





**NORZON PLUS**

**Charger**

**Gemini**

# SMALL DIAMETER REINFORCED CUT-OFF WHEELS

MACHINES USED



## CATEGORY DEFINITION

The Norton small diameter cut-off wheel line consists of Type 01 straight and Type 27 depressed center cut-off wheels from 1-1/2" to 9" diameters. These wheels come in ultra thin .035 for quick burn/burr free cutting to .125" for more durable applications. All are reinforced for the demanding nature of portable cut-off.

APPLICATIONS:	Cutting sheet metal, cutting pipe, and metal plate dimensioning (metal fabrication)
SIZE RANGE:	1-1/2" - 9" diameter
THICKNESS RANGE:	.035, .040, .045, .060, .090, and .125
ABRASIVE GRAIN:	Ceramic Alumina/Zirconia Alumina, Zirconia Alumina/Aluminum Oxide, Aluminum Oxide, Silicon Carbide
SHAPE:	Type 01 Straight and Type 27 Depressed Center

## TYPE-TO-APPLICATION RECOMMENDATION GUIDE

WHEEL TYPE/THICKNESS	APPLICATIONS		
<b>TYPE 01</b>	<b>Type 01 cut-off wheels are designed for traditional cut-off applications. All are supplied with full fiberglass reinforcing.</b>		
			90° ANGLE
.035, .040, .045, .060	Where fast cutting and low kerf loss are desired	■	■
.090, .125	For tough cutting and notching applications where stability is important	■	■
<b>TYPE 27</b>	<b>Type 27 cut-off wheels are designed with a depressed center to provide a recess for the hub, which allows flush cutting</b>		
			90° ANGLE
.040, .045, .060	Where fast cutting and low kerf loss are desired		■
.090, .125	For tough cutting and notching applications where stability is important		■

## HOW TO PICK THE RIGHT BOND TYPE

<b>All Purpose</b>	<i>Unmarked</i>	Where an excellent blend of cut rate and life is needed
<b>Fast Cut</b>	<b>FC</b>	Where fast stock removal is needed, or the application only allows for low-pressure or under-horsepowered grinders
<b>Long Life</b>	<b>LL</b>	Where durability is needed due to severe application, and when horsepower of the grinder allows for heavy pressure
<b>Contaminate Free</b>	<b>INOX</b>	Contain <0.1% iron, sulfur or chlorine for rust-free and corrosion-free results; will not contaminate stainless steel
<b>Aluminum</b>	<b>ALU</b>	Specially formulated bond for reduced loading/surface contamination cutting aluminum/soft materials

## MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE

	<b>BEST</b> HIGHEST PRODUCTIVITY LOWEST TOTAL COST	<b>BETTER</b> EXCELLENT BLEND OF PERFORMANCE & PRICE	<b>GOOD</b> CONSISTENT PERFORMANCE LOW INITIAL PRICE
<b>CUTTING</b>			
Mild Carbon / High Tensile Steel	NorZon Plus	Charger	Metal
Stainless Steel / Alloys	NorZon Plus	Charger	Gemini
Contaminate Free		Charger <b>INOX</b>	Gemini <b>INOX</b>
Cast Iron	NorZon Plus	Charger	Gemini
Aluminum / Bronze / Brass			Gemini <b>ALU</b>
Asphalt / Brick / Concrete			Masonry



## CROSS REFERENCE GUIDES

### TYPE 01 .035 - .125 CUT-OFF WHEELS FOR DIE GRINDERS

NORTON	TOTAL PERFORMANCE			INITIAL PRICE		SPECIALTY	
	BEST NorZon Plus	BETTER Charger	GOOD Gemini Fast Cut	Gemini	Metal	GOOD Gemini INOX	
Brilliant	—	Brill-Max ZA	—	—	Safe-Tex FC, LL	—	
Bullard	—	ZA46T, ZA60T	TA36T	TA46T, TA60T	A36T, A60T Comp.	—	
Camel	—	ZA60-TBF	A36 RBF	A60 RBF	Fast Cut RBF	—	
Flexovit	Flexon Fast Cut A46, 60	—	High Perf Fast Grind A36	High Perf Fast Cut A36, 46, 60	—	—	
Pearl	—	SRT, Zirconia	—	Premium	Silver Line	—	
Pferd	—	—	—	—	PSF-A	SG-A-R-INOX	
Sait	Saittech	—	A60S	A24R, A36T, A60T	—	—	
SpedeCut	—	—	—	—	A46, 60 TBXX	—	
Walter	—	—	A24 ZIP	A60 ZIP	—	—	

### TYPE 01 AND 27 .040 - .125 CUT-OFF WHEELS FOR RIGHT ANGLE GRINDERS

NORTON	TOTAL PERFORMANCE				INITIAL PRICE			SPECIALTY		
	BEST NorZon Plus Fast Cut	NorZon Plus	BETTER Charger Fast Cut	Charger	GOOD Gemini Fast Cut	Gemini	Metal	GOOD Gemini ALU	Gemini INOX	Masonry
Brilliant	—	—	—	—	Brill-Blade Extra FC	Brill-Blade Heavy Duty	Homet Stinger	—	—	—
Bullard	—	—	—	ZA60T	SGA60U	TA46T, TA60T, TA60U	A46T, A60T Comp.	AL46N	—	C24R
Camel	—	—	—	ZA Quickie Cut	A36-S-BF	Super Quickie Cut	Quickie Cut	A46 Quickie Cut	A60-T-BF, WA60R Quickie Cut	—
Flexovit	—	—	—	—	Razorblade A60SST	Razorblade A24T, 30V, 36T	—	Razorblade A30Q	—	C30U
Metabo	—	—	—	A 60 XP Super Slicer	—	A 60 TX Slicer-Plus	A 60 TZ Slicer	—	—	—
Pearl	—	—	—	Redline Max Slimcut	—	Slimcut	Slimcut Pro-V, Silverline	—	—	—
Pferd	—	—	—	SGP-ZA-Q-INOX	—	SG-A-S, SGP-A-T	PSF-A-P	S-G-N-ALU	SG-A-R-INOX, SGP-A-S-INOX	SG-C-R
Sait	—	Saittech	—	Z-tech	SAIT.M.X	A60S	—	A46N	XA46R	—
SpedeCut	—	—	—	—	—	—	A46, 60 TBXX	—	—	—
Walter	—	—	—	—	A-30-ZIP	A-60-ZIP	—	A-60-ZIP-ALU	A60-SS-ZIP	C-30-ZIP

## FEATURED PRODUCTS



### NORZON PLUS CUT-OFF / RIGHTCUT

BEST CHOICE FOR HIGHEST PRODUCTIVITY FOR STEEL, STAINLESS STEEL AND ALL OTHER FERROUS METALS

#### FEATURES

- Patented Norton SG (ceramic alumina) / NorZon (zirconia alumina) grain combination
- Highly advanced bond system

#### BENEFITS

- Fastest cutting wheel available on the market, up to 3X faster cutting versus aluminum oxide
- 3X – 10X life versus aluminum oxide wheels on carbon steel, stainless and cast iron



### CHARGER CUT-OFF / RIGHTCUT

BETTER CHOICE FOR ALL STEEL AND STAINLESS STEEL APPLICATIONS

#### FEATURES

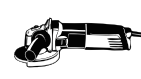
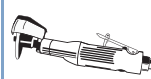
- A unique blend of premium NorZon (zirconia alumina) and aluminum oxide grain

#### BENEFITS

- 2X – 3X the life of aluminum oxide wheels
- Up to 2X faster cutting versus aluminum oxide wheels

# SMALL DIAMETER REINFORCED CUT-OFF WHEELS

MACHINES USED



## AVAILABILITY

TIER:	<b>BEST</b>	<b>BETTER</b>	<b>BETTER</b>	<b>GOOD</b>	<b>GOOD</b>	<b>GOOD</b>
TRADENAME:	<b>NORZON PLUS</b>	<b>CHARGER</b>	<b>A60-OBNA2</b>	<b>GEMINI</b>	<b>GEMINI LONG LIFE</b>	<b>NORTON METAL</b>
SHAPE:	Type 01	Type 01	Type 01	Type 01	Type 01	Type 01
ABRASIVE:	Ceramic Alumina/ Zirconia Alumina	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
MATERIAL:	<b>STAINLESS STEEL / METAL</b>	<b>STAINLESS STEEL / METAL</b>	<b>STAINLESS STEEL / METAL</b>	<b>STAINLESS STEEL / METAL</b>	<b>STAINLESS STEEL / METAL</b>	<b>STAINLESS STEEL / METAL</b>
<b>SIZE (D X T X H)</b>	<b>MAX. RPM</b>	<b>STD. PKG.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>

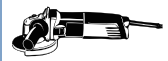
### TYPE 01 – CUT-OFF

1-1/2 x .035 x 1/16	40,745	25			66243427764				
1-1/2 x .035 x 1/8	40,745	25			66243427831				
1-1/2 x .035 x 1/4	40,745	25			66243427875				
2 x .035 x 1/8	30,560	25				66243411392	<b>FC</b>		
2 x .035 x 1/4	30,560	25			66243428014			66243411393	<b>FC</b>
2 x .035 x 3/8	30,560	25						66243411394	<b>FC</b>
2 x .060 x 1/8	30,560	25			66243428041				
2 x .060 x 1/4	30,560	25			66243427993				
2 x .060 x 1/4	30,560	25					66243411395	<b>FC</b>	
2 x .060 x 3/8	30,560	25						66243411396	<b>FC</b>
2 x .125 x 1/4	30,560	25						66243411402	<b>FC</b>
2 x .125 x 3/8	30,560	25						66243411403	<b>FC</b>
2-1/2 x .035 x 1/8	30,560	25			66243528476				
2-1/2 x .035 x 1/4	30,560	25			66243528425				
2-1/2 x .060 x 1/4	30,560	25					66243510640	<b>FC</b>	
2-1/2 x .060 x 3/8	30,560	25					66243510641	<b>FC</b>	
2-7/8 x .035 x 1/4	25,465	25							07660789019
3 x .035 x 1/4	25,465	25	66243510668		66243528573	66243510627	<b>FC</b>		
3 x .035 x 3/8	25,465	25	66243510669	66243527753	66243528574	66243510628	<b>FC</b>	66243537271	<b>LL</b> 07660789451
3 x .060 x 1/4	25,465	25	66243510670		66243528471	66243510645	<b>FC</b>	66243510649	<b>LL</b>
3 x .060 x 3/8	25,465	25	66243510671	66243527755	66243528552	66243510647	<b>FC</b>	66243510648	<b>LL</b> 07660789012
		25	66243510835	<b>LL</b>					
3 x .125 x 1/4	25,465	25				66243510650	<b>FC</b>	66243510652	<b>LL</b>
3 x .125 x 3/8	25,465	25	66243510673			66243510651	<b>FC</b>	66243510653	<b>LL</b> 07660789384
4 x .035 x 1/4	19,100	25			66243529606	66243510629	<b>FC</b>		
4 x .035 x 3/8	19,100	25	66243510675	66243527340	66243529621	66243510630	<b>FC</b>	66243537273	<b>LL</b>
4 x .035 x 1/2	19,100	25			66243529622				
4 x .035 x 5/8	15,280	25			66243529590				
4 x .035 x 3/4	19,100	25			66243529609				
4 x .040 x 5/8	15,280	25							07660701616
4 x .045 x 5/8	15,280	25				66243527956			
4 x .060 x 1/4	19,100	25	66243510676			66243510654	<b>FC</b>		
4 x .060 x 3/8	19,100	25	66243510677	66243527338	66243529604	66243510655	<b>FC</b>	66243510657	<b>LL</b>
4 x .090 x 5/8	15,280	25				66243527955			
4 x .125 x 1/4	19,100	25				66243510658	<b>FC</b>		
4 x .125 x 3/8	19,100	25	66243510841	66243527339		66243510659	<b>FC</b>	66243510661	<b>LL</b>
		25	66243510680	<b>LL</b>					
5 x .035 x 3/8	12,225	25			66252830653				
6 x .035 x 3/8	10,185	25			66252835064				
6 x .035 x 1/2	10,185	25			66252835053				
6 x .035 x 5/8	10,185	25			66252835054	66252809714			
6 x .060 x 5/8	10,185	25				66252809718			
7 x .060 x 5/8	8,730	25				66252905957			
8 x .060 x 5/8	7,640	25		66253017771	<b>LL</b>	66253007025			
		10				66253017795			
Drill Mount Mandrel		5							07660747769*

\* FOR MOUNTING 2" AND 3" x 3/8" HOLE CUT-OFF WHEELS ON TO A DRILL

### CUT-OFF DESCRIPTION CODES

<b>INOX</b> = CONTAMINANT FREE	<b>FC</b> = FAST CUT	<b>LL</b> = LONG LIFE	<b>BLANK</b> = ALL PURPOSE
<b>■</b> = STAINLESS	<b>■</b> = STEEL / METAL	<b>■</b> = MASONRY	



## AVAILABILITY



TIER:

TRADENAME:

SHAPE:

ABRASIVE:

MATERIAL:

SIZE (D X T X H)

MAX. RPM

STD. PKG.

**BEST**

**BETTER**

**GOOD**

**GOOD**

**NORZON PLUS RIGHTCUT**

**CHARGER RIGHTCUT**

**GEMINI RIGHTCUT**

**NORTON METAL RIGHTCUT**

Type 01

Type 01

Type 01

Type 01

Ceramic Alumina/  
Zirconia Alumina

Zirconia Alumina/  
Aluminum Oxide

Aluminum Oxide

Aluminum Oxide

**STAINLESS STEEL / METAL PART NO.**

**STAINLESS STEEL / METAL PART NO.**

**STAINLESS STEEL / METAL PART NO.**

**STAINLESS STEEL / METAL PART NO.**

### TYPE 01 – RIGHTCUT CUT-OFF

SIZE (D X T X H)	MAX. RPM	STD. PKG.	NORZON PLUS PART NO.	CHARGER PART NO.	GEMINI PART NO.	NORTON METAL PART NO.
4 x .040 x 5/8	15,280	25				07660701616
4 x .045 x 5/8	15,280	25			66243527956	
4 x .090 x 5/8	15,280	25			66243527955	
4-1/2 x .040 x 7/8	13,580	25		66252837011		07660701617
4-1/2 x .045 x 7/8	13,580	25	66252830730	66252826569	66252823602	
		25			66252832906	
4-1/2 x .090 x 7/8	13,580	25			66252823599	
5 x .040 x 7/8	12,225	25		66252837012		
		15				07660701618
5 x .045 x 7/8	12,225	25	66252830731	66252826570	66252823603	
		25			66252832907	
5 x .090 x 7/8	12,225	25			66252823600	
6 x .040 x 7/8	10,185	25				07660702757
6 x .045 x 7/8	10,185	25	66252830734	66252826571	66252823604	
		25			66252832908	
6 x .090 x 7/8	10,185	25			66252823601	
7 x .060 x 7/8	8,600	25	66252900652		66252832323	

## Norton Type 01 & 27 RightCut Line – 4" - 9"

Norton RightCut wheels provide lowest total cost versus competitive initial cutting solutions for right angle grinders. Available in 4" through 9" diameters in Type 01 straight and Type 27 depressed center shapes.



### **BEST** NorZon Plus RightCut

*Highest Productivity, Lowest Total Cost*

Advanced grain technology – a blend of Norton SG® (seeded gel) ceramic alumina and NorZon zirconia alumina abrasives – in the fastest cutting bond system. Across all grinding jobs, testing shows performance up to 100% better than competitive high-performance wheels and up to 10 times better than aluminum oxide wheels.

### **BETTER** Charger RightCut

*Exceptional Blend of Performance and Price*

Zirconia alumina and aluminum oxide combination provides up to 2X cut rate and up to 3X longer life over conventional aluminum oxide products on stainless and carbon steel.

### **GOOD** Gemini RightCut

*Good Performance, Wide Variety and Good Initial Price*

Engineered blend of high-performance aluminum oxide provides the best starting specification on a wide variety of sizes and thicknesses at a good initial price.

### **GOOD** Norton Metal RightCut

*Good Performance, Low Initial Price*

Popular aluminum oxide starting specification where good performance at a low price is the primary consideration.



## AVAILABILITY



TIER:	<b>BEST</b>	<b>BETTER</b>	<b>GOOD</b>	<b>GOOD</b>
TRADENAME:	<b>NORZON PLUS RIGHTCUT</b>	<b>CHARGER PLUS RIGHTCUT</b>	<b>GEMINI RIGHTCUT</b>	<b>NORTON METAL RIGHTCUT</b>
SHAPE:	Type 27	Type 27	Type 27	Type 27
ABRASIVE:	Ceramic Alumina/ Zirconia Alumina	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
MATERIAL:	<b>STAINLESS STEEL / METAL</b>	<b>STAINLESS STEEL / METAL</b>	<b>STAINLESS STEEL / METAL</b>	<b>STAINLESS STEEL / METAL</b>

SIZE (D X T X H)	MAX. RPM	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.
<b>TYPE 27 – RIGHTCUT CUT-OFF</b>						
4 x .045 x 5/8	15,280	20			66252833840	07660705249
4 x .125 x 3/8	15,280	20	66243529883			
4-1/2 x .040 x 5/8-11	13,580	20		66252837013		
4-1/2 x .045 x 5/8-11	13,580	20	66252830748	66252832009	66252819549	
4-1/2 x .045 x 7/8	13,580	20	66252830742	66252830125	66252819548	66252836497
4-1/2 x .090 x 5/8-11	13,580	20			66252823102	<b>INOX</b>
4-1/2 x .090 x 7/8	13,580	20			66252835320	
		20			66252823103	<b>INOX</b>
4-1/2 x .125 x 5/8-11	13,580	20	66252815010		66252813301	
4-1/2 x .125 x 7/8	13,580	20	66252830443		66252801860	
5 x .040 x 5/8-11	12,225	20		66252837014		
5 x .045 x 5/8-11	12,225	20			66252830586	
5 x .045 x 7/8	12,225	20	66252830744	66252830126	66252819550	
5 x .090 x 7/8	12,225	20			66252823106	<b>INOX</b>
		20			66252836984	<b>LL</b>
5 x .125 x 7/8	12,225	20			66252801862	
6 x .045 x 5/8-11	10,185	20			66252830587	
6 x .045 x 7/8	10,185	20	66252830745	66252830127	66252819551	
6 x .090 x 7/8	10,185	20			66252832487	<b>INOX</b>
7 x .060 x 7/8	8,600	20			66252912626	
		10				07660705251
7 x .090 x 7/8	8,600	20			66252914638	<b>INOX</b>
7 x .125 x 5/8-11	8,600	10	66252912625			
7 x .125 x 7/8	8,600	20			66252900619	
9 x .060 x 5/8-11	6,600	10			66253019115	

RIGHTCUT WHEELS ARE TO BE USED FOR CUTTING ONLY



TIER:	<b>BETTER</b>	<b>GOOD</b>	<b>GOOD</b>	<b>GOOD</b>
TRADENAME:	<b>CHARGER</b>	<b>GEMINI</b>	<b>NORTON METAL</b>	<b>NORTON MASONRY</b>
SHAPE:	Type 01	Type 01	Type 01	Type 01
ABRASIVE:	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Silicon Carbide
MATERIAL:	<b>STEEL / METAL</b>	<b>STEEL / METAL</b>	<b>STEEL / METAL</b>	<b>MASONRY</b>

SIZE (D X T X H)	MAX. RPM	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.
<b>TYPE 01 – CIRCULAR SAW</b>						
6 x .035 x 5/8	10,185	25		66252809714		
6 x .060 x 5/8	10,185	25		66252809718		
6-1/2 x 1/8 x DM-5/8	9,405	10			07660789098	07660789089
7 x .060 x 5/8	8,730	25		66252905957		
7 x 1/8 x DM-5/8	8,730	25			07660789097	07660789088
8 x .060 x 5/8	7,640	25	66253017771 <b>LL</b>	66253007025		
		10		66253017795		
8 x 1/8 x DM-5/8	7,640	10			07660789096	07660789086

DM DENOTES DIAMOND MOUNT; 5/8" HOLE BUSHINGS INCLUDED

### CUT-OFF DESCRIPTION CODES

<b>INOX</b> = CONTAMINANT FREE	<b>FC</b> = FAST CUT	<b>LL</b> = LONG LIFE	<b>BLANK</b> = ALL PURPOSE
<b>■</b> = STAINLESS	<b>■</b> = STEEL / METAL	<b>■</b> = MASONRY	





## CATEGORY DEFINITION

Norton high speed cut-off abrasive wheels provide the industry's leading performance in all high speed gas and electric-powered applications.

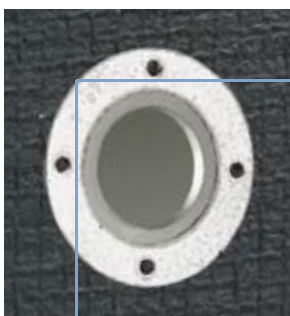
APPLICATIONS:	<p><b>Metalworking:</b> steel, stainless, ductile, cast iron, rail steel and metal decking</p> <p><b>Non-Metal Building Materials:</b> concrete, brick, masonry, asphalt, aggregate, stone and schedule 40 and 80 PVC pipe</p> <p><b>Rescue and Demolition:</b> steel, acrylic, fiberglass, rubber, glass, wood, concrete, brick and asphalt</p>
SIZE RANGE:	12" – 16" diameter
THICKNESS RANGE:	1/8"
ABRASIVE GRAIN:	Aluminum Oxide, Silicon Carbide
SHAPE:	Type 01 Straight
REINFORCEMENT:	Wheels are offered in standard two layer reinforcement as well as three layer reinforcement for higher speed saws and heavy-duty applications
ARBOR:	Wheels are offered with a patent-pending universal arbor that accommodates both 20mm (Stihl®) and all other machines with 1" arbors

## MATERIAL / APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

ICON	APPLICATION
	<b>Metal</b> High-performance aluminum oxide grain wheels designed for general purpose cutting of all steel and stainless parts including rebar, steel pipe, structural steel, sheet metal, cable and small to medium diameter solid pieces
	<b>Metal Decking</b> High-performance aluminum oxide abrasive combined with a thicker wheel that stands up to the sharp edges of sheet metal and roof decking.
	<b>Rail Steel</b> <span style="background-color: #0070C0; color: white; border-radius: 50%; padding: 2px;">NEW</span> A finer grit, harder grade aluminum oxide wheel designed for straight, fast cuts on all sizes of rail track. Additional high-performance lines of rail cut wheels are available for production applications.
	<b>Ductile/Cast Iron</b> A special blend of silicon carbide abrasive for cutting and aluminum oxide abrasive for life, designed to cut ductile and cast iron pipe, concrete-lined water pipes, sewer construction and heavy duty PVC.
	<b>Rescue</b> For ventilation, forcible entry, rescue and demolition. A versatile abrasive formula that can be used on a wide range of materials including all types of metals and masonry
	<b>Concrete</b> Coarse grit silicon carbide abrasive provides a low initial cost solution for cutting brick, block, concrete or other masonry materials. For higher-production applications that require optimum speed of cut and product life, please see our complete selection of high speed diamond wheels in our Norton Construction diamond product line.
	<b>Asphalt</b> A special blend of extra coarse silicon carbide abrasive grains provides a low initial cost solution for cutting asphalt, green concrete, asphalt over concrete, a wide range of aggregates and abrasive materials. For higher-production applications that require optimum speed of cut and product life, please see our Norton Construction diamond product line.

## HOW TO PICK THE RIGHT REINFORCEMENT

	Two full layers of reinforcing are offered for lower power machines, and light to medium applications where speed of cut is the primary selection criterion.
	Three full layers of reinforcing are recommended for high speed, high horsepower machines where the application is heavy-duty, and durability is the primary selection criterion.



## Universal Arbor

### Two Blade Sizes in One

Our Norton patent-pending 1 1/20mm knock-out arbor fits all gas and electric high speed saws. A 20mm bushing is pre-mounted into the 1" molded arbor hole. The wheel, with the 20mm bushing, can be mounted directly on any 20mm arbor high speed saw. With the bushing removed, exposing the 1" arbor hole, the wheel can be mounted on any 1" arbor high speed saw. Combining this arbor, with heavy-duty triple reinforcing results in a higher performing, extra strong, longer lasting cutting wheel. Once the 20mm bushing is removed, it cannot be replaced.



## CROSS REFERENCE GUIDE

### SPECIALTY

**NORTON**

	<b>GOOD Metal</b>	<b>Metal Decking</b>	<b>Rail Steel</b>	<b>Ductile</b>	<b>Concrete</b>	<b>Asphalt</b>
<b>Abmast</b>	A 24 R, Kompetitor Metal	A 24 T	Rail-Kut A 24 Z	AC 24 R, Kompetitor Ductile Iron	C 24 R, Kompetitor Concrete	C 16 T, Kompetitor Asphalt
<b>Brilliant</b>	Metal/Stainless	—	A24PB	—	Concrete/Masonry	—
<b>Bullard Blaze &amp; Road Warrior</b>	A24R, ZA24Q, The Competitor	TA24R	A30R	AC24R	C24R, The Competitor	CC20R
<b>Camel</b>	A24-R	A24-T	—	AC24-R	C24-R	C16-U
<b>Flexovit</b>	A24/30SB	A24TB	A30PB	AC24SB	C30UB	C16UB
<b>Husqvarna</b>	Blue XHS, Blue QMS-CM, Blue EHS	Grey QMS-CM	Yellow QMS-CM	Green QMS-CM, Green EHS	Red XHS, Red QHS-CM, Red EHS	Black QMS-AS
<b>Pearl</b>	SRT, Premium A36S, Silver Line A30R	—	—	AC30S	Premium C36S, Silver Line C24R	—
<b>Pferd</b>	A 24 R SG	A 24 Q SG-RAIL	A 24 Q SG-RAIL	AC 24 Q SG	C 24 R SG	—
<b>Sait</b>	A24R, A30S, XFC	Brute	Hobo	Ductile	C24R	Big M.A.C, XFC
<b>Tyrolit</b>	A30P, A30BF	—	—	AC24, AC30BF	1C24, C30BF	—
<b>Virginia Abrasives</b>	Metal	—	—	Ductile	Concrete	Asphalt
<b>Walter</b>	A-24	—	—	—	—	—

## AVAILABILITY



<b>TIER:</b>	<b>GOOD</b>	<b>GOOD</b>	<b>GOOD</b>	<b>GOOD</b>	<b>GOOD</b>
<b>TRADENAME:</b>	<b>METAL HD</b>	<b>METAL</b>	<b>METAL DECKING</b>	<b>RAIL STEEL</b>	<b>RESCUE</b>
<b>SHAPE:</b>	Type 01	Type 01	Type 01	Type 01	Type 01
<b>ABRASIVE:</b>	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
<b>REINFORCING:</b>	3 layers	2 layers	2 layers	2 layers	2 layers
<b>MATERIAL:</b>					

<b>SIZE (D X T X H)</b>	<b>MAX. RPM</b>	<b>STD. PKG.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>
<b>TYPE 01 CUT-OFF – FOR GAS &amp; ELECTRIC-POWERED SAWS</b>							
12 x 1/8 x 1" / 20mm	6,360	10	66252836708	70184680310			
14 x 1/8 x 1" / 20mm	5,400	10	66252835386	70184680317	6625832521		66243578262
14 x 1/8 x 1"	5,400	10				66253260462	
16 x 1/8 x 1" / 20mm	4,800	10		6625830886			
16 x 1/8 x 1"	4,800	10				66253259935	



<b>TIER:</b>	<b>GOOD</b>	<b>GOOD</b>	<b>GOOD</b>	<b>GOOD</b>	<b>GOOD</b>
<b>TRADENAME:</b>	<b>DUCTILE HD</b>	<b>DUCTILE</b>	<b>CONCRETE HD</b>	<b>CONCRETE</b>	<b>ASPHALT</b>
<b>SHAPE:</b>	Type 01	Type 01	Type 01	Type 01	Type 01
<b>ABRASIVE:</b>	Silicon Carbide	Silicon Carbide	Silicon Carbide	Silicon Carbide	Silicon Carbide
<b>REINFORCING:</b>	3 layers	2 layers	3 layers	2 layers	2 layers
<b>MATERIAL:</b>					

<b>SIZE (D X T X H)</b>	<b>MAX. RPM</b>	<b>STD. PKG.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>
<b>TYPE 01 CUT-OFF – FOR GAS &amp; ELECTRIC-POWERED SAWS</b>							
12 x 1/8 x 1" / 20mm	6,360	10		70184680314	66252836709	70184680312	70184670243
14 x 1/8 x 1" / 20mm	5,400	10	66252835388	70184680321	66252835387	70184680319	70184672877
16 x 1/8 x 1" / 20mm	4,800	10				70184623029	



## CATEGORY DEFINITION

These powerful, self-propelled machines are designed to cut concrete slabs and asphalt and are normally fitted with diamond blades. For inexperienced operators or small jobs, the machines can accommodate low initial cost, conventional abrasives wheels.

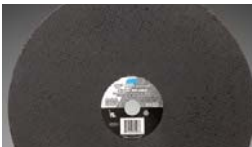


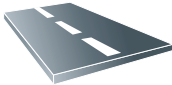
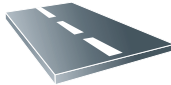
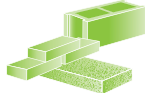
APPLICATIONS:	Cutting straight sections of concrete surfaces
SIZE RANGE:	14" and 18" diameter
THICKNESS RANGE:	3/16" – 3/8"
ABRASIVE GRAIN:	Silicon Carbide
SHAPE:	Type 01 Straight
BOND:	Hot Pressed (HP) – for higher horsepower machine applications where additional durability is needed, may be used wet or dry  Cold Pressed (CP) – for lower horsepower machines, which need a free-cutting wheel
ARBOR:	All are 1" with a drive pin



## CROSS REFERENCE GUIDE

	SPECIALTY		
	← BETTER	GOOD	GOOD →
<b>NORTON</b>	Norton Asphalt / Green Concrete – HP	Norton Asphalt	Norton Concrete
<b>Abmast</b>	—	C 16 T. Kompetitor Asphalt/Concrete	C 24 R
<b>Bullard Blaze &amp; Road Warrior</b>	—	C16R & T, C16R3	—
<b>Camel</b>	—	C16-U	C24-R
<b>Flexovit</b>	HPC16AG	C16 G.P. C16UB	C20SB/C16TB
<b>Husqvarna</b>	Red GC-7A	Black EWC	Gold RTC, Blue RTC, Blue EWC
<b>Pearl</b>	—	—	Premium C36S, Silver Line C24R
<b>Pferd</b>	—	C 24 R SG ASP	C 24 R SG GP
<b>Sait</b>	Street Runner	C16	C24R, Street Walker
<b>Tyrolit</b>	Concrete/Asphalt CHP	Asphalt CP	Concrete CP
<b>Virginia Abrasives</b>	—	GC/Asphalt	Concrete
<b>Walter</b>	—	—	C-24

## AVAILABILITY

	 BETTER	 GOOD	 GOOD		
TIER:	BETTER	GOOD	GOOD		
TRADENAME:	<b>ASPHALT – HP</b>	<b>ASPHALT – CP</b>	<b>CONCRETE</b>		
SHAPE:	Type 01	Type 01	Type 01		
ABRASIVE:	Silicon Carbide	Silicon Carbide	Silicon Carbide		
BOND:	Hot Pressed	Cold Pressed	Cold Pressed		
MATERIAL:					
<b>SIZE (D X T X H)</b>	<b>MAX. RPM</b>	<b>STD. PKG.</b>	<b>PART NO.</b>	<b>PART NO.</b>	<b>PART NO.</b>
<b>TYPE 01 CUT-OFF – FOR WALK-BEHIND SAWS</b>					
14 x 3/16 x 1 Pin Hole	4,365	10	70184670100	70184680324	70184680323
14 x 1/4 x 1 Pin Hole	4,365	5	70184670099	70184670535	70184670533
18 x 1/4 x 1 Pin Hole	4,250	5	70184670103	70184670098	
18 x 3/8 x 1 Pin Hole	4,250	5	70184648998		



For higher-production applications, that require optimum speed of cut and product life, please see our complete selection of walk-behind diamond blades in our Diamond, Abrasives and Equipment for the Construction Market Catalog #7719 found on [www.nortonconstructionproducts.com](http://www.nortonconstructionproducts.com).



**NORZON PLUS**

**Charger**

**Gemini**



## CATEGORY DEFINITION

A chop saw is a light, low horsepower portable machine. Although very similar to a compound miter saw, it is designed for cutting denser materials, like metal bar, tubing or pipe. Chop saw cut-off wheels are designed specifically for this machine with finer grit, softer grades, and reinforcement layers that match the application.

APPLICATIONS:	Cutting small diameter metal pieces, bar stock, metal pipe, tubing, decking, cable, drywall studs, and metal plate dimensioning
SIZE RANGE:	10" - 16" diameter
THICKNESS RANGE:	7/64"
ABRASIVE GRAIN:	Zirconia Alumina/Aluminum Oxide Blend, Aluminum Oxide, Silicon Carbide
SHAPE:	Type 01 Straight
REINFORCEMENT TYPE:	Side reinforced, centrally reinforced

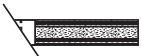
## CROSS REFERENCE GUIDE

	TOTAL PERFORMANCE			INITIAL PRICE			SPECIALTY		
	BETTER			GOOD			GOOD		
<b>NORTON</b>	Charger Fast Cut	Charger Rapid Cut	Charger Long Life	Gemini Fast Cut	Gemini Rapid Cut	Gemini Long Life	Stud Cutter	Gemini Aluminum	Masonry
<b>Brilliant</b>	—	—	—	Super-G	Tube/Pipe	—	Drywall Stud	Aluminum	—
<b>Bullard</b>	ZA36T	—	—	TA36T A46T The Competitor	A36R The Competitor	A36R Ironmaster	A46T Studmaster	AL36R	—
<b>Camel</b>	—	—	ZA24-S	A36-P, WA36-P	—	A36-S	A30-R Mr. Stud	A30-N	—
<b>Dewalt</b>	—	—	XP	GP, Stainless Fabrication	—	—	Stud Cutting	—	—
<b>Flexovit</b>	—	—	—	A30R Fast Cut A30-Q Free Cut	—	A30S Long Life	A30T Drywall Stud	—	—
<b>Makita</b>	—	—	—	—	General Purpose	—	—	—	—
<b>Pearl</b>	SRT36	—	—	A36P Premium	A30P Silver Line	—	A46S Stud Cutting	—	—
<b>Pferd</b>	—	—	—	A 36 K SG CHOP	PSF CHOP	—	A 36 K SG-STUD	—	C 36 K SG-CHOP
<b>Sait</b>	Saitech Steel Worker	Z-tech	—	EZ-Chop	EZ-Chop Attacker	Iron Worker	Stud King	Aluminum	—
<b>Walter</b>	—	—	—	—	A-30	A-30-HC+	—	A30-ALU	—

## APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

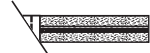
### WHEEL TYPE/REINFORCEMENT

#### TYPE 01 STRAIGHT SIDE REINFORCED CUT-OFF WHEEL



Side reinforced wheels have two full layers of reinforcing and are designed for a fast cut and the most aggressive applications. All Purpose, Fast Cut, and Long Life are side reinforced.

#### TYPE 01 STRAIGHT CENTRALLY REINFORCED CUT-OFF WHEEL



Centrally reinforced wheels have a single layer of reinforcing with exposed rough sides for free-cutting, non-binding applications where minimal burr and burn are the key requirements. Rapid Cut wheels are centrally reinforced.

## HOW TO PICK THE RIGHT BOND TYPE

<b>All Purpose</b>	<b>UNMARKED</b>	Where an excellent blend of cut rate and life is needed
<b>Fast Cut</b>	<b>FC</b>	Used when fast cutting is desired or when cutting pieces with larger cross sections
<b>Long Life</b>	<b>LL</b>	Where durability is needed due to severe application, and when cutting parts with small cross sections
<b>Rapid Cut</b>	<b>RC</b>	Where a free cutting, non-binding wheel is needed for burn-free and burr-free cuts
<b>High-Performance</b>	<b>STUD</b>	High-performance aluminum oxide/resin bond combination designed for cleaner cuts and longer life when cutting steel studs
<b>Aluminum</b>	<b>ALU</b>	Specially formulated bond for reduced loading/surface contamination when cutting aluminum/soft materials



## FEATURED PRODUCTS



### CHARGER CHOP SAW REINFORCED CUT-OFF WHEELS

BETTER CHOICE FOR STEEL, STAINLESS STEEL AND ALL OTHER FERROUS METALS

**FEATURES**

- Zirconia alumina/aluminum oxide abrasive blend
- Fast Cut: side reinforced
- Long Life: side reinforced
- Rapid Cut: centrally reinforced, rough sides

**BENEFITS**

- 2X the life and cut rate of aluminum oxide
- Engineered for larger cross-sections and/or hard-to-cut materials
- Ideal for small cross-section workpieces
- Free cutting, non-binding; burr- and burn-free cuts



### GEMINI CHOP SAW REINFORCED CUT-OFF WHEELS

GOOD CHOICE FOR ALL STEEL AND FERROUS METALS AS WELL AS SPECIALTY APPLICATIONS IN ALUMINUM

**FEATURES**

- Fast Cut: side reinforced
- Long Life: side reinforced
- Rapid Cut: centrally reinforced, rough sides
- Aluminum: specially formulated bond for aluminum and other soft, nonferrous metals; no wax or rubber fillers

**BENEFITS**

- Engineered for larger cross-sections and/or hard-to-cut materials
- Ideal for small cross-section workpieces
- Free cutting, non-binding; burr- and burn-free cuts
- Free cutting; resist loading
- No surface contamination



### METAL STUD CUTTER CHOP SAW REINFORCED CUT-OFF WHEELS

GOOD CHOICE FOR DRYWALL STUDS

**FEATURES**

- Stud Cutter: thin, side-reinforced; with high-performance aluminum oxide abrasive

**BENEFITS**

- Designed specifically for cutting steel studs

## AVAILABILITY



TIER:

BETTER

BETTER

GOOD

GOOD

GOOD

GOOD

TRADENAME:

CHARGER

CHARGER

GEMINI

GEMINI

METAL

MASONRY

SHAPE:

Type 01

Type 01

Type 01

Type 01

Type 01

Type 01

ABRASIVE:

Zirconia Alumina/  
Aluminum Oxide

Zirconia Alumina/  
Aluminum Oxide

Aluminum Oxide

Aluminum Oxide

Aluminum Oxide

Silicon Carbide

REINFORCEMENT:

Side

Central

Side

Central

Side

Side

MATERIAL:

STAINLESS  
STEEL / METAL

STAINLESS  
STEEL / METAL

STAINLESS  
STEEL / METAL

STAINLESS  
STEEL / METAL

STAINLESS  
STEEL / METAL

MASONRY

SIZE (D X T X H) MAX. RPM STD. PKG. PART NO. PART NO. PART NO. PART NO. PART NO. PART NO.

#### TYPE 01 STRAIGHT CUT-OFF

10 x 7/64 x 1	6,110	10				66253106109	LL			
12 x 7/64 x 1	5,095	10	66253207552			66253207554	LL	66253214561	RC	
14 x 7/64 x 1	4,365	10	66253306624	LL	66253309614	RC	66253306627	FC	66253313588	RC
		10	66253306625	LL			66253306626	LL		
		10					66253314816	ALU		
		25							07660789405	STUD
		5							07660703970	
										07660789402
16 x 7/64 x 1	3,820	10	66253410196	FC		66253410198	LL			
			66253410197	LL						

#### DEPRESSED CENTER DESCRIPTION CODES

FC = FAST CUT

LL = LONG LIFE

RC = RAPID CUT

ALU = ALUMINUM

STUD = STUD CUTTER

■ = STAINLESS

■ = STEEL / METAL

■ = MASONRY



## CATEGORY DEFINITION

The Norton stationary saw reinforced cut-off wheel line consists of Type 01 straight 10" - 24" wheels, designed to fit on fixed-base stationary saws that are free-standing or mounted on a workbench.

APPLICATIONS:	Primary applications are cutting of all metal parts (flat stock, bars, studs, pipes, tubes, angle iron, cable), wire rope and hydraulic hose used in fabrication, construction and plant maintenance.
SIZE RANGE:	10" - 24" diameter
THICKNESS RANGE:	3/32", 1/8", 5/32", 3/16"
ABRASIVE GRAIN:	Zirconia Alumina/Aluminium Oxide Blend, Aluminum Oxide, Silicon Carbide
SHAPE:	Type 01 Straight

## CROSS REFERENCE GUIDE

	TOTAL PERFORMANCE				INITIAL PRICE	SPECIALTY
	BETTER Charger	GOOD Gemini Fast Cut	Gemini Long Life	Gemini Rapid Cut*	Norton Masonry	GOOD Foundry Cut**
<b>Abmast</b>	Z 24 R3	A 30 R	—	—	—	AC 24 R3
<b>Brilliant</b>	—	GP Fast Cut	GPX Long Life	XL , XLX	—	—
<b>Bullard</b>	—	A30-R	A30-T	A300	C20R	—
<b>Camel</b>	ZA24-R	A24-R, A46-T	—	—	C24-R	WA24-S
<b>Flexovit</b>	—	A30RB Multi Purpose	A30SB Long Life, A24TB Long Life	—	C24RB	AC24PB Heavy Duty
<b>Metabo</b>	—	A30N, A30R	A30S, A30V	—	C30S	—
<b>Pearl</b>	SRT36	A30P Premium, A30Q Silver Line	A30S Premium, A36R Premium	—	C24 Silver Line	—
<b>Pferd</b>	ZA 24 Q/R SG-HD	A 24 N/P SG-HD	A 24 Q/S SG-HD	—	C 24 0 SG	—
<b>Sait</b>	—	A24N, A36R	A24R	—	C24R	—
<b>Tyrolit</b>	—	A30BF	—	—	C30BF	—
<b>Walter</b>	—	A-24-FC	A-24-RIP	—	—	—

\* FOR BURR-FREE APPLICATIONS, PLEASE REFER TO GEMINI RAPID CUT WHEELS IN CHOP SAW CUT-OFF WHEEL SECTION OR AT WWW.NORTONABRASIVES.COM  
 \*\* FOR FOUNDRY AND OTHER PRODUCTION CUT-OFF WHEELS, PLEASE REFER TO THAT SECTION OF THE NORTON FULL LINE CATALOG #7362 OR AT WWW.NORTONABRASIVES.COM

## AVAILABILITY

TIER:	BETTER	GOOD	GOOD	GOOD
TRADENAME:	CHARGER	GEMINI FAST CUT	GEMINI LONG LIFE	MASONRY
SHAPE:	Type 01	Type 01	Type 01	Type 01
ABRASIVE:	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Silicon Carbide
MATERIAL:	STAINLESS STEEL / METAL	STAINLESS STEEL / METAL	STAINLESS STEEL / METAL	MASONRY

SIZE (D X T X H)	MAX. RPM	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.
<b>TYPE 01 STRAIGHT CUT-OFF</b>						
10 x 3/32 x 5/8	6,110	10	66253106108	66253106101	66253106102	07660789391
12 x 1/8 x 1	5,095	10	66253207550	66253207547	66253207548	07660789350
14 x 1/8 x 1	4,365	10	66253306623	66253306609	66253306611	07660789353
16 x 1/8 x 1	3,820	10		66253422942		70184623029
16 x 5/32 x 1	3,820	10	66253410194	66253410183	66253410184	
18 x 5/32 x 1	3,015	10		66253410185		
20 x 5/32 x 1	2,710	5	69078609045 <b>FC</b> 69078609046 <b>LL</b>	69078609031	69078609032	
20 x 3/16 x 1	2,710	5		69078609033	69078609034	
24 x 3/16 x 1-3/4	2,260	5		61463650196		

### DEPRESSED CENTER DESCRIPTION CODES

<b>FC</b> = FAST CUT	<b>LL</b> = LONG LIFE	<b>BLANK</b> = ALL PURPOSE
<b>■</b> = STAINLESS	<b>■</b> = STEEL / METAL	<b>■</b> = MASONRY