1/4"	.0938	с	93006
7/64"	2-5/8''	.1094	с	93007
1/8"	2-3/4"	.1250	с	93008
9/64"	2-7/8"	.1406	с	93009
5/32"	3-1/8"	.1562	с	93010
11/64"	3-1/4"	.1719	с	93011
3/16"	3-1/2''	.1875	с	93012
13/64''	3-5/8''	.2031	с	93013
7/32"	3-3/4"	.2188	с	93014
15/64''	3-7/8''	.2344	с	93015
1/4''	4''	.2500	С	93016
17/64''	4-1/8''	.2656	с	93017
9/32''	4-1/4''	.2812	С	93018
19/64''	4-3/8"	.2969	А	93019
5/16''	4-1/2''	.3125	А	93020
21/64''	4-5/8''	.3281	А	93021
11/32''	4-3/4"	.3438	А	93022
23/64''	4-7/8''	.3594	А	93023
3/8"	5''	.3750	А	93024
25/64''	5-1/8''	.3906	А	93025
13/32''	5-1/4''	.4062	А	93026
27/64''	5-3/8''	.4219	А	93027
7/16''	5-1/2''	.4375	А	93028
29/64''	5-5/8''	.4531	А	93029
15/32''	5-3/4''	.4688	А	93030
31/64''	5-7/8''	.4844	А	93031
1/2"	6''	.5000	А	93032

Bold type in table indicates 3-flat design (3/16" diameter & larger).

CIC 200™ QUAD POINT **PLUS** DRILLS

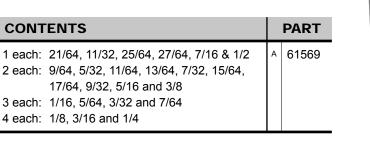
DRILL ORGANIZER

FRACTIONAL SIZES - 1/16" TO 1/2" BY 64^{THS}

- 3-Drawer organizer
- 50 Drills
- Holds 29 Sizes (23 sizes included)
- Sizes labeled on front of each drawer
- · One convenient location for your drills
- The right size drill is always available

Controls your	drill	inventory
---------------	-------	-----------

- · Can store hundreds of drills in one place
- Eliminates misplaced drills
- Easy access for your staff
- Cabinet: 14-1/2" W x 7-1/4" H x 7-1/4" D





OF DRILLS

13

15

21

29

29

DRILL INDEXES AND CADDY

TYPE

Index

Index

Index

Index

Caddy

SIZES

1/16 to 1/4 by 64ths

1/16 to 1/2 by 32nds

1/16 to 3/8 by 64ths

1/16 to 1/2 by 64ths

1/16 to 1/2 by 64ths



P/N 61563



P/N 61566



P/N 61564





P/N 61568

P/N

61563

61564

61566

61567

61568

А

А

А

А

CIC 200[™] LEFT HAND DRILLS

REMOVES BROKEN STUDS AND CAP SCREWS

Threads out broken studs or cap screws, saving hours of work retapping or fighting with an E-Z out.

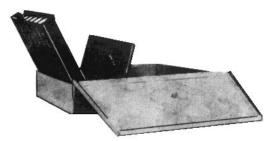


DRILLS

- USE WITH A VSR DRILL MOTOR
- RECOMMENDED RPM: 300-500
- CENTER-PUNCH TO KEEP DRILL IN CENTER OF STUD AND TO AVOID THREAD DAMAGE. THE JARRING ACTION FROM CENTER PUNCHING WILL HELP TO LOOSEN THE BROKEN PIECE.

	PART		DIA.	PART		DIA.
	11018	А	9/32	11003	А	1/16
C	11010	А	19/64	11002	А	5/64
1	11011	А	5/16	11001	А	3/32
5-	11012	А	11/32	11004	А	7/64
1	11013	А	3/8	11005	А	1/8
	11014	А	13/32	11006	А	5/32
15	11015	А	7/16	11007	А	3/16
1	11016	А	15/32	11008	А	7/32
5/	11017	А	1/2	11009	А	1/4

LEFT-HAND DRILL INDEXES



CONTENTS	PART			
1 each 1/8, 3/16, 1/4 and 5/16	А	61631		
5-Piece Index includes: 1 each 1/8, 3/16, 1/4, 11/32 and 7/16	A	61629		
15-Piece Index includes: 1 each 1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 13/32, 7/16, 15/32 and 1/2	A	61633		

TRI-CARB DRILLS

DESIGNED FOR DRILLING HIGHLY ALLOYED FERROUS METALS

• DESIGNED FOR USE ON HEAT-TREATED, HARDENED MATERIAL UP TO 65 RC

- THREE FLUTE GEOMETRY REDUCES CHIPLOAD PER CUTTING EDGE AND INCREASES TOOL LIFE, TORSIONAL STRENGTH AND RIGIDITY
- SUITABLE FOR DRILLING MATERIALS WHICH PRODUCE POWDER LIKE CHIPS SUCH AS CAST IRON
- SUPERIOR HOLE SIZE TOLERANCE, HOLE ROUNDNESS AND SURFACE FINISH
- ACCURATE SELF-CENTERING CAPABILITY ELIMINATES NEED FOR SEPARATE CENTERING
- NOT RECOMMENDED FOR NON-FERROUS MATERIALS



DIA.	OVERALL LENGTH	DEC. EQUIV.	FLUTE LENGTH		PART	DIA.	OVERALL LENGTH	DEC. EQUIV.	FLUTE LENGTH		PART
1/8	1-7/8	.1250	3/4	А	77400	3/8	3-1/8	.3750	1-19/32	А	77408
3/16	2-3/16	.1875	15/16	А	77402	7/16	3-7/16	.4375	1-3/4	А	77410
1/4	2-1/2	.2500	1-3/16	А	77404	1/2	3-3/4	.5000	2	А	77412
5/16	2-13/16	.3125	1-7/16	А	77406	INDEX - Co	ontains one eac	h: 1/8, 3/16,	1/4 & 5/16	А	61652

CIC 200[™] SUPER COBALT DRILLS

OUTSTANDING PERFORMANCE - FOR DIFFICULT CUTTING JOBS

An 8% cobalt content drill with excellent resistance to strong abrasives and heat.

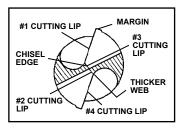


EASILY IDENTIFIED BY BLACK MARK AT THE SHANK END

EXTENDED FLUTES FOR FASTER HOT CHIP REMOVAL

THICKER WEB GIVES GREATER PROTECTION AGAINST BREAKAGE

QUAD POINT 4 CUTTING EDGES FOR FASTER, SURER STARTS ... EVEN ON HARDENED ROUNDED SURFACES



CUTS THROUGH:

• WORK HARDENING STAINLESS STEEL • 400 SERIES STAINLESS STEEL • IRON ALLOY STEELS • TITANIUM ALLOYS

• TOOL STEELS • HIGH TEMPERATURE ALLOYS • HIGH ABRASIVE PLASTICS AND FIBERGLASS MATERIALS

		JOBBER	LENGTH -	- FRACTION	IAL SIZES			
DIAMETER	OVERALL LENGTH	FLUTE LENGTH	PART	DIAMETER	OVERALL LENGTH	FLUTE LENGTH		PART
3/64	1-3/4	3/4	A 96203*	9/32	4-1/4	2-15/16	А	96218
1/16	1-3/4	3/4	A 96204	19/64	4-3/8	3-1/16	А	96219
5/64	2	1	A 96205	5/16	4-1/2	3-3/16	А	96220
3/32	2-1/4	1-1/4	A 96206	21/64	4-5/8	3-5/16	А	96221
7/64	2-5/8	1-1/2	A 96207	11/32	4-3/4	3-7/16	А	96222
1/8	2-3/4	1-5/8	A 96208	23/64	4-7/8	3-1/2	А	96223
9/64	2-7/8	1-3/4	A 96209	3/8	5	3-5/8	А	96224
5/32	3-1/8	2	A 96210	25/64	5-1/8	3-3/4	А	96225
11/64	3-1/4	2-1/8	A 96211	13/32	5-1/4	3-7/8	А	96226
3/16	3-1/2	2-5/16	A 96212	27/64	5-3/8	3-15/16	А	96227
13/64	3-5/8	2-7/16	A 96213	7/16	5-1/2	4-1/16	А	96228
7/32	3-3/4	2-1/2	A 96214	29/64	5-5/8	4-3/16	А	96229
15/64	3-7/8	2-5/8	A 96215	15/32	5-3/4	4-5/16	А	96230
1/4	4	2-3/4	A 96216	31/64	5-7/8	4-3/8	А	96231
17/64	4-1/8	2-7/8	A 96217	1/2	6	4-1/2	А	96232

* Size smaller than 1/16 have non-split point.

NOTE: Cobalt is normally a very brittle material - caution should be used when a hand drill motor is in use.

Keep from side thrusting which may result in drill breakage. <u>Always</u> store in proper cabinet to eliminate hitting drills together.



JOBBER LENGTH INDEX								
CONTENTS		PART						
15 DRILLS – 1/16 to 1/2 by 32nds	А	61692						
29 DRILLS – 1/16 to 1/2 by 64ths	А	61690						

CIC 200[™] CARBIDE TIPPED DRILLS

LONGER TOOL LIFE AND BETTER ABRASION RESISTANCE

BRIGHT FINISH

- EXCELLENT FOR NONFERROUS APPLICATIONS AND LOW TENSILE STEELS
- HEAVY DUTY CONSTRUCTION FOR INCREASED TOOL STRENGTH
- CAM RELIEVED 118° POINT-GENERAL PURPOSE ANGLE
- WITH RADIAL RELIEF FOR ACCURATE HOLES



DIAMETER	OVERALL LENGTH	FLUTE LENGTH	PART	DIAMETER	OVERALL LENGTH	FLUTE LENGTH	PART
1/8	2-3/4	1-5/8	A 61360	3/8	5"	3-5/8	A 61376
3/16	3-1/2	2-5/16	A 61364	7/16	5-1/2	4-1/16	A 61380
1/4	4"	2-3/4	A 61368	1/2	6"	4-1/2	A 61384
5/16	4-1/2	3-3/16	A 61372	7-PIECE IND	EX		A 61622

CARBIDE TIPPED HARD STEEL BITS

A LONGER CARBIDE TIP PREVENTS CHIPPING

- STRAIGHT FLUTE DESIGN DISSIPATES HEAT QUICKLY
 DRILLS EXTRA TOUGH MATERIALS SUCH
- AS SAFES, BEARING RACES, DIES, ETC.





SIZE	SHANK DIA.	PART	SIZE	SHANK DIA.		PART						
1/8 x 2-3/4	1/8	a 77480	1/4 x 4	1/4	А	77485						
5/32 x 3	5/32	A 77481	5/16 x 6	5/16	А	77489						
3/16 x 3	3/16	a 77483	3/8 x 6	3/8	А	77491						
7/32 x 4	7/32	A 77484	1/2 x 6	1/2	A	77493						
POUCH ASSOF	POUCH ASSORTMENT - Contains 8 Bits: 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8 and 1/2											

CARBIDE TIPPED DRILL BITS

FOR USE WITH CEMENT SCREWS ON BRICK, CEMENT AND CINDER BLOCK



SIZE	USE WITH CEMENT SCREW PART NO.		DRILL PART NO.
5/32 x 3-1/2	9050, 9051, 9064, 9065	Α	9086
5/32 x 4-1/2	9052, 9053, 9066, 9067	A	9088
5/32 x 5-1/2	9054, 9055, 9056, 9068, 9069, 9070	A	9090
3/16 x 3-1/2	9057, 9058, 9071, 9072	A	9083
3/16 x 4-1/2	9059, 9060, 9073, 9074	A	9084
3/16 x 5-1/2	9061, 9062, 9063, 9075, 9076, 9077	A	9087

CIC 200[™] CARBIDE MASONRY DRILLS

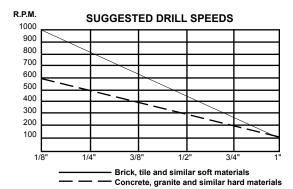
TUNGSTEN CARBIDE TIP

The only drill that will satisfy all your masonry drill needs. A longer lasting, faster cutting drill which can be used with either a 3/8" or 1/2" rotary or percussion drill motor.

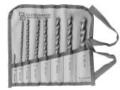
FEATURES

- DURABLE TUNGSTEN CARBIDE TIP.
- CHROME VANADIUM STEEL CONSTRUCTION FOR LONGER LIFE AND GREATER FLEXIBILITY
- SPIRAL DESIGN EASILY REMOVES BORE MATERIAL REDUCING PACKING AND HEATING OF DRILL
- SPECIAL CONFLUENCE OF SPIRAL PROVIDES GREATER STRENGTH TO DRILL

EASILY CUTS THROUGH BRICK, TILE, GRANITE, CONCRETE AND SIMILAR HARDWARING METALS



DRILL DIA.	SHANK DIA.	OVERALL LENGTH		PART	DRILL DIA.	SHANK DIA.	OVERALL LENGTH		PART	DRILL DIA.	SHANK DIA.	OVERALL LENGTH	I	PART
1/8	1/8	3	А	77501	3/8	3/8	4-1/2	А	77598	9/16	3/8	7	A	77550
5/32	5/32	3-1/8	А	77502	3/8	1/4	4-1/2	А	77599	5/8	1/2	6	А	77561
11/64	11/64	3	А	77503	3/8	3/8	6	А	77530	5/8*	3/8	6	А	77563
3/16	3/16	3-1/2	А	77504	3/8	1/4	6	А	77531	5/8	3/8	10	А	77565
3/16	3/16	6	А	77505	3/8	3/8	13	А	77532	5/8	3/8	20	А	77568
13/64	13/64	3	А	77506	3/8	3/8	20	А	77536	5/8	1/2	24	А	77569
7/32	7/32	4	А	77507	3/8	3/8	24	А	77538	3/4	1/2	6	А	77571
15/64	15/64	4	А	77508	7/16	3/8	6	А	77541	3/4*	3/8	6-1/4	А	77572
1/4	1/4	4	А	77509	1/2	1/2	6	А	77545	3/4	1/2	10	A	77573
1/4	1/4	6	А	77510	1/2	3/8	6	А	77546	3/4	3/8	13	А	77574
1/4	1/4	13	А	77511	1/2	1/4	6	А	77547	3/4	1/2	16	А	77575
1/4	1/4	16	А	77512	1/2	3/8	13	А	77549	3/4	1/2	20	А	77576
1/4	1/4	20	А	77513	1/2	1/4	13	А	77562	3/4	3/8	20	А	77577
1/4	1/4	24	А	77514	1/2	3/8	20	А	77555	3/4	1/2	24	А	77578
9/32	1/4	4	А	77516	1/2	3/8	24	А	77558	7/8	1/2	6-1/4	А	77581
9/32	1/4	6	А	77517						7/8	1/2	13	А	77580
5/16	5/16	4-3/4	А	77518						7/8	1/2	20	А	77582
5/16	1/4	4-3/4	А	77519						1	1/2	6-1/4	А	77584
5/16	5/16	6	А	77520						1	1/2	13	А	77585
5/16	5/16	13	A	77522						1	1/2	20	А	77586
5/16	5/16	20	А	77526						1-1/8	1/2	12	А	77589
-		-			-					1-1/4	1/2	13	A	77590



CARBIDE MASONRY DRILLS POUCH ASSORTMENT - Contains 8 Masonry Drills 1/8 x 3 x 1/8, 3/16 x 6 x 3/16, 1/4 x 6 x 1/4, 5/16 x 6 x 5/16, 3/8 x 6 x 3/8, 7/16 x 6-1/4 x 3/8, 1/2 x 6-3/4 x 3/8 and 5/8 x 6 x 3/8

* Ground flats on shank for non-slip chucking.

C	CIC 200 [™] CARBIDE MASONRY DRILL ORGANIZER										
	CONTENTS		PART								
	7 Carbide Masonry Drill "Fractional Sizes" include: 1/8 x 3 x 1/8, 3/16 x 6 x 3/16, 1/4 x 6 x 1/4, 5/16 x 6 x 5/16, 3/8 x 6 x 3/8, 1/2 x 6-3/4 x 3/8 and 5/8 x 6 x 3/8	A	61612								
Vi	26 Carbide Masonry Drill Fractional Sizes includes 1/8 to 3/4	A	61611								

CIC 200[™] H.D. MASONRY DRILLS

H.D. CARBIDE TIP FOR ROTO HAMMER

For use on all tile, marble, terrazzo, brick, stone, slate, cement and cinder block.

"A" TAPER SHANK DRILLS



DRILL DIA.	OVERALL LENGTH	MAX. DRILL DEPTH		PART	DRILL DIA.	OVERALL LENGTH	MAX. DRILL DEPTH		PART
3/16	3-3/8	1-3/16	А	20401	1/2	12	9	А	20418
3/16	4-3/4	2-9/16	А	20402	1/2	18	15-1/2	А	20419
1/4	4	1-3/4	А	20403	9/16	6	3-1/2	А	20420
1/4	6	4	А	20404	9/16	9	6-1/2	А	20421
9/32	4-1/2	2-3/8	А	20405	9/16	18	15-1/2	А	20422
5/16	4-1/2	2-3/8	А	20406	5/8	9	6-1/2	А	20424
5/16	5-7/8	4	А	20407	5/8	12	9	А	20425
5/16	7	5	А	20408	5/8	18	15-1/2	А	20426
3/8	5-5/16	3	А	20409	11/16	9	6-1/2	А	20428
3/8	9	6-1/2	А	20410	3/4	6	3-1/2	А	20429
3/8	12	9	А	20411	3/4	9	6-1/2	А	20430
3/8	18	15-1/2	А	20412	3/4	12	9	А	20431
7/16	5	3	А	20413	3/4	18	15-1/2	А	20432
7/16	12	9	А	20414	27/32	6	3-1/2	А	20433
1/2	5-1/2	3-3/8	А	20416	7/8	9	6-1/2	А	20434
1/2	9	6-1/2	А	20417	-	_	-		-

"B" TAPER SHANK DRILLS



DRILL DIA.	OVERALL LENGTH	MAX. DRILL DEPTH	PART	DRILL DIA.	OVERALL LENGTH	MAX. DRILL DEPTH		PART
1/2	9	6-1/2	A 20380	3/4	12	9	А	20364
1/2	12	9	A 20352	3/4	18	15-1/2	А	20365
1/2	18	15-1/2	A 20353	3/4	24	21	А	20366
9/16	9	6-1/2	^A 20354	27/32	6	3-1/2	А	20367
9/16	18	15-1/2	A 20355	7/8	6	3-1/2	А	20368
5/8	6	3-1/2	A 20356	7/8	9	6-1/2	А	20369
5/8	9	6-1/2	A 20357	7/8	12	9	А	20370
5/8	12	9	^A 20358	7/8	18	15-1/2	А	20371
5/8	18	15-1/2	A 20359	1	6	3-1/2	А	20372
11/16	9	6-1/2	A 20360	1	9	6-1/2	А	20373
11/16	18	15-1/2	^A 20361	1	12	9	А	20374
3/4	6	3-1/2	A 20362	1	18	15-1/2	А	20375
3/4	9	6-1/2	^A 20363	_	_	_		-

SDS PLUS HAMMER DRILL BITS

Features

- Made in Germany world renowned for quality of product
- · Versatile slot drive system hammer bits fit most rotary hammers
- Aggressive, durable carbide tip (1)allows easy centering and fast drilling
- · Dynamic, chisel shaped bit head (2) ensures swift penetration
- Patented, reinforced flute geometry reduces vibration, transfers more impact energy to the cutting face and quickly channels debris from the hole
- · Balance of tip and flute geometry ensure perfectly round holes giving superior anchoring
- · Versatile slot drive system hammer bits fit most rotary hammers.
- Vacuum brazed with pure copper at 1900°F.
- Vacuum heat treated tool body to 50RC. BC20 grade carbide.
- · Reinforced flutes and chisel shaped carbide tip.

Applications

- Highway rails
- Structural supports
- Pipe mounts
- Electrical mounts
- Bridge construction
- HVAC mounts
- Machinery mounts
- Door and window frames
- Roofing
- Brackets

- Drills Materials

 Concrete & stone
- Masonry
- Grout filled block
- Hollow block
- Solid brick
- Hollow brick
- Cement board
- Granite



7-Piece Set P/N 61898

Contains these drill	diameters:
• 5/32" X 4" X 6"	P/N 77001
• 3/16" X 4" X 6"	P/N 77003
• 1/4" X 4" X 6"	P/N 77013
• 3/8" X 4" X 6"	P/N 77021
• 1/2" X 4" X 6"	P/N 77028
Includes Rebar Har	nmer Bits:
• 1/4" X 4" X 6"	P/N 77053
• 3/8" X 4" X 6"	P/N 77066

	PART NUMBER	DRILL DIAMETER	MAX. DRILL DEPTH	OVERALL LENGTH		PART NUMBER	DRILL DIAMETER	MAX. DRILL DEPTH	OVERALL LENGTH
А	77000	5/32"	2"	4″	А	77026	7/16″	4″	6″
А	77001	5/32"	4"	6″	А	77027	7/16″	10″	12″
А	77002	3/16″	2"	4″	А	77028	1/2″	4″	6″
А	77003	3/16″	4″	6″	А	77029	1/2″	8″	10″
А	77004	3/16″	6″	8″	А	77030	1/2″	10″	12″
А	77005	3/16″	10″	12″	А	77031	1/2″	16″	18″
А	77006	7/32"	4"	6″	А	77032	1/2″	22″	24″
А	77007	7/32"	6″	8″	А	77033	3/4"	22″	24″
А	77008	7/32"	9″	11″	А	77034	5/8″	22″	24″
А	77010	7/32"	12″	14″	А	77036	5/8″	6″	8″
А	77011	7/32"	14″	16″	А	77039	11/16″	6″	8″
А	77012	1/4″	2"	4″	А	77037	5/8″	10″	12″
А	77013	1/4″	4″	6″	А	77035	9/16″	4″	6″
А	77014	1/4″	6″	8″	А	77038	9/16″	16″	18″
А	77015	1/4″	8″	10″	А	77040	3/4"	6″	8″
А	77016	1/4″	9″	11″	А	77041	3/4"	10″	12″
А	77017	1/4″	12″	14″	А	77042	3/4"	16″	18″
А	77018	1/4″	14″	16″	А	77043	27/32"	6″	8″
А	77019	5/16″	4"	6″	А	77044	7/8″	6″	8″
А	77020	5/16″	10″	12″	А	77045	7/8″	10″	12″
А	77021	3/8″	4"	6″	А	77046	1″	8″	10″
А	77022	3/8″	8″	10″	А	77047	1″	16″	18″
А	77023	3/8″	10″	12″					
А	77024	3/8″	16″	18″					
А	77025	3/8″	22″	24″					

SDS PLUS REBAR HAMMER DRILL BITS

Features

- · Made in Germany world renowned for quality of product
- "Solid-Tip" Technology cuts through rebar (1)
- 4 Cutter head cuts faster and lasts longer (2)
- · Modern heat treat and brazing processes ensuring proper hardness, toughness, and durability for maximum life
- · Centering point for improved positioning
- Shortened conical-shaped dust tracks for fast debris removal (3)
- Reinforced core and special flute for maximum energy transfer and reduced vibration
- · Solid tip cross head design with centering tips for strength and easy start up
- · "Solid-Tip" technology cuts through rebar
- · 4 cutter head cuts faster and lasts longer
- · Reinforced flutes and chisel shaped carbide tip

Applications

- · Highway rails
- Structural supports
- · Pipe mounts
- · Electrical mounts
- Bridge construction
- HVAC mounts
- Machinery mounts
- Door and window frames
- Roofing

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Brackets

Drills Materials

- Concrete & stone
- Masonry
- Grout filled block
- · Hollow block
- · Solid brick
- · Hollow brick
- · Cement board
- Granite



5-Piece Set P/N 61899

Contains these drill diameters:

• 3/16" x 4" x 6"	P/N 77060
• 1/4" x 4" x 6"	P/N 77053

- 5/16" x 4" x 6" P/N 77069
- 3/8" x 4" x 6" P/N 77066
- 1/2" x 4" x 6" P/N 77050

I	PART NUMBER	DRILL DIAMETER	MAX. DRILL DEPTH	OVERALL LENGTH		PART NUMBER	DRILL DIAMETER	MAX. DRILL DEPTH	OVERALL LENGTH
А	77059	3/16″	2"	4″	А	77074	7/16″	4″	6″
А	77060	3/16″	4″	6″	А	77072	7/16″	10″	12″
А	77061	3/16″	6″	8″	А	77073	7/16″	16″	18″
А	77062	3/16″	8″	10″	А	77050	1/2″	4″	6″
А	77058	3/16″	10″	12″	А	77048	1/2″	10″	12″
А	77052	1/4″	2″	4"	А	77049	1/2″	16″	18″
А	77053	1/4″	4″	6″	А	77078	9/16″	4″	6″
А	77054	1/4″	6″	8″	А	77076	9/16″	10″	12″
А	77055	1/4″	8″	10″	А	77077	9/16″	16″	18″
А	77051	1/4″	10″	12″	А	77070	5/8″	10″	12″
А	77069	5/16″	4″	6″	А	77071	5/8″	16″	18″
А	77067	5/16″	10″	12″	А	77063	3/4"	16″	18″
А	77068	5/16″	16″	18″	А	77075	7/8″	16″	18″
А	77066	3/8″	4″	6″	А	77057	1″	16″	18″
А	77064	3/8″	10″	12″	А	77056	1-1/4″	16″	18″
А	77065	3/8″	16″	18″					

SDS MAX HAMMER DRILL BITS - 4 CUTTER CROSS-HEAD

CHROMATE

60

Features

- · Made in Germany world renowned for quality of product
- · 4 Cutter head cuts faster and lasts longer
- · Unique carbide geometry and centering tips fast start up and drilling
- Modern heat-treating and brazing process ensures proper combination of product hardness, toughness and durability resulting in maximum life
- BC20 grade of carbide

Applications

- Concrete
- · Hard masonry materials
- Pipe, electrical, cable and wiring clearances
- · Ceiling and wall cavities

Quick Change Adaptors

Quickly and easily adapt SDS-Max and spline drive roto-hammer power tools to use standard SDS-Plus hammer bits. • P/N 77104 – SDS-Max to SDS-Plus

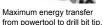
• P/N 77105 – Spline to SDS-Plus



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4 Cutter SDS-Max/Spline





5-Piece Set P/N 8807

Contains these drill diameters:

• 1/2" x 8" x 13"	P/N 77079
• 5/8" x 8" x 13"	P/N 77083
• 3/4" x 8" x 13"	P/N 77087
• 7/8" x 8" x 13"	P/N 77090
• 1″ x 8″ x 13″	P/N 77093

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	PART NUMBER	DRILL DIAMETER	MAX. DRILL DEPTH	OVERALL LENGTH	I	PART NUMBER	DRILL DIAMETER	MAX. DRILL DEPTH	OVERALL LENGTH
Α	77079	1/2″	8″	13″	Α	77093	1″	8″	13″
А	77080	1/2″	16″	21″	А	77094	1″	17″	21″
A	77081	9/16"	8″	13"	А	77095	1"	31"	36"
А	77082	9/16"	16"	21"	А	77096	1-1/8"	10"	15"
А	77083	5/8″	8″	13″	А	77097	1-1/8″	12″	17″
А	77084	5/8″	16″	21″	А	77098	1-1/8"	17"	21"
A	77085	5/8"	31"	36″	А	77099	1-1/4″	10″	15″
A	77086	11/16"	16"	21"	А	77100	1-1/4"	18"	23″
А	77087	3/4″	8″	13″	Α	77101	1-1/4"	31"	36″
Α	77088	3/4″	17″	21″	А	77102	1-3/8"	18"	23"
A	77089	3/4"	31"	36″	А	77103	1-1/2″	18″	23″
A	77090	7/8″	8″	13″					
А	77091	7/8″	17″	21″					
Α	77092	7/8"	31"	36"					

Bold italic text = Non-stock item

Please allow 1 week for delivery.

SPLINE SHANK HAMMER DRILL BITS - SINGLE POINT

Features

- · Made in Germany world renowned for quality of product
- · Splines held to very close tolerances assure perfect fit and improve impact transmission for faster drilling
- -----· Vacuum brazed with pure copper at 1900°F and vacuum heat treated tool body to 50RC
- HL20 grade carbide

Applications

- Concrete
- · Hard masonry materials

r	PART NUMBER	DRILL DIAMETER	MAX. DRILL DEPTH	OVERALL LENGTH		PART NUMBER	DRILL DIAMETER	MAX. DRILL DEPTH	OVERALL LENGTH
А	77106	3/8"	3"	8"	А	77127	3/4″	11″	16″
А	77107	3/8"	5"	10"	А	77128	3/4″	17″	22″
Α	77108	3/8"	8″	13"	А	77129	3/4"	24"	29"
Α	77109	3/8"	11"	16"	А	77130	3/4"	31"	36"
Α	77110	7/16"	8"	13"	А	77131	7/8"	11"	16"
А	77111	1/2″	5″	10″	А	77132	7/8″	17″	22″
А	77112	1/2"	8"	13"	А	77133	7/8″	31″	36″
А	77113	1/2″	11″	16″	А	77134	1″	11″	16″
А	77114	1/2"	17"	22"	А	77135	1″	17″	22″
Α	77115	1/2"	24"	29"	А	77136	1"	31"	36"
Α	77116	1/2"	31"	36"	А	77137	1-1/8″	11″	16″
А	77117	9/16"	5"	10"	А	77138	1-1/8"	17"	22"
А	77118	9/16"	8"	13"	А	77139	1-1/4″	11″	16″
Α	77119	5/8″	5″	10″	А	77140	1-1/4"	17"	22"
A	77120	5/8″	8″	13″	А	77141	1-1/4"	31"	36"
Α	77121	5/8"	11"	16"	А	77142	1-3/8"	11"	16"
Α	77122	5/8"	17"	22"	А	77143	1-3/8"	17"	22"
А	77123	5/8"	24"	29″	А	77144	1-1/2″	11″	16″
Α	77124	5/8"	31"	36"	А	77145	1-1/2″	17″	22″
Α	77125	11/16"	8"	13"	А	77146	1-3/4"	17"	22"
Α	77126	3/4"	5″	10"	А	77147	2"	17"	22"

Bold italic text = Non-stock item

Please allow 1 week for delivery.



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SPLINE SHANK HAMMER DRILL BITS - QUAD POINT

Features

- Made in Germany world renowned for quality of product
- Splines held to very close tolerances assure perfect fit and improve impact transmission for faster drilling
- Vacuum brazed with pure copper at 1900°F
- Vacuum heat treated tool body to 50RC
- HL20 grade carbide

Benefits

- Quad Point Advantages (over single point versions)
- 50% improved bit life
- Rounder, more accurate holes
- 60% less vibration
- 30% less noise
- Resists rebar hits
- Extends hammer life
- Less operator fatigue

Applications

- Concrete
- Hard masonry materials



	PART NUMBER	DRILL DIAMETER	MAX. DRILL DEPTH	OVERALL LENGTH		PART NUMBER	DRILL DIAMETER	MAX. DRILL DEPTH	OVERALL LENGTH
А	77148	5/8″	5″	10″	А	77160	1″	11″	16″
A	77149	5/8″	11″	16″	А	77161	1″	17″	22″
А	77150	5/8″	17″	22″	А	77162	1"	31"	36"
А	77151	5/8"	24"	29″	А	77163	1-1/8″	11″	16″
А	77152	5/8"	31"	36″	А	77164	1-1/8″	17″	22″
А	77153	3/4″	5″	10″	А	77165	1-1/4″	11″	16″
A	77154	3/4″	11″	16″	А	77166	1-1/4"	17"	22"
Α	77155	3/4"	17"	22"	А	77167	1-3/8"	11"	16"
Α	77156	3/4"	24"	29″	А	77168	1-3/8"	17"	22"
А	77157	3/4″	31″	36″	А	77169	1-1/2″	17″	22″
А	77158	7/8″	11″	16″	А	77170	1-3/4"	18"	23"
A	77159	7/8″	17″	22″	А	77171	2"	18"	23"

Bold italic text = Non-stock item

Please allow 1 week for delivery.

HAMMER CORE BITS - CARBIDE TIPPED/HEAVY WALL

Features

- Made in Germany World renowned for quality of product
- · Used in rotary hammers operating in the rotary hammer mode
- · Produce holes significantly larger than the rated power drive
- · Heat treated tool steel; core bodies are machined from one single piece of steel
- · Teeth set with negative and positive rake to cut concrete and screening
- · Tooth edges faced to act as secondary cutter area to reduce snagging
- Pilot Drill/Centering bit is recommended for best results (Pilot Drill/Centering bit is included with core bit)

Benefits

- Cutting the circumference of the hole leaves the center as a solid, so concrete removal is reduced for large size holes
- Cutting tips are put in at irregular intervals to avoid setting up a sympathetic vibration when producing the hole
- Each tooth presents itself to a random & new section of concrete as opposed to the piece previously hit by another tooth
- · Multiple teeth assure faster cutting and debris evacuation from cutting path

Applications

Light to medium hard building materials

Pipe Sizes & Types

Bit	Pipe	
Diameter	Sizes	Pipe Types
1-3/4″	1-1/4″	Cu, EMT, 1" Rigid, IMC Sched. 40
2″	1-1/2″	Cu, EMT, Rigid, IMC Sched. 40
2-5/8"	2″	Cu, EMT, Rigid, IMC Sched. 40
3″	2-1/2″	Cu, EMT, Rigid, IMC Sched. 40
3-1/8″	3″	Cu, EMT, Rigid, IMC Sched. 40
4″	3-1/2″	Cu, EMT, Rigid, IMC Sched. 40
5″	4″	Cu, EMT, Rigid, IMC Sched. 40



	PART NUMBER	BIT DIAMETER	USABLE LENGTH	CORE TOLERENCE		PART NUMBER	BIT DIAMETER	USABLE LENGTH	CORE TOLERENCE
А	77172	1-3/4″	4″	1.61-1.55	А	77176	3-1/2″	4″	3.58-3.52
А	77173	2″	4″	2.08-2.03	А	77177	4″	4″	4.13-4.07
Α	77174	2-5/8″	4″	2.63-2.58	А	77178	5″	4″	5.12-5.06
А	77175	3-1/8″	4″	3.19-3.13					

SHANK ADAPTERS AND EXTENSIONS

-	-	

DESCRIPTION	OVERALL LENGTH		PART
SDS Max Adaptor	7"	А	77180
Spline Adaptor	7″	А	77181
Extension	11″	А	77182

PILOT DRILL/CENTERING BIT

Annum -----

DIAMETER	PART
15/32″	A 77179



CIC 200[™] REAMERS

"SPIRAL TAPER" FRAME AND STEEL REAMER

For enlarging, finishing and making precision holes in sheet steel, frames, tubing, alloy and stainless steel sections.

- TRUCK FRAMES
- 5TH WHEEL MOUNTS
- MIS-ALIGNED HOLES
- SPRING HANGERS
- TANK MOUNTINGS
- BOX MOUNTINGS
- STRUCTURAL STEEL
- MACK TRUCK BODY BOUND BOLTS

MORE CUTTING EDGES FOR SMOOTH, FAST PRECISION CUTS WITH LESS CHANCE OF CHIPPING AND GALLING

LEFT HAND SPIRAL FOR EASY ENTRY AND FAST METAL REMOVAL

5-FLUTE DESIGN ELIMINATES

1/2" DIAMETER SHANK // WITH GROUND FLATS FOR NON-SLIP CHUCKING CHATTERING AND ROUGH HOLES

111

SIZE DIAMETER	PILOT DRILL SIZE	DRILL PART		PART
1/4	3/16	91012	A	91458
5/16	7/32	91014	A	91459
3/8	1/4	91016	A	91460
1/2	5/16	91020	A	91461
5/8	3/8	91024	A	91462
3/4	7/16	91028	A	91463
7/8	1/2	91032	A	91464
1	5/8	91242	A	91465
.653	3/8	91024	A	91470
.776	1/2	91032	A	91475

STOP COLLAR

NOTE: Use Tool Cool II (P/N 74185) for greater cutting power and longer reamer life. Use 1/2" heavy duty drill motor – 4.5 amps minimum. Step reaming is recommended for larger size holes.

TAPER PIN REAMERS

- SLOW SPIRAL MORE EFFECTIVE CUTTING AND TAPERING OF HOLE
- 1/4" TAPER PER FOOT
- END HAS 45° CHAMFER FOR EASY HOLE ENTRY
- RECOMMENDED FOR USE WITH HAND TAP WRENCHES

SIZE	SMALL END	LARGE END	FLUTE LENGTH	OVERALL LENGTH	PART
#0	.1287	.1638	1-11/16	2-15/16	a 91486
#1	.1447	.1798	1-11/16	2-15/16	a 91487
#2	.1605	.2008	1-15/16	3-3/16	A 91488
#3	.1813	.2294	2-5/16	3-11/16	A 91489
#4	.2071	.2604	2-9/16	4-1/16	a 91490
#5	.2409	.2994	2-13/16	4-5/16	A 91491
#6	.2773	.3540	3-11/16	5-7/16	A 91492
#7	.3297	.4220	4-7/16	6-5/16	A 91493

CIC 200[™] STEP DRILLS

UNIFORMLY DISTRIBUTES THE CUTTING FORCE PROVIDING SMOOTHER, ROUNDER HOLES





P/N 61672

SINGLE RADIAL CONCAVE FLUTE DESIGN

- NON-SKID TIP PROVIDES FAST, SURE STARTS ON ANY SURFACE
- AUTOMATIC DEBURRING FINISHES THE TOP SIDE OF THE HOLE SMOOTHLY
- LASER MARKED FOR EASY READING OF HOLE SIZES RIGHT ON THE BIT

HOLE SIZE	INCREMENTS	NO. OF HOLES	SHANKK SIZE	STEP THICKNESS		PART
1/8" to 1/2"	in 1/32 increments	13	1/4"	1/8"	в	11100
3/16" to 1/2"	in 1/16 increments	6	1/4"	3/8"	в	11102
1/4" to 3/4"	in 1/16 increments	9	3/8"	1/8"	Α	11104
3/16" to 7/8"	in 1/16 increments	12	3/8"	1/8"	Α	11106
1/2" to 1"	in 1/16 increments	8	1/2"	1/8"	Α	11108
13/16" to 1-3/8"	in 1/16 increments	10	1/2"	1/8"	А	11110
CIC 200 STEP DRILL INDEX – 4 drill set drills holes 1/16" to 7/8"						

HEX SHANK MULTI STEP DRILLS

UNIFORMLY DISTRIBUTES THE CUTTING FORCE TO PROVIDE FASTER, CLEANER HOLES

An entire drill set in one cutting tool, and a must for all professional electricians and sheet metal contractors. The 11116 drill, for example, can drill thirteen diameters from 1/8" to 1/2". These drills feature two flutes (and two cutting edges) for fast drilling.

- Titanium Nitride Coated
- Cuts steel plate, stainless steel, sheet metal, tubing
- 1/4" hex shank for use in quick change adapters
- Step sizes laser marked on tools
- · Self starting tip eliminates need for pilot hole drilling
- Perfect for use in battery powered drills because they cut quickly with low power consumption
- · Great in cordless impact drivers



INCREMENTS	NUMBER OF STEPS	HOLE SIZE RANGE		PART	
in 1/32" increments	13	1/8" to 1/2"	A	11116	
in 1/16" increments	9	1/4" to 3/4"	A	11117	
in 1/16" increments	12	3/16" to 7/8"	А	11118	
in 1/8" increments	13	1/4" to 1-1/8"	A	11119	
Hex Shank Multi Step Drill Set – 3 drills and 1 quick change adapter (Includes P/Ns 11116, 11117, 11118)					
Hex Shank Multi Step Drill Set -	3 drills and 1 quick change adapter (I	ncludes P/Ns 11116, 11118, 11119)	A	61646	

CIC 200[™] CONE DRILLS



FOR HOLES 1/8" - 1-15/16" (3mm - 50mm)

- DRILLS SHEET METAL, PIPE, MILD STEEL, STAINLESS STEEL, PLEXIGLASS, PLASTIC AND WOOD WITH A WALL THICKNESS OF UP TO 5MM
- HOLE DIAMETER (INCH AND METRIC) IS LASERMARKED IN THE FLUTES
- PATENTED SHANK SYSTEM FEATURES ANTI-ROTATION DESIGN AND ALLOWS EASY TOOL CHANGING WITHIN SECONDS



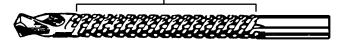
HOLE SIZE	SHANK		PART	HOLE SIZE	SHANK	P	ART
1/8" to 9/16" (3-14mm)	1/4	А	11111	1" to 1-5/8" (24-40mm)	3/8	A	11114
1/4" to 13/16" (6-20mm)	5/16	А	11112	1-3/8" to 1-15/16" (36-50mm)	1/2	A	11115
5/8" to 1-3/16" (16-30.5mm)	3/8	А	11113	CONE DRILL INDEX – 3 drill	set	A 6	61627

BEAVER SAW DRILL

FOR USE IN 1/4" DRILL AND DRILL PRESS

- HIGH SPEED STEEL BIT
- 135° SPLIT POINT
- SELF-CENTERING POINT
- THE ORIGINAL SAW DRILL
- DRILLS
- SAWS
- REAMS
 CUTS BRASS, WOOD, METAL, PLASTIC, ALUMINUM AND STAINLESS

2" CUTTING, SAWING AND REAMING SECTION



DESCRIPTION		PART
BEAVER SAW DRILL	А	61579

MULTI-PURPOSE ROTARY BITS

MULTI MATERIAL DRILL BIT

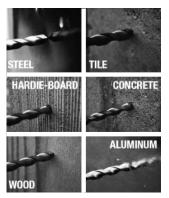
IDEAL FOR CORDLESS DRILLS, CORDED DRILLS AND DRILL PRESSES

- Perfect balance between tip and flute geometry; allows fast and immediate debris removal, also provides smoother, faster drilling.
- · No center punch needed eliminates "walking".
- Unique carbide geometry and centering tips for fast start up and drilling.
- Modern heat-treatment and brazing process ensures proper combination of product hardness, toughness and durability resulting in long life.
- BC20 grade of carbide, diamond ground designed specifically for relevant materials.
- · For use in a huge variety of materials and applications.
- For drilling highway rails, structural supports, pipe mounts, electrical mounts, bridge construction, HVAC mounts, machinery mounts, door and window frames, roofing, brackets.

Drills Materials

- Concrete & Stone
- Masonry
- Ceramic Tile
- Marble
- Brick
- Granite
- Plastics & Fiberglass
- Plexiglass
- Glass
- Cast Metals
- Hardened Steel
- Wood

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Material TypeCutting Speed (rpm)Tile750Metals1,000Masonry1,500Plastics1,750Wood2,000

DRILL DIAMETER	FLUTE LENGTH	OVERALL LENGTH		PART	SETS
1/8"	1-1/4"	2-3/4"	А	47451	P/N 61577 = 5-Pieces
5/32"	2"	3-1/4"	А	47452	P/N 61577 = 5-Pieces P/N 61578 = 7-Pieces
3/16"	2"	3-1/4"	А	47453	(See Below)
3/16"	3-1/2"	6"	А	47449	(See Below)
1/4"	2-1/4"	4"	А	47454	
1/4"	3-1/2"	6"	А	47450	
5/16"	3"	4-3/4"	А	47455	
3/8"	3"	4-3/4"	А	47456	
1/2"	3-1/2"	6"	А	47457	

5-Piece Set P/N 61577

5 piece set contains these drill diameters:

1/8" P/N 47451
5/32" P/N 47452
3/16" P/N 47453
1/4" P/N 47454
5/16" P/N 47455



7-Piece Set P/N 61578

7 piece set contains these drill diameters:

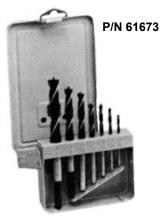
• 1/8″	P/N 47451
• 5/32"	P/N 47452
• 3/16" x 6"	P/N 47449
• 1/4″ x 6″	P/N 47450
• 5/16″	P/N 47455
• 3/8"	P/N 47456
• 1/2" x 6"	P/N 47457



CIC 200[™] SMOOTH-BORE[™] PLASTIC DRILLS

HI-MOLYBDENUM TOOL STEEL - GOLD FINISH

SMOOTH, CLEAN CHIP-FREE HOLES IN ALL PLASTICS, ACRYLICS, FIBERGLASS & LAMINATES





- SPECIAL HI-MOLYBDENUM TOOL STEEL WITH GOLD SURFACE TREATING PROVIDES MAXIMUM STRENGTH AND LUBRICITY
- PRECISION GROUND 60° POINT ASSURES SMOOTH, GRADUAL PENETRATION WITHOUT CRACKING OR CHIPPING
- UNIQUE 0° RAKE ANGLE ELIMINATES GRABBING WHEN BREAKING THROUGH PLASTICS, ACRYLICS AND LAMINATES

NOTE: ALL SIZES 1/4" AND OVER HAVE 1/4" SHANKS

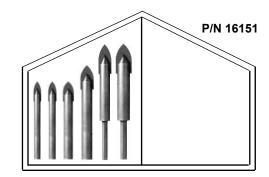
SIZE DIAMETER	OVERALL LENGTH	FLUTE LENGTH		PART	INDEX
1/8	2-1/2	1-3/8	G	61480	CIC 200 [™] SMOOTH BORE [™]
5/32	2-7/8	1-3/4	F	61482	PLASTIC DRILL INDEX
3/16	3-3/16	2	F	61484	7 Drill Set:
1/4	3-9/16	2-5/16	D	61486	1/8" to 1/2" by 16ths
5/16	3-5/16	1-5/8	D	61488	P/N 61673
3/8	3-5/8	1-15/16	С	61490	1
7/16	4	2-3/16	С	61492	1
1/2	4-1/4	2-7/16	В	61494	1

CARBIDE-TIPPED GLASS AND TILE DRILLS

FOR DRILLING GLASS, TILE, MIRRORS, CERAMIC, BRICKS AND MASONRY



- SPECIFICALLY ENGINEERED FOR DRILLING GLASS, TILE, MIRRORS, CERAMIC, BRICKS AND MASONRY
- SPEAR POINT REDUCES CUTTING PRESSURE FOR CLEANER HOLES



SIZE DIAMETER	OVERALL LENGTH	MIN. ACTUAL DIA. SIZE		PART	INDEX
1/8	2-1/4	.135	С	61570	GLASS AND TILE
3/16	2-9/32	.197	С	61571	DRILL INDEX
1/4	2-9/32	.260	С	61572	6 Drill Set:
5/16	3	.322	С	61573	1/8" to 1/2"
3/8	3-7/8	.385	С	61574	P/N 61651
1/2	3-7/8	.515	с	61575	

CIC 200[™] COUNTERSINK DRILLS

COUNTERSINK DRILLS

- 6-FLUTE, 82° ANGLE DESIGN ASSURES SMOOTHER, ROUNDER CUTTING
- SELF-CENTERING FOR EASY USE
- RECOMMENDED FOR BOTH MACHINE AND PORTABLE TOOLS
- CHATTER-FREE PERFORMANCE IN COUNTERSINKING, CHAMFERING AND DEBURRING OPERATIONS





BODY DIA.	SHANK DIA.	OVERALL LENGTH	PART	INDEX
1/4"	1/4"	2"	A 62450	CIC 200 COUNTERSINK
3/8"	1/4"	2"	A 62452	- DRILL INDEX
1/2"	3/8"	2"	A 62454	 Holds 1/4" to 5/8"
5/8"	3/8"	2-1/4"	A 62456	Countersinks
3/4"	1/2"	2-3/4"	A 62458	P/N 61607
1"	1/2"	2-3/4"	A 62460	

COUNTERSINK DRILLS

- SNAPS INTO QUICK RELEASE CHUCK FOR FAST & EASY CHANGE
- ACCEPTS STANDARD JOBBER SIZE DRILLS
- CAN ADJUST DRILL LENGTH FOR DIFFERENT LENGTH SCREWS
 COUNTERSINK PORTION IS MANUFACTURED FROM
- COUNTERSINK PORTION IS MANUFACTURED FI STRESS-PROOF STEEL FOR EXTENDED LIFE
- 82° CUTTING ANGLE FOR STANDARD FLAT HEAD SCREWS
- TWO SHARP CUTTING FLUTES WON'T PLUG UP WITH WOOD
 FIBERS
- DRILL NOT
 INCLUDED

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DRILL SIZE	COUNTERSINK DIAMETER	HEX SIZE	SCREW SIZE		PART
3/32	3/8	1/4	#6	A	62466
7/64	3/8	1/4	#8	A	62467
1/8	3/8	1/4	#10	A	62468
9/64	1/2	1/4	#12	A	62469

SELF-CENTERING DRILL BIT AND GUIDE

- ACCURATE DRILLING OF HOLES FOR HINGES, HANDLES AND DRAWER SLIDES
- STANDARD 1/4" HEX SHANK FITS ALL POWER BIT AND QUICK CHANGE CHUCKS FOR FAST, KEYLESS OPERATION
- HIGH SPEED STEEL DRILL BIT



NOTE: CLEAR JAMS EASILY BY TWISTING OFF GUIDE TOP

DRILL BIT SIZE	SCREW SIZE		PART	REPLACEMENT DRILL
5/64	#2 and #3	A	62462	62462D
7/64	#5 and #6	A	62463	91007
9/64	#8, #9 and #10	A	62464	91009
11/64	#12	A	62465	91011

CIC 200[™] SUPER CUT[™] SPOTWELD DRILLS

SUPER COBALT HIGH SPEED STEEL - GOLD FINISH

Rugged, high performance drill effectively cuts autobody panel spot welds, rivet heads and screw heads. Also ideal for drilling precision, burr-free holes in sheet metal.

- HIGH HARDNESS COBALT STEEL PERMITS 30% GREATER DRILLING SPEEDS THAN HIGH SPEED STEEL DRILLS
- ABRASION RESISTANT ALLOY RESULTS IN EXTREMELY LONG LASTING CUTTING EDGES
- UNIQUE SPUR POINT REMOVES SPOTWELDS, SCREW HEADS AND RIVET HEADS WITHOUT DAMAGING PANELS BEHIND

DIAMETER	SPOTWELD SIZE	OVERALL LENGTH	DOUBLE/SINGLE END		PART
6.5 MM	1/4	1.75"	Single	С	61540
6.5 MM	1/4	3.62"	Double	Α	61545
8.0 MM	5/16	1.75"	Single	В	61550
8.0 MM	5/16	3.62"	Double	А	61555
10.0 MM	3/8	1.75"	Single	А	61560
10.0 MM	3/8	3.62"	Double	А	61565

"BIT KEEPER" AND "BIT BUDDY" SETS

NEATLY STORED IN THE POCKETS OF A BUCKET BOSS® POUCH

Lighter and more versatile than a full tool belt, this pouch is designed to hold the necessities of the job!

- 12 INTERIOR ELASTIC POCKETS STORE BOTH DRILL & SCREWDRIVER BITS
- TRI-FOLD COMPARTMENT OPENS FLAT
- VELCRO® FLAP SECURELY CLOSES AT BOTTOM
- 2 EXTRA LONG POCKETS FOR SPADE BITS OR LARGER TOOLS
- 2" SPRING STEEL CLIPS HOLDS SECURELY TO BELT

"BIT KEEPER" POUCH ONLY - Part #7999



APPLICATIONS: Use for hundreds of small maintenance jobs such as door hinges/ knobs/jambs, light switches. wall anchors, etc.

"BIT KEEPER" SET									
CONTENTS	PART								
"BIT KEEPER" SET	A 61686								
Quad Point Drills: 3/32, 7/64, 1/8, 9/64, 3/16, 1/4 and 5/16 Razor-Back Wood Spade Bits: 3/4 and 1" Snappy Countersinks: 3/32, 7/64, 1/8 and 9/64 1-15/16 Phillips Power Bits: 6-8 and 5-10 Slotted Power Bits w/Finder: 5F-6R and 6F-8R 1" Phillips Insert Bits: 6-8, 8-10 and 12-14 Slotted Insert Bits: 3F-4R, 6F-8R and 10F-12R Mag Nutsetter: 1/4 x 1-3/4 1/8 Hex Socket Key – Short									

ELECTRICIAN'S "BIT KEEPEI	R "	SET
CONTENTS		PART
ELECTRICIAN'S "BIT KEEPER" SET	Α	61683
AC Sensor Magnetic Bit Holder: 1/4 x 6" Combo Drill & Taps: 8/32, 10-24, 10-32, 1/4-2 Black Beauty Drills: 3/16 x 3-1/2 x 3/16, 1/4 x 4-1/8 x 1/4 and 5/16 x 4-3/4 x 5/16 Mag Nutsetter: 1/4 x 1-3/4, 5/16 x 1-3/4 and 3/8 x 1-3/4	0	and a second sec
Phillips Power Bits: 1-15/16 5-10 and 6" 8-10 Slotted Power Bit w/Finder: 10F-12R Slotted Insert Bits: 3F-4R, 6F-8R and 10F-12 1" Phillips Insert Bits – 6-8, 8-10 and 12-14		huu

QUICK CHANGE DRILL "BIT KEEPER" SET	SELF-CENTERING DR "BIT KEEPER" SE	
CONTENTS	PART	CONTENTS
QUICK CHANGE DRILL BIT "BIT KEEPER" SET	A 61682	SELF-CENTERING DRILL "BIT KEEPER" SET
 #8 Drill and Driver 4-5/16" Screw Guide Hex Shank Drill Bits: 3/32, 7/64, 1/8, 9/64, 5/32, 11/64 and 3/16 Power Groove Countersinks: #6, #10, #12 1-15/16 Phillips Power Bits: 6-8 and 5-10 Quick Change Chuck Adapter 1" Slotted Insert Bits: 3F-4R and 6F-8R 1" Phillips Insert Bits: 6-8, 8-10 and 12-14 		1" Phillips Insert Bits: 6-8, 8-10 and 12-14 1-15/16" Phillips Power Bits: 2-4 and 5-10 Carpenter's Pencil (GSA) Razor-Back Wood Spade Bit: 7/8" Magnetic Bit Holder Adapter: 1/4 x 3" Quick Change Chuck Adapter Self Centering Drill Bit and Guide: 5/64, 7/64, 9/64 and 11/64 Slotted Power Bit w/Finder: 5F-6R and 6F Slotted Insert Bits: 3F-4R, 6F-8R and 10F

CENTERING DRILL **KEEPER**" SET

	А	61670
14 10		
6F-8F)F-12		

PART

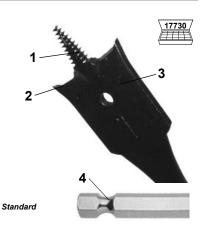
CIC 200™ RAZOR-BACK WOOD SPADE BITS

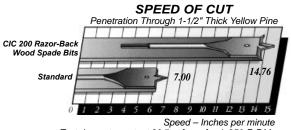
SHARPNESS AND DURABILITY FOR ALL WOOD BORING APPLICATIONS

OUTPERFORMS ALL STANDARD WOOD SPADE BITS WITH A NEW "PROGRESSIVELY ANGLED" GEOMETRY THAT CUTS THROUGH WOOD FASTER, FREER AND SMOOTHER

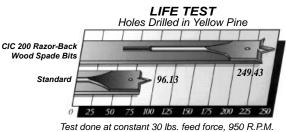
- CHISEL EDGE DESIGN FOR CLEANER, SMOOTHER HOLES AND FASTER CUTTING 15° cutting edge attacks wood at a sharper angle, so it takes a bigger bite. This slicing action digs into the wood instead of scraping away at wood fibers. It even blasts through wood knots that stop standard bits dead.
- ANGLED SPURS MAKE BIGGER CHIPS WITH LESS BINDING The spurs, cocked slightly forward of the cutting edge, scribe a clean, accurate hole and guide the bit through the wood. This shearing action allows the chisel edge to knock out bigger chips and run through the work faster, with less effort.
- 3. EXCLUSIVE TEMPERING PROCESS Toughens bits to last up to 6 times longer than standard wood bits.
- 4. HEX SHANK Fits all drills and 1/4" Quick-Change holders and also prevents spinning in drill chuck or in bit extension.

ite. d fibers. Side View of Geometry Comparison accurate ne CIC 200 Razor-Back Wood Spade Bits





Test done at constant 30 lbs. force feed, 950 R.P.M. Average of 1/2", 5/8", 3/4", 1", 1-1/2" spade bits



Test done at constant 30 lbs. feed force, 950 R.P.M. Total average of 1/2", 1", 1-1/2" spade bits

QUICK CHANGE EXTENSION ALLOWS FOR FAST AND EASY BIT CHANGES – SAVES TIME & MONEY
 SLIM DIAMETER QUICK CHANGE CHUCK PASSES THROUGH 11/16 AND LARGER HOLES



DIAMETER		PART	DIAMETER		PART	DIAMETER		PART	DIAMETER		PART
1/4"	F	61580	9/16"	F	61585	7/8"	F	61590	1-3/8"	D	61595
5/16"	F	61581	5/8"	F	61586	15/16"	F	61591	1-1/2"	D	61596
3/8"	F	61582	11/16"	F	61587	1"	F	61592	12" Quick Change	С	61576
7/16"	F	61583	3/4"	F	61588	1-1/8"	D	61593	Extension*		
1/2"	F	61584	13/16"	F	61589	1-1/4"	D	61594	*5/8" smallest hole exten	sior	n fits through
RAZOR-BACK	RAZOR-BACK WOOD SPADE BIT POUCH ASSORTMENT WITH 7 BITS – 1/4", 3/8", 1/2", 5/8", 3/4", 7/8" and 1"										

FORSTNER BITS

PRECISION-SHARPENED HIGH SPEED STEEL BIT WITH CENTER GUIDE POINT

- PROVIDES SMOOTHER CUTS
- FULLY HARDENED MACHINED BODIES FOR INCREASED STRENGTH, SAFETY AND LIFE
- USED TO DRILL CLEAN ACCURATE, FLAT-BOTTOMED HOLES IN WOOD
- FOR COUNTERBOARD SCREWS, POCKET HOLES, PILOT HOLES AND DECORATIVE EDGES
- USE IN PORTABLE DRILLS AS WELL AS DRILL PRESSES





DIAMETER		PART	DIAMETER		PART	DIAMETER		PART	DIAMETER		PART
1/4"	А	63500	3/4"	A	63508	1-1/4"	A	63516	1-3/4"	A	63524
3/8"	А	63502	7/8"	A	63510	1-3/8"	A	63518	1-7/8"	А	63526
1/2"	А	63504	1"	A	63512	1-1/2"	A	63520	2"	А	63528
5/8"	А	63506	1-1/8"	A	63514	1-5/8"	A	63522	2-1/8"	А	63530
7-PIECE FOF	7-PIECE FORSTNER BIT SET – 1/4" to 1" x 1/8"									A	61649

CIC 200[™] MECHANIC LENGTH HEX SHANK DRILLS

HIGH PERFORMANCE INDUSTRIAL DRILL BITS AND ACCESSORIES

CIC 200[™] MECHANIC LENGTH HEX SHANK DRILLS

Features

- Quick Release 1/4" Hex Shank
- 135° split point for fast penetration and accurate starting without center punch.
- · Special Hi-Molybdenum tool steel.
- A Contraction • Recommended use in work hardening grades of stainless steel and other hard metal drill applications.

Benefits

- · Especially designed for hand held drills and impacters.
- · Quick release eases changing of cutting tools.
- · Body and clearance are treated for maximum lubricity.

DIAMETER (INCHES)	OVERALL LENGTH	FLUTE LENGTH	PART
1/16″	2-5/8"	7/8″	C 47429
3/32"	3-1/4″	1-1/4″	C 47430
1/8″	3-1/2"	1-7/16″	C 47431
5/32"	3-1/2″	1-11/16″	C 47432
3/16″	3-3/4″	1-7/8″	C 47433
7/32"	4"	2"	C 47434
1/4"	4-1/4"	2"	C 47435
9/32"	3-13/16″	2-1/4"	C 47436
5/16"	4"	2-1/2"	A 47437
11/32″	4-7/32"	2-5/8"	A 47438
3/8"	4-1/4″	2-11/16″	A 47439
13/32″	4-1/2"	2-13/16"	A 47440
7/16″	4-1/2"	2-15/16″	A 47441
15/32"	4-7/8″	3-1/8″	A 47442
1/2"	5″	3-3/8″	A 47443

CIC 200™ MECHANIC LENGTH HEX SHANK DRILL INDEXES AND ADAPTER



CIC 200[™] 12 PIECE INDEX "HARD PLASTIC CASE" P/N 47444

12 piece set contains these drill diameters:

- 1/4" • 1/16"
- 5/16" • 3/32"
- 3/8" • 1/8"
- 7/16" • 5/32"
- 1/2" • 3/16"
- 7/32" · Quick release adapter

All drills are packed in a rugged plastic case.

CIC 200[™] 7 PIECE INDEX **"SOFT POUCH"** P/N 47445

7 piece set contains these drill diameters: • 1/16" • 3/16" • 3/32" • 7/32" • 1/8″ • 1/4" • 5/32"







QUICK CHANGE ADAPTER P/N 51166

- Dual 1/4" and 3/8" drill and drive chuck
- Industrial quality with minimal runout (wobble)
- Fits all accessory types, all brands
- · Fits old and new hex shanks with or without power groove

HEX SHANK DRILL BITS

HIGH PERFORMANCE INDUSTRIAL DRILL BITS AND ACCESSORIES

HEX SHANK DRILL BITS

- HEX SHANK DRILL BITS MAKE DRILL CHANGES FAST AND EASY
- SAVES TIME AND MONEY
- HEX SHANK INCREASES TORQUE AND STOPS BIT FROM SLIPPING IN CHUCK
- INDUSTRIAL-GRADE M7 HIGH SPEED STEEL FOR DURABILITY
- PRECISION GROUND FLUTES FOR FASTER, MORE EFFICIENT CHIP REMOVAL
- 135° QUAD POINT CUTS THE TOUGHEST MATERIALS





1. Pull back on body of the quick change chuck adapter and insert Hex Shank Drill Bit.



2. Drill is locked in place and ready.

DIA.	FLUTE LENGTH	OVERALL LENGTH	HEX SIZE	PART	DIA.	FLUTE LENGTH	OVERALL LENGTH	HEX SIZE	PART
1/16	7/8"	2-1/2"	1/4"	c 47400	5/32	2"	3-3/4"	1/4"	c 47406
5/64	1"	2-5/8"	1/4"	c 47401	11/64	2-1/8"	3-7/8"	1/4"	c 47407
3/32	1-1/4"	2-3/4"	1/4"	c 47402	3/16	2-5/16"	4"	1/4"	c 47408
7/64	1-1/2"	3-1/4"	1/4"	c 47403	7/32	2-1/2"	4-3/8"	1/4"	c 47410
1/8	1-5/8"	3-3/8"	1/4"	c 47404	1/4	2-3/4"	4-5/8"	1/4"	C 47412
9/64	1-3/4"	3-1/2"	1/4"	c 47405	1/4" Qui	ck Change Cl	huck Adapter		A 83066

DRILL AND DRIVER

- BUILT-IN HEX KEY ALLOWS EASY CHANGE OF COUNTERSINKS AND DRILL BITS ON THE SPOT
- DRILL AND DRIVER COMES IN 4 STANDARD SCREW SIZES #6, #8, #10 AND #12 TO COVER THE MOST COMMON SCREW INSTALLATIONS
 ONE SIDE HOUSES THE DRILL PLUS COUNTERSINK/COUNTERBORE COMPUTATION ALL OWS COND DRIVE AND COUNTERSINK/COUNTERBORE
- COMBINATION ALLOWS FOR DRILLING AND COUNTERSINKING OR COUNTERBORING IN ONE SMOOTH STEP • THE OPPOSITE SIDE COMES STANDARD WITH THE APPROPRIATE
- SIZE PHILLIPS INSERT BIT JUST UNLOCK THE DRILL AND DRIVER BY SLIDING THE BRASS SLEEVE FORWARD AND SLIP IT AROUND TO EXPOSE THE PHILLIPS BIT. LOCK BACK IN PLACE BY SLIDING THE BRASS SLEEVE BACK IN PLACE
- INSERT "DRILL AND DRIVER" INTO QUICK CHANGE ADAPTER OR DIRECTLY INTO DRILL MOTOR



1. Insert "Drill & Driver" into Quick Change adapter or directly into drill motor. Drill and Countersink/Counterbore base material.



2. Push brass collar forward to release "Drill & Driver. Flip around and pull back the brass collar to lock in place with phillips bit now exposed.



3. Drive screw into hole.

COUNTERSINK SIZE	COUNTERSINK DIAMETER	DRILL BIT/PILOT HOLE SIZE	OVERALL LENGTH	PART
#6	5/16"	3/32"	6"	A 62470
#8	5/16"	7/64"	6"	A 62471
#10	3/8"	1/8"	6"	A 62472
#12	3/8"	1/8"	6"	A 62473

POWER GROOVE COUNTERSINK

- DRILL, COUNTERSINK/COUNTERBORE ALL IN ONE
- HEAT TREATED FOR LONGER LIFE
- DRILL BIT FEATURES PRECISION GROUND FLUTES THAT CUT FAST AND STAY SHARP LONGER



• OTHER SIZE HOLDS APPROPRIATE SIZE PHILLIPS INSERT BIT

SIZE	DIA.	DRILL BIT/PILOT HOLE SIZE	PART	DRILL PART	SIZE	DIA.	DRILL BIT/PILOT HOLE SIZE		PART	DRILL PART
#6	5/16"	3/32"	A 62478	A 62478D	#10	3/8"	1/8"	А	62480	A 62480D
#8	5/16"	7/64"	A 62479	A 62479D	#12	3/8"	1/8"	А	62481	A 62480D

CIC 150[™] 118° SPLIT POINT DRILLS

JOBBER LENGTH - FRACTIONAL SIZES

• BLACK-OXIDE SURFACE TREATMENT RETAINS LUBRICANTS FOR IMPROVED CHIP FLOW, REDUCED CHIP WELDING AND INCREASED ABRASION RESISTANCE





	DEC.	JOBE	BER		DEC.	JOB	BER
DIA.	EQUIV.	LENGTH	PART	DIA.	EQUIV.	LENGTH	PART
1/16	.0625	1-7/8	J 91104	19/64	.2969	4-3/8	F 91119
5/64	.0781	2	J 91105	5/16	.3125	4-1/2	F 91120
3/32	.0938	2-1/4	J 91106	21/64	.3281	4-5/8	F 91121
7/64	.1094	2-5/8	J 91107	11/32	.3438	4-3/4	F 91122
1/8	.1250	2-3/4	J 91108	23/64	.3594	4-7/8	F 91123
9/64	.1406	2-7/8	J 91109	3/8	.3750	5	F 91124
5/32	.1562	3-1/8	J 91110	25/64	.3906	5-1/8	F 91125
11/64	.1719	3-1/4	J 91111	13/32	.4062	5-1/4	F 91126
3/16	.1875	3-1/2	J 91112	27/64	.4219	5-3/8	F 91127
13/64	.2031	3-5/8	J 91113	7/16	.4375	5-1/2	F 91128
7/32	.2188	3-3/4	J 91114	29/64	.4531	5-5/8	F 91129
15/64	.2344	3-7/8	J 91115	15/32	.4688	5-3/4	F 91130
1/4	.2500	4	J 91116	31/64	.4844	5-7/8	F 91131
17/64	.2656	4-1/8	F 91117	1/2	.5000	6	F 91132
9/32	.2812	4-1/4	f 91118			_	

29 PIECE DRILL INDEX



DESCRIPTION		PART
29-PIECE DRILL INDEX	A	61679
1/16 to 1/2 by 64ths		

50 PIECE FRACTIONAL ORGANIZER



CONTENTS	PART
1 each: 21/64, 11/32, 25/64, 27/64, 7/16 and 1/2 2 each: 9/64, 5/32, 11/64, 13/64, 7/32, 15/64, 17/64, 9/32, 5/16 and 3/8 3 each: 1/16, 5/64, 3/32 and 7/64 4 each: 1/8, 3/16 and 1/4	A 61677

HAMMER CHISELS

HIGH PERFORMANCE MASONRY REMOVAL IN ELECTRIC POWER TOOLS

Features and Benefits

- Forged from high quality steel and ground using CNC machinery
- Hardened and tempered under strictly controlled manufacturing process for optimal masonry removal and long tool life
- · Oil quenched and shot blasted for additional stress relief
- · Anti-rust lacquered in natural finish
- · Laser marked shanks ensure positive identification

Applications

- Demolition
- Road construction
- Bridge construction
- Pavement work
- · Utility installation
- · Variety of maintenance functions

HEADS

- Bull (moil) Point: General concrete demolition.
- Flat Chisels: General concrete demolition. Available in narrow (1")
- and wide (2", 3") versions for cutting pavement overlay.
- Clay Spade: Clay and other rock-free soil cutting.
- Asphalt Cutter: Asphalt, hardpan and compacted soil cutting.
- Bushing Tool: Roughing up or concrete surface removal.

SHANKS

- SDS-Max Chisels: For large rotary hammers with SDS-Max drive.
- Spline Shank Chisels: For large rotary hammers with spline drive.
- · SDS-Plus Chisels: For SDS-Plus Hammer Drills.

			SD	S-MA>	(CHISELS				_
Description	Size	P/N	Weight (lbs./ea.)		Description	Size	P/N	Weight (Ibs./ea.)	
Bull Point	11"	77209	1.07 lb.	A	Scraper	2" x 12"	77223	1.34 lb.	А
Bull Point	12"	77210	1.16 lb.	А					
Bull Point	16"	77211	1.57 lb.	А		R	-		
Bull Point	18"	77212	1.82 lb.	Α	Gouge	1" x 12"	77224	1.29 lb.	A
	1	_							
Flat	1" x 11"	77213	1.12 lb.	A	Ground Rod Driver	3/4" x 10"	77225	1.17 lb.	A
Flat	1" x 12"	77214	1.16 lb.	А					
Flat	1" x 16"	77215	1.57 lb.	А					_
Flat	1" x 18"	77216	1.82 lb.	A			-		-
Flat	1" x 24"	77217	1.82 lb.	A	Bushing Tool	1-3/4" x 10"	77226	2.63 lb.	A
				_					
Scaler	1-5/8" x 12"	77218	1.26 lb.	А	Bushing Shank	16"	77227	1.75 lb.	А
Scaler	2" x 12"	77219	1.34 lb.	А			66		
Scaler	3" x 12"	77220	1.58 lb.	А					
		-			Bushing Head	16 Teeth	77228	0.59 lb.	A
Mortar	1-1/8" x 12"	77221	1.16 lb.	A		2	-		_
					Asphalt Cutter	5" x 20"	77229	0.59 lb.	A
	Ū.	-		_					
Slotter	1-1/4" x 12"	77222	1.18 lb.	А	Clay Spade	4-1/2" x 20"	77230	0.59 lb.	A

Note: Bold italic text = Non-stock item. Please allow for up to 2 weeks for delivery.



HAMMER CHISELS

HIGH PERFORMANCE MASONRY REMOVAL IN ELECTRIC POWER TOOLS

SPL	INE SHA	NK CH	IISELS		SDS-P	LUS C	HISEL	.s
Description	Size	P/N	Weight (lbs./ea.)	Description	Size	P/N	We	eight (Ibs./ea
			1		<			
Bull Point	12"	77231	1.32 lb. A	Bull Point	10"	7720	6	0.52 lb.
Bull Point	16"	77232	1.90 lb. A					
Bull Point	18"	77233	2.16 lb. A					
			110	Flat	3/4" x 10"	7720	17	0.57 lb.
Flat	1" x 12"	77234	1.45 lb.		1000			
Flat	1" x 16"	77235	1.98 lb.			-		_
Flat	1" x 18"	77236	2.23 lb.	Scaler	1-5/8" x 10"	7720	8	0.70 lb.
	1	_	1.1					
Slotter	1-1/4" x 12"	77237	1.54 lb.		FLOO	R SCR	APER	S
	=	-		Description		Size	P/N	Weight (lbs
Clay Spade	4-1/2" x 20"	77238	4.91 lb.			-		j (
		_		(shank not inclu	Blade & Handle uded)	2.0mm	77200	
				Complete Scr	•			1.00
Scaler	1-5/8" x 12"	77239	1.45 lb.	With 3/4" Hex		16"	77203	0.0
Scaler	2" x 12"	77240	1.54 lb.	With Spline Sh		16"	77204	100.0
Scaler	3" x 12"	77241	1.85 lb.	With SDS-Max		16"	77205	
Scraper	2" x 12"	77242	1.54 lb.	-				
		_		Scraper - Replacement	Blade	2.0mm	77201	0.86 lk
Ground Rod Driver	3/4" x 10"	77243	2.48 lb.	111	_	-	-	
		-						
Bushing Tool	1-3/4" x 10"	77244	2.69 lb.		000			
				Scraper - Repa	air Kit	2.0mm	77202	0.44 ll
Bushing Shank	16"	77245	1.98 lb.	- P/N 7722	rs must be used 7, SDS-Max Bus 5, Spline Shank	hing Shank	, 16" [°]	inks:
		-			Scraper must be			203, 77204,
Mortar	1-1/8" x 12"	77246	1.54 lb.					

Note: Bold italic text = Non-stock item. Please allow for up to 2 weeks for delivery.

CIC 200[™] METRIC QUAD POINT DRILLS

JOBBER LENGTH – METRIC SIZES

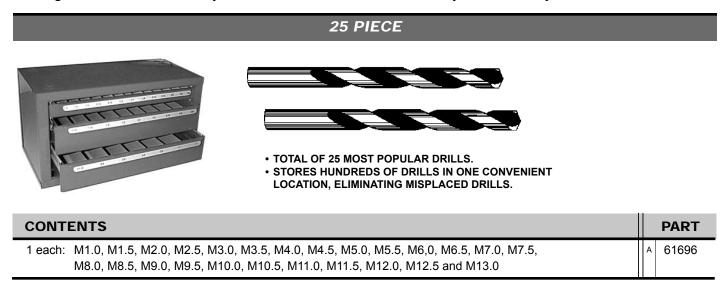




DIA.		PART	DIA.		PART	DIA.		PART
M1.0	J	68510	M5.5	F	68555	M10.0	С	68600
M1.5	J	68515	M6.0	D	68560	M10.2	С	68602
M2.0	J	68520	M6.2	D	68562	M10.3	С	68603
M2.05	J	68521	M6.5	D	68565	M10.5	С	68605
M2.1	J	68522	M6.7	D	68567	M10.8	С	68608
M2.5	J	68525	M6.8	D	68568	M11.0	С	68611
M2.9	J	68529	M7.0	D	68570	M11.2	С	68612
M3.0	J	68530	M7.2	D	68572	M11.3	С	68613
M3.1	J	68531	M7.5	D	68575	M11.5	С	68615
M3.3	J	68533	M8.0	С	68580	M11.8	С	68618
M3.5	F	68535	M8.2	С	68582	M12.0	С	68620
M4.0	F	68540	M8.3	С	68583	M12.2	С	68622
M4.1	F	68541	M8.5	С	68585	M12.4	С	68624
M4.2	F	68542	M8.7	С	68587	M12.5	С	68625
M4.5	F	68545	M9.0	С	68590	M13.0	С	68630
M5.0	F	68550	M9.3	С	68593	-		_
M5.2	F	68552	M9.5	С	68595	-		_

METRIC DRILL ORGANIZER

One convenient location for all your CIC 200[™] Quad Point Metric Drills. The right size available every time. Provides instant control of your inventory.



CIC 200[™] METRIC QUAD POINT DRILLS (Cont'd.)

METRIC DRILL INDEXES



CONTENTS	F	PART
1 each: M1.0, M1.5, M2.0, M2.5, M3.0, M3.5, M4.0, M4.5, M5.0, M5.5, M6.0, M6.5, M7.0, M7.5, M8.0, M8.5, M9.0, M9.5 and M10.0	A 6	61691



CONTENTS	PART
1 each: M1.0, M1.5, M2.0, M2.5, M3.0, M3.5, M4.0, M4.5, M5.0, M5.5, M6.0, M6.5, M7.0, M7.5,	A 61693
M8.0, M8.5, M9.0, M9.5, M10.0, M10.5, M11.0, M11.5, M12.0, M12.5 and M13.0	

MOST COMMON CAUSES OF DRILL FAILURE

The CIC 200[™] Quad Point is the finest drill available. It will out-perform almost any drill in use today.

To get maximum performance from the CIC 200[™] Quad Point Drill, practice the following recommendations:

- 1. Tighten all 3 holes on holding chuck.
- 2. Operate at the proper speed 500-700 RPMs. Drill will work at speeds up to 1800 RPMs, but is not recommended.
- 3. Cutting fluids such as Red Lion[™] Tool Cool II should always be used. Stay away from tarlow based cutting oils.
- 4. Proper feed is important, never over-power by forcing high cutting pressures or not enough pressure. When you see a spiral chip, you know you have proper feed and are allowing the drill to work.

By following the above recommendations, you will obtain excellent results and long life from the CIC 200[™] Quad Point Drill.

Follow proper operating procedures or a drill may fail. Below are signs to look for and the probable cause of failure:

Signs 1. Point black or burnt.	Cause Too high a speed Material too hard Feed too fast No lubrication	Recommendations Lower RPM Use Tool Cool II Check type of material Less pressure
2. Chipped or broken. Slippaged marks on shank.	Chuck not properly tightened.	Tighten all 3 holes on chuck Replace worn chuck
3. Edges of Drill chipped.	Used for step drilling	Use proper size drill for finished hole size desired

Remember, the CIC 200[™] Quad Point Drill is a professional cutting tool, and must always be used that way.

- **NEVER**: 1. Step drill or enlarge a hole.
 - 2. Use it as a reamer.
 - 3. Use it as a drift punch.
 - 4. Throw them loosely in tool box. Always place them back in organizer or index.

Proper use and care of the CIC 200[™] Quad Point Drill will give you far more "holes per drill" than you have experienced in the past with an ordinary drill.

DRILL FEEDS AND SPEEDS

Different drilling conditions make it impossible to develop any rigid rules for feeds and speeds. The following tables contain guidelines which can be utilized when drilling standard materials. Also, the following "rules of thumb" can be used to determine proper feeds and speeds for drilling ferrous materials.

NOTE: varying conditions can easily require adjustments:

- 1. Feeds equal .001" per revolution for every 1/16" of drill diameter, plus or minus .001" on the total.
- Speed equals 80 surface feet per minute in 100 Brinell hardness material, and the speed should be reduced 10 surface feet per minute for each additional 50 points Brinell hardness.
- 3. Feed and speed rates should be reduced up to 45 to 50% when drilling holes deeper than 4 drill diameters.

RECOMMENDED FEEDS FOR VARIOUS DIAMETER DRILLS					
DIAMETER OF DRILL	FEED INCHES				
(INCHES)	PER REVOLUTION				
Under 1/8	.001 to .003				
1/8 to 1/4	.002 to .006				
1/4 to 1/2	.004 to .010				
1/2 to 1	.007 to .015				
1 inch and over	.015 to .025				

NOTE: It is best to start with a moderate speed and feed, increasing either one, or both, after observing the action and condition of the drill.

RECOMMENDED SPEEDS FOR STANDARD MATERIALS WITH H.S.S. DRILLS

MATERIAL	RECOMMENDED SPEED (SFM)
Aluminum and its Alloys	200-300
Brass and Bronze (ordinary)	150-300
Bronze (High Tensile)	70-150
Die Castings (Zinc Base)	300-400
Iron — Cast (soft)	75-125
Cast (medium hard)	50-100
Hard Chilled	10-20
Malleable	80-90
Magnesium and its Alloys	250-400
Monel Metal or High-Nickel Steel	30-50
Plastics or Similar Materials	100-300
Steel —	
Mild .2 carbon to .3 carbon	80-110
Steel .4 carbon to .5 carbon	70-80
Tool 1.2 carbon	50-60
Forgings	40-50
Alloy — 300 to 400 Brinell	20-30
High Tensile (Heat Treated)	
35 to 40 Rockwell "C"	30-40
40 to 45 Rockwell "C"	25-35
45 to 50 Rockwell "C"	15-25
50 to 55 Rockwell "C"	7-15
Stainless Steel	
Free Machining Grades	30-80
Work Hardening Grades	15-50
Titanium Alloy Sheet	50-60
Titanium Alloys	
Ti-75A (Commercially Pure)	50-60
RS-120	40-60
Ti-150A	40-50
Ti-140A	30-40
RC-130B	30-40
MST 6A1-4 Va.	20-35
MST 3A1-5 Cr.	10-20

CUTTING SPEED — FEET PER MINUTE						
DRILL	20	40	60	80	100	
SIZE		REVOLUTIONS PER MINUTE (x 1000)				
1/64	4.89	9.78	14.78	19.72	24.45	
1/16	1.22	2.44	3.70	4.93	6.11	
1/8	.61	1.22	1.83	2.44	3.06	
3/16	.41	.82	1.23	1.63	2.04	
1/4	.30	.61	.92	1.22	1.53	
5/16	.24	.49	.74	.98	1.22	
3/8	.20	.41	.61	.81	1.02	
7/16	.18	.35	.52	.70	.87	
1/2	.15	.31	.46	.61	.76	
9/16	.14	.27	.41	.54	.68	
5/8	.12	.24	.37	.49	.61	
11/16	.11	.22	.34	.45	.56	
3/4	.10	.20	.31	.41	.51	
13/16	.09	.19	.28	.38	.47	
7/8	.09	.18	.26	.35	.44	
15/16	.08	.16	.25	.33	.41	
1	.08	.15	.23	.30	.38	

TWIST DRILL TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
BROKEN DRILL	 Flutes clogged with chips, drill binds in hole (common in deep holes). 	 Use drill with wider flutes and/or faster helix angle. Consider polished flutes. Withdraw drill at regular intervals to clear chips. If chips are not broken up, consider heavier feeds or a chip breaker design.
	2. Drill binding due to worn outer corners.	 Repoint or replace drill. Check for excessive speed, inadequate or incorrect coolant, excessive run out as drill enters work.
	3. Work insecurely held	- Use adequate holding or clamping devices.
	4. Excessive feed.	- Reduce feed.
	5. Improper point.	 Check for correct lip clearance. Use proper type of drill and point for the application.
	6. Drill is dull.	 Replace before dulling occurs. Check feeds, speed, and No. 5 for premature dulling.
BROKEN TANG	1. Shank or socket damaged.	- Repair or replace.
	2. Drill not properly seated in socket.	- Check for positive, secure fit.
CHIP NOT	1. Insufficient feed.	- Increase feed.
BREAKING UP	2. Improper style of drill and/or point.	 Consider use of chip-breaker design drill and/or chip-breaker point grind.
DAMAGED POINT	1. Using hard object to tap drill into socket.	- Use soft lead, brass, plastic, etc. hammer.
	2. Dropping, mishandling drill.	- Handle with care.
OVERSIZE HOLE	1. Drill point off center.	 Repoint accurately or replace with properly pointed drill.
	 Machine spindle not rigid or not running true 	- Repair if possible; consider use of bushing.
	3. Work piece loose and/or vibrating.	- Tighten and hold securely.
ROUGH HOLE	1. Incorrect point grind and/or dull drill.	- Repoint or replace with properly pointed drill.
	2. Excessive feed.	- Reduce feed.
	3. Incorrect or insufficient coolant.	- Correct and adjust.
POOR TOOL LIFE	 Coolant not reaching drill point or insufficient or incorrect coolant. 	- Correct and adjust.
	2. Speed too high and/or feed too low.	- Review and adjust.
	 Wrong type of point and/or drill for application. 	- Review requirements and conditions.
WEB SPLITS	1. Insufficient lip clearance.	- Repoint or replace with properly pointed drill.
	2. Point thinned too much.	- Repoint or replace with properly pointed drill.
	3. Excessive feed.	- Reduce feed.
CHIPPED LIPS	1. Excessive lip clearance and/or heel relief.	- Repoint or replace with properly pointed drill.
BROKEN OUTER CORNERS	1. Insufficient or incorrect coolant	- Correct and adjust.
	2. Excessive speed.	- Reduce speed.
	 Scale, hard spots encountered in material. 	 No final remedy if this condition is prevalent; lower feeds and speeds may help.

DRILL NOMENCLATURE AND DEFINITIONS

AXIS is the longitudinal centerline through the drill.

BACK TAPER (longitudinal relief) drills are generally made slightly smaller in diameter at the shank end than at the cutting end. This difference is known as back taper.

BODY is the portion of the drill starting at the cutting lips and extending to the shank or neck.

BODY CLEARANCE (radial relief) is the portion of the outer diameter cut away to provide clearance between the land of the drill and the walls of the hole being produced. It is commonly called land clearance. Its purpose is to reduce friction.

CHISEL EDGE is the edge at the end of the web that connects the cutting lips.

CHISEL EDGE ANGLE is the included angle between the chisel edge and the cutting edge or lip, as viewed from the end of the drill.

CLEARANCE DIAMETER is the diameter of the relieved or cleared portion of the land.

DRILLS generally consist of a shank, neck, body and point. In some cases the neck is omitted.

FLUTE LENGTH is measured from the outer corners of the cutting lips to the extreme back end of the flutes.

FLUTES are grooves cut or formed in the body of the drill to provide cutting edges, to permit ejection of chips and to carry coolant to the cutting area. Flutes are most commonly helical, but may be straight.

HELIX ANGLE is the angle of the leading edge of the land to the axis of the drill. The helix angle is the same as the rake angle of the cutting edges at the periphery of the drill. Therefore a straight fluted drill has zero degrees helix.

LAND is that portion of the outside of the drill body not cut away by the flutes.

LIP RELIEF ANGLE is the angle as measured between a line tangent to the surface back of the cutting edge at the periphery and a line at right angles to the axis of the drill.

LIPS are the cutting edges of the drill which extend from the chisel edge to the periphery.

MARGIN is that full diameter portion of the land not cut away to provide clearance.

NECK is the smaller diameter area between the body and the shank of the drill.

OVER-ALL-LENGTH is measured from the extreme end of shank to the outer corners of the cutting lips. It does not, however, include the conical point at either end of the drill.

POINT is the cutting end of the drill, consisting of the ends of the lands and web. It is usually conical in form.

POINT ANGLE is the included angle as measured between the cutting lips.

RAKE ANGLE is the angle between the leading edge of the land and the axis of the drill at the point.

SHANK is the portion of the drill by which it is held and driven.

TANG is the flattened end of the shank, intended to fit into a slot in the drill holder or socket.

WEB is the central part of the body of the drill that connects the lands and at the cutting end, and forms the chisel edge.

WEB THICKNESS is usually considered the thickness at extreme end of the web and is usually the minimum thickness.

WEB THINNING is the reduction of the web thickness at the cutting end to minimize the drilling thrust pressure.

