



CP500 SERIES
HIGH-SPEED CUT-OFF SAW LINE

Fast Enough to get you on and off the job Tough Enough to last

Contractors never have to worry about poor starts, wrong fuel mixes, choking, or clogged filters with the new Norton Clipper CP500 series of cut-off saws. Our saws are built to withstand the demands of today's jobsite with raw, rugged power that truly delivers.

You can have ordinary or you can have a cut above in performance of Norton Clipper equipment and blade technologies that get you on and off the job quickly.

For a better option, make the switch to Norton.





FOUR FUNDAMENTALS OF HIGH-SPEED CUTTING PERFORMANCE

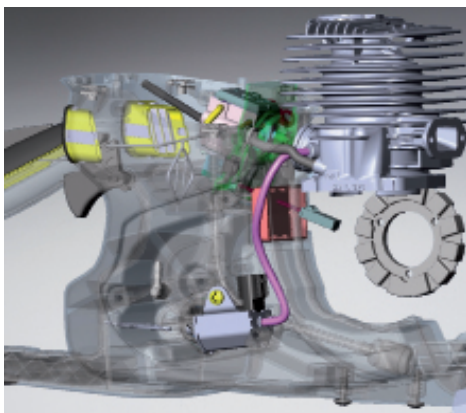
- ① ONE FULL LINE
- ② TWICE THE VERSATILITY
- ③ THREE TIMES BETTER
- ④ QUARTER PERCENT MORE LIFE



① ONE FULL LINE, A TOTAL EQUIPMENT LINE UP TO GET THE JOB DONE

BUILT FOR ENDURANCE

The Norton Clipper CP500 high-speed cut-off saw may be new to the market, but it's destined to be an asset on any crew. It's fully designed with the user in mind to not only cut a smooth, fast track, but it's also fully equipped to handle the everyday performance of any jobsite with unrelenting durability and reliability. Select a standard model or upgrade to the world's first patented automatic lubrication system, iLube®.



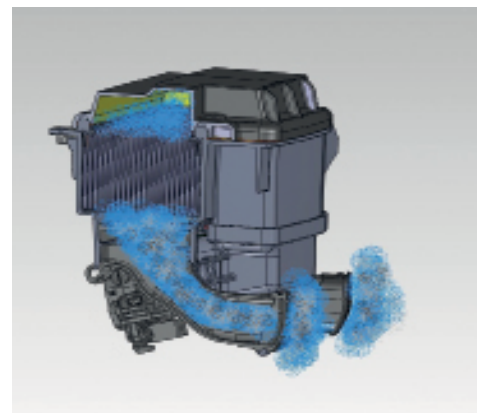
No More Pre-Mixing Oil and Fuel

The patented iLube® option automatically controls mixing of oil and fuel for maximum efficiency. An electronic sensor will indicate a low oil level and adjust the engine to idle to prevent engine damage.



Easy Start – Hot or Cold

The electronic carburetor's electro-magnetic valve eliminates the standard choke and half throttle start. The 3-step easy start eliminates the hassle of a choke. Simply turn the switch on, prime the engine, and push the decompression button and she'll purr like a kitten.



Multi-Stage Air Filtration

Patented twin-air inlets create an air pulsation that draws fresh air in while pushing hot air away from the engine and releasing it out the back to keep the saw running cool and reduce debris being trapped in the filter. The external rocker wheel vibrates the filter to further help release debris. This system extends filter life for less cleaning/replacement.

- 1 ONE FULL LINE 2 TWICE THE VERSATILITY 3 THREE TIMES BETTER 4 QUARTER PERCENT MORE LIFE

2 TWICE THE VERSATILITY, DUO SEGMENTED TECHNOLOGY MAKES QUICK WORK

DESIGNED FOR EFFICIENCY

The unique laser-cut gullets and split segment design of the patented Norton DUO diamond blade work together to provide an extremely smooth and fast cutting blade in many different materials. A patent pending universal arbor allows the blade to be adapted to two different arbor mounts. The knock out design creates flexibility to use one blade on two machines. The Norton DUO raises the standard in high-speed diamond blades for fast removal with longer life.



DUO EVO



The unique shape of the DUO EVO and DUO segments optimizes the angle of attack while enhancing the evacuation of the particles. The result is an exceptional cutting speed allied with optimum performance life up to 50% over other blades in critically hard materials.

UPC	Part #	Size	MAX RPM	Segment Height
701846 84217 4	DUOEVO12110	12 x .110 x 1"/20mm	6300	.472"
701846 84218 1	DUOEVO14110	14 x .110 x 1"/20mm	5460	.472"
701846 84549 6	DUOEVO16125	16 x .125 x 1"	4500	.472"



DUO



The original DUO. The innovative, exclusive design introduced in 2002 has become a dominant name in the market. The unique dual segment per land technology provides excellent cutting speed with low vibration and high comfort of cut. The exclusive arrow shape gullets not only indicate blade direction but they also assist in fast removal of cutting debris. Maximum performance when cutting medium to low reinforcement, hard materials – general purpose.

UPC	Part #	Size	MAX RPM	Segment Height
701846 83611 1	DUO12110	12 x .110 x 1"/20mm	6300	.393"
701846 83612 8	DUO14110	14 x .110 x 1"/20mm	5460	.393"
701846 84430 7	DUO14110 6PK	14 x .110 x 1"/20mm	5460	.393"
701846 84431 4	DUO14110 12PK	14 x .110 x 1"/20mm	5460	.393"
701846 83613 5	DUO14125	14 x .125 x 1"/20mm	5460	.393"
701846 84432 1	DUO14125 6PK	14 x .125 x 1"/20mm	5460	.393"
701846 84433 8	DUO14125 12PK	14 x .125 x 1"/20mm	5460	.393"
701846 83798 9	DUO16125	16 x .125 x 1"/20mm	4500	.393"



DUO ASPHALT



Dry cutting laser welded blade for asphalt and green concrete. Laser welded drop segment wear-retardant extends blade life. Scoop gullets for faster swarf removal increases cut speed. Stroboscopic indicators to control cut depth and show rotation direction.

UPC	Part #	Size	MAX RPM	Segment Height
701846 84543 4	DUOASP12125	12 x .110 x 1"/20mm	6300	.393"
701846 84315 7	DUOASP14125	14 x .125 x 1"/20mm	5460	.393"
701846 84544 1	DUOASP16125	16 x .125 x 1"/20mm	4500	.393"



DUO ABRASIVE



Utilizes the basic characteristics of original DUO blade and adds a unique segment shape that optimizes the angle of attack while enhancing the evacuation of the particles. The result is an exceptional cutting speed allied with very good performance and life in abrasive materials and concrete block. The bond specification lends additional life when high-speed cutting.

UPC	Part #	Size	MAX RPM	Segment Height
701846 84291 4	DUOAB14110	14 x .110 x 1"/20mm	5460	.393"
701846 84292 1	DUOAB14125	14 x .125 x 1"/20mm	5460	.393"

FOUR FUNDAMENTALS OF HIGH-SPEED CUTTING PERFORMANCE

- ① ONE FULL LINE
- ② TWICE THE VERSATILITY
- ③ THREE TIMES BETTER
- ④ QUARTER PERCENT MORE LIFE

③ THREE TIMES BETTER, 3X3 DELIVERS PRODUCTIVITY WITHOUT THE PRICE TAG

CRAFTED FOR QUALITY WITHOUT COMPROMISE

The 3X3 design offers a premium laser-welded blade without the price point of multiple sintered blades. A solid performing general purpose blade that cuts concrete, asphalt, and stone. The wider keyhole gullets reduce cracking and the tempered steel core with strategic hole pattern keeps the blade cool cutting.



3X3

It's everything expected for high-speed cutting when both performance and price are a factor. The laser welded 3X3 cuts concrete, reinforced concrete, asphalt and abrasive building materials and more. High quality diamond increases the speed of cut on a variety of materials without changing blades. Premium blade characteristics and price point where it would take multiple sintered blades to achieve.

UPC	Part #	Size	MAX RPM	Segment Height
701846 47500 6	3X312110	12 x .110 x 1"/20mm	6300	.314"
701846 47499 3	3X314118	14 x .118 x 1"/20mm	5460	.314"

④ QUARTER PERCENT MORE LIFE, 4X4 MAXS OUT THE NEED FOR ANY OTHER BLADE

ENGINEERED FOR MAXIMUM UTILITY

A single blade for multiple applications in concrete, stone, brick, ductile iron, granite and steel. The unique ellipsoidal shaped gullets resist cracking in the steel center under extreme conditions for enhanced safety during cutting while the stroboscopic depth indicators eliminate over cutting and allow operator to see depth of cut in operation. A premium metal bond and diamond technology improve blade life without sacrificing performance. The 4X4 family takes versatility in high-speed cutting to an all new level with 25% longer life and on-going endurance.



4X4 MAX CUT

Taking versatility in high-speed cutting to an all new level. The same core features as the 4X4 with its anti-crack gullets, patented depth indicators that not only cool the blade but allow the operator to know how deep they are cutting. An all new bond and diamond specification improves blade life in a wide range of materials and excelling in steel. New segment wear indicators give the operator an idea of segment life.

UPC	Part #	Size	MAX RPM	Segment Height
701846 45927 3	4X4MC12118	12 x .118 x 1"/20mm	6300	.472"
701846 45926 6	4X4MC14125	14 x .125 x 1"/20mm	5460	.472"



4X4

Multi-purpose and versatile laser welded segments for dry cutting a range of construction materials (concrete, hard brick pavers, granite, etc.) without sacrificing performance or price. A high performance blade for long life on large masonry saws. Depth of cut is easily controlled with the patented depth of cut indicators cut into the steel core. Anti-crack gullets for enhanced safety cutting steel and metal (up to 5mm thick).

UPC	Part #	Size	MAX RPM	Segment Height
701846 84548 9	4X412110	12 x .110 x 1"/20mm	6300	.393"
701846 84547 2	4X414125	14 x .125 x 1"/20mm	5460	.393"
701846 45306 6	4X416125	16 x .125 x 1"/20mm	4500	.393"

TECHNICAL SPECIFICATIONS	CP512-300	CP512-300i	CP514-350	CP514-350i
Product Number	701846 47559 4	701846 47561 7	701846 47563 1	701846 47565 5
Blade Guard Capacity - in (mm)	12" (305)	12" (305)	14" (356)	14" (356)
Maximum Depth of Cut - in (mm)	4" (100)	4" (100)	5" (125)	5" (125)
Arbor Size - in (mm)	.78 (20)	.78 (20)	.78 (20)	.78 (20)
Blade Flange Diameter - in (mm)	3.93 (100)	3.93 (100)	3.93 (100)	3.93 (100)
Blade Shaft RPM	4,500	4,500	4,500	4,500
Blade Shaft Drive	4,450	4,450	4,450	4,450
Blade Shaft Bearings	Heavy Duty Sealed	Heavy Duty Sealed	Heavy Duty Sealed	Heavy Duty Sealed
Blade Shaft Drive	1 Belt	1 Belt	1 Belt	1 Belt
Control	Hand Held	Hand Held	Hand Held	Hand Held
Chassis	Norton Single-Cylinder Two Stroke Engine, Four-Channel Flushing	Norton Single-Cylinder Two Stroke Engine, Four-Channel Flushing	Norton Single-Cylinder Two Stroke Engine, Four-Channel Flushing	Norton Single-Cylinder Two Stroke Engine, Four-Channel Flushing
Power Source	Single Cylinder 2 Cycle	Single Cylinder 2 Cycle w/Smart Lube	Single Cylinder 2 Cycle	Single Cylinder 2 Cycle w/Smart Lube
Motor/Engine Type	Norton Clipper	Norton Clipper	Norton Clipper	Norton Clipper
Specifications	CP512-300	CP512-300i	CP514-350	CP514-350i
Maximum Horsepower¹	5.36 hp (4.0 kW)	5.36 hp (4.0 kW)	5.36 hp (4.0 kW)	5.36 hp (4.0 kW)
Net Horse Power¹	5.36 hp (4.0 kW)	5.36 hp (4.0 kW)	5.36 hp (4.0 kW)	5.36 hp (4.0 kW)
Max. Torque ft lbs (Nm)	3.54 (4.8)	3.54 (4.8)	3.54 (4.8)	3.54 (4.8)
Displacement - cu In (l)	4.94 (81)	4.94 (81)	4.94 (81)	4.94 (81)
Bore - in (mm)	2.04 (52)	2.04 (52)	2.04 (52)	2.04 (52)
Stroke - in (mm)	1.49 (38)	1.49 (38)	1.49 (38)	1.49 (38)
Cylinders/Cycle	Single Cylinder 2 Cycle	Single Cylinder 2 Cycle	Single Cylinder 2 Cycle	Single Cylinder 2 Cycle
Fuel Capacity - gal (l)	0.23 (0.9)	0.23 (0.9)	0.23 (0.9)	0.23 (0.9)
Oil Capacity - oz (l)	-NA-	0.08 (0.32)	-NA-	0.08 (0.32)
Electronically-Controlled Oil Lubrication	-NA-	YES	-NA-	YES
Air Filter	Heavy Duty 2 Stage	Heavy Duty 2 Stage	Heavy Duty 2 Stage	Heavy Duty 2 Stage
Starter	Manual	Manual	Manual	Manual
Engine Cooling	Forced Air	Forced Air	Forced Air	Forced Air
Electronically-Controlled Carburetor With Smart Choke	YES	YES	YES	YES
Sound Level^{2,3} L_{peg} (EN ISO 19432 Annex B) dB(A)	98	98	98	98
Sound Power Level^{2,3} L_{weg} (EN ISO 19432 Annex B) dB(A)	108	108	108	108
Weighted Effective Acceleration^{2,4} a_{hv,eq} (EN ISO 19432 Annex C) Rear Handle / Top Handle m/s²	4.5 / 6.0	4.5 / 6.0	4.5 / 6.0	4.5 / 6.0
SAW DIMENSIONS				
Height - in (mm)	16.93 (430)	16.93 (430)	16.93 (430)	16.93 (430)
Saw Width - in (mm)	10.52 (267)	10.52 (267)	10.52 (267)	10.52 (267)
Maximum Saw Length (Working) - in (mm)	29.53 (750)	29.53 (750)	30.52 (775)	30.52 (775)
Weight - Uncrated - lbs (kg)	22.26 (10.1)	22.92 (10.4)	22.49 (10.2)	23.15 (10.5)
ACCESSORIES				
High-Speed Saw Wheel Kit	005101 09845 1	HSS Wheel Kit		
High-Speed Saw Tool Kit	005101 09846 8	HSS Tool Kit		

¹ DATA PROVIDED BY MOTOR/ENGINE MANUFACTURER

² IN DETERMINING THE ABOVE VALUES REGARDING ACCELERATION OF VIBRATIONS AND SOUND, THE DIFFERENT OPERATING CONDITIONS WERE WEIGHED IN ACCORDANCE WITH THE CURRENT STANDARDS

³ INSECURITY K PURS. TO EC DIRECTIVE 2006/42/EC: 2.5 DB(A)

⁴ INSECURITY K PURS. TO EC DIRECTIVE 2006/42/EC: 2 M/S²



NOT ALL DIAMOND BLADES ARE CREATED EQUAL

While laser-welded premium diamond blades may be 5-10% more expensive in initial purchase, that cost is well offset, during use, in saving time and money with fewer blade changes. Economy blades just don't measure up. Using low-cost mass-produced sintered diamond blades to save money up front is not only potentially dangerous but it will also end up costing more in the long run as they simply can't keep up with cutting hard concrete repeatedly. So, multiply the number of economy blades it takes compared to one premium blade by the labor to change the blade each time and it's simply money out of your pocket.

At Norton, we know that performance-driven cut-off saws and technology-driven diamond blades are the primary instruments to any job site crew and we deliver all the muscle you need.

MAKE DIAMOND BLADE SAFETY YOUR NUMBER ONE PRIORITY KNOW THE DO'S AND DON'TS OF HIGH-SPEED DIAMOND BLADES

Whether the work is being handled by a contractor or a homeowner, it's equally important that safe practices are followed for use of diamond blades and equipment.

High-speed blades mounted on hand-held cut-off saws can rotate up to 6,300 rpm for a 12" diamond blade. With this in mind, it's easy to understand why safety has to be the number one priority.

Diamond blades are designed by manufacturers for specific applications, such as hard and soft materials and wet-and-dry-cutting situations. Due to these variations it's critical the proper diamond blade is used for the appropriate job and the saw operator has been trained how to use the products and what actions to take.

For additional safety and use tips, refer to the Rx for Diamond Blades produced by the Concrete Saw Manufacturers Institute (SMI). Remember, your actions can prevent segment loss and personal injury. Know and follow all of the blade's and saw's safety rules.

For additional information on this topic or if you need any other abrasive safety information, please review ANSI, OSHA and all literature provided by the diamond saw blade and machine manufacturer. You may also contact the Norton | Saint-Gobain Product Safety Department at Tel. (508) 795-2317 Fax. (508) 795-5120 or contact your local sales representative with any safety related questions.

ALL THE **MUSCLE** YOU NEED™

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