

ABRASIVE SOLUTIONS BUILDING & CONSTRUCTION

2016



NORTON
SAINT-GOBAIN®

clipper®










EUROPEAN PRODUCT GUIDE 2016

For Building and Construction

NORTON-CLIPPER Diamond Tools

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DIAMOND TOOLS



The Norton Clipper range offers professional diamond tools for cutting, drilling and grinding jobs. For each application, we offer a choice of 3 performance levels, adapted to the requirements of each user:



★★★★★ DYNAMIC

Dynamic range consists of the most innovative Norton products, with the fastest and smoothest cutting speeds, and extremely long life, with premium solutions for the most demanding professionals.



★★★★☆ PRO

Pro range is designed for sustaining intensive use with the right price.



★★★☆☆ CLASSIC

Classic range consists of reliable products for the price sensitive building jobs.



Easily identify the material to cut with our colour code :

page 13 Concrete and concrete products

Reinforced concrete, cured concrete, kerb stones, concrete pipes, engineering bricks, facing bricks, refractory bricks, flagstones and paving stones, block paving, washed gravel concrete slabs, natural stone, flint, sandstone, limestone.



page 17 Universal use - building materials

Reinforced concrete, cured concrete, kerbs, concrete pipes, bricks, block paving, flagstones and paving stones, washed gravel concrete slabs, natural stone, sandstone, limestone, flint.



page 31 Asphalt and abrasive materials

Asphalt, asphalt over concrete, green concrete, bitumen, cement joints, breeze blocks, Lignacite blocks.



page 35 Natural stone and tiles

Granite, marble, slate, hard natural stone, tiles - porcelain, ceramic, vitrified reconstituted stone.



page 56 Refractory materials

Fire-resistant oxydes, silicon carbide, carborundum, graphite, fireclay, electrofused alumina, magnesite, dolomite, chromium oxydes, zirconia oxyde, silica, mulite, bauxite, durital, rocal, volcanic stones, basalt...





THE BIGGEST BREAKTHROUGH IN DIAMOND TOOL TECHNOLOGY

Norton's Infiltrated High Density technology (iHD) combined with its patented diamond blades laser-welding process is the biggest breakthrough in Diamond Tools this century. Through many years of research and development this revolutionary process provides our customers with unrivalled performance, increased safety, lower energy manufacturing and a wider choice of segment design.

APPLICATIONS FOR THE BUILDING & CONSTRUCTION MARKET

CUTTING

GRINDING

DRILLING

MATERIALS

CONCRETE

ASPHALT

BUILDING MATERIALS

TILES

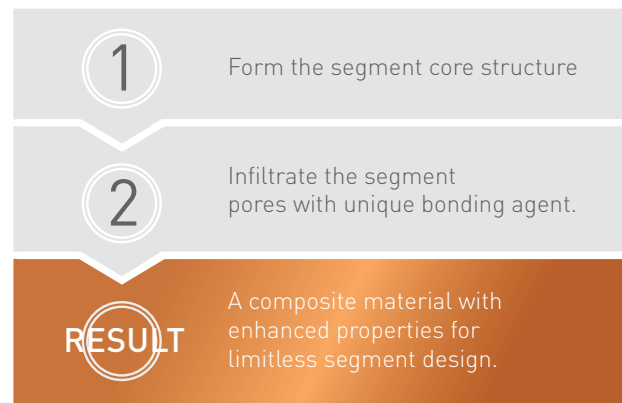
STONE

REFRACTORY MATERIALS

DUCTILE IRON

METALS

A STREAMLINED 2-STEP PROCESS



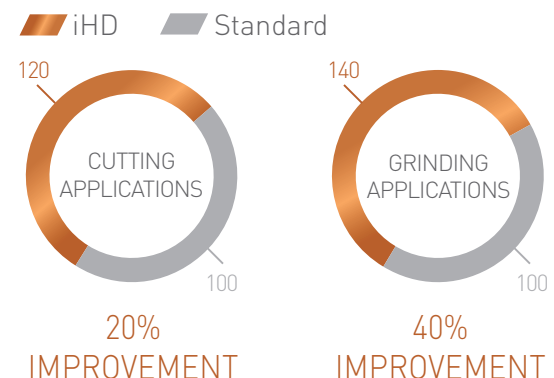
UNIQUE PATENTED LASER WELDING OF INFILTRATED SEGMENTS

Infiltration achieves high uniform density across each whole segment without applying high pressure (like the standard process). This allows Norton to manufacture very robust segments which wear evenly, remain intact and perform faster at higher cutting speeds.

The diamond grit is an integral part of the segment structure. During the patented process a special bond impregnates the core structure and binds the diamond grit into the segment. This ensures optimum use of the diamond grit, giving the diamond tools a longer life.

Norton's optimized process also means increased segment design flexibility resulting in greater diversification of diamond blade shapes to best suit applications and materials being cut.

RELATIVE TOOL LIFE COMPARISON



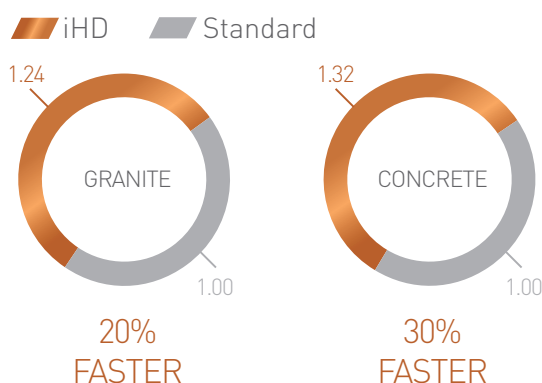
***LASER** INVENTED
BY NORTON
IN 1982

INFILTRATED HIGH DENSITY DIAMOND BLADES

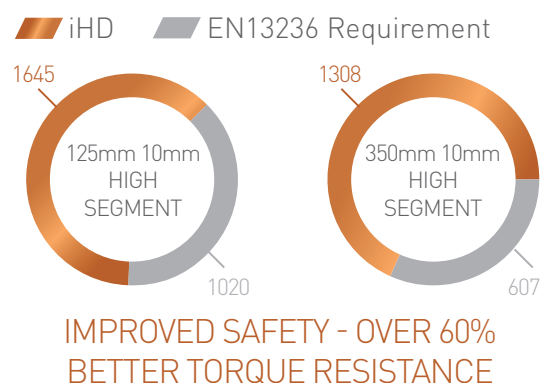


	FEATURE	BENEFIT
LONGER LIFE	An increased retention of diamond grits	A much longer tool life, by at least +20% Greater performance Best possible return on investment
FASTER CUT	New and innovative structures allow a very well balanced and steady bond wear for the whole life of the product	A much faster tool cutting speed, by +30% on average
INCREASED SAFETY	Very high and very uniform density across the whole segment, makes it almost unbreakable	A much higher bending resistance, resulting in 60% higher torque resistance for laser welded segments An advanced safety breakthrough from the inventor of the laser-welded diamond blade 100% warranty against segment loss
GREATER COMFORT	The iHD manufacturing process enables many different segment shapes to be produced, resulting in innovative designs for smoother cutting	Reduced vibrations and effort while cutting Greater comfort for the end-user
LOWER ENERGY	The streamlined manufacturing process requires lower energy consumption	More environment friendly
WIDER CHOICE	iHD enables mass production of any segment shape, with no design restriction	New and unique diamond tool with greater differentiation between high performance diamond tools Greater selection of products for specific applications Clearer identification of Norton products
	All types of tool specification can be designed with iHD – from very abrasive to very hard materials	Ensures versatility – for applications and of materials to be cut
ADVANCED INNOVATION	More than six patent applications submitted by Saint-Gobain Abrasives	Many innovation awards highlight the benefits of this new process

RELATIVE SPEED COMPARISON



MIN TORQUE RESISTANCE COMPARISON N/MM²



NORTON

SAINT-GOBAIN®

*Silencio*HD
TECHNOLOGY™

THE MOST SILENT DIAMOND BLADE ON THE MARKET, WITH PREMIUM CUTTING PERFORMANCE.

Residential areas, city centres, schools and hospitals are especially sensitive to noise, with more and more local regulations preventing excessive noise levels.

With **up to 17mm high segments** and a bespoke specification for each application, NORTON SILENCIO is our **most efficient diamond blade** for granite, concrete and general purpose materials, while **protecting the surrounding area from disturbing cutting noise**.

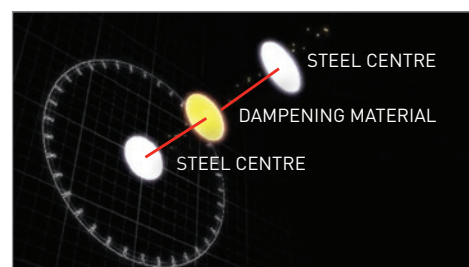
NEW GENERATION OF SILENT DIAMOND BLADES

Winner of 10 Innovation & Safety awards worldwide, Norton Silencio patented technology relies on two features:

- a 'sandwich' laminated steel-center, with a vibration absorbing layer sealed between two sheets of steel, which absorbs the cutting vibrations and prevents high-frequency noises from the cut.
- a patented 'offset gullet' which prevents whistling from air flow around the diamond blade.

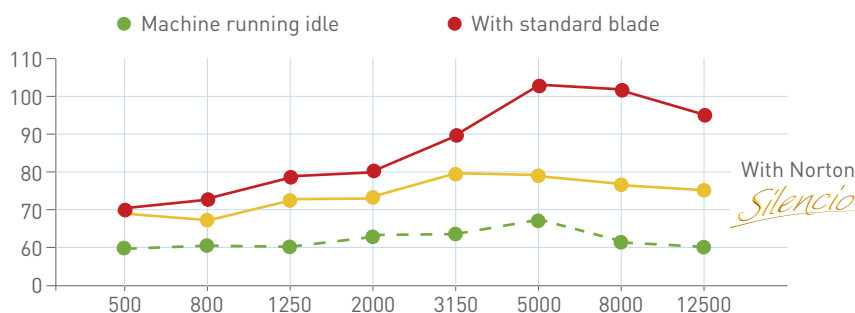
One blade specification for each of the typical machine applications:

- Each NORTON SILENCIO diamond blade is fine-tuned to provide the best possible noise reduction and cutting performance on a particular machine application.

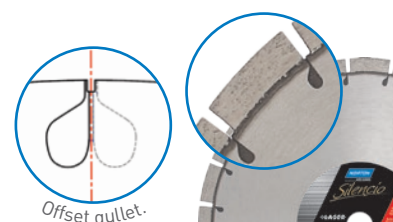


*Sandwich steel-center

NORTON SILENCIO REDUCES HIGH-FREQUENCY NOISE



NORTON SILENCIO patented offset-gullet design prevents any air flow to go through the steel-center and completely cancels out the whistling effect you hear on standard diamond blades.





SILENT DIAMOND BLADES

SILENCIO : THE AWARD-WINNING SILENT DIAMOND BLADES FOR EACH APPLICATION

FOR MASONRY SAWS:



- Noise reduction up to -15dB(A): 30 times less noise than a conventional blade!
- Among the longest lasting product on the market with 15mm high segments.
- Excellent cutting speed even in hard materials like granite.
- Application: Reinforced concrete, concrete, bricks, natural stones (flintstone, granite, sandstone...), block pavements, and all general purpose building materials.



-15dB(A) 30X LESS NOISE

ITEM No.	EAN 13 CODE	Ø (mm)	BORE (mm)	SEGMENT H / T
701846 40269	5450248 456209	300	25,4	15/3,1
701846 28998	5450248 398202	350	25,4	15/3,1
701846 40270	5450248 456216	400	25,4	15/3,1
701846 94368*	5450248 686699	450	25,4	15/3,2
701846 30309	5450248 414155	500	25,4	15/3,2

* Availability on request

FOR BLOCK SAWS:



- Noise reduction up to -13dB(A): 20 times less noise than a conventional blade!
- Fastest cutting blocksaw blade in the market, with extreme product life.
- The new "DUO-shape" segments provide a faster cutting speed.
- Application: large construction blocks in Poroton, Kalksandstein, synthetic stone, clay bricks, concrete blocks, insulation blocks, granite and natural stones.



-13dB(A) 20X LESS NOISE

ITEM No.	EAN 13 CODE	Ø (mm)	BORE (mm)	SEGMENT H / T
701846 94277*	5450248 594697	650	25,4	15/4,4
701846 94030	5450248 587309	900	60/55	15/4,4
701846 94595	5450248 689898	1000	60/55	15/4,4

* 650mm version available from March 2015

FOR ANGLE-GRINDERS:



- Noise reduction up to -11dB(A): 15 times less noise than a conventional blade!
- Extreme product life with 17mm high segments, with excellent cutting speed thanks to the innovative segment shape.
- Excellent comfort and quality of cut, provided by the narrower space between each segment.
- Application: Reinforced concrete, concrete, bricks, medium-hard stones, block pavements, and all general purpose building materials.



-11dB(A) 15X LESS NOISE

ITEM No.	EAN 13 CODE	Ø (mm)	BORE (mm)	SEGMENT H / T
701846 01168	5450248 702498	230	22,23	17/2,8

WATCH THE NORTON
SILENCIO BS IN ACTION!



FOR HANDHELD CUT-OFF SAWS:



- Noise reduction up to -11dB(A): 13 times less noise than a conventional blade!
- Extremely fast cutting and long lasting, thanks to a bespoke segment specification.
- Application: concrete, reinforced concrete, kerb stones, block pavements, granite, natural stones, and general purpose building materials.

Caution: this version is especially designed for use on handheld cut-off saws.



-11dB(A) 13X LESS NOISE

ITEM No.	EAN 13 CODE	Ø (mm)	BORE (mm)	SEGMENT H / T
701846 29000	5450248 398226	300	20	15/3,1
701846 42421	5450248 498308	300	25,4	15/3,1
701846 47780	5450248 570998	350	20	15/3,1
701846 28999	5450248 398219	350	25,4	15/3,1
701846 94504	5450248 688518	400	20	15/3,1
701846 43510	5450248 510604	400	25,4	15/3,1

FOR FLOOR SAWS:



- Noise reduction up to -13dB(A): 20 times less noise than a conventional blade!
- Extremely fast cutting and long lasting, thanks to a bespoke segment specification.
- Application: concrete, reinforced concrete. Can also be used for cutting asphalt.



-13dB(A) 20X LESS NOISE

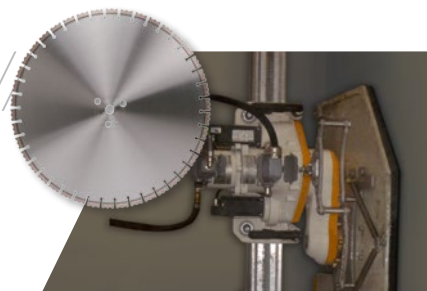
ITEM No.	EAN 13 CODE	Ø (mm)	BORE (mm)	SEGMENT H / T
701846 28997	5450248 398196	350	25,4	15/3,1
701846 31020	5450248 450597	450	25,4	15/3,2
701846 30416	5450248 440901	500	25,4	15/3,2

NEW

FOR WALL SAWS:



- Noise reduction of up to 10 dB(A): 10x less noise than a conventional blade.
- Extremely fast cutting and long lasting.
- Application: concrete, reinforced concrete. Also suitable for use on electric floor saws.



-10dB(A) 10X LESS NOISE

ITEM No.	EAN 13 CODE	Ø (mm)	BORE (mm)	SEGMENT H / T
701846 29881*	5450248 566526	600	60	14/3,7
701846 30679*	5450248 446231	700	25,4 (TS)	14/3,7
701846 28513*	5450248 565994	800	60	14/4,8
701846 30618*	5450248 443193	1000	60	14/4,8
701846 42575*	5450248 498377	1200	60	14/4,8

* Please indicate any special requirements for bore size and mounting drive-pin holes with your order.

MULTI-MATERIAL DIAMOND BLADE

FOR ALL MACHINES



explorer+



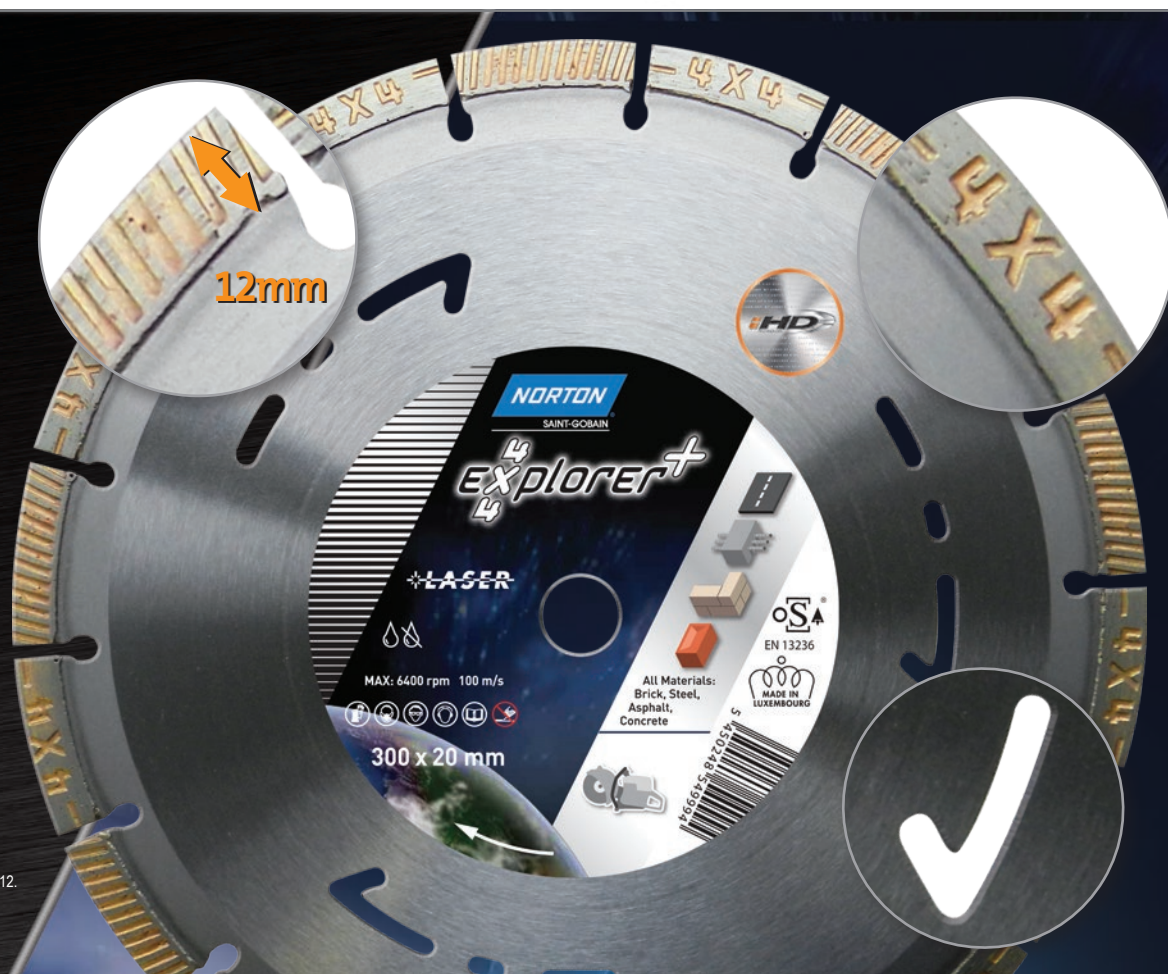
Ø 115-500



LASER

Quickfix

Learn more about the Quickfix system on page 12.



MULTIPURPOSE and VERSATILE laser welded segments for dry or wet cutting. High performance diamond blade, giving LONG LIFE and HIGH SPEED cutting in a wide range of construction materials. Featuring patented DEPTH INDICATOR for blade life monitoring and indication of cutting direction, and ANTI-CRACKS gullets for enhanced safety.

FEATURES

- New specification with 12mm high segments
- Trapezoidal segment shape
- Patented cutting depth indicator
- Segment wear indicator
- Patented drop-shape gullet
- Manufactured with our new exclusive enhanced segment technology

BENEFITS

- Most versatile blade, fast cutting in hard materials and long life in abrasive materials
- More comfortable and smoother cut, lower vibration
- Easier control of the cutting depth during use
- Visual check of the segment wear to track easily the product life
- Safer design to prevent fatigue cracks, even when cutting in metals (up to 5mm thickness)
- Produces higher segment density for stronger laserwelding and longer life

APPLICATIONS

- Reinforced concrete
- Concrete lintels
- Limestone concrete
- Concrete roof tiles
- Pavements and blocks
- Granite & natural stones
- Asphalt
- Asphalt over concrete
- Breeze blocks
- Gridstone
- Sandstone
- Steel parts up to 5mm thickness

NEW AND INNOVATIVE PRODUCT FEATURES

Developed and manufactured in our state-of-the-art facility in Luxembourg, 4x4 Explorer + offers an improved and faster cutting experience whilst the many innovative features ensure the highest safety standards.

FASTER CUTTING

The new segment specification brings a **tremendous improvement in cutting speed** and product life. Benchmarking the most prominent competing products, we have proved that **4x4 Explorer + outperforms all multi-purpose competitor blades**, ensuring the best return on investment for the end user.

SAFER

Fully compliant with the latest EN13236:2010 safety standard and fitted with the patent-pending **Norton drop-shape gullets** preventing fatigue cracks in the steel centre, **Norton 4x4 Explorer +** is a totally safe product, even when used for cutting metal.

MORE COMFORTABLE

The **trapezoid shape segments** provide a narrow and constant space between the segment during the whole product life, reducing vibrations and shocks during cutting. The serrations on the segment face contribute to the cutting speed and help to reduce the efforts required by the operator.

SMARTER

- The **patented arrow-shape depth-indicator** indicates the way of rotation to ease mounting of the blade, and once in rotation, the stroboscopic effect displays two transparent lines indicating 5 and 10cm cutting depth
- The new **segment wear-indicator** embedded in the segments are two thin lines showing 1/3 and 2/3 of the segment height, indicating visually the wear of the product.

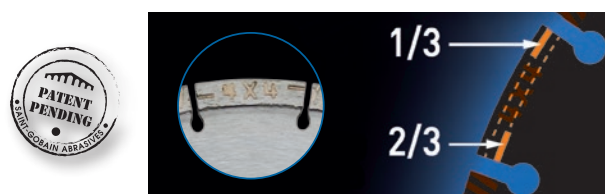
Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 25307	5450248 345329		115	22,23	10/2,2
701846 47279	5450248 557234		125	22,23	10/2,2
701846 43654	5450248 512516		180	22,23	10/2,5
701846 47280	5450248 557241		230	22,23	12/2,5
701846 46881	5450248 549994		300	20	12/3,0
701846 46870	5450248 548898		300	25,4	12/3,0
701846 46154	5450248 538448		350	25,4	12/3,2
701846 46571	5450248 545538		350	20	12/3,2
701846 47348	5450248 558804		400	25,4	12/3,2
701846 47374	5450248 559399		400	20	12/3,2
701846 47349	5450248 558811		450	25,4	12/3,2
701846 94008	5450248 587248		500	25,4	10/3,8

MORE VERSATILE

The improved segment specification **works perfectly in all kinds of construction materials** from granite, natural stones, reinforced concrete, blocks, bricks, green concrete and asphalt. The choice of diamonds and the special treatment on the steel centre allows a perfectly safe and sustainable **cut in metal pieces** like rebars, pipes or safety barriers.



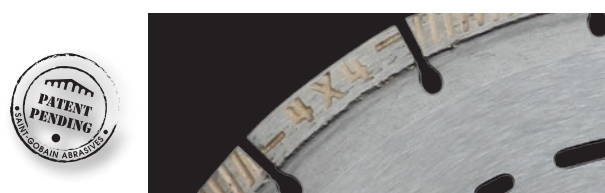
EMBEDDED WEAR-INDICATOR



PATENTED DEPTH-INDICATOR



DROP-SHAPE GULLET

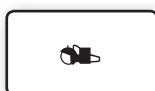




Quickfix

The system allows for blades bore to be adjusted to fit machines with different arbor/shaft diameters. There are 2 versions, the first allows a blade with a 25,4mm bore to be fitted to a machine with a 22,23mm arbor/shaft. The second allows a blade with either a 25,4mm or 22,23mm bore to be mounted on a machine with a 20mm arbor/shaft.

The system complies with the requirements of European Standard EN 13236.



Code SAP	Code EAN 13		Bore of blade (mm)	Bore of machine (mm)
701846 23894	5450248 236528		25,4	22,23
701846 22589	5450248 233176		25,4/22,23	20

DIAMOND TOOLS FOR CONCRETE AND REINFORCED CONCRETE



Concrete and concrete products

Reinforced concrete, cured concrete, kerb stones, concrete pipes, engineering bricks, facing bricks, refractory bricks, flagstones and paving stones, block paving, washed gravel concrete slabs, natural stone, flint, sandstone, limestone.



DRY-CUTTING OF CONCRETE PRODUCTS Ø230mm - angle grinder



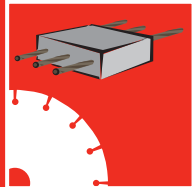
DRY-CUTTING OF CONCRETE PRODUCTS Ø300-350mm - petrol saws



WET-CUTTING OF CONCRETE FLOOR Ø350mm - 13HP floor saws



* These graphs indicate only a relative positioning of the different specifications one to another.



CONCRETE AND REINFORCED CONCRETE BLADES FOR MACHINES <20HP

DUO EXTREME⁺



★★★★★
Dynamic

Ø 115-400



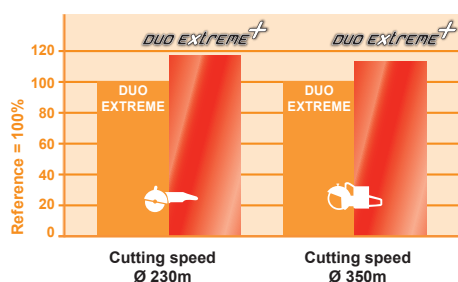
★LASER

NEW SEGMENT
+20%
faster speed

**WAY OF
ROTATION**

15mm

CUTTING SPEED IN HARD WASHED CONCRETE



And also : **+5% LIFE**

+20% LIFE

The new DUO EXTREME+ is the fastest NORTON CLIPPER diamond blade. Manufactured in our Centre of Excellence based in Luxembourg, the exclusive manufacturing process developed by our R&D engineers brings many benefits :



	Features	Benefits
FASTER CUTTING	New specifications can be designed with this new process, with impressive free-cutting performance.	• The new Dynamic DUO EXTREME+ is the fastest cutting diamond blade in Norton Clipper range, up to +20% faster than previous version.
LONGER LIFE	High density and improved retention of diamond grits in the segment.	• Increased segment height and improved specification bring up to +20% longer product life.
MORE COMFORTABLE	Innovative designs for smoother cutting.	• Better comfort, less vibrations and efforts while cutting, better quality of cut.
SAFER	Very high & uniform density across the whole segment	• Up to +75% stronger laser-welding torque resistance vs. traditional process. 100% warranty against segment loss.



DUO EXTREME+ 230mm



DUO EXTREME+ 300mm
on a CP512 (see page 104)



DUO EXTREME+ 350mm
on a CS451 (see page 82)



DUO EXTREME +



New specification and 15mm high segments for faster cutting and longer life.

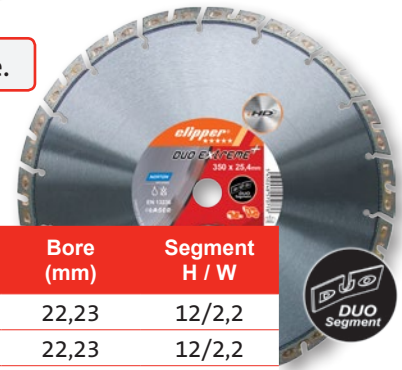
New specification with extreme cutting speed and long product life.
Trapezoidal U-shape segment shape for improved comfort.

New improved 15mm segment height.

Application : concrete, reinforced concrete, hard materials and general building materials.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 30301	5450248 414193		115	22,23	12/2,2
701846 30302	5450248 414209		125	22,23	12/2,2
701846 47723	5450248 569299		230	22,23	15/3,0
701846 47787	5450248 570745		300	20	15/3,0
701846 47788	5450248 570752		300	25,4	15/3,0
701846 47789	5450248 570769		350	20	15/3,2
701846 47790	5450248 570776		350	25,4	15/3,2
701846 93353	5450248 572657		400	20	15/3,2
701846 93354	5450248 572664		400	25,4	15/3,2



Find our silent diamond blades for concrete cutting at page 8.



Silencio

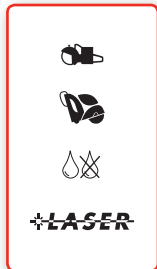


SUPER BETON EVO

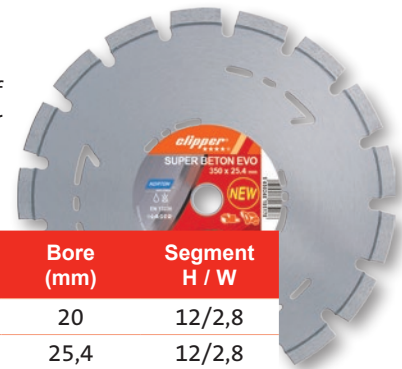
Very good value for money laser welded blade for intensive use on a wide range of construction materials (dry or wet cutting). Featuring patented DEPTH INDICATOR for blade life monitoring and indication of cutting direction (up to diameter 350mm).

Now with 12mm high segments.

Application : concrete, reinforced concrete and general building materials.



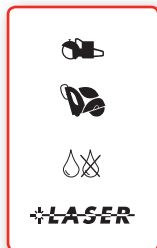
Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 11453	5450248 185123		300	20	12/2,8
701846 11455	5450248 185147		300	25,4	12/2,8
701846 11456	5450248 185154		350	20	12/2,8
701846 11458	5450248 185178		350	25,4	12/2,8
701846 11459	5450248 185185		400	20	12/3,2
701846 11460	5450248 185192		400	25,4	12/3,2
701846 11461	5450248 185208		450	25,4	12/3,2
701846 11981	5450248 204374		500	25,4	12/3,8
701846 11982	5450248 204381		600	25,4	12/4,4



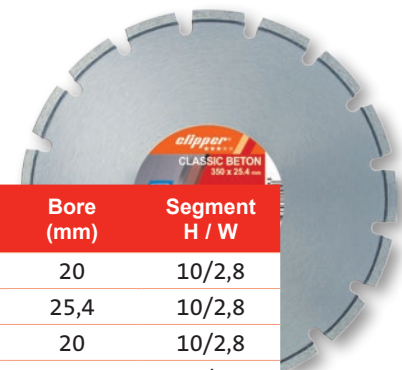
CLASSIC BETON

Good value for money laser welded blade for dry or wet cutting.

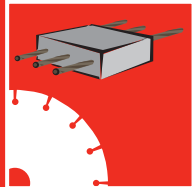
Application : concrete and general purpose building materials.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 26869	5450248 353621		300	20	10/2,8
701846 26870	5450248 353638		300	25,4	10/2,8
701846 26871	5450248 353645		350	20	10/2,8
701846 26872	5450248 353652		350	25,4	10/2,8
701846 26873	5450248 353669		400	25,4	10/3,2
701846 26874	5450248 353676		450	25,4	10/3,2
701846 94416 *	5450248 687429		500	25,4	10/3,4
701846 94417 *	5450248 687436		600	25,4	10/3,6



* 500-600mm with undercutting protection segments

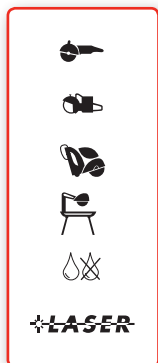


CONCRETE AND REINFORCED CONCRETE BLADES FOR MACHINES <20HP

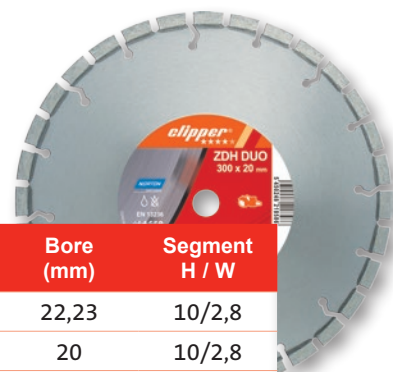
★★★★☆
Pro

ZDH DUO

High performance blade for concrete and general building materials. Featuring the Duo concept : 2 trapezoidal segments for high cutting speed and comfort.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 12117	5450248 210498		230	22,23	10/2,8
701846 12268	5450248 218586		300	20	10/2,8
701846 12271	5450248 218647		350	20	10/2,8
701846 12273	5450248 218661		350	25,4	10/2,8
701846 20340	5450248 299486		400	20	10/3,2



★★★★☆
Pro

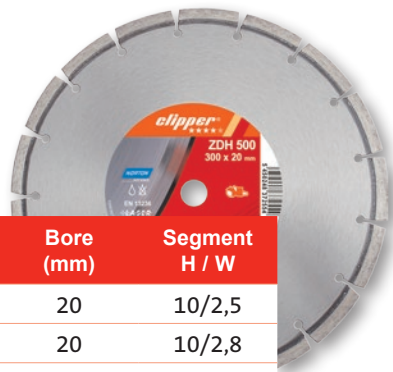
ZDH 500

Good value for money laser-welded blade, with 10mm high free-cutting segments, for wet or dry cutting. VERSATILE product designed for petrol handheld saws, floor saws and masonry saws. High performance blade, designed for concrete, and medium to hard refractory materials.

Application : concrete, reinforced concrete, concrete slabs, refractory blocks containing aluminium oxides.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 27058	5450248 372554		300	20	10/2,5
701846 27060	5450248 372578		350	20	10/2,8
701846 27061	5450248 372585		350	25,4	10/2,8
701846 27062	5450248 372592		400	25,4	10/3,2
701846 27063	5450248 372608		450	25,4	10/3,2
701846 27064	5450248 372615		500	25,4	10/3,8
701846 27065	5450248 372622		600	25,4	10/4,0



★★★★☆
Pro

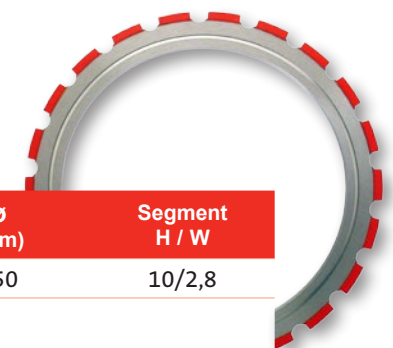
RING BETON

Special laser-welded ring blades for all petrol or hydraulic ring saws. With 10mm segment height for a long life and coloured segments for clear identification of the material to cut.

Application : concrete and reinforced concrete. For use on K3600 and K950 ring saws.



Item No	EAN 13 Code		Ø (mm)	Segment H / W
701846 29960	5450248 408536		350	10/2,8



See also RING UNI for general purpose building materials on page 25.

DIAMOND TOOLS FOR GENERAL PURPOSE BUILDING MATERIALS



Universal use - building materials

Reinforced concrete, cured concrete, kerbs, concrete pipes, bricks, block paving, flagstones and paving stones, washed gravel concrete slabs, natural stone, sandstone, limestone, flint.



DRY-CUTTING OF PAVIOURS AND SLABS Ø230mm - 2,4kW angle-grinder



DRY-CUTTING OF ROOF TILES AND LIGHT STONE SLABS Ø230mm - 2,4kW angle-grinder



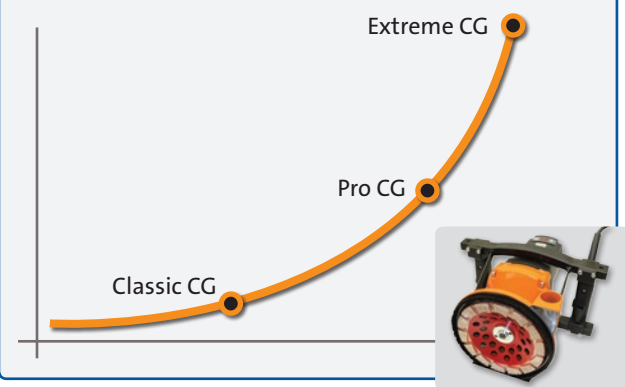
WET-CUTTING OF CONCRETE SLABS OR PAVIOURS Ø350mm - 2,2kW masonry saws



WET-CUTTING OF LARGE CONSTRUCTION BLOCKS Ø900mm - 7,5kW block saws



GRINDING OF CONCRETE SURFACE Ø125mm - 1,1kW angle-grinder



* These graphs indicate only a relative positioning of the different specifications one to another.



GENERAL BUILDING MATERIALS BLADES FOR ANGLE-GRINDERS, HANDHELD CUT-OFF SAWS AND MASONRY SAWS

EURO ZML EVO



Pro

Ø 115-500



***LASER**



Learn more about the Quickfix system on page 12.



An excellent all-round diamond blade for a wide range of building materials.

Features

10mm segment height.

Diamond shaped gullet slots.

Perforated steel core (on Ø230mm).

High grade diamond grits and new metal bond generation.

Laser welded segments.

Benefits

- Long life.
- Fast removal of cutting debris.
- Reduces heat and cools the core.
- Perfect for intensive use.
- High speed of cut for a wide range of materials.
- Optimum safety against segment lost.



EURO ZML 230mm



EURO ZML 300mm



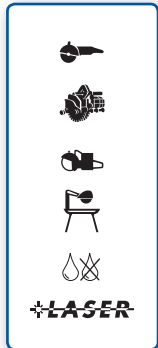
EURO ZML 350mm
on a CM501 (see page 68)



EURO ZML EVO

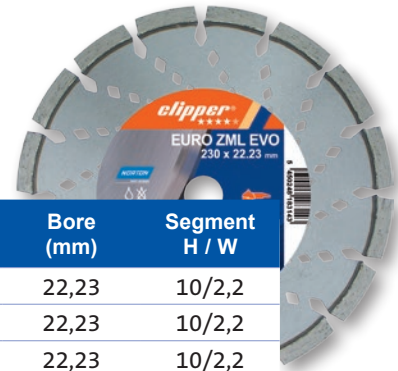
Excellent Value for money FAST CUTTING general purpose laser blade with 12mm high segments for LONG LIFE (dry or wet). Features UNIQUE DIAMOND SHAPE holes and gullets in 230mm for increased cooling and intensive use.

Application : concrete slabs and general purpose building materials.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 24738	5450248 341031		115	22,23	10/2,2
701846 24739	5450248 341048		125	22,23	10/2,2
701846 25562	5450248 346333		150	22,23	10/2,2
701846 10539	5450248 012238		150	30/2H	7/2,2
701846 25563	5450248 346357		180	22,23	10/2,5
701846 25564	5450248 346364		180	30/2H	10/2,5
701846 11396	5450248 183143		230	22,23	10/2,5
701846 22225	5450248 233190		300	20	10/2,8
701846 22314	5450248 233213		300	25,4	10/2,8
701846 22315	5450248 233220		350	20	10/2,8
701846 22227	5450248 233237		350	25,4	10/2,8
701846 25951	5450248 347996		400	25,4	10/3,2
701846 25952	5450248 348009		450	25,4	10/3,2
701846 25953	5450248 348016		500	25,4	10/3,2

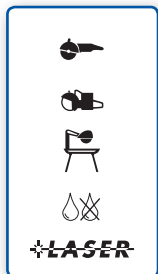
* diamond-shaped cooling holes only on 230mm



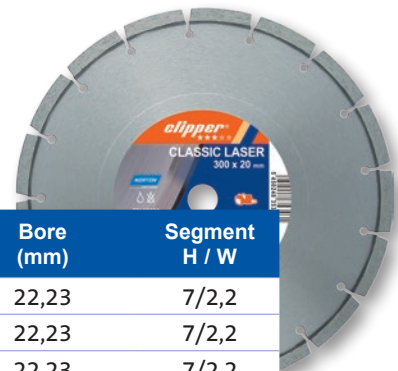
CLASSIC LASER

Good value for money laser welded diamond blade for dry or wet cutting.

Application : general purpose building materials.



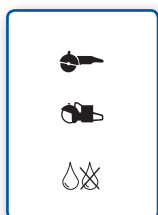
Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 26834	5450248 353409		115	22,23	7/2,2
701846 26835	5450248 353416		125	22,23	7/2,2
701846 26836	5450248 353423		150	22,23	7/2,2
701846 26837	5450248 353447		180	22,23	7/2,5
701846 26838	5450248 353454		230	22,23	10/2,5
701846 26839	5450248 353461		300	20	10/2,5
701846 26840	5450248 353478		300	25,4	10/2,5
701846 26841	5450248 353485		350	20	10/2,8
701846 26842	5450248 353492		350	25,4	10/2,8



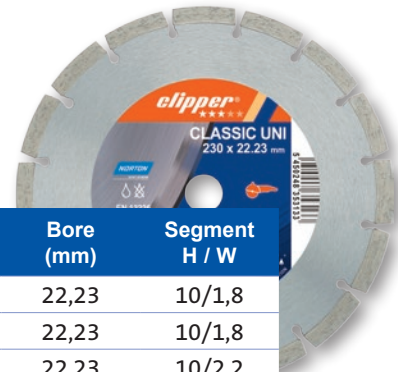
CLASSIC UNI

Value for money sintered blade for dry or wet cutting.

Application : general purpose building materials.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 26806	5450248 353096		115	22,23	10/1,8
701846 26807	5450248 353102		125	22,23	10/1,8
701846 26809	5450248 353126		180	22,23	10/2,2
701846 26810	5450248 353133		230	22,23	10/2,4
701846 26811	5450248 353157		300	20	10/3,0
701846 26813	5450248 353171		350	25,4	10/3,2





FAST & SMOOTH CUTTING OF BUILDING MATERIALS ON ANGLE-GRINDERS, HANDHELD CUT-OFF SAWS AND MASONRY SAWS

AERO JET EVO

★★★★★
Dynamic

ø 115-350



Quickfix

Learn more about the Quickfix system on page 12.



When performance meets design...

Features

12mm impregnated diamond.

Arrow shaped drop down protection segments.

Ventilated waved steel centre.

Corrugated continuous rim with premium specification.

Benefits

- Very long life.

- Steel core protection for reduced wear.
- Segments indicate the correct direction of rotation.

- Reduces heat which helps blade rigidity during dry cutting.

- Smooth cutting, easy of use and high quality of the finished cut in a very wide range of materials.



AERO JET 230mm



AERO JET 300mm



AERO JET 350mm
on a CM42 (see page 64)

Picture : ø230mm blade.

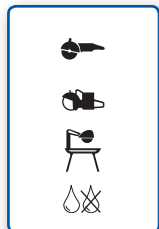


Dynamic

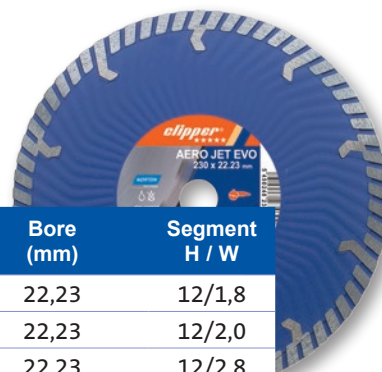
AERO JET EVO

Excellent Value for money FAST CUTTING continuous rimmed blade with 12mm high rim for LONG LIFE (dry or wet). Features EXCLUSIVE ARROW SHAPE PROTECTION inserts for straight cuts, cutting direction indication, and a waved steel core for better cooling and intensive use.

Application : very wide range of medium-hard to hard construction materials, block paviors, granite, marble, natural stone, roof tiles and hard tiles.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 23598	5450248 236863		115	22,23	12/1,8
701846 23599	5450248 330868		125	22,23	12/2,0
701846 23180	5450248 234692		230	22,23	12/2,8
701846 11230	5450248 174042		300	20	12/2,8
701846 11236	5450248 174417		300	25,4	12/2,8
701846 11427	5450248 183907		350	20	12/3,2
701846 11561	5450248 186960		350	25,4	12/3,2
701846 23448	5450248 329336		230	70/22,23 + Flange	12/2,8

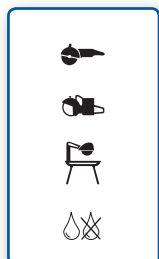


Pro

EURO JET

Good value for money continuous rimmed blade with 12mm high rim for dry or wet cutting in general purpose materials and stone. Features strong REINFORCEMENT FLANGES around the bore to ensure rigidity and STRAIGHT CUTTING under most demanding conditions.

Application : tiles, bricks, terracotta tile, clay roof tiles, block paviors, natural stone.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 10314	5450248 007616		115	22,23	12/2,1
701846 10315	5450248 007623		125	22,23	12/2,1
701846 10316	5450248 007630		150	22,23	12/2,5
701846 10317	5450248 007647		180	22,23	12/2,5
701846 10267	5450248 005223		230	22,23	12/2,8
701846 10259	5450248 004905		300	20	12/3,2
701846 10334	5450248 007982		350	20	10/2,8
701846 10336	5450248 008002		350	25,4	12/3,2

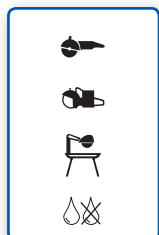


Classic

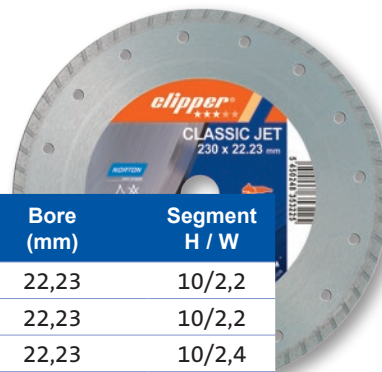
CLASSIC JET

Value for money continuous rimmed blade for dry or wet cutting.

Application : tiles, bricks, terracotta tiles, block paviors.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 26814	5450248 353188		115	22,23	10/2,2
701846 26815	5450248 353195		125	22,23	10/2,2
701846 26816	5450248 353201		180	22,23	10/2,4
701846 26818	5450248 353225		230	22,23	10/2,6
701846 26822	5450248 353263		300	20	10/3,2
701846 26824	5450248 353294		350	25,4	10/3,2
701846 26819	5450248 353232		230	70/22,23 + Flange	10/2,6





SPECIALISED BLADES FOR CUTTING GENERAL BUILDING MATERIALS ON MASONRY SAWS

FMD DUO

★★★★★
Dynamic

ø 300-500



LASER



Quickfix

Learn more about the Quickfix system on page 12.



Treat your masonry saw with the best.

Features

New 15mm high segments with improved specification.

Duo concept : two trapezoidal segments per land.

Exclusive "Arrow" shaped gullet slots.

Differentiated steel center with "Duo" cuts.

Laser welded segments.

Benefits

- Extreme long life and faster cutting in building materials.

- Excellent cutting speed
- High comfort of cut
- Low vibration

- Fast removal of cutting debris
- Permanently indicates the correct direction of rotation

- Reduces heat and cools the core
- Exclusive design by CLIPPER.

- Optimum safety against segment lost.

Picture : ø350mm blade.



FMD DUO
on a CM401 (see page 67)



FMD DUO
on a CM42 (see page 64)



FMD DUO
on a CM401 (see page 67)



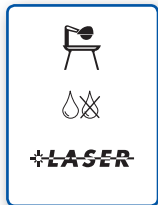
FMD DUO

A blade specifically developed for use on masonry bench saws.

Excellent value for money laser welded blades specifically designed for wet or dry cutting on masonry saws. Duo concept segments for VERY FAST cutting, and 15mm high segments for LONG LIFE. Differentiated steel center with Duo laser-cuts.

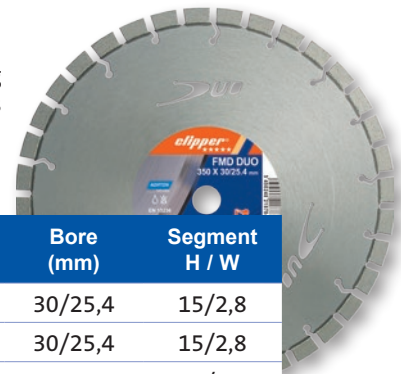
New specification and 15mm high segments for faster cutting and longer life.

Application : wide range of house building materials, from soft to hard.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 12282	5450248 218777		300 *	30/25,4	15/2,8
701846 12283	5450248 218784		350 *	30/25,4	15/2,8
701846 11438	5450248 184782		400	25,4	10/3,2
701846 11439	5450248 184799		450	25,4	10/3,2
701846 11440	5450248 184805		500	25,4	7/3,8

* Special DUO-Shape segments and Duo laser-cuts only for 300-350mm diameter blades.



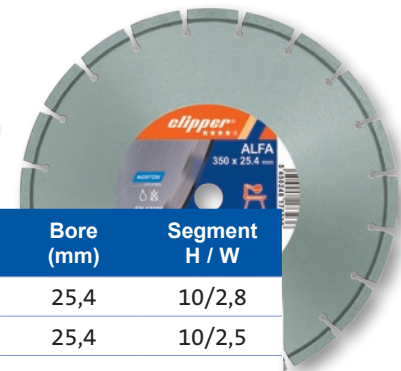
ALFA

Good value for money FAST CUTTING general purpose laser blade with 10mm high segments for LONG LIFE (dry or wet).

Application : concrete slabs and general purpose building materials.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 11209	5450248 173236		350	25,4	10/2,8
701846 10679	5450248 015277		400	25,4	10/2,5



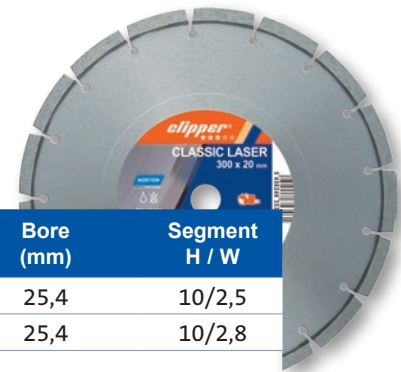
CLASSIC LASER

Good value for money laser welded diamond blade for dry or wet cutting.

Application : general purpose building materials.



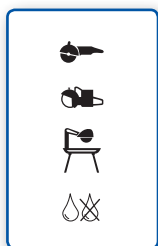
Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 26840	5450248 353478		300	25,4	10/2,5
701846 26842	5450248 353492		350	25,4	10/2,8



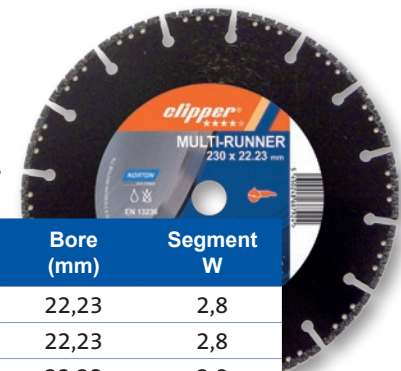
MULTI-RUNNER

Multi-material vacuum-brazed blades for dry-cutting of a wide variety of materials.

Application : general purpose building materials, concrete, asphalt roof shingles, PVC, clay and fiberglass-reinforced resin, small amount of wood, ductile iron and metals ...



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment W
701846 94459	5450248 687894		115	22,23	2,8
701846 94460	5450248 687900		125	22,23	2,8
701846 94461	5450248 687917		180	22,23	2,8
701846 94462	5450248 687924		230	22,23	3,1
701846 94463	5450248 687931		300	20	3,4
701846 94464	5450248 687948		350	25,4	3,4





SPECIALISED BLADES FOR CUTTING LARGE CONSTRUCTION BLOCKS ON BLOCK SAWS

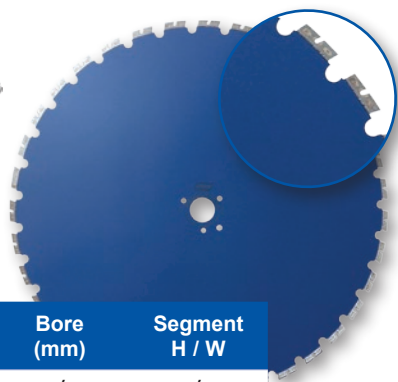
★★★★★
Dynamic

DUO BS-15



Especially designed for use on Jumbo machines and their equivalent. Premium blade with 15mm high "DUO" shape segments, for extremely fast cutting speed and longer life.

Application : construction materials, lightweight blocks, Poroton and man-made sandstone blocks, natural stone, granite.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 47651	5450248 564287		900	60/55	15/4,8



Find the new 'SILENCIO BS' silent block saw blade at page 8.



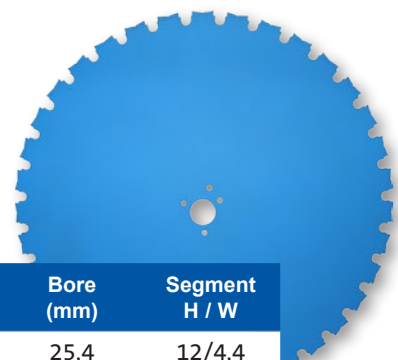
Silencio

★★★★☆
Pro

PRO BS-12

The block saw blade that has been recommended for years! Now with faster cutting speed and 12mm high segments for improved life.

Application : construction materials, lightweight blocks, Poroton and man-made sandstone blocks, Kalksandstein, natural stones.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 47258 *	5450248 564195		600	25,4	12/4,4
701846 93972	5450248 586593		625	60/55	12/4,4
701846 47265	5450248 564225		650	25,4	12/4,4
701846 47264	5450248 564218		700	60/55	12/4,4
701846 47266	5450248 564232		900	60/55	12/4,4
701846 47263	5450248 564201		1000	60/55	12/4,4

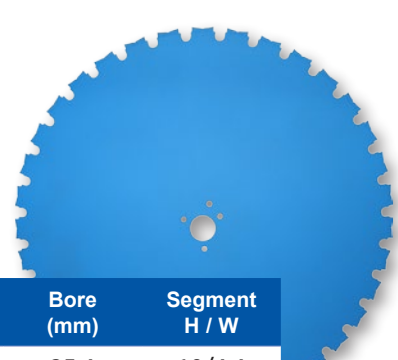
* Availability on request.

★★★☆☆
Classic

CLASSIC BS-10

Good value for money blade with 10mm high segments and fast cutting speed.

Application : construction materials and lightweight blocks, Poroton, Kalksandstein.

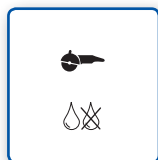


Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 47267	5450248 564249		650	25,4	10/4,4
701846 47269	5450248 564256		900	60/55	10/4,4
701846 47650	5450248 564263		1000	60/55	10/4,4

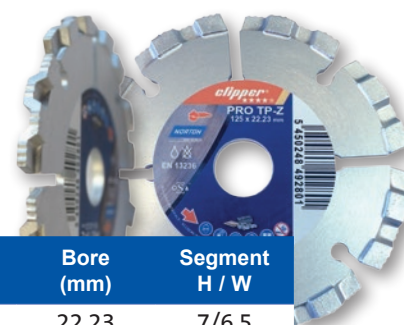
★★★★★ TP-Z Pro

Innovative mortar raker with alternated Z shape segments that reduces contact surface area for a faster cut with less friction. The i-HD technology ensure to this product a unique design, a long life and a high removal rate.

Application : Removal of mortar joints between bricks, natural stone blocks or facing bricks.



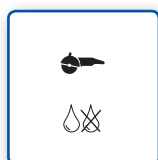
Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 01130	5450248 704553		115	22,23	7/6,5
701846 41691	5450248 492801		125	22,23	7/6,5



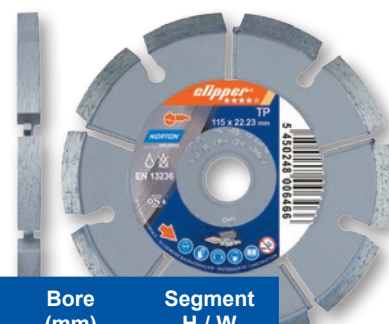
★★★★★ TP MORTAR RAKER Pro

Good value for money mortar raker with brazed segments. The mortar rakers have special THICKER SEGMENTS adapted to the mortar joints thickness. The hard-metal protection inserts prevent under-cutting of the steel-center and contribute to getting the longest life.

Application : removal of mortar joints between bricks, natural stone blocks or facing bricks.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 10712	5450248 047063		115	22,23	6,5/4,5
701846 10713	5450248 047070		125	22,23	6,5/4,5
701846 10305	5450248 006466		115	22,23	6,5/6,5
701846 10307	5450248 006534		125	22,23	6,5/6,5
701846 10715	5450248 047094		115	22,23	6,5/8,0
701846 10716	5450248 047100		125	22,23	6,5/8,0



★★★★★ TP-V CRACK-CHASER Pro

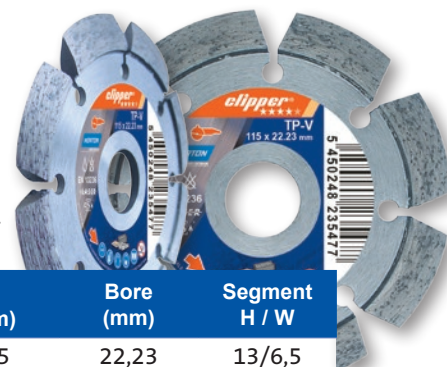
Special tool for the REPAIR OF CRACKS in floors and walls.

The V-shape segments widen the crack in-depth and allow the repair with mortar.

Application : concrete floors and walls, masonry walls, plaster boards.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 24198	5450248 235477		115	22,23	13/6,5
701846 24199	5450248 235484		125	22,23	13/6,5



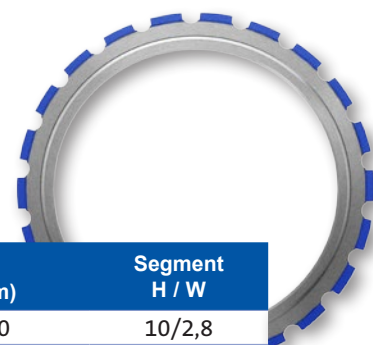
★★★★★ RING UNI Pro

Special laser-welded ring blades for all petrol or hydraulic ring saws. With 10mm segment height for a long life and coloured segments for clear identification of the material to cut.

Application : general purpose building materials.



Item No	EAN 13 Code		Ø (mm)	Segment H / W
701846 29961	5450248 408543		350	10/2,8



See also RING BETON for reinforced concrete on page 16.



NEW iHD TECHNOLOGY GRINDING CUP RANGE FOR CONCRETE AND BUILDING MATERIALS



EXTREME CG



Dynamic

ø 100-180



**UNIQUE
SEGMENT DESIGN.
LOW VIBRATIONS
BETTER COMFORT**



Choose your specification depending on the hardness of your material.

Features

Infiltrated High Density segments
Patented technology made in Luxemburg
Unique segment design, large grinding surface
3 specifications
3 diameters at 22,23mm bore size
Thick body
Big ventilation holes
Good balance

Benefits

- Longer life, faster grinding
- An innovative and high quality product
- Better comfort, low vibrations
- For all applications and needs
- Optimized for all popular angle grinders
- Better safety
- Better cooling
- Better comfort, low vibrations



Counter Display 00510126407



For angle grinders but also for our CG125 and CG180 grinding machines! (see pages 137-138)



★★★★★ Extreme CG

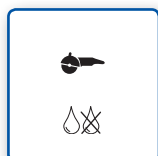
Dynamic

The Extreme CG grinding cup ensures a very high removal rate, extreme comfort of work without vibration and self-sharpening feature.

These **new** i-HD cups offer you the BEST FINISHING and LONGEST LIFE even in abrasive materials. The 'flat' version in 125mm is suitable on all vacuum grinders.

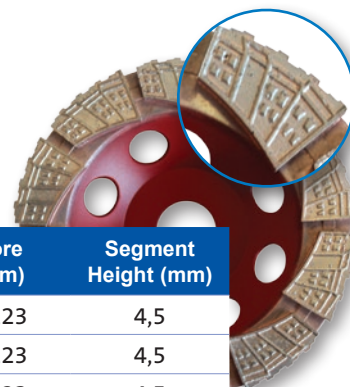
Application: surfacing of construction and building materials with the best finish (concrete, reinforced concrete, natural stone, abrasive materials).

User: tilers, general builders, concrete flooring contractors, swimming pool installers.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment Height (mm)
701846 94991	5450248 697343		100	22,23	4,5
701846 94993	5450248 697367		125	22,23	4,5
701846 94994	5450248 697374		180	22,23	4,5
701846 94992	5450248 697350		125 FLAT	22,23	4,5

The flat version in 125mm is suitable to all vacuum grinders.



★★★★☆ Pro CG

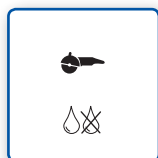
Pro

The Pro CG grinding cup ensures a high removal rate and a good comfort of work. These

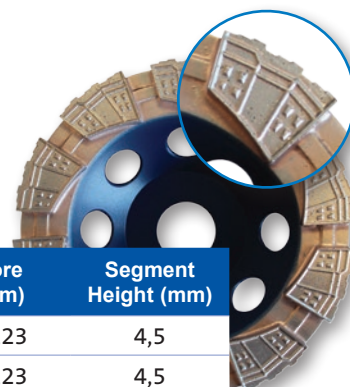
new i-HD cups offer you a GOOD FINISHING and a LONG LIFE in a wide range of materials

Application: Surfacing of MEDIUM HARDNESS construction and building materials (concrete, reinforced concrete, natural stone).

User: tilers, general builders, concrete flooring contractors, swimming pool installers.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment Height (mm)
701846 94988	5450248 697312		100	22,23	4,5
701846 94989	5450248 697329		125	22,23	4,5
701846 94990	5450248 697336		180	22,23	4,5



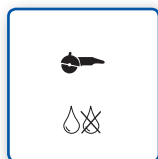
★★★★☆ Classic CG

Classic

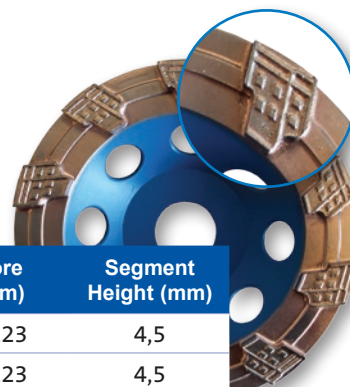
The Classic CG is a good value for money grinding cup. Due to the small contact surfaces of the segments, these **new** i-HD cups offer a strong attack on the harder materials for an efficient removal rate. These cups have flat sides to avoid damaging walls or ceilings during flush grinding.

Application: for surfacing of the HARDER construction and building materials (concrete, reinforced concrete, natural stone).

User: tilers, general builders, concrete flooring contractors, swimming pool installers.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment Height (mm)
701846 94995	5450248 697381		100	22,23	4,5
701846 94996	5450248 697398		125	22,23	4,5
701846 01079	5450248 699293		180	22,23	4,5





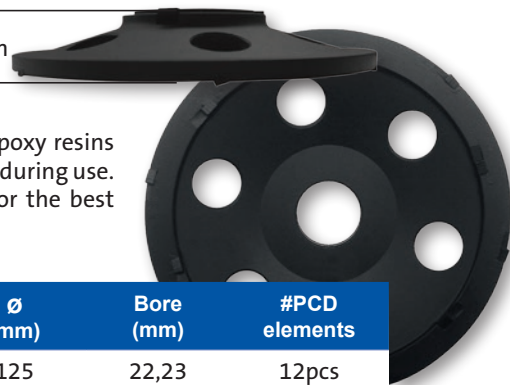
SPECIALTY CUP GRINDERS



Pro

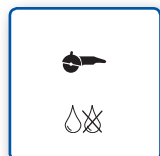
PRO CG-PCD low vibration

H = 18mm



PolyCrystalline Diamond cup wheel, designed for the fast removal of glue, epoxy resins & paint. The embedded **anti-vibration system** provides a much better comfort during use. We recommend the use of a concrete cup wheel after using PCD wheels for the best finishing result.

Application : removal of epoxy, glue, paint covering hard surfaces.



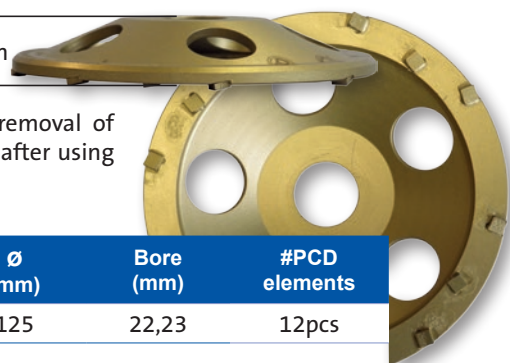
Item No	EAN 13 Code		Ø (mm)	Bore (mm)	#PCD elements
701846 45886	5450248 535492		125	22,23	12pcs



Classic

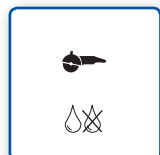
CLASSIC CG-PCD

H = 19mm



Cost-effective PolyCrystalline Diamond cup wheel, designed for the fast removal of glue, epoxy resins & paint. We recommend the use of a concrete cup wheel after using PCD wheels for the best finishing result.

Application : removal of epoxy, glue, paint covering hard surfaces.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	#PCD elements
701846 93445	5450248 577317		125	22,23	12pcs

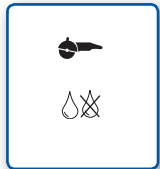


CUT' N GRIND

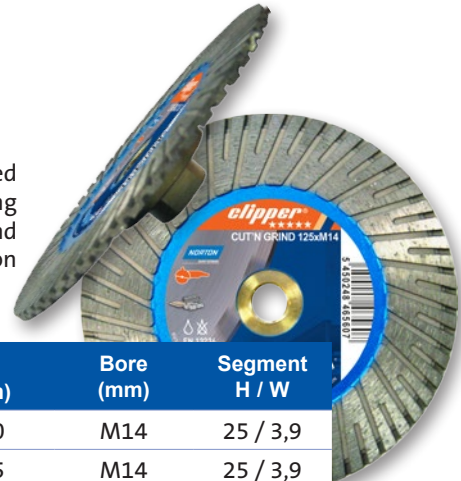
Pro

Multi-purpose tool for CUTTING AND GRINDING of building materials. Sintered Turbo shape, for a fast material removal rate and good finishing quality in cutting and grinding. Norton Cut'n Grind can be used for the same applications as diamond blades and diamond cup grinders. Equipped with an aluminium flange in connection M14 for offset cutting and grinding.

Application : concrete, washed concrete, blocks, ductile iron and natural stones.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 41171	5450248 465591		100	M14	25 / 3,9
701846 41172	5450248 465607		125	M14	25 / 3,9

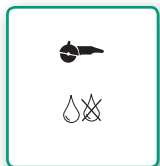


PRO SURF

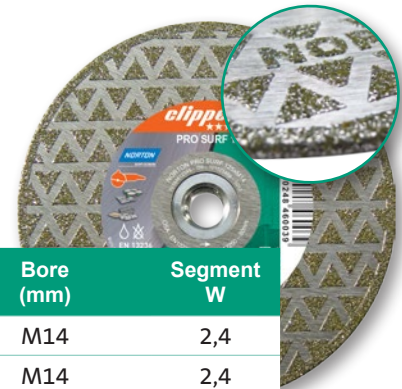
Pro

Best fitted for CUTTING AND GRINDING of natural stone. Electroplated continuous rim, to allow the smoothest cut and grind. Norton Pro Surf can be used in replacement of both a diamond blade and a diamond cup grinder. Equipped with an aluminium flange.

Application : natural stone, granite, marble, tiles, roof tiles, plastics, resins and ductile iron.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment W
701846 40590	5450248 460022		115	M14	2,4
701846 40591	5450248 460039		125	M14	2,4
701846 40592	5450248 460046		230	70/22,23 + Flange	2,8



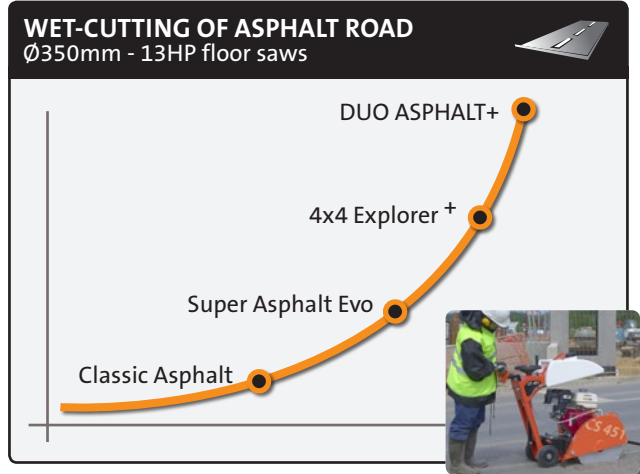
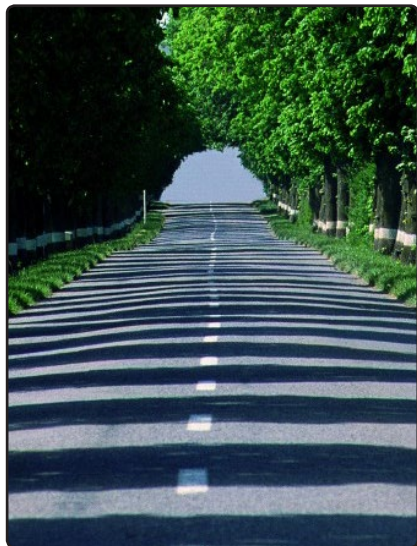


DIAMOND TOOLS FOR ASPHALT & ABRASIVE MATERIALS



Asphalt and abrasive materials

Asphalt, asphalt over concrete, green concrete, bitumen, cement joints, breeze blocks, Lignacite blocks.



** These graphs indicate only a relative positioning of the different specifications one to another.*



ASPHALT & ABRASIVE MATERIALS DIAMOND BLADES FOR CUT-OFF HANDHELD SAWS AND FLOOR SAWS UP TO 20HP

NEW

DUO ASPHALT+

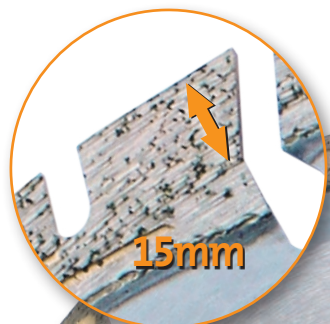


★★★★★
Dynamic

Ø 300-500



LASER



15mm



WAY OF
ROTATION



Quickfix

Learn more about
the Quickfix system on page 12.



The leading performance with the best undercutting protection.

Features

15mm segment height.

Patented depth of cut indicator with stroboscope effect.

8 high wear protection segments.

Duo concept : two trapezoidal segments.

Exclusive "Arrow" shaped.

Wide gullet slot.

Benefits

- Exceptionally long life.

- Depth control allowing life increase.
- Direction of rotation permanently marked.

- Extreme protection of the steel center from under-cutting.
- Extended life.

- Excellent cutting speed and low vibration.
- High comfort of cut.

- Fast removal of cutting debris.

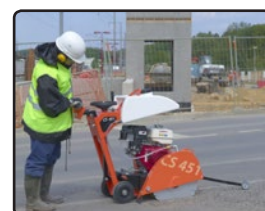
- Permanently indicates the correct direction of rotation.



DUO ASPHALT+ 300mm



DUO ASPHALT+ 350mm



DUO ASPHALT+ 350mm
on a CS451 (see page 82)



DUO ASPHALT+

NEW



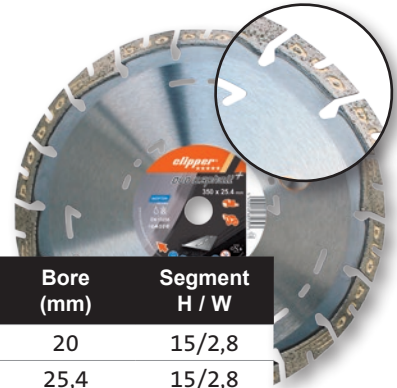
With depth of cut and way of rotation indicators up to 450mm.

UNIQUE laser welded blade suitable for ASPHALT and ABRASIVE MATERIALS. Due to its innovative design, the DUO Asphalt is EASY TO USE, extremely FAST CUTTING and guarantees an ACCURATE CUT and VERY LONG LIFE. Featuring patented DEPTH INDICATOR for blade life monitoring and indication of cutting direction (up to diameter 450mm). Multiple drop segments for a safer and longer life. Ideal for all high speed saws and floor saws up to 20Hp.

Application : asphalt, asphalt over concrete, green concrete and abrasive building materials.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 94907	5450248 695608		300	20	15/2,8
701846 94537	5450248 689393		350	25,4	15/2,8
701846 94911	5450248 695615		400	25,4	15/2,8
701846 94912	5450248 695622		450	25,4	15/3,2
701846 94913	5450248 695639		500	25,4	15/2,8



SUPER ASPHALT EVO

With depth of cut and way of rotation indicators up to 450mm.

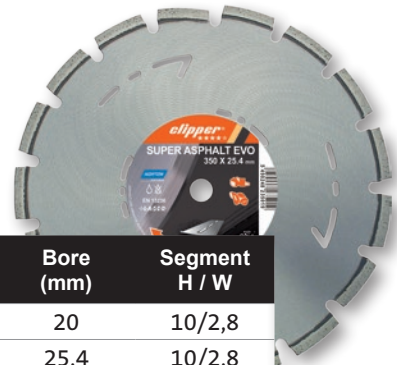
Very good value for money laser welded blade for intensive use and LONG LIFE in Asphalt and abrasive materials (dry or wet cutting). Featuring patented DEPTH INDICATOR for blade life monitoring and indication of cutting direction (up to diameter 450mm).

Undercutting protection on the steel center thanks to slant segments.

Application : asphalt, asphalt over concrete, green concrete and abrasive building materials.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 23182	5450248 234975		300	20	10/2,8
701846 23184	5450248 234999		300	25,4	10/2,8
701846 23185	5450248 235002		350	20	10/3,2
701846 23186	5450248 235019		350	25,4	10/3,2
701846 28159	5450248 391531		400	25,4	10/3,2
701846 28160	5450248 391548		450	25,4	10/3,2
701846 11979	5450248 204350		500	25,4	10/3,8
701846 11980	5450248 204367		600	25,4	7/3,8



CLASSIC ASPHALT

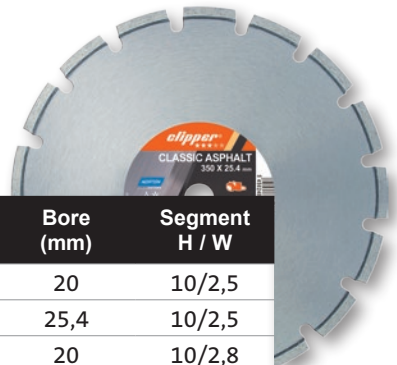
Good value for money laser welded blade for dry or wet cutting.

Application : asphalt, asphalt over concrete, green concrete, abrasive materials and concrete roof tiles.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 26876	5450248 353706		300	20	10/2,5
701846 26877	5450248 353713		300	25,4	10/2,5
701846 26878	5450248 353737		350	20	10/2,8
701846 26879	5450248 353744		350	25,4	10/2,8
701846 45242	5450248 528043		400	20	10/3,2
701846 26880	5450248 353751		400	25,4	10/3,2
701846 26881	5450248 353768		450	25,4	10/3,2
701846 94416 *	5450248 687429		500	25,4	10/3,4
701846 94417 *	5450248 687436		600	25,4	10/3,6

* 500-600mm with undercutting protection segments





SPECIALTY DIAMOND BLADES FOR GREEN CONCRETE



Pro

M45 EVO - GREEN CONCRETE

Laser welded segments for wet cutting.

Wear Protection segments to help prevent under-cutting of the steel centre.

Application : green concrete, Lignacite and Tarmac top blocks.

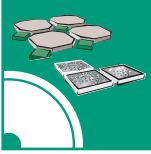


Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 24684	5450248 237815		300	25,4	10/2,5
701846 24685	5450248 237822		350	25,4	10/2,8



Norton 4x4 Explorer+ is also an excellent diamond blade for cutting asphalt & abrasive materials. Learn more at page 10.

DIAMOND TOOLS FOR CERAMIC TILES, NATURAL STONES & GLAZED MATERIALS

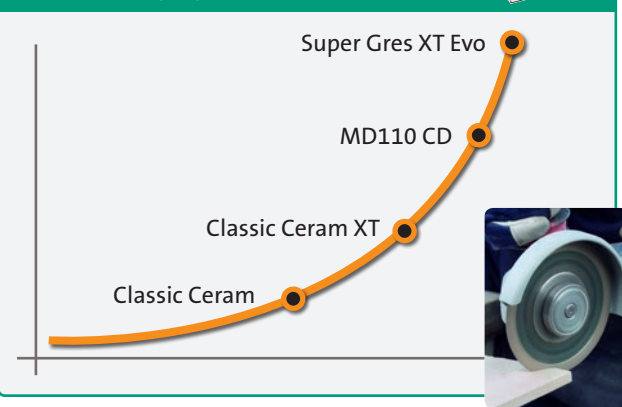


Natural stone and tiles

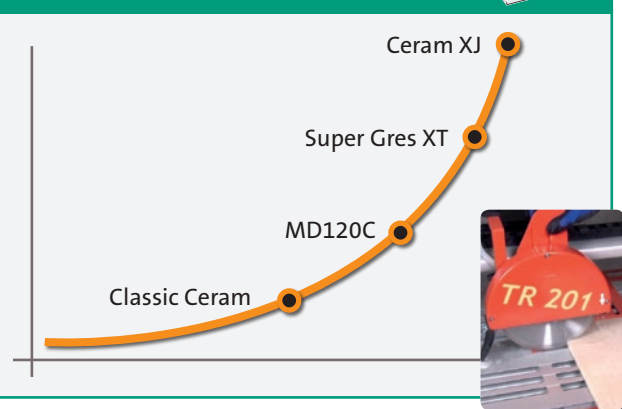
Granite, marble, slate, hard natural stone, tiles - porcelain, ceramic, vitrified reconstituted stone.



DRY-CUTTING OF CERAMIC TILES Ø125mm - angle grinder



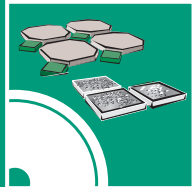
WET-CUTTING OF CERAMIC TILES Ø200mm - 1,1kW rail tile saw



WET-CUTTING OF NATURAL STONE Ø350mm - 2,2kW masonry saw



* These graphs indicate only a relative positioning of the different specifications one to another.



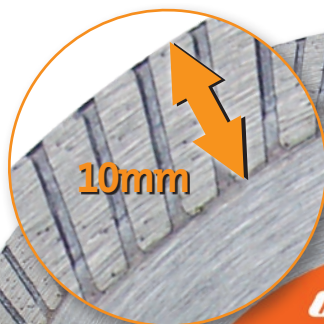
CERAMIC TILES & NATURAL STONES BLADES FOR DRY-CUTTING ON ANGLE-GRINDERS

SUPER GRES XT EVO

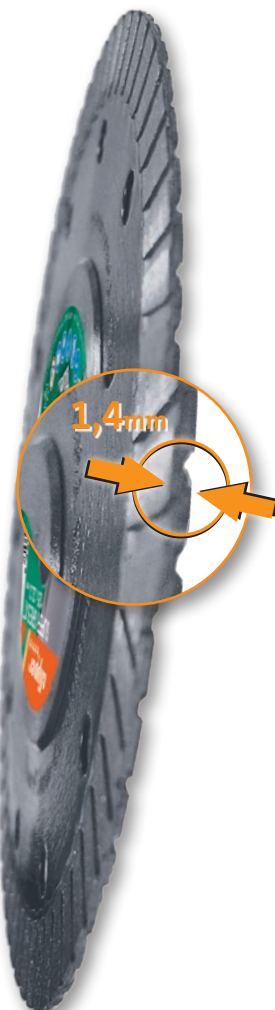


Dynamic

Ø 115-230



10mm



1,4mm



Quality cutting of hard ceramic tiles.

Features

10mm diamond rim height.

1,4mm thick.

Continuous rim.

Reinforced flange on steel centre.

Premium diamond grade and free cutting metal bond.

Benefits

- Extended life.

- Fast cutting.
- Less material wastage.

- Quality of the finished cut.

- Straight cut without causing damages even in the hardest types of tiles, porcellenato and stone.

- Perfect cut in the hardest tiles.



SUPER GRES XT EVO 125mm



SUPER GRES XT EVO 115mm



SUPER GRES XT EVO
on a TR230GS (see page 96)

Picture: Ø125mm blade.

✂️ FOR DRY CUTTING

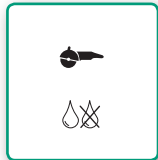
★★★★★ **SUPER GRES XT EVO**

Dynamic

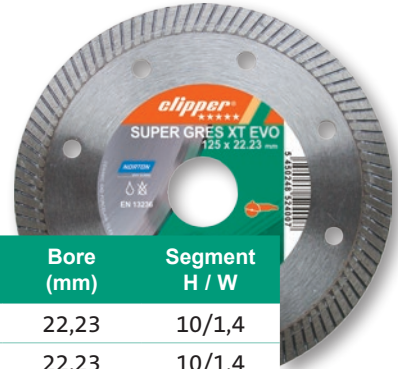
Excellent value for money turbo jet continuous rim diamond blade with an ultra thin steel centre for high speed dry or wet cutting, designed for low material wastage. For use with hand held electric machines and rail tile saws.

New design and specification in Ø115 and Ø125mm for a more precise cut.

Application : porcelain, ceramic, vitrious, marble, terracota, granite, slate, reconstituted stone, floor and wall tiles.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 44759	5450248 523994	✂️	115	22,23	10/1,4
701846 44760	5450248 524007	✂️	125	22,23	10/1,4
701846 21970	5450248 232193	✂️	180	22,23	10/1,4
701846 21973	5450248 232186	✂️	230	22,23	10/1,4



★★★★☆ **MD 110 CD**

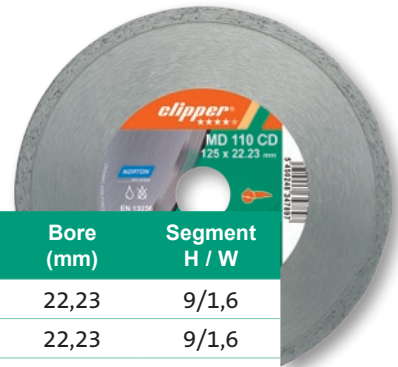
Pro

Good value for money continuous diamond rim for hand held machines can be used for dry or wet cutting.

Application : ceramics, granite, marble, slate, quarry tiles.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 25942	5450248 347927	✂️	115	22,23	9/1,6
701846 25940	5450248 347897	✂️	125	22,23	9/1,6
701846 25944	5450248 347941	✂️	180	22,23	9/1,7
701846 25946	5450248 347965	✂️	230	22,23	9/2,2

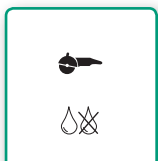


★★★★☆ **CLASSIC CERAM XT**

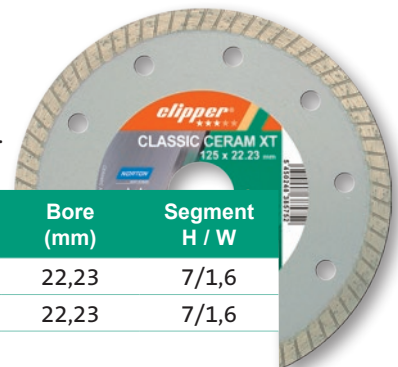
Classic

Turbo jet continuous rim diamond blade for faster & smoother cutting of hard ceramic tiles.

Application : porcelaine and ceramic tiles, for use with hand held electric machines.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 27645	5450248 385745	✂️	115	22,23	7/1,6
701846 27646	5450248 385752	✂️	125	22,23	7/1,6



★★★★☆ **CLASSIC CERAM**

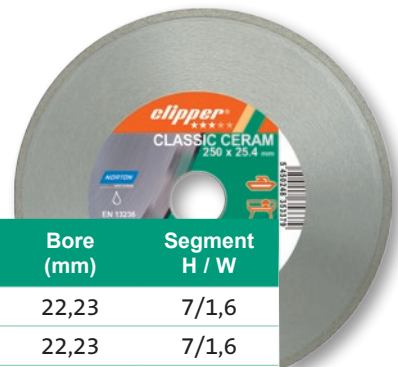
Classic

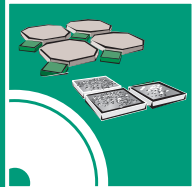
Value for money smooth continuous rim diamond blade for dry or wet cutting.

Application : medium hard tiles and ceramic tiles.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 26825	5450248 353317	✂️	115	22,23	7/1,6
701846 26826	5450248 353324	✂️	125	22,23	7/1,6
701846 26828	5450248 353348	✂️	180	25,4/22,23	7/1,7
701846 26830	5450248 353362	✂️	230	22,23	7/1,8





CERAMIC TILES & NATURAL STONES BLADES FOR WET-CUTTING ON TILE SAWS & MASONRY SAWS

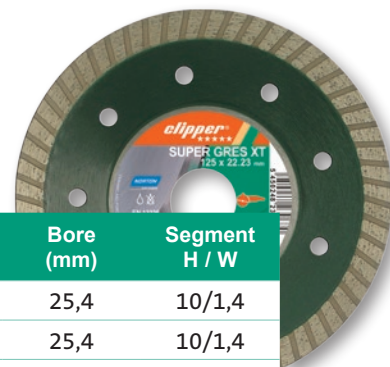


SUPER GRES XT

Dynamic

Excellent value for money turbo jet continuous rim diamond blade with an ultra thin steel centre for high speed dry or wet cutting, designed for low material wastage. For use with hand held electric machines and rail tile saws.

Application : porcelain, ceramic, vitrious, marble, terracota, granite, slate, reconstituted stone, floor and wall tiles.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 25427	5450248 345756		200	25,4	10/1,4
701846 27653	5450248 385813		230	25,4	10/1,4
701846 25428	5450248 345763		250	25,4	10/1,6
701846 45565 *	5450248 531586		250	30	10/1,6
701846 25429	5450248 345787		300	25,4	10/1,9
701846 45566 *	5450248 531593		300	30	10/1,6

* Availability on request.



The Clipper SUPER GRES XT is not suitable for the TT table tile saws.

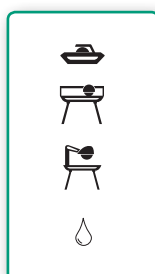
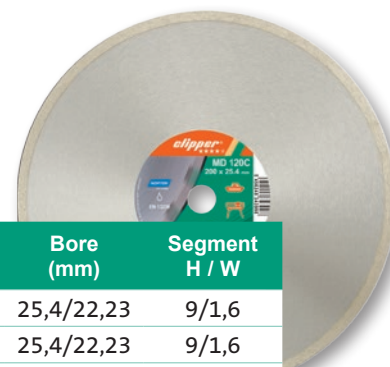


MD 120C

Pro

Continuous rimmed diamond blade for wet cutting with all types of tile cutting machines.

Application : ceramics, granite, marble, slate, quarry tiles.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 25560	5450248 346319		150	25,4/22,23	9/1,6
701846 25561	5450248 346326		180	25,4/22,23	9/1,6
701846 25093	5450248 343998		200	25,4	9/1,6
701846 25094	5450248 344001		200	30/25,4	9/1,6
701846 25096	5450248 344025		230	25,4	9/1,6
701846 25097	5450248 344032		250	25,4	9/1,6
701846 25098	5450248 344049		300	25,4	9,5/2,0
701846 25100	5450248 344063		350	25,4	9,5/2,0



CLASSIC CERAM

Classic

Value for money continuous rimmed diamond blade for dry or wet cutting.

Application : medium hard tiles and ceramic tiles.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 26828	5450248 353348		180	25,4/22,23	7/1,7
701846 26829	5450248 353355		200	30/25,4	7/1,7
701846 28734	5450248 396499		230	25,4	7/1,8
701846 26831	5450248 353379		250	25,4	7/1,8
701846 26832	5450248 353386		300	25,4	7/2,1
701846 26833	5450248 353393		350	25,4	7/2,1

FOR WET CUTTING

★★★★★ CERAM XJ

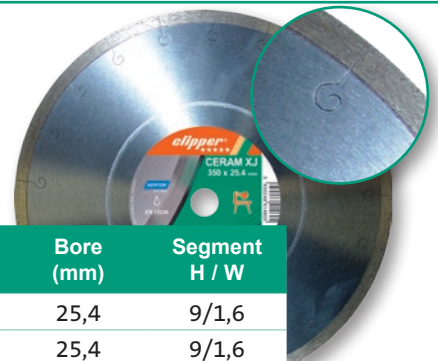
Dynamic

Continuous rimmed sintered diamond blade for wet cutting on masonry saws. With thin laser-cut slots to allow blade cooling and smoother cut.

Application : glazed ceramic tiles, granite, marble, slate, quarry tiles.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 47047	5450248 554608		200	25,4	9/1,6
701846 44431	5450248 522409		230	25,4	9/1,6
701846 44432	5450248 522416		250	25,4	9/1,6
701846 30334	5450248 414599		300	25,4	9/2,0
701846 30335	5450248 414605		350	25,4	9/2,0



★★★★☆ MARMO PRO

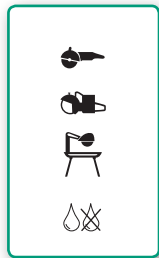
Pro

Electroplated diamond blade.

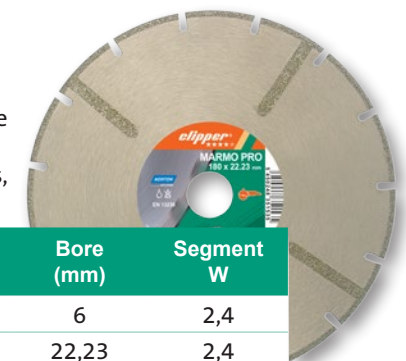
The specific manufacturing process allows the SMOOTHEST CUT IN HARD MATERIALS.

The drop-down diamond inserts on the steel center clean the cutting profile to ensure the best quality of cut.

Application : for fast and smooth cutting of MARBLE and soft brittle natural stones, plastics, composite materials, fiber-glass resins.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment W
701846 29965	5450248 408567		50	6	2,4
701846 26663	5450248 351498		115	22,23	2,4
701846 26666	5450248 351528		125	22,23	2,4
701846 26668	5450248 351542		230	22,23	2,8
701846 20243	5450248 298533		300	25,4	2,9
701846 20244	5450248 298557		350	25,4	2,9



★★★★☆ PRO GLASS

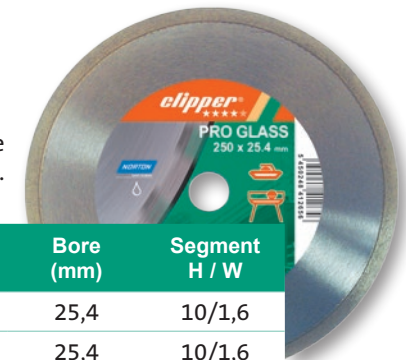
Pro

Continuous rimmed diamond blade for wet cutting of glass and glazed materials. The dedicated specification provides the best quality of cut on glass or vitreous materials.

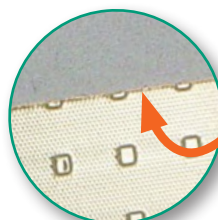
Application : glass, textured glass tiles, glazed ceramic tiles.



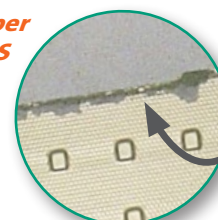
Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 30184	5450248 412618		180	25,4	10/1,6
701846 30185	5450248 412625		200	25,4	10/1,6
701846 30187	5450248 412649		230	25,4	10/1,6
701846 30188	5450248 412656		250	25,4	10/1,6



We recommend the use of Clipper PRO GLASS for cutting the new Saint-Gobain "Feeling" range of decorative glass tiles.

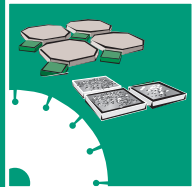


With Clipper
PRO GLASS



With a standard
ceramic
tile blade

<http://exprover.saint-gobain-glass.com/product/325/feeling>



NATURAL STONES BLADES FOR DRY-CUTTING ON ANGLE-GRINDERS & HANDHELD CUT-OFF SAWS

DUO GRANIT+

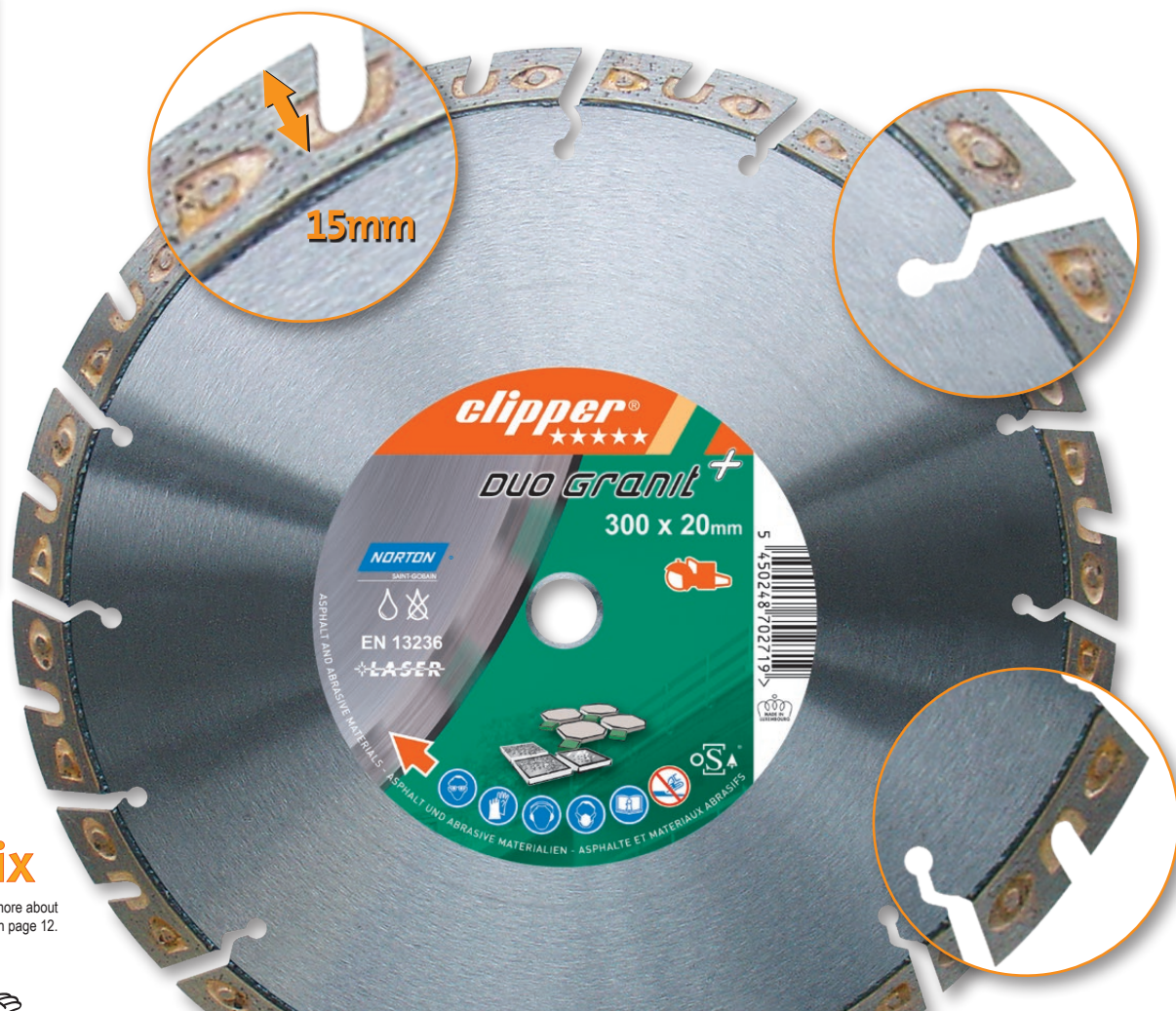


Dynamic

Ø 230-350



LASER



Learn more about
the Quickfix system on page 12.



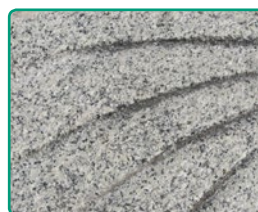
A specialist blade for cutting granite and natural stone on masonry and petrol handheld saws.

Features	Benefits
15mm segment height.	• Very long life.
Innovative specification.	• Especially designed for the cutting of hard materials like granite or natural stones.
Exclusive "Arrow" shaped gullet slots.	• Permanently indicates the correct direction of rotation. • Easier remove of cutting debris.
Duo concept : two trapezoidal segments.	• Excellent cutting speed. • Smooth cut. • Low vibration.
Laser welded segments	• Optimum safety against segment lost.

Picture : Ø300mm blade.



DUO GRANIT 300mm



Granit



DUO GRANIT 350mm
on a CM401 (see page 67)



DUO GRANIT+

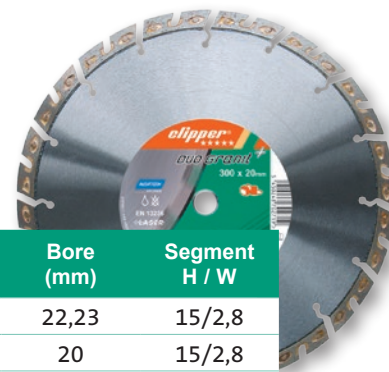
Dynamic

DUO-shape 15mm high laser-welded segments.

The Duo-shape trapezoidal segments provide an excellent cutting speed and LOW VIBRATIONS, to get the best cutting comfort for the operator. An innovative specification especially designed for the cutting of HARD MATERIALS like granite and natural stones.

With exclusive arrow-shape gullet slots to indicate the correct way of rotation.

Application : granite, natural stone, concrete slabs and blocks.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 01172	5450248 702702		230	22,23	15/2,8
701846 01173	5450248 702719		300	20	15/2,8
701846 01174	5450248 702726		350	25,4	15/2,8



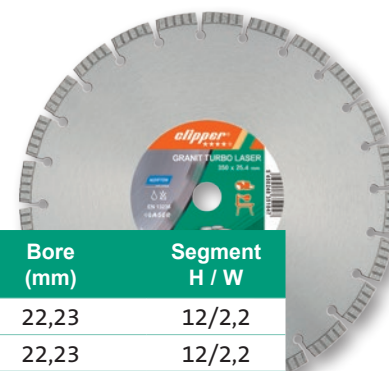
GRANIT TURBO LASER

Pro

Very good value for money laser-welded blade, for both wet or dry cutting.

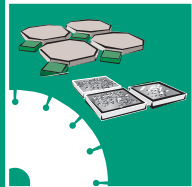
The 12mm segment height provides a VERY LONG LIFE, while the corrugated segment shape generates reduced friction and HIGHER CUTTING SPEED. Fast cutting speed in a wide range of materials, especially designed to perform in granite and hard stones.

Application : granite, engineering bricks, hard paviments, slate, concrete slabs.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 26525	5450248 350859		115	22,23	12/2,2
701846 26526	5450248 350866		125	22,23	12/2,2
701846 26527	5450248 350873		180	22,23	12/2,4
701846 26528	5450248 350996		230	22,23	12/2,6
701846 26530	5450248 351016		300	20	12/3,2
701846 26529	5450248 351009		300	25,4	12/3,2
701846 26531	5450248 351023		350	20	12/3,2
701846 26532	5450248 351047		350	25,4	12/3,2
701846 26533	5450248 351054		400	25,4	12/3,2
701846 29653	5450248 405436		230	70/22,23 + Flange	12/2,6





NATURAL STONES & HARD MATERIALS BLADES FOR WET-CUTTING ON MASONRY SAWS

SUPER STRADALIT EVO

★★★★★
Dynamic

Ø 350-400



LASER



A long lasting blade for the wet-cutting of hard engineered bricks like Stradalit on masonry saws.

Features

Adapted specification for extremely hard and not abrasive materials.

Laser-cuts in the steel centre

10mm high, laser-welded segments

Arrow-shape water gullets.

Benefits

- Best suitable blade for cutting Stradalit, hard clay paviments, engineered bricks on masonry saws.
- Reduces the cutting noise, which is especially beneficial when working in-door.
- For a long product life and optimum safety.
- Indicate the proper way of rotation.



Cutting engineered brick.



Typical application :
hard clay paviments.



Super Stradalit Evo
on the CM42 (see page 64)

Picture : Ø350mm blade.



SUPER STRADALIT EVO

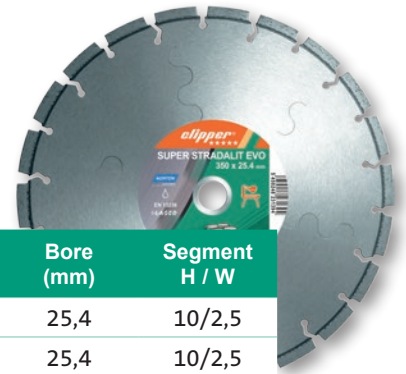
Dynamic

Laser-welded, 10mm high segments, with silent steel-center. High performance wet cutting blade.

Application : very hard natural stone, cured clay paviers and engineering bricks, for wet cutting on masonry saws.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 21132	5450248 231394		350	25,4	10/2,5
701846 23047	5450248 326014		400	25,4	10/2,5



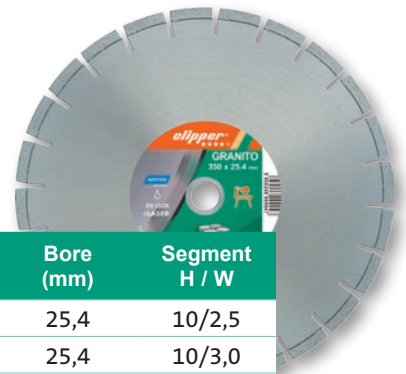
GRANITO

Pro

Quality value for money blade suitable for granite, marble and natural stone products on masonry saws.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 10384	5450248 009030		300	25,4	10/2,5
701846 10385	5450248 009047		350	25,4	10/3,0
701846 10386	5450248 009054		400	25,4	10/3,2
701846 10436	5450248 010142		450	25,4	10/3,4
701846 10437	5450248 230755		500	25,4	7/3,2
701846 10438	5450248 230748		600	25,4	7/4,4



PRO STONE

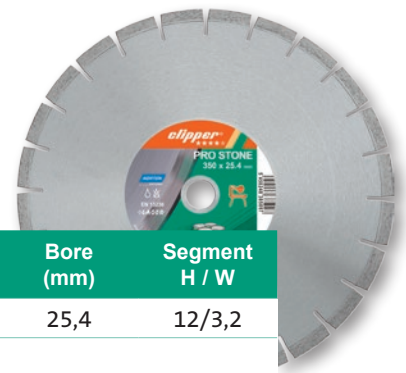
Pro

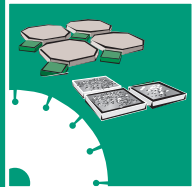
Good value for money laser-welded blade, for use on masonry bench saws.

Application : granite, marble, engineering bricks, hard paviers, concrete slabs.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 27578	5450248 385097		350	25,4	12/3,2





CERAMIC TILES & NATURAL STONES DRILL BITS



Diamond Tile Drills

Electroplated diamond drills designed for drilling all types of tiles found in the industry, will also give outstanding performance on hard and brittle materials such as marble, granite, porcelain.

Ø 10mm connection for 3-jaw chuck power drills. For dry or wet drilling.



Item No	EAN 13 Code	Ø
3103 05776	5450248 344896	6mm
3103 05777	5450248 344902	8mm
3103 05778	5450248 344919	10mm
3103 05780	5450248 344933	12mm
3103 05792	5450248 345077	14mm
3103 05793	5450248 345084	28mm
3103 05794	5450248 345091	35mm
3103 16728	5450248 350118	45mm
3103 16729	5450248 350125	68mm
3103 16730	5450248 350132	82mm
3103 01580	5450248 348498	3-Pack 6/8/10mm
3100 74148	5450248 373612	Vacuum asorption centering tool 6/8/10/12



Pro CERAM VB Dry

Vacuum-brazed diamond drills designed for dry-drilling of hard ceramic tiles and natural stones. M14 connection for fitting directly onto angle-grinders.



Item No	EAN 13 Code	Ø
701846 47338	5450248 558699	6xM14
701846 47339	5450248 558705	8xM14
701846 47340	5450248 558712	10xM14
701846 47341	5450248 558729	12xM14
701846 45760	5450248 534099	20xM14
701846 45761	5450248 534105	28xM14
701846 45762	5450248 534112	35xM14
701846 45763	5450248 534129	45xM14
701846 94357	5450248 685593	50xM14
701846 46255	5450248 540472	55xM14
701846 45764	5450248 534136	68xM14
701846 45765	5450248 534143	82xM14
701846 94328	5450248 685029	Suitcase pack containing dia. 20, 28, 35, 50, 68mm + mounting wrench



Accessories

Description	Item No	EAN 13 Code
Centering device for large diameters	701846 45766	5450248 534167
M14-Hex adaptor	3104 64939	5450248 685708





The CLIPPER Solutions

DRILLING CORE BITS



BUILDING MATERIALS - DRY Core Bits ✂



PLUMBER KIT
★★★★★
PAGE 46



ARID 7
★★★★★
PAGE 47



ARID 5
★★★★★
PAGE 47



PRO ARID D5
★★★★★
PAGE 48



CLASSIC ARID D5
★★★★★
PAGE 48



DD5 GOLD
★★★★★
PAGE 49



CLASSIC CDT
★★★★★
PAGE 49



CERAMIC TILES & NATURAL STONES



DIAMOND TILE DRILLS
★★★★★
PAGE 44



PRO CERAM VB DRY
★★★★★
PAGE 44



PRO CB GRANIT
★★★★★
PAGE 54



CONCRETE & CONCRETE PRODUCTS - WET Core Bits 💧



PRO CB BETON XT
★★★★★
PAGE 54



X3
★★★★★
PAGE 50



PRO CB BETON (Segm.)
★★★★★
PAGE 51



PRO CB DETON (Crown)
★★★★★
PAGE 52



CLASSIC CB BETON
★★★★★
PAGE 53



ROBO FORSHEDA
★★★★★
PAGE 55



DRY DRILLING CORE BITS

Building Materials

PLUMBER KIT - ARID5

Dry diamond core drills are used to create holes quickly and neatly in brick and block, usually to allow pipework through walls.

Dry drilling is a fairly simple process requiring a drill motor of min 800W equipped with a clutch.

Power drills or drilling motors with three jaw chucks, SDS and ½" BSP fittings can all be used with Norton dry diamond cores once the correct adaptor has been chosen. Accessories like length extensions or dust-swivel can also be fitted (see page 124).



Classic



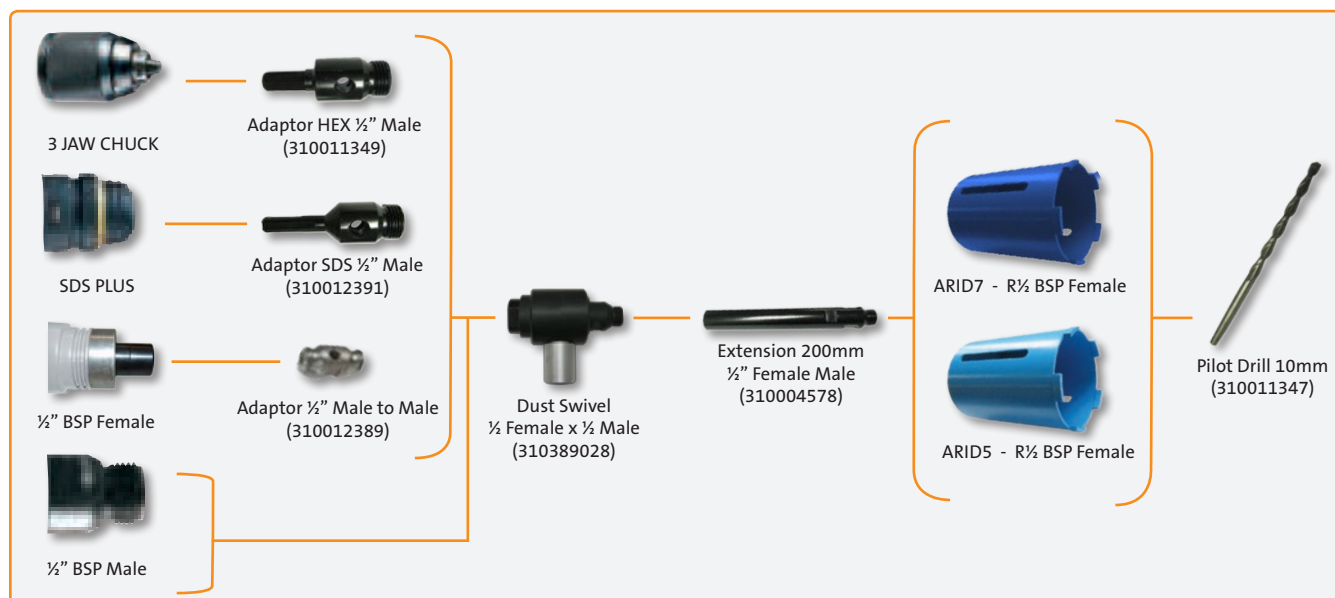
Item No	EAN 13 Code	Description
701846 40014	5450248 453178	ARID5 Dry diamond core 5-set Containing : 38mm, 52mm, 65mm, 117mm, 127mm Cores, 1 x Hex, 1 x SDS ½" Male Adaptor, 1 x Ejector Drift, 1 x A Taper Masonry Drill, 1 x 200mm Extension ½" Male-Female, ½"-½" Male-Male adaptor.

All above Dry Core Bits have ½" BSP female back end fitting.

CONNECTIONS



Dry handheld drilling with corebit R½ BSP Female





ARID7

Pro

High performance dry core bit. Faster drilling speed than ARID5 range. Drills faster than other products on the market.
Connection : 1/2" BSP Female.



Item No	EAN 13 Code	Outer Ø (mm)	Core length	Number of segments
701846 40160	5450248 454687	38	150	3
701846 94047	5450248 588696	48	150	3
701846 40161	5450248 454793	52	150	3
701846 40162	5450248 454809	65	150	3
701846 40163	5450248 454816	78	150	4
701846 94048	5450248 588702	91	150	5
701846 40164	5450248 454823	107	150	5
701846 40165	5450248 454847	117	150	6
701846 40166	5450248 454854	127	150	7
701846 40167	5450248 454861	152	150	8



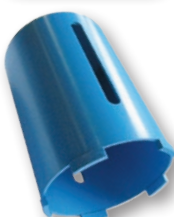
ARID5

Classic

Most affordable corebits for craftsmen improved performance/price ratio :

- Conical connection shape to improve the mounting of the corebit => reduced vibrations, increased safety and better comfort.
- Optimised to get the best balance between drilling speed, product life and comfort.
- Easier core extraction.

Connection : 1/2" BSP Female.



Item No	EAN 13 Code	Dia x Lth (mm)	Number of segments	Seg H (mm)
701846 20351	5450248 230359	28 x 300	2	7
701846 20352	5450248 299592	38 x 150	3	7
701846 20353	5450248 299608	52 x 150	3	7
701846 40268	5450248 456193	65 x 150	3	7
701846 20354	5450248 299615	78 x 150	4	7
701846 20355	5450248 230366	107 x 150	5	7
701846 20356	5450248 230373	117 x 150	6	7
701846 20357	5450248 230380	127 x 150	7	7
701846 20358	5450248 299622	152 x 150	8	7



DRY DRILLING CORE BITS

Building Materials

ARID DS

ARID DS range is specifically designed for drilling electrical plug sockets in walls.

Dry drilling is a fairly simple process requiring a drill motor of min 800w equipped with a clutch. Power drills or drilling motors with three jaw chucks, SDS and ½" BSP fittings can all be used with Norton dry diamond cores once the correct adaptor has been chosen.



Pro ARID DS

Pro

Laser-welded segmented drill bit for handheld drilling. Suitable for dry drilling of electrical sockets and switches.

High quality for professional use.

Application: medium-hard building materials.



Item No	EAN 13 Code	Ø OD* (mm)	Length (mm)	Connection
701846 12873	5450248 017592	68	60	M16
701846 12874	5450248 017608	82	60	M16

* OD : Outer Diameter.



Classic ARID DS

Classic

Laser-welded segmented drill bit for handheld drilling. Suitable for dry drilling of electrical sockets and switches.

Good value for money.

Application: medium-hard building materials.



Item No	EAN 13 Code	Ø OD* (mm)	Length (mm)	Connection
701846 20422	5450248 230311	68	60	M16
701846 20423	5450248 230335	82	60	M16

* OD : Outer Diameter.

CONNECTIONS



Dry handheld drilling with M16 female corebits



3 JAW CHUCK



Adaptor HEX M16 Male
+ Ejector drift (310003974)



SDS PLUS



Adaptor SDS M16 Male
+ Ejector drift (310005899)



½" BSP Female



Adaptor R½" Male M16 Male
+ Ejector drift (310006030) *



Pro ARID DS - M16 Female



Classic ARID DS - M16 Female



Pilot Drill 6mm
(310003973)

* Availability on request.



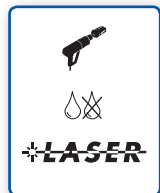
DD5 Gold

Dynamic

For dry-drilling of non-reinforced masonry walls, Poroton, concrete blocks and abrasive materials.

New swirled core for reduced frictions and better dust evacuation.

Useful length : 150mm. Connection : M16 female thread.



Item No	EAN 13 Code	OD * (mm)	Number of segments	Segment L / W / H
701846 45865	5450248 535324	48	4	16/3,0/7
701846 45866	5450248 535331	52	5	16/3,0/7
701846 45867	5450248 535348	65	3	24/3,5/7
701846 45868	5450248 535355	82	4	24/3,5/7
701846 45869	5450248 535362	91	5	24/3,5/7
701846 45870	5450248 535379	102	5	24/3,5/7
701846 45871	5450248 535386	107	5	24/3,5/7
701846 45872	5450248 535393	117	6	24/3,5/7
701846 45873	5450248 535409	127	6	24/3,5/7
701846 45874	5450248 535416	152	7	24/4,0/7
701846 45875	5450248 535423	162	8	24/4,0/7
701846 45876	5450248 535447	202	9	24/4,0/7

* OD : Outer Diameter.

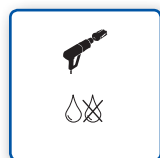


Classic CDT

Classic

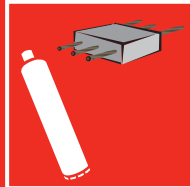
Good value for money. For dry or wet drilling of non-reinforced masonry walls, Poroton, concrete blocks and abrasive materials.

Useful length : 450mm. Connection : 1 1/4" UNC female thread.



Item No	EAN 13 Code	OD / ID* (mm)	Number of segments	Segment L / W / H
701846 24203	5450248 235521	51/45	3	24/3,0/7
701846 24204	5450248 235538	61/55	3	24/3,0/7
701846 24206	5450248 235552	81/74	4	24/3,5/7
701846 24208	5450248 235576	101/94	6	24/3,5/7
701846 24210	5450248 235583	111/104	7	24/3,5/7
701846 24209	5450248 235590	121/114	7	24/3,5/7
701846 24211	5450248 235606	131/124	7	24/3,5/7
701846 24212	5450248 235613	151/143	8	24/4,0/7
701846 24213	5450248 235620	161/153	8	24/4,0/7

* OD-ID : Outer Diameter - Inner Diameter.



WET DRILLING CORE BITS

Concrete & Concrete Products



X3

Dynamic

The new X3 diamond drill uses a unique configuration of bond and diamond specification in a revolutionary new dual fluted/tapered segment, for extreme performance : easy drill-start, 20% faster drilling speed than standard corebits, better product life with 12mm segment height.

Useful length : 450mm.

Connection : 1 1/4" UNC female thread.

Application : concrete and reinforced concrete.



Item No	EAN 13 Code	OD / ID* (mm)	Number of segments	Segment L / W / H
701846 29370	5450248 414544	48/41	4	24/3,6/12
701846 29161	5450248 403296	52/45	4	24/3,6/12
701846 29338	5450248 414551	62/55	5	24/3,6/12
701846 29162	5450248 403302	67/60	5	24/3,6/12
701846 29163	5450248 403319	77/70	6	24/3,6/12
701846 29174	5450248 403364	82/75	6	24/3,6/12
701846 29167	5450248 403234	92/85	7	24/3,6/12
701846 29176	5450248 403388	102/95	8	24/3,6/12
701846 29091	5450248 403265	107/100	9	24/3,6/12
701846 29052	5450248 403258	112/105	9	24/3,6/12
701846 29455	5450248 414568	122/114	9	24/4/12
701846 29175	5450248 403371	127/119	10	24/4/12
701846 29339	5450248 414575	132/124	10	24/4/12
701846 29104	5450248 403272	152/144	11	24/4/12
701846 29165	5450248 403326	162/154	12	24/4/12
701846 29166	5450248 403333	178/170	13	24/4/12
701846 29349	5450248 403418	182/174	13	24/4/12
701846 29178	5450248 403401	202/192	14	24/5/12
701846 29151 **	5450248 403289	212/202	15	24/5/12
701846 29179	5450248 414582	225/215	15	24/5/12
701846 29180	5450248 414698	250/240	16	24/5/12

* OD / ID : Outer Diameter / Inner Diameter. ** Availability on request.

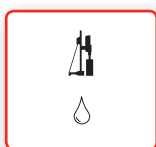


X3 Segments

Pro

Retipping segments for Dynamic X3 corebits.

Application : Concrete and reinforced concrete.



Item No	Range (mm)	Segment L / W / H
310390374	42-57	24/2,8/10
310390375	58-72	24/2,8/10
310390386	73-87	24/2,8/10
310390387	88-102	24/2,8/10
310390388	103-117	24/2,8/10
310390389	118-146	24/3,2/10
310390391	147-190	24/3,2/10
310390392	191-290	24/3,5/10
310390406	291-490	24/4,0/10



Pro CB BETON - Segmented

Core drills with laser welded segments for wet drilling. The special tapered-shape segments allow for an easier start of the drill.

Useful length : 450mm.

Connection : 1 1/4" UNC female thread.

Applications : concrete and reinforced concrete, masonry blocks. Also suitable for asphalt & abrasive materials.



Item No	EAN 13 Code	Connection	OD / ID* (mm)	Number of segments	Segment L / W / H
701846 24870	5450248 239123	1 1/4"	52/45	4	24/3,5/10
701846 24871	5450248 239147	1 1/4"	57/50	4	24/3,5/10
701846 24872	5450248 239154	1 1/4"	62/55	5	24/3,5/10
701846 24873	5450248 239161	1 1/4"	67/60	5	24/3,5/10
701846 24874	5450248 239178	1 1/4"	72/65	5	24/3,5/10
701846 24875	5450248 239185	1 1/4"	77/70	6	24/3,5/10
701846 24876	5450248 239192	1 1/4"	82/75	6	24/3,5/10
701846 24878 **	5450248 239215	1 1/4"	87/80	6	24/3,5/10
701846 24879	5450248 239222	1 1/4"	92/85	7	24/3,5/10
701846 24880	5450248 239239	1 1/4"	102/95	8	24/3,5/10
701846 24881	5450248 239246	1 1/4"	107/100	8	24/3,5/10
701846 24882	5450248 239253	1 1/4"	112/105	8	24/3,5/10
701846 24883	5450248 239277	1 1/4"	122/114	9	24/4,0/10
701846 24884	5450248 239284	1 1/4"	127/119	9	24/4,0/10
701846 24885	5450248 239291	1 1/4"	132/124	9	24/4,0/10
701846 24886	5450248 239307	1 1/4"	142/134	10	24/4,0/10
701846 24887	5450248 239314	1 1/4"	152/144	11	24/4,0/10
701846 24888	5450248 239321	1 1/4"	162/154	11	24/4,0/10
701846 24889	5450248 239338	1 1/4"	172/164	12	24/4,0/10
701846 24890	5450248 239345	1 1/4"	182/174	12	24/4,0/10
701846 24892	5450248 239369	1 1/4"	202/194	14	24/4,0/10
701846 24893 **	5450248 239376	1 1/4"	212/203	14	24/4,5/10
701846 24894	5450248 239383	1 1/4"	227/218	15	24/4,5/10
701846 24895	5450248 239406	1 1/4"	252/243	16	24/4,5/10
701846 24896 **	5450248 239413	1 1/4"	272/263	18	24/4,5/10
701846 24897	5450248 239437	1 1/4"	300/290	19	24/5,0/10
701846 24900	5450248 239468	1 1/4"	350/340	21	24/5,0/10
701846 24901 **	5450248 239475	1 1/4"	400/390	24	24/5,0/10

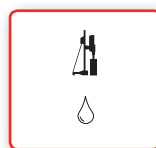
* OD / ID : Outer Diameter / Inner Diameter. ** Availability on request.



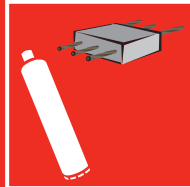
Pro CB BETON Segments

Retipping segments for Pro CB Beton segmented corebits.

Applications : Concrete and reinforced concrete, masonry blocks. Also suitable for asphalt & abrasive materials.



Item No	Range (mm)	Segment L / W / H
3103 77850	42-57	24/3,5/10
3103 77851	58-72	24/3,5/10
3103 77852	73-87	24/3,5/10
3103 77853	88-102	24/3,5/10
3103 77854	103-117	24/4,0/10
3103 77855	118-146	24/4,0/10
3103 77886	147-190	24/4,0/10
3103 77887	191-290	24/4,5/10
3103 77888	291-490	24/5,0/10
3103 77890	500-1000	24/5,0/10



WET DRILLING CORE BITS

Concrete & Concrete Products



Pro

Pro CB BETON - Crowned

Professional crownbit for small diameters wet-drilling jobs.

Brazed crownbit for wet-drilling.

Useful length : 300mm.

Connection : ½" BSP male back end fitting.

Application : For concrete and masonry walls.



Item No	EAN 13 Code	Connection	OD / ID* (mm)	Core length	Crown H
701846 12947	5450248 020585	½"	14/10	300	7
701846 12823	5450248 015901	½"	16/12	300	7
701846 12824	5450248 015918	½"	18/14	300	7
701846 12825	5450248 015925	½"	20/16	300	7
701846 12826	5450248 015932	½"	22/18	300	7
701846 12827	5450248 015949	½"	25/21	300	7
701846 12828	5450248 015956	½"	28/24	300	7
701846 12829	5450248 015963	½"	30/26	300	7
701846 12830	5450248 015970	½"	32/28	300	7
701846 12831	5450248 015987	½"	35/31	300	7
701846 12833	5450248 016007	½"	38/34	300	7
701846 12834	5450248 016014	½"	40/36	300	7
701846 12835	5450248 016021	½"	51/47	300	7

* OD / ID : Outer Diameter / Inner Diameter.



Pro

Pro CB BETON Crowns

Retipping crowns for Pro CB Beton crownbits.

Application : Concrete and reinforced concrete, masonry.



Item No	OD* (mm)	Crown H / W
3103 28465	14	7/2,0
3103 28467	16	7/2,0
3103 28468	18	7/2,0
3103 28469	20	7/2,0
3103 28470	22	7/2,0
3103 28482	25	7/2,0
3103 28483	26	7/2,0
3103 28485	28	7/2,0
3103 28486	30	7/2,0
3103 28487	32	7/2,0
3103 28488	35	7/2,0
3103 28497	38	7/2,0
3103 28490	40	7/2,0
3103 28491	51	7/2,0

* OD : Outer Diameter.



Classic CB BETON

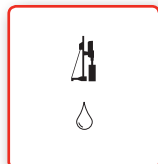
Classic

Core drill with brazed segments. Good value for money.

Suitable for concrete and masonry walls.

Useful length : 450mm.

Connection : 1 1/4" UNC female thread.



Item No	EAN 13 Code	OD / ID* (mm)	Number of segments	Segment L / W / H
701846 13201	5450248 184355	51/45	5	24/3,0/7,0
701846 13202	5450248 184119	56/50	5	24/3,0/7,0
701846 13203	5450248 184126	61/55	5	24/3,5/7,0
701846 13204	5450248 184133	66/59	6	24/3,5/7,0
701846 13205	5450248 184140	71/64	6	24/3,5/7,0
701846 13206	5450248 184157	76/69	6	24/3,5/7,0
701846 13207	5450248 184164	81/74	7	24/3,5/7,0
701846 13208	5450248 184171	86/79	7	24/3,5/7,0
701846 13209	5450248 184188	91/84	8	24/3,5/7,0
701846 13210	5450248 184195	101/94	8	24/3,5/7,0
701846 13211	5450248 184201	106/99	9	24/3,5/7,0
701846 13212	5450248 184218	111/104	9	24/3,5/7,0
701846 13213	5450248 184225	121/114	10	24/3,5/7,0
701846 13214	5450248 184232	126/118	10	24/4,0/7,0
701846 13215	5450248 184249	131/123	10	24/4,0/7,0
701846 13216	5450248 184256	141/133	11	24/4,0/7,0
701846 13217	5450248 184263	151/143	12	24/4,0/7,0
701846 13218	5450248 184270	161/153	12	24/4,0/7,0
701846 13219	5450248 184287	171/163	13	24/4,0/7,0
701846 13220	5450248 184294	181/173	13	24/4,0/7,0
701846 30513	5450248 442585	186/178	13	24/4,0/7,0
701846 13221 **	5450248 184300	191/183	13	24/4,0/7,0
701846 13222	5450248 184317	201/193	14	24/4,0/7,0
701846 13223	5450248 184324	211/203	14	24/4,0/7,0
701846 13252	5450248 184911	225/215	15	24/5,0/7,0
701846 13224	5450248 184331	251/241	16	24/5,0/7,0
701846 13253	5450248 184928	271/261	18	24/5,0/7,0
701846 13225	5450248 184348	300/290	20	24/5,0/7,0

* OD / ID : Outer Diameter / Inner Diameter. ** Availability on request.



Classic CB BETON Segments

Classic

Retipping segments for Classic CB Beton corebits.

Application : concrete and concrete products.



Item No	Range (mm)	Segment L / H / W
3100 02554	51-61	24/3,0/7,0
3100 02555	66-76	24/3,5/7,0
3100 02556	81-91	24/3,5/7,0
3100 02557	96-116	24/3,5/7,0
3100 02558	121-151	24/4,0/7,0
3100 02559	156-186	24/4,0/7,0
3100 02560	191-221	24/4,0/7,0
3100 02561	> 225	24/5,0/7,0



SPECIALTY WET DRILLING COREBITS



Pro

Pro CB BETON XT

Light-weight laser-welded corebit for handheld wet-drilling applications.
10mm high extra-thin tapered-top segments for very fast drilling and quick start.
Useful length : 300mm. Connection : ½" male.
Application : concrete and reinforced concrete, brick walls, masonry walls.



Item No	EAN 13 Code	OD / ID* (mm)	Number of segments	Segment L / W / H
701846 41409	5450248 472131	52/47	4	24/2,6/10
701846 41410	5450248 472148	62/57	4	24/2,6/10
701846 41411	5450248 472155	72/67	5	24/2,6/10
701846 41412	5450248 472162	82/77	6	24/2,6/10
701846 41413	5450248 472179	92/87	7	24/2,6/10
701846 41415	5450248 472292	102/97	8	24/2,6/10
701846 41416	5450248 472308	112/107	8	24/2,6/10
701846 41417	5450248 472315	122/117	9	24/2,6/10
701846 41419	5450248 472339	132/127	9	24/2,6/10

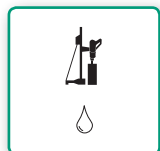
* OD-ID : Outer Diameter - Inner Diameter.



Pro

Pro CB GRANIT

Core-bit with brased segments, especially designed for wet-drilling of granite and natural stones.
Useful length : 450mm.
Connection : 1" ¼ female.
Application : granite and natural stones.



Item No	EAN 13 Code	OD / ID* (mm)	Number of segments	Segment L / W / H
701846 30598 **	5450248 443001	62/55	3	24/3,5/7
701846 26708 **	5450248 439387	82/75	4	24/3,5/7
701846 30190 **	5450248 412502	92/84	4	24/4,0/7
701846 24655 **	5450248 340195	101/94	4	24/4,0/7
701846 28192 **	5450248 391715	121/113	5	24/4,0/7
701846 26244 **	5450248 439394	151/143	7	24/4,0/7

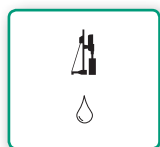
* OD / ID : Outer Diameter - Inner Diameter. ** Availability on request.



Pro

Pro CB Granit Segments

Retipping segments for Pro CB Granit corebits.
Application : granite and natural stone.



Item No	Range (mm)	Segment L / W / H
310451214	42-57	3,8/2,8x10x24
310451237	58-72	3,8/2,8x10x24
310451239	73-87	3,8/2,8x10x24
310451240	88-102	3,8/2,8x10x24
310451241	103-117	3,8/2,8x10x24
310451242	118-146	4,2/3,2x10x24
310451243	147-190	4,2/3,2x10x24
310451244	191-290	4,5/3,5x10x24
310451245	291-490	5,0/4,0x10x24
310451246	500-1000	5,0/4,0x10x24



ROBO FORSHEDA

Pro

For concrete, reinforced concrete, concrete pipes, ductile iron pipes.

Useful length : 300mm.

3-hole flange especially adapted for use on ROBO core drilling machine.



Item No	EAN 13 Code	OD / ID* (mm)	Number of segments	Segment L / W / H
701846 12951	5450248 021483	111/104	7	24/3,5/7,0
701846 12952	5450248 021490	126/120	8	24/3,5/7,0
701846 13170	5450248 171522	137/129	9	24/4,0/7,0
701846 12883	5450248 018247	152/144	10	24/4,0/7,0
701846 12954	5450248 021513	161/153	10	24/4,0/7,0
701846 20436	5450248 300304	166/158	10	24/4,0/7,0
701846 12955 **	5450248 021520	171/163	11	24/4,0/7,0
701846 20348 **	5450248 299561	178/170	12	24/4,0/7,0
701846 13316	5450248 208921	182/174	12	24/4,0/7,0
701846 13075	5450248 131663	187/179	12	24/4,0/7,0
701846 12882	5450248 018230	196/187	12	24/4,0/7,0
701846 12956	5450248 194255	201/192	12	24/4,0/7,0
701846 12957	5450248 021544	211/202	12	24/4,0/7,0
701846 12958	5450248 021551	225/216	12	24/4,0/7,0
701846 12884	5450248 018254	248/238	16	24/5,0/7,0
701846 12959	5450248 021568	251/241	16	24/5,0/7,0
701846 12960	5450248 021575	257/247	16	24/5,0/7,0
701846 13080	5450248 133940	277/267	17	24/5,0/7,0
701846 13081 **	5450248 133957	290/280	18	24/5,0/7,0
701846 13082 **	5450248 133964	296/286	19	24/5,0/7,0
701846 13076	5450248 131670	299/289	20	24/5,0/7,0
701846 13083 **	5450248 133971	330/320	21	24/5,0/7,0
701846 13127	5450248 162612	355/345	22	24/5,0/7,0

* OD / ID : Outer Diameter / Inner Diameter. ** Availability on request.



Don't forget to use our 3-holes flange to 1 1/4 female adaptor - 3100 04594.



ROBO FORSHEDA Segments

Pro

Retipping segments for Pro Robo Forsheda corebits.

Application : concrete, reinforced concrete, concrete pipes, ductile iron pipes.



Item No	Range (mm)	Segment L / H / W
3100 02557	96-116	24/3,5/7,0
3100 02558	121-151	24/4,0/7,0
3100 02559	156-186	24/4,0/7,0
3100 02560	191-221	24/4,0/7,0
3100 02561	≥ 225	24/5,0/7,0



REFRACTORY MATERIALS



© Saint-Gobain SEPRRO

A high performance range developed for the professional contractors specializing in the maintenance of industrial furnaces. A wide selection of products allows for optimum performances in each type of refractory bricks.

RECOMMENDATION GUIDE

Most diameters are also available as "silent" versions.

	RC400	RC465	RC525	RC540	RC575	ZDH500	ZDM200	ZMD944T
		★★★★★				★★★★★	★★★★★	★★★★★
NON OXYDES (C 80-90%) (SiC 40-70%)								
Silicon Carbide, Carborundum, Graphite					✓			
OXYDES								
Dolomite, Tar (MgO 40 CaO 60)		✓						
Magnesite (MgO 80-95)		✓	✓				✓	✓
Chromite, Chrome (Cr ₂ O ₃ 30-10 MgO 40-80)			✓				✓	✓
Zirconia, Silica (ZrO ₂ 65-95) (Si 02)				✓		✓		
LOW CONTENT ALUMINIA (Al ₂ O ₃ 25-70%)								
Fireclay			✓			✓	✓	
HIGH CONTENT ALUMINIA (Al ₂ O ₃ 70-95%)								
Mulite, Beauxite, Durital, Rocal, Zirmul				✓		✓		
ELECTROFUSED								
Corhart ZAC, Corhart 104, Zirconia, Jargal	✓							
Mulite, Alumina, Basalt	✓							
INSULATION		✓				✓	✓	

★★★★★
Dynamic

RC400

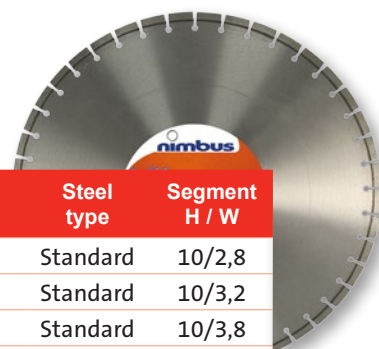
Laser-welded diamond blade with key-hole geometry.

Application : ELECTROFUSED - Corhart ZAC, Corhart 104, Zirconia, Jargal, Mullite, Alumina, Basalt.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Steel type	Segment H / W
701846 26203 *	5450248 466291		350	25,4	Standard	10/2,8
701846 26204 *	5450248 466307		400	25,4	Standard	10/3,2
701846 26205 *	5450248 466314		450	25,4	Standard	10/3,8
701846 26206	5450248 466321		500	25,4	Standard	10/3,8
701846 26586 *	5450248 466338		600	25,4	Standard	10/3,8

* Availability on request.





REFRACTORY MATERIALS

★★★★★
Dynamic

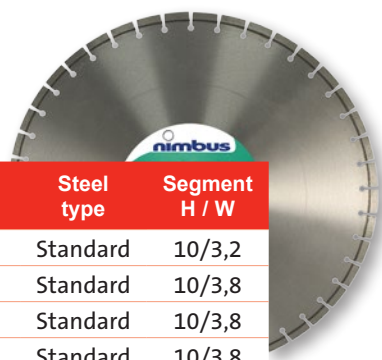
RC465

Laser-welded diamond blade with key-hole geometry.
Application : OXYDES - Dolomite, Tar & Magnesite.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Steel type	Segment H / W
701846 26316	5450248 393146		400	25,4	Standard	10/3,2
701846 26317 *	5450248 372158		450	25,4	Standard	10/3,8
701846 26318	5450248 372165		500	25,4	Standard	10/3,8
701846 26319 *	5450248 393153		600	25,4	Standard	10/3,8
701846 29314	5450248 466345		650	25,4	Standard	10/3,8

* Availability on request.



★★★★★
Dynamic

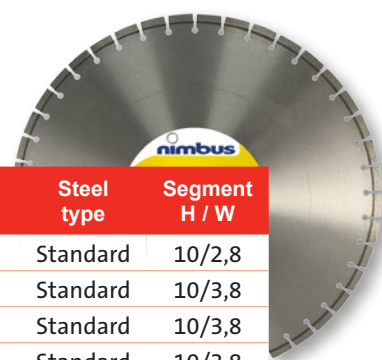
RC525

Laser-welded diamond blade with key-hole geometry.
Application : OXYDES - Magnesite & Chromite, Chrome. LOW CONTENT ALUMINIA < 70%
- Fireclay. INSULATION.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Steel type	Segment H / W
701846 26284 *	5450248 466376		350	25,4	Standard	10/2,8
701846 26282 *	5450248 466352		450	25,4	Standard	10/3,8
701846 26283	5450248 466369		500	25,4	Standard	10/3,8
701846 26706 *	5450248 466383		600	25,4	Standard	10/3,8

* Availability on request.



★★★★★
Dynamic

RC540

Laser-welded diamond blade with wide-gullet geometry.
Application : OXYDES - Zirconia, Silica. HIGH CONTENT ALUMINIA >70% - Mullite, Beauxite, Durital, Rocal, Zirmul.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Steel type	Segment H / W
701846 26285	5450248 393108		350	25,4	Standard	10/2,8
701846 26286	5450248 393115		400	25,4	Standard	10/3,2
701846 26287	5450248 393122		450	25,4	Standard	10/3,8
701846 26288	5450248 393139		500	25,4	Standard	10/3,8
701846 26707 *	5450248 393177		600	25,4	Standard	10/3,8

* Availability on request.



★★★★★
Dynamic

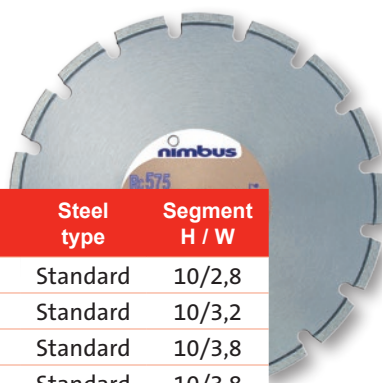
RC575

Laser-welded diamond blade with wide-gullet geometry.
Application : NON OXYDES - Silicon Carbide, Carborundum, Graphite.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Steel type	Segment H / W
701846 26320	5450248 466413		350	25,4	Standard	10/2,8
701846 26321 *	5450248 466437		400	25,4	Standard	10/3,2
701846 26322	5450248 466444		450	25,4	Standard	10/3,8
701846 26323 *	5450248 466451		500	25,4	Standard	10/3,8
701846 26324 *	5450248 466468		600	25,4	Standard	10/3,8

* Availability on request.





ZDH 500

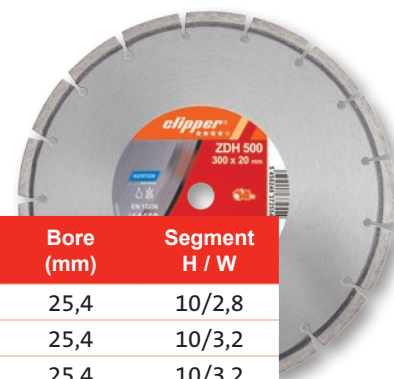
Pro

Good value for money laser-welded blade, with 10mm high free-cutting segments, for wet or dry cutting. VERSATILE product designed for petrol handheld saws, floor saws and masonry saws. High performance blade, designed for concrete, and medium to hard refractory materials.

Application : concrete, reinforced concrete, concrete slabs, refractory blocks containing aluminium oxides.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 27061	5450248 372585		350	25,4	10/2,8
701846 27062	5450248 372592		400	25,4	10/3,2
701846 27063	5450248 372608		450	25,4	10/3,2
701846 27064	5450248 372615		500	25,4	10/3,8
701846 27065	5450248 372622		600	25,4	10/4,0



ZDM 200

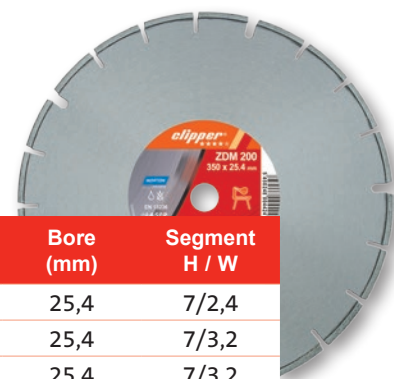
Pro

Very good value for money laser welded REFRACTORY blade for wet or dry cutting.

Application : refractory materials such as oxides, magnesite, chromite and insulation bricks.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 10238	5450248 004424		350	25,4	7/2,4
701846 10239	5450248 004431		450	25,4	7/3,2
701846 10240	5450248 242505		500	25,4	7/3,2



ZMD 944T

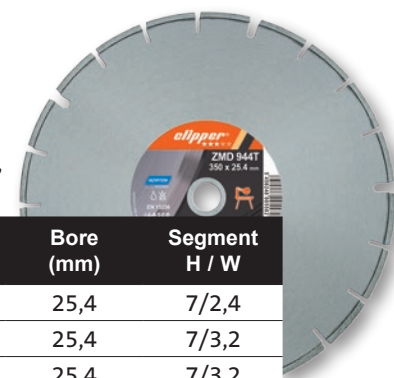
Pro

Good value for money laser-welded blade, for wet or dry cutting.

Application : abrasive products, breeze blocks, soft and ABRASIVE REFRACTORY MATERIALS, insulation blocks.



Item No	EAN 13 Code		Ø (mm)	Bore (mm)	Segment H / W
701846 10284	5450248 005582		350	25,4	7/2,4
701846 10285	5450248 005599		450	25,4	7/3,2
701846 10286	5450248 230151		500	25,4	7/3,2





The CLIPPER Solutions

MASONRY SAWS

LIGHT MASONRY SAWS



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	CGW	CM351	CM42	CHW	CHW-T
Power	2,2kW	2,2kW	2,2kW	2,2kW	2,2kW
Max. blade diameter	Ø 350mm	Ø 350mm	Ø 400mm	Ø 350mm	Ø 350mm
Max. cutting depth	110mm	110mm	135mm	110mm	110mm
Max. cutting length	500mm	700mm	780mm	600mm	600mm
Max. material height	200mm	150mm	200mm	240mm	240mm
Table size	440 x 340mm	600 x 600mm	500 x 540mm	500 x 600mm	500 x 600mm
Mitre cutting	✗	Tilting head 0 or 45°	Optional tilting table 0 or 45°	✗	Tilting head 0 or 45°
Folding feet	✗	✗	✓	✓	✓
Weight	66kg	69kg	89kg	81kg	95kg

*Versatile masonry
saw with tilting
head.*

*Ideal for
professional user
looking for durable
equipment.*

MEDIUM MASONRY SAWS



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	JCW		CM401		
Power	2,2kW 230V 1~	4,8kW Petrol	2,2kW 230V 1~	3kW 400V 3~	4,8kW Petrol
Max. blade diameter	Ø 400mm		Ø 400mm		
Max. cutting depth	150mm		150mm		
Max. cutting length	600mm		600mm		
Max. material height	250mm		280mm		
Table size (mm)	440x490		500x600		
Mitre cutting	✗		✗		
Folding feet	✓		✓		
Weight	104kg	109kg	113kg	115kg	118kg

Aluminium frame.
Belt-driven for more torque.

LARGE MASONRY SAWS



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	CM501	ISM	ISC	JUMBO 651			JUMBO 900	JUMBO 1000	CB 511
Power	4 > 4,8kW 230V 1~ / Petrol	5,5kW 400V 3~		2,2kW 230V 1~	5,5kW 400V 3~	4,8kW Petrol	7,5kW 400V 3~	7,5 > 9,6kW 400V 3~ / Petrol	1,85kW 230V 1~
Max. blade diameter	Ø 500 > 600mm	Ø 500mm		Ø 650mm			Ø 900mm	Ø 1000mm	✗
Max. cutting depth	195 > 245mm	190mm		265mm			370mm	420mm	420mm
Max. cutting length	500mm	500mm	750mm	500mm			720mm		660mm
Max. material height	355mm	380mm		280mm			405mm		508mm
Table size (mm)	580x420	Options		600x500			720x800		710x1060
Mitre cutting	Options	Options		✗			✗	✗	✗
Weight	163 > 168kg	248kg	280kg	208kg	212kg	212kg	360kg	370kg	203kg

Ideal for
refractory bricks
and industrial
applications.

Designed for cutting
large construction
blocks
in one cut.

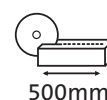
Ideal for dry
cutting of light
construction
blocks



MASONRY SAWS

CGW

2,2kW
Ø 350mm



66kg
230V 1~



The lightest masonry saw of the range has a cutting head allowing the cut of 500mm paving slabs.

Machine delivered without diamond blade.



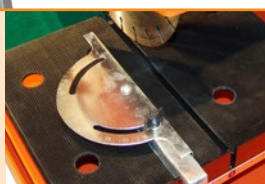
Easy blade change



Splash guard



Compensation spring



Variable guide-a-cut



We recommend the use of Clipper ALFA diamond blade

FEATURES

Variable guide-a-cut

Cutting head locking device

Blade guard with removable cover

Electrical water pump protected from slurries

BENEFITS

Allows cutting at any angle without any additional tool

Easy straight-through cutting

Operator protection and easy access for blade change

Reduced maintenance

MODEL	CGW
Item No	701846 29851
EAN 13 Code	5450248 407393
TECHNICAL DATA	
Supply Voltage	230V 1~
Power kW	2,2kW (3 Hp)
Fuse/Generator	16A / 6 kVA
Max. blade x bore	Ø 350 x 25,4mm
Max. cutting depth	110mm
Max. cutting length	500mm
Max. material height	200mm
Table size	440 x 340mm
Tool speed RPM	2800 min ⁻¹
Hand Arm Vibrations	< 2,5 m/s ²
Sound power / pressure level	92 dB (A) / 80 dB (A)
Dimensions (LxWxH)	980 x 600 x 550mm
Dimensions (LxWxH) (folded legs)	980 x 600 x 1250mm
Weight	66kg

CM351 Uno

2,2kW
Ø 350mm
700mm
69kg
230V 1~



The CM351 is a light-weight masonry saw with extra-wide conveyor cart and 45° tilting head for precise bevel cutting.



Tilting head and 600mm wide conveyor cart



Removable water tray



Conveyor cart stop system



Easy transport



Machine delivered with a Clipper ALFA Ø350mm diamond blade

FEATURES

45° tilting head
Adjustable depth stop on tilting head
Extra large **600x600mm** conveyor cart with anti-slipping rubber surface and tilted wheels
Removable robust plastic water tray

BENEFITS

Allows 45° bevel cut, with embedded slot in the conveyor cart
Step cutting and full-depth cutting are possible in both 90° and 45° head position
Improved cart stability. Wide materials are more stable and are easier to cut.
Easier cleaning and handling

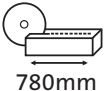
MODEL	CM351
Item No	701846 30312
EAN 13 Code	5450248 509394
TECHNICAL DATA	
1 diamond blade included	Ø 350mm ALFA
Supply Voltage / Power kW	230V 1~ / 2,2kW
Fuse/Generator	16A / 6 kVA
Max. blade x bore	Ø 350 x 25,4mm
Tilting head	0 or 45°
Max. cutting depth	110mm
Max. cutting length	700mm
Max. material height	150mm
Table size	600 x 600mm
Tool speed RPM	2800 min ⁻¹
Hand Arm Vibrations	2,2 m/s ²
Sound power / pressure level	87 dB (A) / 73 dB (A)
Dimensions (LxWxH)	1146 x 815 x 1270mm
Dimensions (LxWxH) (folded legs)	1146 x 725 x 639mm
Weight	69kg



MASONRY SAWS

CM42 *Compact*



2,2kW
 Ø 400mm

 780mm
 90kg
 230V 1~

The Clipper CM42 is a lightweight and portable masonry saw.

Wider and longer than most equivalent machines on the market, its characteristics enable the cut of a 60x60cm slab in 2 halves of 30cm.

Stronger frame, new folding feet system, improved conveyor cart bring key benefits to the user.

Machine delivered without diamond blade.



New adjustable cutting-depth handle



More comfortable handle shape



Folding feet



Anti-pivoting system on conveyor cart



Conveyor cart locking system

FEATURES

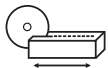
Wide conveyor cart, long reinforced frame
 Ergonomic handle
 Folding legs with repositionnable tightening handle & transport wheels
 Wide conveyor cart with tilted wheels, anti-pivoting and locking system
 High accuracy cutting guide with per-degree angular setting

BENEFITS

Can cut a 60x60cm slab in two 30cm halves.
 Better comfort during use
 Easy transportation and storage.
 Better stability and durability
 Quick, precise and easy cut without additional accessory

MODEL	CM42 30-1-230V	ACCESSORIES	Item No	EAN 13 Code
Item No	701846 47620	Tilting Table	5101 09260	5450248 578598
EAN 13 Code	5450248 563617			
TECHNICAL DATA				
Supply Voltage	230V 1~			
Power kW	2,2kW (3 Hp)			
Fuse/Generator	16A / 6 kVA			
Max. blade x bore	Ø 400 x 25,4mm			
Tilting cart	optional tilting table			
Max. cutting depth at 90°/45°	135mm / 94mm			
Max. cutting length	780mm			
Max. material height	200mm			
Table size	500 x 540mm			
Tool speed RPM	2800 min ⁻¹			
Hand Arm Vibrations	< 2,5 m/s ²			
Sound power / pressure level	92 dB (A) / 80 dB (A)			
Dimensions (LxWxH)	1187 x 620 x 1360mm			
Dimensions (LxWxH) (folded legs)	1187 x 620 x 740mm			
Weight	90kg			

CHW & CHW-T Modulo

2,2kW
 Ø 350mm

 600mm
 81 > 95kg
 230V 1~



The CHW Modulo is made using extruded aluminium profiles.

The “T” version has a high precision tilting head.

Machines delivered without diamond blade.



Side extension
(optional accessory)



Conveyor cart locking
and non-tilting devices



Tilting head
(CHW-T 600)



Easy transport



We recommend the use
of Clipper GRANITO
diamond blade



FEATURES	BENEFITS
Folding legs & transport wheels	Easy transportation and storage
Built with extruded aluminium profiles	Extreme rigidity and lifetime, easy maintenance
Removable aluminium water tray	Easy cleaning
Electrical water pump protected from slurries	Long life and efficiency ; dust free working conditions

MODELS	CHW 600 1.30.1	CHW-T 600 1.30.1
Item No	701846 14040	701846 10057
EAN 13 Code	5450248 202202	5450248 141839

TECHNICAL DATA		
Supply Voltage/ Power kW	230V 1~ / 2,2kW (3 Hp)	230V 1~ / 2,2kW (3 Hp)
Fuse/Generator	16A / 6 kVA	16A / 6 kVA
Max. blade x bore	Ø 350 x 25,4mm	Ø 350 x 25,4mm
Tilting head	-	0° to 45°
Max. cutting depth at 90° / 45°	110mm / NA	110mm / 85mm
Max. cutting length	600mm	600mm
Max. material height	240mm	240mm
Table size	500 x 600mm	500 x 600mm
Tool speed RPM	2730 min ⁻¹	2730 min ⁻¹
Hand Arm Vibrations	< 2,5 m/s ²	< 2,5 m/s ²
Sound power / pressure level	92 dB (A) / 80 dB (A)	92 dB (A) / 80 dB (A)
Dimensions (LxWxH)	1195 x 705 x 1350mm	1195 x 705 x 1350mm
Dimensions (LxWxH) (folded legs)	1195 x 705 x 760mm	1195 x 705 x 760mm
Weight	81kg	95kg

ACCESSORIES	Item No	EAN 13 Code
Side extension	3100 07579	5450248 226925



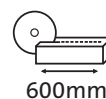


MASONRY SAWS

JCW *Junior*



2,2kW
Ø 400mm



104 >
109kg

230V 1~
Petrol

Belt-driven machine for precision cutting even for large materials.

Machine delivered without diamond blade.



Transport wheels



Blade guard
always horizontal



Cutting guide



Cutting guide 45°
(optional accessory)



We recommend the use
of Clipper ALFA
diamond blade

FEATURES

Cutting length of 600mm

Blade guard always horizontal

Mechanical water pump

Transport wheels and removable legs

BENEFITS

Precision for cutting large materials

Protection and safety

Lifespan and efficiency

Easy transport and storage

MODEL	JCW 600 1.30.1	JCW 600 1.65.P
Item No	701846 30306	701846 93499*
EAN 13 Code	5450248 414131	5450248 575498

ACCESSORIES	Item No	EAN 13 Code
Cutting guide 45°	3100 04537	5450248 088592

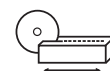
TECHNICAL DATA

Supply Voltage	230V 1~	Petrol / HONDA GX200
Fuse/Generator	16A / 6 kVA	-
Power kW	2,2kW (3 Hp)	4,8kW (6,5Hp)
Max. blade x bore	Ø 400 x 25,4mm	Ø 400 x 25,4mm
Max. cutting depth	150mm	150mm
Max. cutting length	600mm	600mm
Max. material height	250mm	250mm
Table size	400 x 490mm	400 x 490mm
Tool speed RPM	2700 min ⁻¹	2700 min ⁻¹
Hand Arm Vibrations	< 2,5 m/s ²	< 2,5 m/s ²
Sound power / pressure level	89 dB (A) / 78 dB (A)	105 dB (A) / 93 dB (A)
Dimensions (LxWxH)	1280 x 590 x 1460mm	1280 x 590 x 1460mm
Dimensions (LxWxH) (folded legs)	1280 x 590 x 880mm	1280 x 590 x 880mm
Weight	104kg	109kg

CM401 Modulo

2,2 > 4,8kW

Ø 400mm



600mm

113 >
118kg230V 1~
400V 3~
Petrol

CM401 electric

The CM401 uses an aluminium frame, very rigid and absolutely waterproof. The pivoting legs ensure complete site portability. The “stay level” blade guard and heavy duty conveyor cart provide easy cutting.

Machines delivered without diamond blade.



Aluminium profile



Aluminium water tray



Mechanical water pump



Easy transport



CM401 petrol



FEATURES	BENEFITS
500mm or 600mm cutting length	Perfect for large materials
Folding legs & transport wheels	Easy transportation and storage
Removable aluminium water tray	Easy cleaning
Built with extruded aluminium profiles	Extreme rigidity and lifetime

MODELS	CM401 600 1.30.1	CM401 600 1.40.3	CM401 600 1.60.P
Item No	701846 26994	701846 27004	701846 27017
EAN 13 Code	5450248 371847	5450248 371854	5450248 371755

TECHNICAL DATA			
Power Source/Motor Type	Electric	Electric	Petrol / HONDA GX200
Supply Voltage/Power kW (Hp)	230V 1~/ 2,2kW (3Hp)	400V 3~/ 3kW (4Hp)	4,8kW (6,5Hp)
Fuse/Generator	16A / 6 kVA	16A / 8 kVA	-
Max. blade x bore	Ø 400 x 25,4mm	Ø 400 x 25,4mm	Ø 400 x 25,4mm
Max. cutting depth	150mm	150mm	150mm
Max. cutting length	600mm	600mm	600mm
Max. material height	280mm	280mm	280mm
Table size	500 x 600mm	500 x 600mm	500 x 600mm
Tool speed RPM	2 700 min ⁻¹	2 000 min ⁻¹	2 650 min ⁻¹
Hand Arm Vibrations	< 2,5 m/s ²	< 2,5 m/s ²	< 2,5 m/s ²
Sound power / pressure level	94 dB (A) / 81 dB (A)	94 dB (A) / 81 dB (A)	105 dB (A) / 93 dB (A)
Length	1380mm	1380mm	1380mm
Width	660mm	660mm	660mm
Height/Height folded legs	1510mm / 920mm	1510mm / 920mm	1585mm / 995mm
Weight	113kg	115kg	118kg

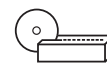


MASONRY SAWS

CM501 *Major*

2,2 > 4,8kW

Ø 350 >
600mm



500mm

163 >
168kg

230V 1~
400V 3~
Petrol



The CLIPPER CM501 is a highly performing and robust masonry saw with a modern design.

Machine delivered without diamond blade.



Friction resistant tilted wheels



Anti-slipping surface



Easy access to water pump



Easy transportation (optional accessory)



Cutting guide

FEATURES

Conveyor cart with anti-slipping surface
Easy access to water pump
Double lifting rails
Blade adjustment with crank

BENEFITS

Accurate and stable cut
Easy maintenance
Easy and safe transport with forklift
Easy and accurate blade depth setting

MODELS	CM501 3.55.3	CM501 3.55.3 D.V.	CM501 3.60.P	CM501 5.55.3
Item No	701846 27018	701846 28233	701846 27020	701846 28232 *
EAN 13 Code	5450248 371762	5450248 392101	5450248 371779	5450248 392095

TECHNICAL DATA

Power source/motor type	Electric	Electric	Petrol/HONDA GX200	Electric
Supply voltage/Power kW (HP)	400V / 4kW (5,5 HP)	230-400V~3 / 4kW (5,5 HP)	4,8kW (6,5Hp)	400V / 4kW (5,5 HP)
Fuse/Generator	16A / 10kVA	16A / 10kVA	-	16A / 10kVA
Max. blade x bore	Ø 500x25,4mm	Ø 500x25,4mm	Ø 500 x 25,4mm	Ø 600x25,4mm
Max. cutting depth	195mm	195mm	195mm	245mm
Max. cutting length	500mm	500mm	500mm	500mm
Max. material height	355mm	355mm	355mm	355mm
Table size	580 x 420mm	580 x 420mm	580 x 420mm	580 x 420mm
Tool speed RPM	1900 min ⁻¹	1900 min ⁻¹	2200 min ⁻¹	1900 min ⁻¹
Hand Arm Vibrations (hourly limit)	< 2,5 m/s ²	< 2,5 m/s ²	< 2,5 m/s ²	< 2,5 m/s ²
Sound power / pressure level	97dB(A) / 81dB(A)	97dB(A) / 81dB(A)	106dB(A) / 93dB(A)	97dB(A) / 81dB(A)
Dimensions (LxWxH)mm	1480x610x1550	1480x610x1550	1480x610x1700	1480x610x1550
Weight	165 kg	163 kg	165kg	168 kg

* Availability on request.

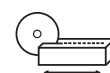
ISM & ISC *Super*



ISM

ISC & ISM are dedicated to industrial applications, suitable for brick or refractory work. The ISC is equipped with hand lever to operate the cutting head, while the ISM is fitted with an additional foot pedal.

5,5kW
Ø 500mm



500 >
750mm

248 >
280kg

400V 3~



ISC

Machines delivered without diamond blade, water distribution and conveyor cart.



Cutting head is height adjustable.



Foot pedal on the ISM



Tilting conveyor cart (tilts to 45°) (optional accessory)



Flat conveyor cart (optional accessory)



We recommend the use of Clipper ZDH500 diamond blade



FEATURES

Water distributors connectable to optional water supply system
Extended operating handle
Crank controlled cutting depth adjustment
Cutting head height setting by foot pedal and handle (ISM)

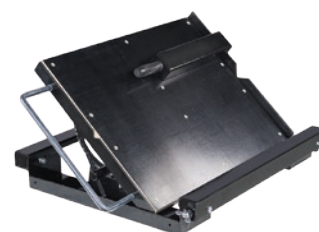
BENEFITS

Wet cutting and dust free working conditions
Optimum cutting pressure application
Easy and accurate setting
User's comfort

MODELS	ISM 3.75.3	ISC 3.75.3
Item No	701846 13985	701846 13986
EAN 13 Code	5450248 231239	5450248 144861
TECHNICAL DATA		
Supply Voltage	400V 3~	400V 3~
Power kW	5,5kW (7,5Hp)	5,5kW (7,5Hp)
Fuse/Generator	32 amp / 14 kVA	32 amp / 14 kVA
Max. blade x bore	Ø 500 x 25,4mm	Ø 500 x 25,4mm
Max. cutting depth	190mm	190mm
Max. cutting length	500mm	750mm
Flat cart (option)	465 x 615mm	710 x 615mm
Tilting cart (option)	455 x 580mm	710 x 610mm
Tool speed RPM	2062 min ⁻¹	2062 min ⁻¹
Hand Arm Vibrations	< 2,5 m/s ²	< 2,5 m/s ²
Sound power / pressure level	99 dB (A) / 85 dB (A)	99 dB (A) / 85 dB (A)
Dimensions (LxWxH)	1400 x 760 x 1750mm	1650 x 760 x 1750mm
Weight	248kg	280kg



Conveyor carts, dust collectors and water supply system are available as accessories.
See selection chart page 74.





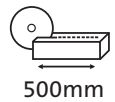
LARGE MASONRY BLOCK SAWS

JUMBO 651



2,2 > 5,5kW

Ø 650mm



212kg

230V 1~
400V 3~
Petrol

The CLIPPER Jumbo 651 is a powerful and robust saw, designed for continuous operation on the job site or industrial locations.

Machine delivered without diamond blade.



Electric water pump
(Jumbo 651 6.75.3)



2 wheels
with locking device



Heavy-duty frame
with 4 wheels



Easy access to
the blade



We recommend the use
of Norton Pro BS-12
diamond blade

FEATURES

Heavy duty frame with 4 wheels
2 wheels with locking device
Conveyor cart with 4 location rollers
Easy access to blade

BENEFITS

Easy movement on site
Secure machine during cutting operations
Excellent cutting accuracy
Save time for tool change

MODELS	JUMBO 651 6.30.1	JUMBO 651 6.75.3	JUMBO 651 6-55 P
Item No	701846 94005	701846 14005	701846 10073
EAN 13 Code	5450248 596714	5450248 186625	5450248 143680

TECHNICAL DATA

Power Source/Motor type	Electric	Electric	Petrol / HONDA GX200
Supply Voltage/ Power kW (Hp)	230V 1~/ 2,2kW (3Hp)	400V 3~ / 5,5kW (7,5Hp)	4,8kW (6,5Hp)
Fuse/Generator	16A / 6 kVA	32 amp / 14 kVA	-
Max. blade x bore	Ø 650 x 25,4mm	Ø 650 x 25,4mm	Ø 650 x 25,4mm
Max. cutting depth	265mm	265mm	265mm
Max. cutting length	500mm	500mm	500mm
Max. material height	280mm	280mm	280mm
Table size	600 x 500mm	600 x 500mm	600 x 500mm
Tool speed RPM	1350 min ⁻¹	1350 min ⁻¹	1350 min ⁻¹
Hand Arm Vibrations	< 2,5 m/s ²	< 2,5 m/s ²	< 2,5 m/s ²
Sound power / pressure level	100 dB (A) / 86 dB (A)	100 dB (A) / 86 dB (A)	105 dB (A) / 93 dB (A)
Dimensions (LxWxH)	1700 x 800 x 1480mm	1700 x 800 x 1480mm	1700 x 800 x 1480mm
Weight	208kg	212kg	212kg

ACCESSORIES	Item No	EAN 13 Code
Tilting cart 0 to 45°	3100 05275*	5450248 118343



* Availability on request.

JUMBO 900 & 1000

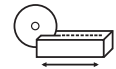


JUMBO 900

The Clipper JUMBO 900 and 1000 are the market's references for large masonry block saws.

7,5 > 9,6kW

Ø 900 > 1000mm



720mm

360 > 370kg

400V 3~ Petrol



JUMBO 1000

The CLIPPER Jumbo 1000 can **exclusively** be used with 1000mm blade.

Machines delivered without diamond blade.



New front splash guard, can be slid under the table



New forklift brackets



New more visible scale



Centrifugal clutch device



We recommend the use of Norton Pro BS-12 diamond blade



FEATURES

Heavy duty frame with 4 wheels
New graduated scale installed on an angle
New curtain in front of the blade
New blade guard

BENEFITS

Easy movement on site
Read more easily the position of the cutting guide
Reduce the splash when using the machine
Easier access to blade

MODELS	JUMBO 900 100-3-400V	JUMBO 1000 100-3-400V	JUMBO 1000 P13 EASY START
Item No	701846 13939	701846 21669	701846 29335
EAN 13 Code	5450248 143260	5450248 312789	5450248 441762

TECHNICAL DATA

Power Source/Motor Type	Electric	Electric	Petrol / HONDA GX390
Supply Voltage/Power kW (Hp)	400V~3 / 7,5kW (10Hp)	400V~3 / 7,5kW (10Hp)	9,6kW (13Hp)
Fuse/Generator	32 amp / 19 kVA	32 amp / 19 kVA	-
Max. blade x bore	Ø 900 x 60mm	Ø 1000 x 60mm	Ø 1000 x 60mm
Max. cutting depth	370mm	420mm	420mm
Max. cutting length	720mm	720mm	720mm
Max. material height	405mm	405mm	405mm
Table size	720 x 800mm	720 x 800mm	720 x 800mm
Tool speed RPM	928 min ⁻¹	928 min ⁻¹	928 min ⁻¹
Hand Arm Vibrations	< 2,5 m/s ²	< 2,5 m/s ²	< 2,5 m/s ²
Sound power / pressure level	100 dB (A) / 86 dB (A)	100 dB (A) / 86 dB (A)	105 dB (A) / 88 dB (A)
Dimensions (LxWxH)	2000 x 1080 x 1700mm	2000 x 1080 x 1700mm	2000 x 1080 x 1700mm
Weight	360kg	370kg	370kg



BAND SAWS

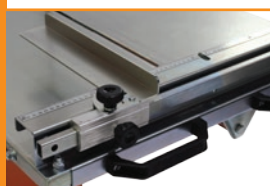
CB 511

1,85kW
203kg
230V 1~



Norton Clipper introduces the CB 511 band saw. It is designed for dry cutting of light construction blocks. The CB 511 is an easy to use machine with a power supply of only 230V.

Dimensions when the table is folded:
1050 x 900 x 1840mm



Cutting guide



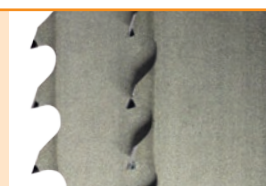
Precision of cut



Precision of cut



Safety of use



Machine delivered with an aerated fired clay band

FEATURES

Safety switch at end of cut
Dry cut with minimal dust
Easy to use
Galvanized and foldable table
Lift ring, double lifting rail and wheels
Powerful motor of 1,85kW protected by a fairing

BENEFITS

Safety of use and time saving
No water supply and water pump maintenance needed
Low maintenance
Space saving during transportation and storage
Easy to move by crane, forklift or by hand
More power, less dust, longer life

MODEL	CB 511 230V
Item No	701846 94702
EAN 13 Code	5450248 692393

TECHNICAL DATA

Power Source/Motor type	Electric
Supply Voltage/ Power kW (Hp)	230V 1~/ 1,85kW (2,5Hp)
Fuse/Generator	16A / 3 kVA
Band size	3850 x 27mm
Max. cutting height	508mm
Max. cutting length	660mm
Max. material width	420mm
Table size	710 x 1060mm
Sound power / pressure level	93,3 dB (A) / 80 dB (A)
Dimensions (LxWxH)	1050 x 900 x 1840mm
Weight	203kg

BANDS	APPLICATION	SIZE	Item No	EAN 13 Code
Aerated fired clay band	Poroton, ThermoPlan,...	3850 x 27mm	701846 95024	5450248 698180
Aerated concrete band	Gazbeton, Ytong, Siporex,...	3850 x 27mm	701846 95025	5450248 698395



Easy to open for a quick change of the band



Ideal for aerated fired clay blocks...



...and autoclaved aerated concrete blocks.

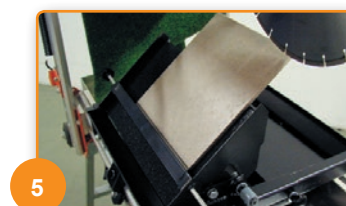
ACCESSORIES



ALL MASONRY SAWS		Item No	EAN 13 Code
1 -	Laser guide (without fixing plate)	3100 47638	5450248 373445
2 -	Laser guide kit for masonry saw	3100 47995	5450248 344698



CGW & CM401		Item No	EAN 13 Code
3 -	Side extension	3100 07579	5450248 226925
4 -	Cutting guide 45°	3100 07657	5450248 221241
5 -	Tilting cart 0 to 45°	3100 12201	5450248 238973





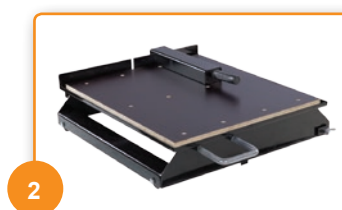
MASONRY SAWS

ACCESSORIES



ISC & ISM	Item No	EAN 13 Code
1 - Tilting table 0 to 45° for ISM	3100 04702	5450248 099376
1 - Tilting table 0 to 45° for ISC	3100 04539	5450248 088707
2 - Flat conveyor cart for ISM	3100 04704	5450248 099390
2 - Flat conveyor cart for ISC	3100 04703	5450248 099383
3 - Water distribution kit	3100 04732	5450248 100829
4 - Hood	3100 04552	5450248 089070
5 - Dust extraction bag type	3100 04544 *	5450248 088844
Dust extraction cabinet type	3100 04536	5450248 088240

* Availability on request.



How to properly select ISC and ISM masonry saws and their accessories ?

MAX. CUTTING LENGTH

Up to 500mm



ISM - 701846 13985

Up to 750mm



ISC - 701846 13986

FLAT OR MITRE CUT?

For ISM:



Tilting table 0 to 45°
3100 04702



Flat conveyor cart
3100 04704

For ISC:



Tilting table 0 to 45°
3100 04539



Flat conveyor cart
3100 04703

DRY OR WET CUTTING?

Wet



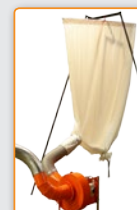
Water distribution kit
3100 04732

Dry



Hood - 3100 04552

+



Dust extractor bag type - 3100 04544

OR

Dust extractor cabinet type
3100 04536

ACCESSORIES



CM501	Item No	EAN 13 Code
2 - Cutting guide 45°	3100 04537	5450248 088592
3 - Tilting cart 0 to 45°	3100 04556	5450248 089353
4 - Side extension	3100 04557	5450248 089377
5 - Transport accessory	3100 04609 *	5450248 095187
6 - Hood	3100 04580	5450248 093312
7 - Dust extraction bag type	3100 04544 *	5450248 088844
8 - Electric hourmeter kit	3100 06307 *	5450248 157786

* Availability on request.



JUMBO 900 & JUMBO 1000	Item No	EAN 13 Code
1 - Cutting guide 0 to 45°	3100 04590	5450248 093961





MASONRY SAWS



Find more about the new CM42 compact masonry saw at page 64.

Find more about our range of blades for masonry saws at page 23.



The CLIPPER Solutions

FLOOR SAWS

LIGHT FLOOR SAWS



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	C51	CS401		CS451	
Power source	Petrol	Petrol		Petrol	Diesel
Power	6,5 HP	9 HP	13 HP	13 HP	7 HP
Max. blade diameter	Ø 350mm	Ø 400mm	Ø 450mm	Ø 450mm	
Max. cutting depth	125mm	145mm	170mm	170mm	
Propelling	Push	Push		Push	
Weight	76kg	93kg	99kg	112kg	120kg

Low vibration.





FLOOR SAWS

MEDIUM FLOOR SAWS & ELECTRIC FLOOR SAWS



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	CS1	C99E	CS 7,5
Power source	Petrol	Electric	Electric
Power	13 HP > 20 HP	7,5 HP	10 HP
Max. blade diameter	Ø 500mm	Ø 350 > 450mm	Ø 800mm
Max. cutting depth	190mm	1650mm	320mm
Propelling	Push	Push	Push
Weight	140 > 180kg	105kg	118kg

LARGE FLOOR SAWS



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	CSB1		CK31
Power source	Petrol	Diesel	Diesel
Power	20 HP	13 HP	31 HP
Max. blade diameter	Ø 600mm	Ø 500mm	Ø 700mm
Max. cutting depth	225mm	190mm	280mm
Raise and Lower	Manual hydraulic	Manual hydraulic	Electro hydraulic
Propelling	Automatic	Manual or Automatic	Automatic
Weight	240kg	250 > 255kg	660kg

*Professional floor saw
with automatic propelling.*



Find more on CS451 floor saw at page 82.

Find more on Norton Silencio at page 7.



FLOOR SAWS

C51

6,5 Hp
Ø 350mm
76kg
Petrol



Compact, robust and highly manoeuvrable machines designed for both wet and dry cutting of concrete and asphalt.

Machine delivered without diamond blade.



Removable 20 litre polyurethane water tank



Sealed wheel bearings



Height of handles can be easily adjusted



Ergonomic working condition



We recommend the use of Clipper CLASSIC ASPHALT diamond blade

FEATURES

Cutting depth adjustment with crank
Adjustable handles height, whatever cutting depth
Compact design
Large diameter rear wheels coated with hard rubber

BENEFITS

Quick and easy setting, user's comfort
Ergonomic user's working position
Easy storage and transportation
Robustness and stability

MODEL	C51 P6,5 H
Item No	701846 83534
EAN 13 Code	5450248 141730
TECHNICAL DATA	
Power source	Petrol
Motor type	HONDA GX200
Power kW (Hp)	4,8kW (6,5 Hp)
Max. blade x bore	Ø 350 x 25,4mm
Max. cutting depth	125mm
Water tank capacity (removable)	20 L
Tool speed RPM	2800 min ⁻¹
Starter	Recoil
Raise and lower	Manual
Propelling	Push
Hand Arm Vibrations	6,02 m/s ²
Sound power / pressure level	100 dB (A) / 84 dB (A)
Dimensions (LxWxH)	780 x 460 x 890mm
Weight	76kg

CS401

9 > 13 Hp
 Ø 400 >
 450mm
 93 > 99kg
 Petrol



The Clipper CS401 is a compact and economic floor saw.

A single platform with 2 motors and max. blade diameter, to provide the best solution for the needs of the users.

The wide frame and low center of gravity improve the user's control of the machine and reduce vibrations.

Suitable for dry or wet cutting of all types of floors.

Machines delivered without diamond blade.



Ergonomic handles

Cutting depth indicator

Easy removal of water tank and lifting hook

Smart cutting-depth locking

We recommend the use of Clipper ZDH 500 diamond blade

FEATURES

Heavy-duty wide frame

2 versions : 400mm blade guard/9HP and 450mm blade guard/13HP

Continuous depth control with crank handle and gauge

Removable 20L polyurethane water tank

Adjustable handle

BENEFITS

Low center of gravity for better control of the machine direction

Two alternatives to fit best the user's requirements

Quick, easy and accurate setting of cutting depth.

Easy wet-cutting in isolated locations

Ergonomic user's working position

MODEL	CS401 P9 400mm	CS401 P13 450mm
Item No	701846 47624	701846 47623
EAN 13 Code	5450248 563631	5450248 563624
TECHNICAL DATA		
Power source	Petrol	Petrol
Motor type	Honda GX270	Honda GX390 Cycl.
Power kW (Hp)	6,6kW (9 HP)	9,6kW (13 HP)
Max. blade x bore	Ø 400x25,4	Ø 450x25,4
Max. cutting depth	145mm	170mm
Water tank capacity	20 L	20 L
Tool speed RPM	2600 min ⁻¹	2600 min ⁻¹
Starter	Recoil	Recoil
Raise and lower	Manual	Manual
Propelling	Push	Push
Hand Arm Vibrations	3,75 m/s ²	4,13 m/s ²
Sound power level	100 dB(A)	100 dB(A)
Sound pressure level	84 dB(A)	86 dB(A)
Dimensions (LxWxH)	1180 x 650 x 1000	1180 x 650 x 1000
Weight	93kg	99kg



FLOOR SAWS

CS451

7 > 13 Hp
Ø 450mm
112 >
120kg
Petrol
Diesel



LOW VIBRATION

The CS451 is a new generation CLIPPER floor saw designed to combine robustness, functionality and vibration level reduced by 40% for best user's satisfaction.

Machine delivered without diamond blade.



Handlebar equipped with vibration absorbers



Cutting depth indicator



Cutting-depth locking



Pulleys with removable hub and Poly V belts



Easy removal of water tank and integrated lifting hook

FEATURES

Handlebar equipped with vibration absorbers
Handlebar's height adjustment
Optimised weight distribution (positioning of motor and tank)
High capacity water tank (25L)

BENEFITS

Improved user's working conditions
Ergonomic user's working position
Outstanding cutting performance
Wet cutting possibility, even far from water supply

MODELS

C5451 P13

CS451 D7

Item No	701846 28433	701846 29089
EAN 13 Code	5450248 397601	5450248 399049

TECHNICAL DATA

Power source	Petrol	Diesel
Motor type	HONDA GX390 Cyclonic	HATZ 1B30
Power kW (Hp)	9,6kW (13Hp)	5kW (7Hp)
Max. blade x bore	Ø 450 x 25,4mm	Ø 450 x 25,4mm
Max. cutting depth	170mm	170mm
Water tank capacity	25 L	25 L
Tool speed RPM	2573 min ⁻¹	2573 min ⁻¹
Starter	Recoil	Recoil
Raise and lower	Manual	Manual
Propelling	Push	Push
Hand Arm Vibrations	2,8 m/s ²	4,7 m/s ²
Sound power / pressure level	105 dB (A) / 88 dB (A)	110 dB (A) / 91 dB (A)
Dimensions (LxWxH)	1180 x 538 x 1040mm	1180 x 538 x 1040mm
Weight	112kg	120kg



VIDEO LINK

THE GENUINE CLIPPER CS1

13 > 20 Hp

Ø 500mm

140 >
180kg

Petrol

A robust, powerful machine for all types of repair work on both concrete and asphalt surfaces.



Machines delivered without diamond blade.



Hand wheel with endless screw depth control system



Water flow system on both sides of the blade



Easy access air filter



Control box (on CS1 P21)



We recommend the use of Clipper SUPER BETON EVO diamond blade

FEATURES

- Heavy duty jig welded steel frame
- Hand wheel with endless screw depth control system
- Blade shaft mounted on "greased-for-life" pillow block bearings
- Water flow control system on both sides of the blade

BENEFITS

- Robust and reliable
- Quick, easy and accurate setting
- Easy maintenance
- Optimised blade performance

MODELS	CS1 P13	CS1 P21
Item No	701846 29389	701846 45535
EAN 13 Code	5450248 414797	5450248 531265
TECHNICAL DATA		
Power source	Petrol	Petrol
Motor type	HONDA GX390 Cycl.	HONDA GX630
Power kW (Hp)	9,6kW (13 Hp)	14,7kW (20 Hp)
Max. blade x bore	Ø 500 x 25,4mm	Ø 500 x 25,4mm
Max. cutting depth	190mm	190mm
Water tank capacity	70 L	(not available)
Tool speed RPM	2600 min ⁻¹	2272 min ⁻¹
Starter	Recoil	Electric
Raise and lower	Manual	Manual
Propelling	Push	Push
Hand Arm Vibrations	4,22 m/s ²	3,9 m/s ²
Sound power/press.level	105dB(A)/89dB(A)	106dB(A)/92dB(A)
Dimensions (LxWxH)	1088 x 580 x 925mm	1088 x 580 x 925mm
Weight	140kg	180kg



FLOOR SAWS

CSB1 - Petrol

20 Hp
Ø 600mm
240kg
Petrol



A fully self-propelled heavy duty machine driving a 500mm or 600mm diamond blade.

Machine delivered without diamond blade.



Manual or hydraulic raise and lower of the blade



Rigid front pointer



Water tank (optional accessory)



Control box



We recommend the use of Norton Super Beton Evo diamond blade

FEATURES

Heavy duty jig welded steel frame
Multiple engine options
Two forward propulsion options (hand wheel, self-propelled)
Manual or hydraulic raise and lower of the blade

BENEFITS

Robust and reliable
Adapt type of engine to your specific needs
Adapt to your budget
Quick, easy and accurate depth setting

MODEL	CSB1 P21 KIA
Item No	701846 45495
EAN 13 Code	5450248 530794
TECHNICAL DATA	
Power source	Petrol
Motor type	HONDA GX630
Power kW (Hp)	15kW (20 Hp)
Max. blade x bore	Ø 600 x 25,4mm
Max. cutting depth	225mm
Water tank capacity	- (25L with optional accessory)
Tool speed RPM	1775 min ⁻¹
Starter	Electric
Raise and lower	Manual hydraulic
Propelling	Automatic
Hand Arm Vibrations	3,35 m/s ²
Sound power / pressure level	107 dB(A)/89 dB(A)
Dimensions (LxWxH)	1200 x 600 x 1100mm
Weight	240kg

CSB1 - Diesel

13 Hp
 Ø 500mm
 250 >
 255kg
 Diesel



CSB1 diesel
 13Hp (D13 HIA)

Heavy duty deep cutting saw, fully self propelled with manual hydraulic raise and lower. Supplied complete with a 25 litres built-in water tank.

Machines delivered without diamond blade.



Rigid front pointer



Built-in lifting eye



Built-in water tank



Manual or hydraulic raise and lower of the blade



We recommend the use of Clipper SUPER ASPHALT EVO diamond blade

FEATURES

Built in water tank
 Quick release blade guard with ¼ turn camlock fasteners
 Built in lifting eye at centre of gravity
 High resistance wheels with sealed heavy duty bearings

BENEFITS

Wet cutting autonomy in isolated locations
 Quick and easy blade change
 Easy loading and transportation
 Smooth and straight cutting

MODELS	CSB1 D13 HIA	CSB1 D13 HIW
Item No	701846 13925	701846 13923
EAN 13 Code	5450248 142829	5450248 142805
TECHNICAL DATA		
Power source	Diesel	Diesel
Motor type	HATZ 1D81 Z	HATZ 1D81
Power kW (Hp)	9,5kW (13 Hp)	9,5kW (13 Hp)
Max. blade x bore	Ø 500 x 25,4mm	Ø 500 x 25,4mm
Max. cutting depth	190mm	190mm
Water tank capacity	25 L	25 L
Tool speed RPM	1950 min ⁻¹	1950 min ⁻¹
Starter	Crank	Manual
Raise and lower	Manual hydraulic	Manual hydraulic
Propelling	Automatic	Manual (wheel)
Hand Arm Vibrations	5,08 m/s ²	5,08 m/s ²
Sound power / pressure level	114 dB(A)/101 dB(A)	114 dB(A)/101 dB(A)
Dimensions (LxWxH)	1200 x 600 x 1040mm	1200 x 600 x 1040mm
Weight	255kg	250kg



FLOOR SAWS

CK31

31 Hp
Ø 700mm
660kg
Diesel



The CLIPPER CK31 is a professional saw for deep cutting. Its high production capacity, compact size and ease of handling make it the ideal machine for all types of concrete and asphalt sawing.

Machine delivered without diamond blade.



Comprehensive control panel and easy reach of operator



Flexible rear pointer



Rigid front pointer



Easy access for blade changing



Ergonomic handles

FEATURES

Powered by 2-cylinder Diesel engine
Simple transmission belts tensioner setting
Left or right side blade and front pointer mounting
Standard configuration including hour meter, flexible rear pointer, ergonomical handles and parking brake

BENEFITS

High production capacity
Easy belts tension setting
Increase machine configurations to adapt to working environment
User friendly

MODEL	CK31 KSA
Item No	701846 21027
EAN 13 Code	5450248 306382
TECHNICAL DATA	
Power source	Diesel
Motor type	DEUTZ 2 cylinders F2L2011
Power kW (Hp)	23kW (31 Hp)
Max. blade x bore	Ø 700 x 25,4mm
Max. cutting depth	280mm
Fuel tank capacity	30 L
Tool speed RPM	1550 min ⁻¹
Starter	Electric
Raise and Lower	Electro-hydraulic
Propelling	Automatic
Hand Arm Vibrations	9,42 m/s ²
Sound power / pressure level	114 dB (A) / 100 dB (A)
Dimensions (LxWxH)	1430 x 820 x 1280mm
Weight	660kg

ACCESSORIES



CS451	Item No	EAN 13 Code
Kit for twin blade mounting	3103 57954	5450248 446507

CSB1	Item No	EAN 13 Code
2 - Kit for 600mm blade guard	3100 05876 *	5450248 129226
Kit guard + pulleys for Ø350mm (CSB1 P21)	3100 06678 *	5450248 176725
3 - Kit water tank	3104 19088	5450248 534402

* Availability on request.



CK31	Item No	EAN 13 Code
Rotating warning light	3100 34409 *	5450248 237594
Spotlight kit	3100 24378 *	5450248 237617
350 blade conversion kit	3100 48104 *	5450248 350156
4 - Kit electric water pump	3100 33192	5450248 373711
Blade guard αØ700mm	3100 24380	5450248 396093

* Availability on request.





ELECTRIC FLOOR SAWS

C99 E 75.3

5,5 kW
Ø 350-450mm
105kg
Electric
400V 3~

The CLIPPER C99 E 75.3 is a robust, low vibration floor saw with ergonomics features and easy maintenance.

The dust-free C99 E.T has an inverted way of rotation to evacuate the dust towards the dust extraction hood fitted in the special blade guard.



C99 E 75.3



C99 E.T 75.3

Machines delivered without diamond blade.



Water hose connector



Grease nipples



Twin blade mounting



Dust connector (C99 E.T 75.3)



We recommend the use of NORTON SILENCIO FS diamond blade

FEATURES

Heavy duty frame
Continuous depth control with hand wheel and gauge
Water hose connector
Adjustable handles height, whatever cutting depth

BENEFITS

Robust, low vibration level
Quick, easy and accurate setting
Allows wet cutting
Ergonomic user's working position

MODELS	C99 E 75.3	C99 E .T 75.3
Item No	701846 13946	701846 21068 *
EAN 13 Code	5450248 170662	5450248 306771
TECHNICAL DATA		
Supply Voltage	400V 3~	400V 3~
Power kW	5,5kW (7,5 Hp)	5,5kW (7,5 Hp)
Fuse/Generator	16A / 14 kVA	16A / 14 kVA
Max. blade x bore	Ø 450 x 25,4mm	Ø 350 x 25,4mm
Max. cutting depth	165mm	165mm
Tool speed RPM	2850 min ⁻¹	2850 min ⁻¹
Starter	Electric	Electric
Raise and lower	Manual	Manual
Propelling	Push	Push
Hand Arm Vibrations	2,96 m/s ²	2,96 m/s ²
Sound power / pressure level	94 dB (A) / 80 dB (A)	94 dB (A) / 80 dB (A)
Dimensions (LxWxH)	1160 x 512 x 990mm	1160 x 512 x 990mm
Weight	105kg	105kg

* Availability on request.

CS 7,5 E

7,5kW
 Ø 800mm
 118kg
 Electric
 400V 3~



The CLIPPER CS7,5 E is a basic machine with manual feed, hand wheel raise and lower mechanism.

Machine delivered without diamond blade.



Water hose connector



Integrated lifting hook



Adjustable handles



Hand wheel depth control system

FEATURES

Heavy duty frame
 Electrical motor
 Compact design with easily removable motor
 Adjustable handles height, whatever cutting depth

BENEFITS

Robust, low vibration level
 No gas emission, low noise level, adapted to confined areas
 Easy transport
 Ergonomic user's working position

MODEL	CS 7,5 E 800
Item No	701846 23924
EAN 13 Code	5450248 333623
TECHNICAL DATA	
Supply Voltage	400V 3~
Power kW	7,5kW (10 Hp)
Fuse/Generator	16A / 19 kVA
Max. blade x bore	Ø 800 x25,4mm
Max. cutting depth	320mm
Tool speed RPM	1460 min ⁻¹
Starter	Electric
Raise and lower	Manual
Propelling	Push
Hand Arm Vibrations	4,86 m/s ²
Sound power/ pressure level	94 dB (A) / 80 dB (A)
Dimensions (LxWxH)	1270 x 580 x 1000mm
Weight	118kg





The CLIPPER Solutions

TILE SAWS



TABLE TILE SAWS



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	TT180 BM	TT200 EM	TT250 G
Power	550W	800W	1000W
Max. blade diameter	Ø 180mm	Ø 200mm	Ø 250mm
Max. cutting depth	34mm	40mm	55mm
Table size	395 x 385mm	460 x 360mm	560 x 500mm

Ideal for rental and professional tilers

RAIL TILE SAWS



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	TR201 E	TR230 GS	TR231 GL	TR250 H
Power	900W	1100W	1100W	1300W
Max. blade diameter	Ø 200mm	Ø 230mm	Ø 230mm	Ø 250mm
Max. cutting depth	35mm	45mm	45mm	60mm
Max. cutting length	650mm	860mm	1200mm	1000mm
Mitre cutting	0 to 45°	0 to 45°	0 to 45°	0 to 45°
Folding feet & transport wheels	✓	✓	✓	✓
Side extension	✗	✗	✓	✓
Weight	34kg	61kg	72kg	66kg

*Ideal for tiles
up to 60x60cm*

*Longest cutting
length*

RAIL STONE SAWS



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	CMR351	CST Modulo	
Power	2,2kW 230V 1~	2,2kW 230V 1~	
Max. blade diameter	Ø 350mm	Ø 350mm	
Max. cutting depth	100mm	110mm	
Max. cutting length	1150mm	850mm	1000mm
Max. material height	130mm	160mm	
Table size (mm)	1150x515	1100x660	125x660
Mitre cutting	Tilting head 0 to 45°	Tilting head 0 to 45°	Tilting head 0 to 45°
Folding feet	✓	✓	✓
Weight	125kg	127kg	134kg

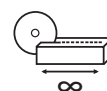
*Aluminium frame.
Ideal for stone cutting.*



TILE SAWS

TT180 BM

550W
Ø 180mm



11kg
230V 1~



A small and lightweight table top tile saw easily transportable with its protecting case.



Easy transportation and storage



Removable plastic water tray



Light and compact



Suitcase



Machine delivered with a Clipper CLASSIC CERAM Ø180mm diamond blade

FEATURES

Delivered in a strong plastic suitcase

Removable plastic water tray

Tilting table

Light weight

BENEFITS

Machine protected for easy transportation and storage

Easy cleaning and water filling

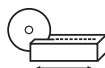
Perfect for mitre cut from 0° to 45°

Easy to move and to handle

MODEL	TT180 BM
Item No	701846 25699
EAN 13 Code	5450248 347354
TECHNICAL DATA	
1 diamond blade included	Ø 180mm CLASSIC CERAM
Supply Voltage	230V 1~
Power W	550W (0,75)
Fuse/Generator	16A / 2 kVA
Max. blade x bore	Ø 180 x 25,4mm
Tilting table	0 to 45°
Max. cutting depth at 90° / at 45°	34mm / 24mm
Max. cutting length	∞
Table size	395 x 385mm
Tool speed RPM	2950 min ⁻¹
Hand Arm Vibrations	< 2,5 m/s ²
Sound power / pressure level	80 dB (A) / 72 dB (A)
Dimensions (LxWxH)	440 x 390 x 230mm
Packaging size	480 x 460 x 240mm
Weight	11kg

TT200 EM



800W
 Ø 200mm

 ∞
 16kg
 230V 1~

A professional table-top tile saw with a powerful 800W motor. Its unique plastic frame serves as an embedded water tank.



Transport handle



Tilting table
(0° to 45°)



Fast and precise locking
cutting guide



Suitcase : easy
transportation and storage



Machine delivered with a
Clipper CLASSIC CERAM
Ø200mm diamond blade

FEATURES	BENEFITS
800W motor	Powerful and professional machine
Delivered in a strong plastic suitcase	Machine protected for easy transportation and storage
Tilting table	Perfect for mitre cut from 0° to 45°
Fast and precise locking cutting guide	Quick set up and accurate cutting

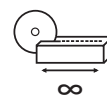
MODEL	TT200 EM
Item No	701846 25701
EAN 13 Code	5450248 347361
TECHNICAL DATA	
1 diamond blade included	Ø 200mm CLASSIC CERAM
Supply Voltage	230V 1~
Power W	800W (1,1)
Fuse/Generator	16A / 2 kVA
Max. blade x bore	Ø 200 x 25,4mm
Tilting table	0 to 45°
Max. cutting depth at 90° / at 45°	35mm / 20mm
Max. cutting length	∞
Table size	460 x 360mm
Tool speed RPM	2950 min ⁻¹
Hand Arm Vibrations	< 2,5 m/s ²
Sound power / pressure level	80 dB (A) / 72 dB (A)
Dimensions (LxWxH)	510 x 400 x 230mm
Packaging size	560 x 500 x 270mm
Weight	16kg



TILE SAWS

TT250 G

1000W
Ø 250mm



26kg
230V 1~



A powerful professional table top tile saw with a unique disc guard support avoiding interference with products.



Tilting table
(0° to 45°)



Removable water tank



Folding stand
(option)



Packaging



Machine delivered with a
Clipper CLASSIC CERAM
Ø250mm diamond blade

FEATURES

1000 W motor
Tilting table
Removable water tank
Stainless steel table

BENEFITS

Powerful and professional machine
Perfect for mitre cut from 0° to 45°
Easy blade change and water drain
Robust and long lasting

MODEL	TT250 G
Item No	701846 25705
EAN 13 Code	5450248 347385
TECHNICAL DATA	
1 diamond blade included	Ø 250mm CLASSIC CERAM
Supply Voltage	230V 1~
Power W	1000W (1,4)
Fuse/Generator	16A / 3 kVA
Max. blade x bore	Ø 250 x 25,4mm
Tilting table	0 to 45°
Max. cutting depth at 90° / at 45°	55mm / 35mm
Max. cutting length	∞
Table size	560 x 500mm
Tool speed RPM	2950 min ⁻¹
Hand Arm Vibrations	< 2,5 m/s ²
Sound power / pressure level	79 dB (A) / 71 dB (A)
Dimensions (LxWxH)	620 x 600 x 355mm
Packaging size	690 x 610 x 420mm
Weight	26kg


ACCESSORIES	Item No	EAN 13 Code
Water tray	3100 04596	5450248 094197



Folding stand	3100 04597	5450248 094203
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TR201 E

900W
 Ø 200mm

 650mm
 35kg
 230V 1~

A 650mm cutting length professional tile saw including folding legs and powerful 900W motor.

Cutting guide

Removable water tray

Transport wheels

Tilting head
(0 to 45°)Machine delivered with a
Clipper CLASSIC CERAM
Ø200mm diamond blade

FEATURES

900W motor
 650mm cutting length
 Folding legs & transport wheels
 Tilting head

BENEFITS

Powerful and professional machine
 Ideal for long tiles and diagonal cuts of 40x40cm tiles
 Easy transportation and storage
 Perfect for mitre cut from 0° to 45°

MODEL	TR201 E
Item No	701846 41371
EAN 13 Code	5450248 470601
TECHNICAL DATA	
1 diamond blade included	Ø 200mm CLASSIC CERAM
Supply Voltage / Power W	230V 1~ / 900W
Fuse/Generator	16A / 3 kVA
Max. blade x bore	Ø 200 x 25,4mm
Tilting head	0 to 45°
Max. cutting depth at 90° / at 45°	35mm / 25mm
Max. cutting length	650mm
Table size	810 x 470mm
Tool speed RPM	2950 min ⁻¹
Hand Arm Vibrations	< 2,5 m/s ²
Sound power / pressure level	80 dB (A) / 72 dB (A)
Dimensions (LxWxH)	930 x 470 x 1200mm
Dimensions (LxWxH) (folded legs)	930 x 470 x 400mm
Packaging size	1020 x 490 x 465mm
Weight	35kg

ACCESSORIES	Item No	EAN 13 Code
Laser kit	3100 47996	5450248 344704

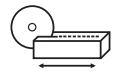




RAIL TILE SAWS

TR230 GS

1100W
Ø 230mm



860mm

61kg

230V 1~



TR230GS is a professional tile saws with powerful motor (1,1kW) and cutting length adapted to large tiles (860mm).



Cutting guide with angular setting



Easily removable cutting table



Tilting head (0 to 45°)



Machine delivered with a Clipper SUPER GRES XT Ø230x25,4mm diamond blade

FEATURES

Tilting head
Easy removal of cutting table
Foldable handles
Cutting guide with angular setting

BENEFITS

Perfect for mitre cut from 0° to 45°
Quick and easy cleaning
Easy transportation
Precise angle cuts

MODEL

TR230 GS

Item No **701846 29664**
EAN 13 Code **5450248 405511**

TECHNICAL DATA

1 diamond blade included	Ø 230mm SUPER GRES XT
Supply Voltage / Power W	230V 1~ /1,1kW
Fuse/Generator	16A / 3 kVA
Max. blade x bore	Ø 230 x 25,4mm
Tilting head	0 to 45°
Max. cutting depth at 90° / at 45°	45mm / 35mm
Max. cutting length	860mm
Table size	860 x 565mm
Tool speed RPM	2950 min ⁻¹
Hand Arm Vibrations	< 2,5 m/s ²
Sound power / pressure level	71 dB (A) / 79 dB (A)
Dimensions (LxWxH)	1560 x 600 x 1175mm
Weight	61kg

ACCESSORIES

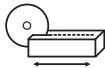
Item No

EAN 13 Code

Laser kit 3100 47996 5450248 344704



TR231 GL

1100W
 Ø 230mm

 1200mm
 72kg
 230V 1~



TR231GL is a professional tile saws with powerful motor (1,1kW) and cutting length adapted to very large tiles (1200mm). Its reinforced frame and cutting head rail ensure a very precise cut. The rubber-covered table and the additional fixing clamps prevent vibrations to provide the best cutting quality.



New leg stability system



Angular cutting guide / Rubber-covered table



Easily removable cutting table



Adjustable clamps for fixing the tiles



Machine delivered with a Clipper SUPER GRES XT Ø230x25,4mm diamond blade

FEATURES

Tilting head with long handle
 Easy removal of cutting table
 Foldable handles and transport wheels
 2 cutting guides : lateral and angular

BENEFITS

Ergonomic operation and perfect for mitre cut from 0° to 45°
 Quick and easy cleaning
 Easy transportation
 Accurate tiles positioning

MODEL	TR231 GL
Item No	701846 41991
EAN 13 Code	5450248 495291
TECHNICAL DATA	
1 diamond blade included	Ø 230mm SUPER GRES XT
Supply Voltage / Power W	230V 1~ /1,1kW
Fuse/Generator	16A / 3 kVA
Max. blade x bore	Ø 230 x 25,4mm
Tilting head	0 to 45°
Max. cutting depth at 90° / at 45°	45mm / 35mm
Max. cutting length	1200mm
Table size	1200 x 565mm
Tool speed RPM	2950 min ⁻¹
Hand Arm Vibrations	< 2,5 m/s ²
Sound power / pressure level	71 dB (A) / 79 dB (A)
Dimensions (LxWxH)	1860 x 600 x 1175mm
Weight	72kg


ACCESSORIES	Item No	EAN 13 Code
Laser kit	3100 47996	5450248 344704





RAIL TILE SAWS

TR250 H

1300W
 Ø 250mm

 1000mm
 66kg
 230V 1~



The Clipper TR250 H is a robust and high quality machine completing perfectly our tile saws product range. Its maximum cutting length reaches 1000mm.



Plunging cutting head



Folding feet and transport wheels



Cutting guide included



Accessories



Machine delivered with a Clipper CLASSIC CERAM Ø250mm diamond blade

FEATURES

1300W motor
 650mm cutting length
 Folding legs & transport wheels
 Tilting head

BENEFITS

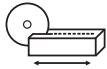
Powerfull and professional machine
 Ideal for long tiles and diagonal cuts of 40x40cm tiles
 Easy transportation and storage
 Perfect for mitre cut from 0° to 45°

MODEL	TR250 H
Item No	701846 29084
EAN 13 Code	5450248 398899
TECHNICAL DATA	
1 diamond blade included	Ø 250mm CLASSIC CERAM
Supply Voltage / Power W	230V 1~ / 1300W
Fuse/Generator	16A / 3 kVA
Max. blade x bore	Ø 250 x 25,4mm
Tilting head	0 - 45°
Max. cutting depth at 90° / at 45°	60mm / 30mm
Max. cutting length	1000mm
Table size	1110 x 490mm
Tool speed RPM	2800 min ⁻¹
Hand Arm Vibrations	< 2,5 m/s ²
Sound power / pressure level	87 dB (A) / 73 dB (A)
Dimensions (LxWxH)	1400 x 670 x 1460mm
Dimensions (LxWxH) (folded legs)	1400 x 670 x 690mm
Packaging size	1420 x 680 x 530mm
Weight	66kg

ACCESSORIES	Item No	EAN 13 Code
Laser kit	3100 47996	5450248 344704



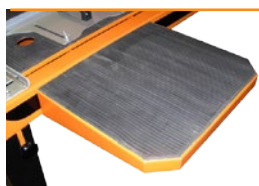
CMR351

2,2kW
 Ø 350mm

 1150mm
 125kg
 230V 1~



The Clipper CMR351 is a simple and robust saw dedicated to stone cutting, featuring both tilting rail and head.

Machine delivered without diamond blade.



Built-in side extension



Retractable handles



Lateral guide-a-cut



Three handles



Tilting head and rail
(0 to 45°)

FEATURES

Removable feet and retractable handles
 Built-in side extension
 Lateral guide-a-cut
 Tilting head (cutting depth direction)

BENEFITS

Easy transportation and storage
 Better stability when cutting large materials
 High accuracy cuts with long materials
 Adaptation of cutting depth

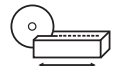
MODEL	CMR351
Item No	701846 30429
EAN 13 Code	5450248 440819
TECHNICAL DATA	
Supply Voltage / Power kW	230V 1~ / 2,2kW
Fuse/Generator	16A / 6kVA
Max. blade x bore	Ø 350 x 25,4mm
Tilting head	0 to 45°
Max. cutting depth	100mm
Max. cutting length	1150mm
Max. material height	130mm
Table size	1150 x 515mm
Tool speed RPM	2800 min ⁻¹
Hand Arm Vibrations	< 2,5 m/s ²
Sound power / pressure level	92 dB(A) / 80 dB(A)
Dimensions (LxWxH)	1650 x 700 x 1550mm
Dimensions (LxWxH) (folded legs)	1650 x 700 x 875mm
Weight	125kg





CST Modulo

2,2kW
Ø 350mm



850 >
1000mm

127 >
134kg

230V 1~

Especially dedicated to the stone cutting, the CLIPPER CST Modulo range of masonry saws is among the most robust machines.



CST Modulo 85



CST Modulo 100

Machines delivered without diamond blade.



Easy to open table
in two parts



Swivel mounted
cutting head



Adjustable angle of cut
0°-45°



Side extension roller



Side extension flat

FEATURES

Folding legs & transport wheels

Aluminium water tray

Built with extruded aluminium profiles

High accuracy standard cutting guide with per degree angular setting

BENEFITS

Easy transportation and storage

Resistant and easy cleaning

Extreme rigidity and lifetime

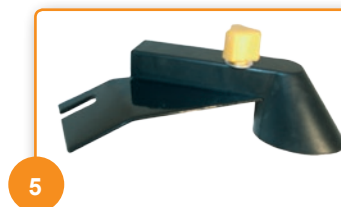
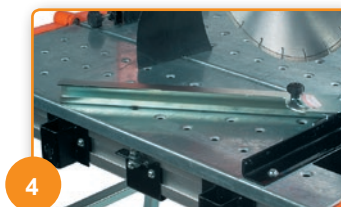
Quick and easy cut without additional accessory

MODELS	CST Modulo 85	CST Modulo 100
Item No	701846 20266	701846 20024
EAN 13 Code	5450248 227335	5450248 226970
TECHNICAL DATA		
Supply Voltage / Power kW	230V 1~ / 2,2kW	230V 1~ / 2,2kW
Fuse/Generator	16A / 5 kVA	16A / 5 kVA
Max. blade x bore	Ø 350 x 25,4mm	Ø 350 x 25,4mm
Tilting head	0 to 45°	0 to 45°
Max. cutting depth	110mm	110mm
Max. cutting length	850mm	1000mm
Max. material height	160mm	160mm
Table size	1100 x 660mm	1250 x 660mm
Tool speed RPM	2800 min ⁻¹	2800 min ⁻¹
Hand Arm Vibrations	< 2,5 m/s ²	< 2,5 m/s ²
Sound power / pressure level	87 dB (A) / 73 dB (A)	87 dB (A) / 73 dB (A)
Dimensions (LxWxH)	1130 x 660 x 1485mm	1480 x 660 x 1485mm
Dimensions (LxWxH) (folded legs)	1130 x 660 x 905mm	1480 x 660 x 905mm
Weight	127kg	134kg

ACCESSORIES



CST MODULO		Item No	EAN 13 Code
1 -	Side extension roller	3100 08263	5450248 158448
2 -	Side extension flat	3100 08264	5450248 158455
3 -	Lateral guide-a-cut	3100 08265	5450248 158462
4 -	Cutting guide 0 to 45°	3100 08268	5450248 158493
5 -	Laser Kit	3100 47997	5450248 373605







The CLIPPER Solutions

HANDHELD CUT-OFF SAWS



	CP512 300	CP512 300i	CP514 350	CP514 350i
Power	4kW - 5,4HP	4kW - 5,4HP	4kW - 5,4HP	4kW - 5,4HP
Max. diameter	Ø 300mm	Ø 300mm	Ø 350mm	Ø 350mm
Easy Start	✓	✓	✓	✓
i-Lube™ separate lubrication	✗	✓	✗	✓





HANDHELD CUT-OFF SAWS

CP500s range

FAST ENOUGH TO GET YOU ON AND OFF THE JOB. TOUGH ENOUGH TO LAST.

Norton Clipper introduces a new option for hand held cut-off saws. Raw power for smooth, fast cuts with features that prolong saw life, prevent engine damage and guarantee everyday reliability.

MADE IN GERMANY



KEY FEATURES

USER-FRIENDLY

- 4kW / 5,4HP powerful motor.
- Electronic carburator allows an easy 3-step engine start. No more choke or half-throttle set-up.
- Easy stopping : just press the red button!
- 5-spring anti-vibration system.
- Back-end handle and enhanced weight balance.
- iLube® : No more worrying about 2-stroke fuel mixtures. Just fill with regular fuel and 2-stroke oil!

LONG-LIFE and LOW MAINTENANCE

- Easy semi-automatic belt tensioning.
- Multi-Stage Air Filter with pulsating air streams. Fitted with external rocker wheel to keep the filters from clogging.
- Magnesium blade guard for extra safety and lighter weight.
- Nikasil-coated cylinder and heavy duty starter rope for longer life.
- V-belt for driving cutting blade.
- Tank caps with over-tightening protection.



No More Pre-Mixing Oil & Fuel *



AUTOMATIC MIX

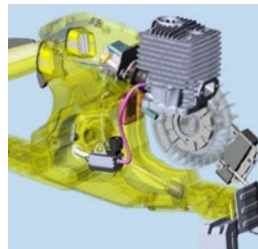
Fill oil and fuel tanks separately.
The internal oil pump and sensor mix them perfectly for enhanced longevity.

Save fuel costs through buying fuel and oil separately instead of expensive pre-mix.

Fill in the 2 distinct tanks and the patented iLube® system will automatically mix oil and fuel for maximum efficiency and prevent damage.

Save maintenance costs with iLube® system.
No more damage from overheating from forgetting oil, or piston clogging through too rich mixes.

* Available only on CP512i and CP514i.



3-Step Easy Start – Hot or Cold

The electronic carburetor's electro-magnetic valve eliminates the standard choke and half throttle start.

Simply turn the saw on, and:

1. Push the primer 3x
2. Push decompression button
3. Pull the recoil



Multi- Stage Air Filtration

Patented twin-pipe interceptors create an air pulsation that draws fresh air in while pushing hot air away from the engine and releasing it out of 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.



ACCESSORIES	Item No	EAN 13 Code
10L pressure water tank	3104 64031	5450248 684640



35L electric water tank	3104 64029	5450248 684633
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TECHNICAL DATA

MODEL	CP512-300	CP512-300 iLube®	CP514-350	CP514-350 iLube®
Item No	701846 47558	701846 47560	701846 47562	701846 47564
EAN 13 Code	5450248 563105	5450248 563112	5450248 563129	5450248 563136
TECHNICAL DATA				
Power	4,0kW / 5,4HP	4,0kW / 5,4HP	4,0kW / 5,4HP	4,0kW / 5,4HP
Max. blade x bore	Ø 300 x 20 / 25,4mm	Ø 300 x 20 / 25,4mm	Ø 350 x 20 / 25,4mm	Ø 350 x 20 / 25,4mm
Max. cutting depth	100mm	100mm	125mm	125mm
Rotation speed (RPM)	4450 min ⁻¹	4450 min ⁻¹	4450 min ⁻¹	4450 min ⁻¹
Petrol + oil	≥ 92 RON +2% 	≥ 92 RON + iLube® Automatic Mix	≥ 92 RON +2% 	≥ 92 RON + iLube® Automatic Mix
Water cooling	✓	✓	✓	✓
Sound power / pressure level	108 dB (A) / 98 dB (A)	108 dB (A) / 98 dB (A)	108 dB (A) / 98 dB (A)	108 dB (A) / 98 dB (A)
Hand-Arm Vibration				
Dimensions	430 x 267 x 750mm	430 x 267 x 775mm	430 x 267 x 750mm	430 x 267 x 775mm
Weight	10,1kg	10,2kg	10,4kg	10,5kg

*The Norton Clipper hand held cut-off saws are covered by a 6-month commercial warranty, from the date of sale.
Warranty conditions are detailed in the instruction manual.*



The CLIPPER Solutions

DRILL RIGS & DRILLING MOTORS

HANDHELD DRILLING MOTORS



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	CDM 163	DK 17	CDM 203	TALPA T1
Power	1800W	2000W	2200W	2200W
Volts	230V 1~	230V 1~	230V 1~	230V 1~
Ø Range speed	Ø 15 - 160mm	Ø 20 - 200mm	Ø 15 - 200mm	Ø 20 - 200mm
Weight	8,1kg	6,3kg	8,5kg	7,5kg



Each Norton Clipper CDM drilling motor benefits from an additional 12-month commercial warranty, to reach a total of 2-year warranty from the date of purchase.

DRILLING MOTORS FOR RIG MOUNTING



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	NBM 251	NBM 351	4004-4	DK42	DK52
Power	2500W	3300W	2800W	3900W	5200W
Volts	230V 1~	230V 1~	230V 1~	400V 3~	400V 3~
Ø Range speed	Ø 25 - 250mm	Ø 30 - 350mm	Ø 60 - 350mm	Ø 70 - 420mm	Ø 110 - 500mm
Weight	11,5kg	12,5kg	14,5kg	21kg	22,5kg

DRILL RIGS



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	CDR133	CDR163	CDR253	CDR353	CDR353 + Spacer
Ø Max.	Ø 130mm	Ø 160mm	Ø 250mm	Ø 350mm	Ø 400mm
Hub	600mm	600mm	600mm	690mm	690mm
Base dimensions	230 x 380mm	280 x 460mm	350 x 540mm	370 x 550mm	370 x 550mm
Carriage travel	1:1	1:1	1:1	1:1 + 2:1	1:1 + 2:1
Tilting	0 - 45°	0 - 45°	0 - 45°	0 - 45°	0 - 45°
Transport wheels	✗	✗	✓	✓	✓
Height	910mm	850mm	970mm	1080mm	1080mm
Weight	8,9kg	9,6kg	13kg	23,4kg	23,9kg



DRILL RIGS



SELECTION CHART FOR DRILLING EQUIPEMENT



WET & DRY DRILLING WITH HANDHELD DRILLING MOTORS

Handheld application only up to Ø 80mm
Rig-mounted in masonry materials up to Ø 160mm
Rig-mounted in reinforced concrete up to Ø 130mm

CDM 163 - 1800W



Handheld application only up to Ø 80mm
Rig-mounted in masonry materials up to Ø 200mm
Rig-mounted in reinforced concrete up to Ø 160mm

CDM 203 - 2000W



Select the right drill rig for handheld motor:

Up to Ø130mm

CDR 133



Up to Ø160mm

CDR 163



Up to Ø200mm

CDR 253*



* Requires optional
60mm motor adaptor ring
(310388827)



Optional accessories:



Drilling centering device
(310456235)



Dust swivel for CDM163
(310389028)



Dust & water
extractor CV402
(310436601)



Vacuum kits (310474123,
310470435, 310474124)



Vacuum pump
(310469674)



WET DRILLING WITH A RIG-MOUNTED DRILLING MOTOR

Reinforced concrete up to Ø250mm

NBM 251 - 2500W



Reinforced concrete up to Ø400mm

NBM 351 - 3300W



Up to Ø250mm

CDR 253



Up to Ø350mm

CDR 353



Up to Ø400mm

**CDR 353
+ spacer (310472133)**



Optional accessories:



Vacuum kits
(310474124, 310474125)



Vacuum pump
(310469674)



Water
collector
(310470303,
310477208,
310470304)



Dust & water
extractor
CV402 (310436601)

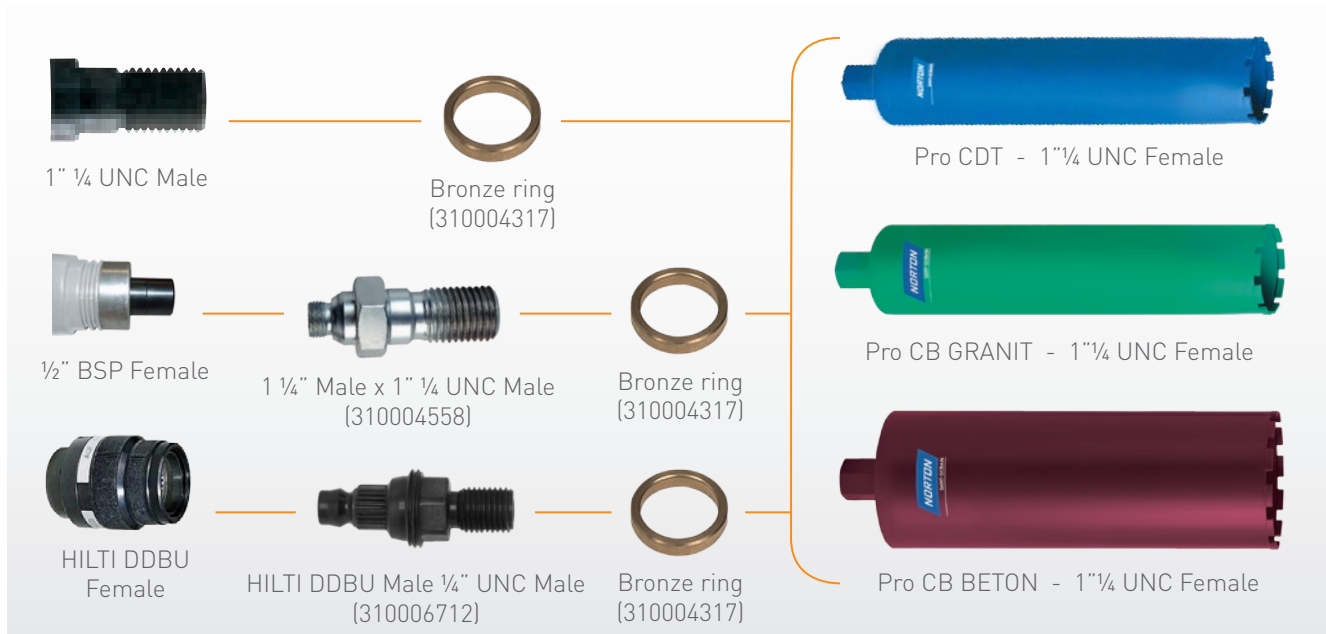


35L electric
water tank
(310464029)

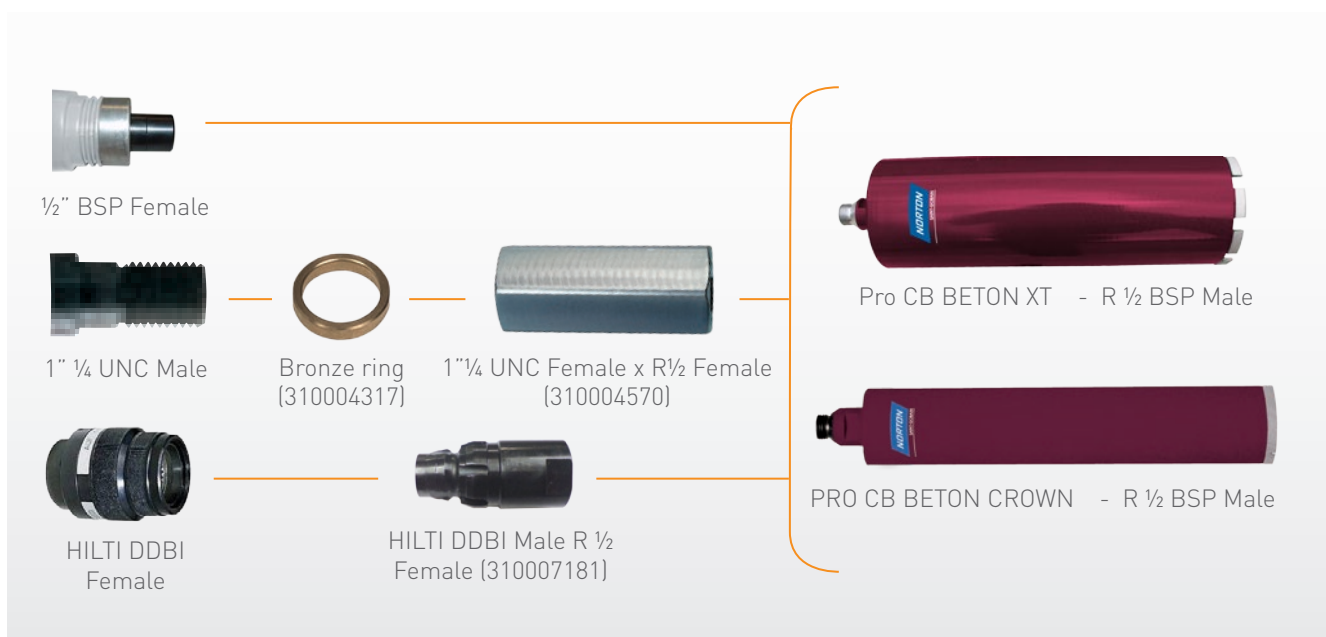




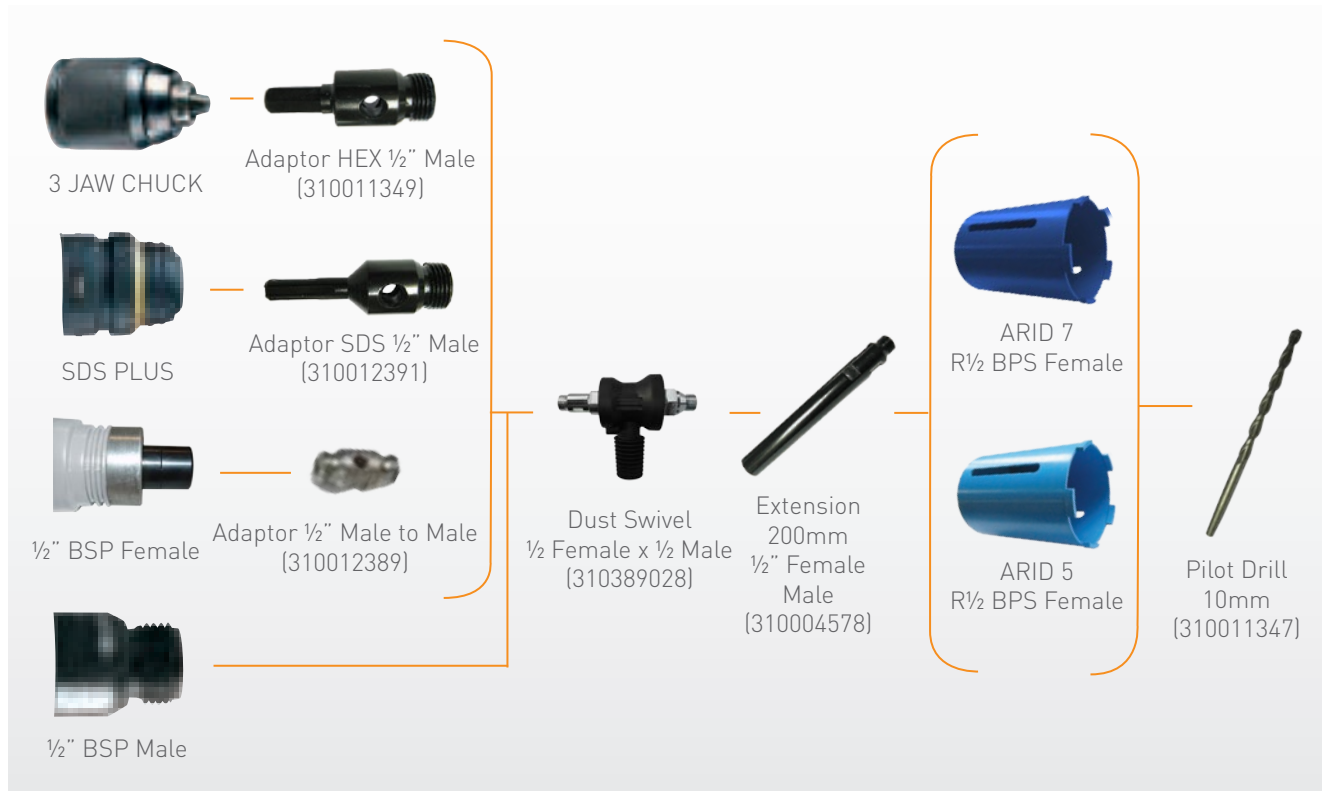
Wet handheld drilling with corebit 1" 1/4 UNC Female



Wet handheld drilling with corebit R 1/2 BSP Male



Dry handheld drilling with corebit R $\frac{1}{4}$ BSP Female



Dry handheld drilling M16 Female





HANDHELD DRILLING MOTORS

CDM 203

P 2,2kW / Ø 15-200mm / 8,5kg / ½" + 1 ¼" / 3 speeds /   



Powerfull 2,2kW and reliable 3 speeds handheld drill motor with combined spindle ½" + 1 ¼". Can also be used in a drill stand.

Each Norton Clipper CDM drilling motor benefits from an additional 12-month commercial warranty, to reach a total of 2-year warranty from the date of purchase.



Soft bi-material handle



Easy access to motor brushes



Dual water-inlet and dust-collector connector



Differential switch 230 V 16 A – 10 mA



Strong transport suitcase



Combined spindle.



3-speed gearbox.

FEATURES

Powerful 2000W drilling motor.

Combined spindle.

Ergonomic handles.

60mm ring on body.

3-speed gearbox.

Oil-bath lubricated gearbox.

Mechanical clutch.

Soft-start switch.

Overload protection.

Delivered in suitcase.

BENEFITS

- For both handheld and rig-mounted drilling.
- For the mounting of 1 ¼" and ½" corebits.
- Easy torque-control and comfortable work.
- Can be mounted on drill rigs.
- For a wide drilling diameter range.
- Maintenance-free life-long lubrication.
- For user's safety.
- Limitation of starting current and speed.
- Protection of electrical and mechanical parts for longer life.
- Easy and safe transportation.

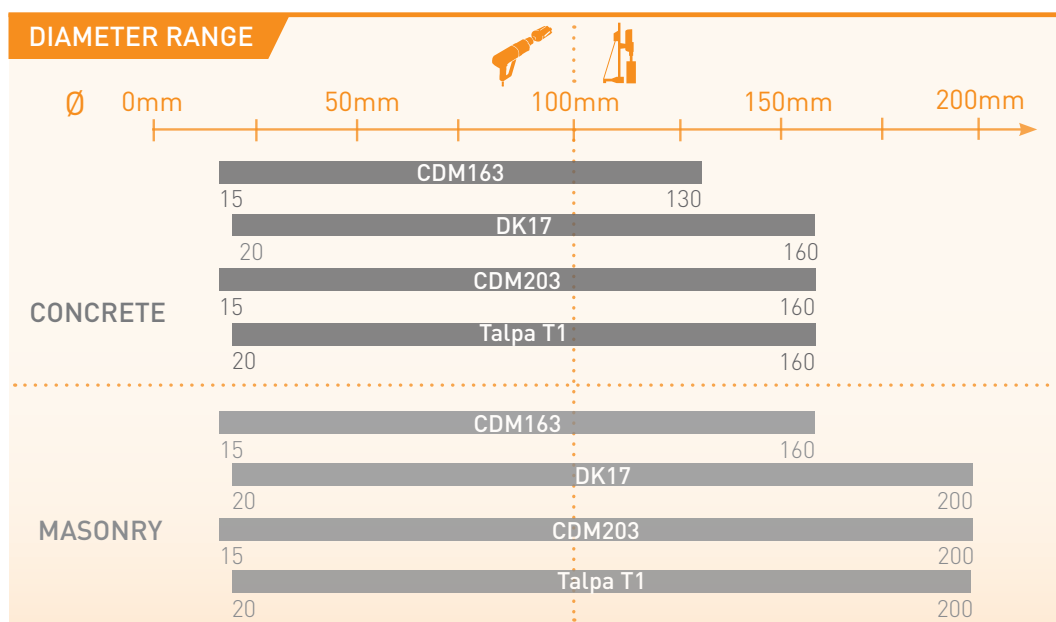
HANDHELD DRILLING MOTORS

All motors are delivered with differential switch (PRCD), 10mA.



TECHNICAL DATA	W	Volts	Ø Range	Dry	Wet	Connec- tion	RPM ¹	Weight	Item No	EAN 13 Code
1. CDM163***	1800	230V1~	15-160 mm	Yes**	Yes	½ + 1"¼	540/1200 /2280	8kg	701846 47807	5450248 571568
2. Weka DK17***	2000	230V1~	20-200 mm	Yes	Yes	½ + 1"¼	580/1400 /2900	6,3kg	3100 48004	5450248 373629
3. CDM203***	2000	230V1~	15-200 mm	Yes	Yes	½ + 1"¼	240/1200 /2900	8,5kg	701846 47808	5450248 571575
4. Cardi TALPA T1 MAN N EL41***	2200	230V1~	20-200 m	Yes**	Yes	½ + 1"¼	530/1280 /1780	7,5kg	3100 06973*	5450248 189695

¹ RPM under load. * Availability on request. ** See our dust swivel at p.125. *** Engine delivered in a strong plastic suitcase.





P 3,3kW / Ø 30-350mm / 12,5kg / 1 1/4" / 3 speeds /



Powerful, reliable and compact 3-speed wet-drilling motor for rig mounting.



Easy access
to motor brushes



Carrying handle



Fixture compatible
with most drill rigs



Differential switch
230 V 16 A – 10 mA

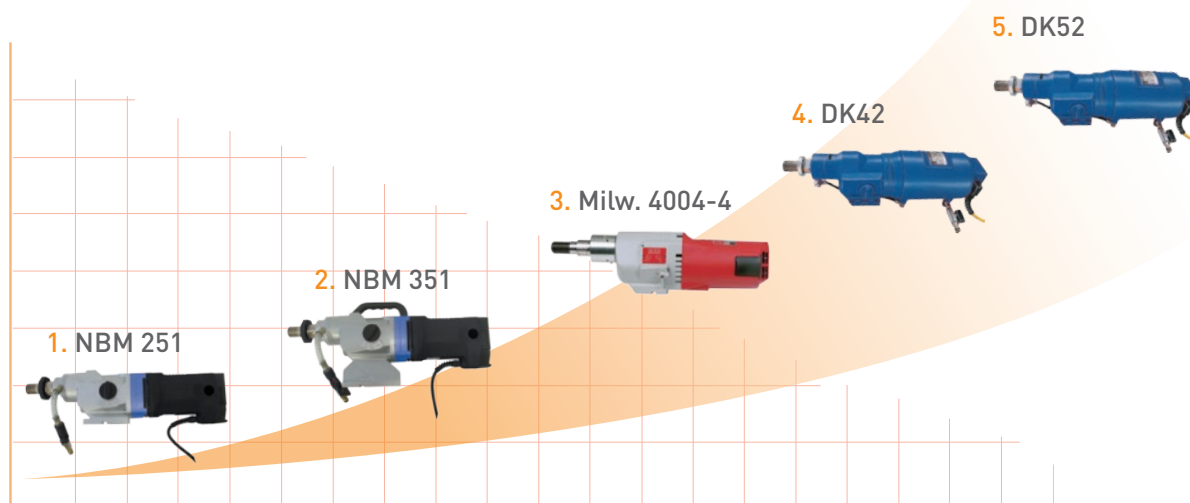


3-speed gearbox.

FEATURES	BENEFITS
3300W motor.	• Powerful and professional motor.
3-speed gearbox.	• For a wide drilling diameter range.
Standard motor mounting fixture.	• Fits to most drilling rigs on the market.
Overload protection.	• Protection of electrical and mechanical parts for longer life.
LED load indicator.	• For optimum drilling in-feed and longer life.
Soft-start switch.	• Limitation of starting current.
Mechanical clutch.	• For optimal protection of motor and tools.
Oil-bath lubricated gearbox.	• Maintenance-free life-long lubrication.

DRILL RIG MOTORS

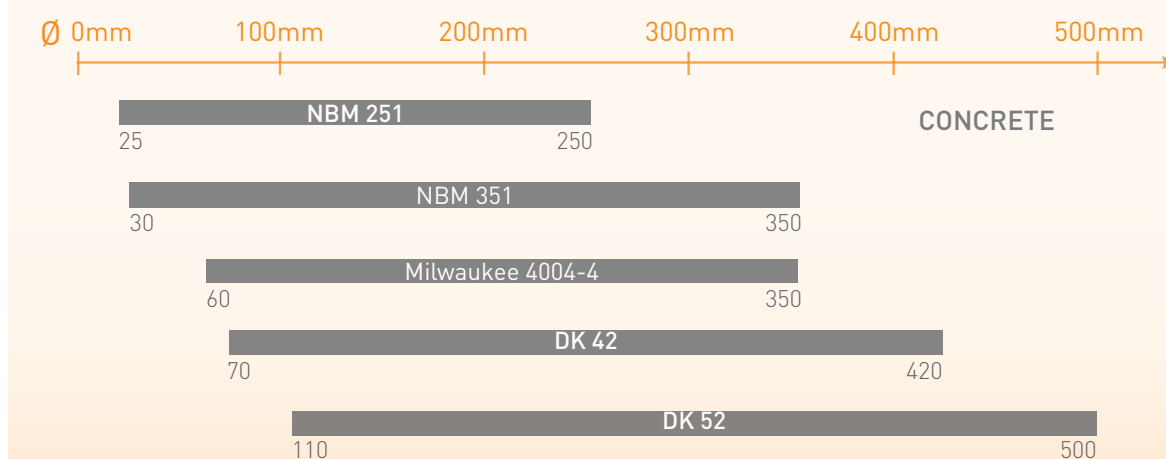
All motors are delivered with differential switch (PRCD), 10mA.



TECHNICAL DATA	W	Volts	Ø Range	Wet	Connec- tion	RPM ¹	Weight	Item No	EAN 13 Code
1. NBM 251	2500	230V1~	25-250mm	Yes	1"¼	310/650 /960	11,5kg	3104 05044	5450248 515722
2. NBM 351	3300	230V1~	30-350mm	Yes	1"¼	230/510 /730	12,5kg	3104 05045	5450248 515739
3. Milwaukee 4004-4	2800	230V1~	60-350mm	Yes	1"¼	300/600	14,5kg	3100 02284	5450248 126737
4. Weka DK 42 **	3900	400V3~	70-420mm	Yes	1"¼	160/340 /510	21kg	3100 05131*	5450248 115762
5. Weka DK 52 **	5200 W	400V3~	110-500mm	Yes	1"¼	120/240 /360	22,5kg	3100 06593*	5450248 172680

¹ RPM under load. * Availability on request. ** Water cooled.

DIAMETER RANGE





DRILL RIGS

CDR 133 & CDR 163

Ø 130 / 160mm / 8,9-9,6kg / 600mm



CDR 133



CDR 163

Fully Aluminium drill stand combining rigidity, precision and ease of use. Unique accurate and smooth guiding thanks to 4 guiding rolls made of high performance Nylon. Easily accessible guiding wheels for wear compensation adjustment.



Aluminium column.

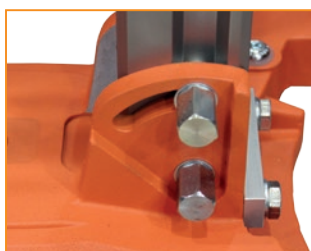


Spirit level.

FEATURES	BENEFITS
Aluminium column.	• Robust, reliable while light weight.
Left and right mounting drive-lever.	• Easy to use even in confined environments.
Multi-purpose drive-lever.	• Can be used for levelling and locking screws.
Spirit level.	• For accurate column levelling.
Rolls-guided carriage.	• High accuracy drill guiding, little maintenance.
Ring mounting motor collar (60mm).	• Quick and easy motor mounting without any additional tools.
Transport handle.	• Easy and ergonomic handling.
Pre-mounted rig.	• Use it directly out of the box.

DRILL RIGS for collar mounting

MODELS	CDR 133	CDR 163
Item No	3104 68576	3104 68577
EAN 13 Code	5450248 690726	5450248 690733
TECHNICAL DATA		
Diam. Max	130mm	160mm
Hub	600mm	600mm
Column	Aluminum	Aluminum
Column section	45 x 60mm	45 x 60mm
Base	Dowel + vaccum	Dowel + vaccum
Base dimensions	230 x 380mm	280 x 460mm
Bit guide	No	No
Motor mounting plate	Ring 60mm	Ring 60mm
Carriage	Aluminum	Aluminum
Carriage Guiding system	Rolls	Rolls
Carriage handle	Yes	Yes
Carriage travel	1:1	1:1
Braces	No	Yes
Tilting	0-45°	0-45°
Spirit level	Yes	Yes
Transport wheels	no	no
Height	910mm	850mm
Weight	8,9kg	9,6kg



Tilting 0 - 45°.



Carriage guiding system by rolls.



Left and right mounting drive lever.





CDR 253 & CDR 353

Ø 250 / 400mm / 11-13,5kg / 0 - 45° / 690mm



CDR 253



CDR 353

Fully Aluminium drill stand combining rigidity, precision and ease of use. Unique accurate and smooth guiding thanks to 4 guiding rolls made of high performance Nylon. Easily accessible guiding wheels for wear compensation adjustment.



Aluminium column.



Spirit level.

FEATURES	BENEFITS
Aluminium column.	• Robust, reliable while light weight.
Rolls-guided carriage.	• High accuracy drill guiding, few maintenance.
Transport wheels.	• For easy transportation.
4 points level adjustment.	• Quicker and faster installation.
Multi-purpose drive-lever.	• Can be used for levelling and locking screws.
Standard motor mounting fixture.	• Fits to most drilling motors on the market.
Transport handle.	• Easy and ergonomic handling.
Carriage travel (CDR353).	• 2 different reports/ratio for an easy work.
Pre-mounted rig.	• Use it directly out of the box.

DRILL RIGS

MODELS	CDR 253	CDR 353	CDR 353 + SPACER
Item No	3104 68578	3104 68581	3104 68581 + 3104 72133
EAN 13 Code	5450248 690740	5450248 690757	5450248 690757 + 5450248 695196
TECHNICAL DATA			
Diam. Max	250mm	350mm	400mm
Hub	600mm	690mm	690mm
Column	Aluminum	Aluminum	Aluminum
Column section	50 x 60mm	70 x 70mm	70 x 70mm
Base	Dowel + vaccum	Dowel + vaccum	Dowel + vaccum
Base dimensions	350 x 540mm	370 x 550mm	370 x 550mm
Bit guide	No	Yes	Yes
Motor mounting plate	Plate included	Plate included	Plate included
Carriage	Aluminum	Aluminum	Aluminum
Carriage Guiding system	Rolls	Rolls	Rolls
Carriage handle	Yes	Yes	Yes
Carriage travel	1:1	1:1 + 2:1	1:1 + 2:1
Braces	Yes	Yes	Yes
Tilting	0-45°	0-45°	0-45°
Spirit level	Yes	Yes	Yes
Transport wheels	yes	yes	yes
Height	970mm	1080mm	1080mm
Weight	13kg	23,4kg	23,9kg



Simple level adjustment with 4 screws on base.



Vaccum kit (see page 123).



2 different report/ratio on the CDR353 carriage for an easy handle.



Transport wheels.



Metallic rigid pointer [CDR353].



Left and right mounting drive lever.



DRILL RIGS

COMPLETE KITS - Drill rigs with collars



Kits include drill stand with attached motor, dowel base, PRCD, tools and fixing screws (without dowel and without corebit).

Complete kits **CDR 133** :

MOTOR	POWER	MAX. DIA.	RPM	WEIGHT	ITEM NO	EAN 13 CODE
CDM 163	1800W	130mm	540/1200/2280	16,9kg	701846 94704	5450248 694496



Complete kits **CDR 163** :

MOTOR	POWER	RANGE	RPM	WEIGHT	ITEM NO	EAN 13 CODE
CDM 203	2500W	200mm	240/1200/2280	18,1kg	701846 94705	5450248 694502



COMPLETE KITS - Drill rigs



Kits include drill stand with attached motor, dowel base, PRCD, tools and anchor set (without dowel and without corebit).



Complete kit **CDR 253** :

MOTOR	POWER	RANGE	RPM	WEIGHT	ITEM NO	EAN 13 CODE
NBM 251	2500W	250mm	310/650/960	24,5kg	701846 94706	5450248 694519



Complete kit **CDR 353** :

MOTOR	POWER	RANGE	RPM	WEIGHT	ITEM NO	EAN 13 CODE
NBM 351	3300W	350mm	230/510/730	35,9kg	701846 94707	5450248 694298



Complete kit **CDR 403** :

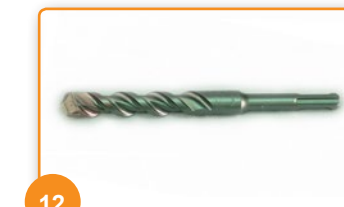
MOTOR	POWER	RANGE	RPM	WEIGHT	ITEM NO	EAN 13 CODE
NBM 351	3300W	400mm	230/510/730	36,4kg	701846 94916	5450248 695202





DRILL RIGS

ACCESSORIES



ACCESSORIES



DRILL RIGS	Item No	EAN 13 Code
1 - Vacuum pump Vp 136	3104 69674	3157629 635346
2 - Differential switch 30 mA (PRCD)	3100 05608	5450248 124146
3 - Submerged water pump	3100 06044	5450248 138686
4 - Quick release anchor set (CDR253/353/403)	3100 03976	5450248 049418
Quick release anchor set (CDR133/163)	3103 89142	5450248 472209
5 - Bronze ring	3100 04317	5450248 074434
6 - Dowel installation tool	3103 87451	5450248 467113
7 - Rawl dowel (25 p)	3100 06879	5450248 189879
8 - Telescopic brace (Lmin = 1,80m; Lmax = 2,90m)	3104 69673	3157629 635353
9 - Fixing dowel M12 (10p)	3100 04562	5450248 089995
10 - Tie-bar anchor rod for rawl dowel	3100 06977	5450248 190042
11 - Drifter	3100 07056	5450248 193043
12 - Drill SDS 15mm	3100 05211	5450248 117223
13 - 10L pressure water tank	3104 64031	5450248 684640
14 - Water tank 35L with electrical pump	3104 64029	5450248 684633
15 - Centering device 120mm	3100 07049	5450248 192909

DRILL RIGS	Item No	EAN 13 Code
16 - Water collecting rings (delivered with 3 joints)		
Water collector CDR133/163 max diam. 130mm	3104 70303	5450248 694526
Water collector CDR163/253 max diam. 180mm	3104 77208	5450248 702832
Water collector CDR353 max diam. 300mm	3104 70304	5450248 694533
17 - Spare seals		
CDR133/163 diam. 130mm	3104 77210	5450248 702849
CDR163/253 diam. 180mm	3104 77211	5450248 702856
CDR353 diam. 300mm	3104 77212	5450248 702863
18 - Vacuum kit		
CDR133	3104 74123	5450248 703112
CDR163	3104 70435	5450248 697268
CDR253	3104 74124	5450248 703129
CDR353	3104 74125	5450248 703136
Spacer and mounting rings		
19 - Spacer plate for CDR353 to increase capacity from d350 to d400mm	3104 72133	5450248 695196
20 - Ring 60mm for mounting handheld motors on rig	3103 88827	5450248 471325





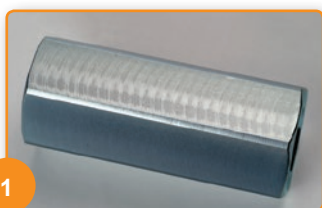
DRILL RIGS

ACCESSORIES



ADAPTORS			Item No	EAN 13 Code
1 -	1 ¼" UNC Female x R ½" Female		3100 04570	5450248 090823
2 -	1 ¼" UNC Male x R ½" Male		3100 04558	5450248 089537
3 -	1 ¼" UNC Male x Hilti DDBU		3100 06712	5450248 180968
4 -	R ½" Female x Hilti DDBI		3100 07181	5450248 202264
5 -	R ½" Male x R ½" Male		3100 12389	5450248 238768
6 -	SDS Male x R ½" Male		3100 12391	5450248 238782
7 -	3 holes flange x 1 ¼" UNC Female		3100 04594	5450248 094111
8 -	3 holes flange x 1 ¼" UNC Male		3100 04595	5450248 094128
EXTENSIONS			Item No	EAN 13 Code
9 -	1 ¼" UNC Female x 1 ¼" UNC Male	100mm	3100 04577	5450248 092001
	1 ¼" UNC Female x 1 ¼" UNC Male	200mm	3100 04571	5450248 090939
	1 ¼" UNC Female x 1 ¼" UNC Male	300mm	3100 04574	5450248 091196
	1 ¼" UNC Female x 1 ¼" UNC Male	500mm	3100 04575	5450248 091202
	R ½" Female x R ½" Male	100mm	3100 04610 *	5450248 095262
10 -	R ½" Female x R ½" Male	200mm	3100 04578	5450248 092018
	R ½" Female x R ½" Male	300mm	3100 04572	5450248 090946
	R ½" Female x R ½" Male	500mm	3100 04576	5450248 091219

* Availability on request.



ACCESSORIES



DRILL RIGS CONNECTORS		Item No	EAN 13 Code
1 -	Dust swivel ½" Male-Female	3103 89028	5450248 471806
2 -	150mm Extension	3100 11352	5450248 230410
3 -	250mm Extension	3100 11353	5450248 230427
4 -	Hex Adaptor Pack	3100 11356	5450248 234876
5 -	SDS Adaptor Pack	3100 11357	5450248 234883
6 -	HEX Adaptor	3100 11349	5450248 230397
7 -	SDS Adaptor	3100 11354	5450248 230434
	10mm A Taper Masonry Drill	3100 11347	5450248 372776
8 -	Ejector Drift	3100 11351	5450248 372721





DRILL RIGS

ACCESSORIES



M16 DRILLING	Item No	EAN 13 Code
1 - Pilot drill Ø6mm	3100 03973	5450248 049234
2 - Connector-Hex M16 for tapered pilot drill Ø6mm	3100 03974	5450248 049241
3 - M16 Male x R½" Male	3100 06030	5450248 149897
4 - Connector SDS M16 for tapered pilot drill Ø6mm	3100 05899	5450248 149880
5 - SDS connector with screw M16 for Ø6mm drill	3100 05898	5450248 149873





The CLIPPER Solutions

POWER FLOATS



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page 132

	CT 600 UNO		CT601		CT901	MTA36		CT1201
Power source	Electric	Electric	Petrol	Petrol	Petrol	Electric	Petrol	Petrol
Power	1,1kW	2,2kW	2,9kW	4,8kW	4,8kW	2,2kW	4,8kW	6,6kW
Blade rotation Ø	Ø 600mm	Ø 600mm		Ø 900mm	Ø 865mm		Ø 1190mm	
Pitch control	Mechanical	Mechanical		Mechanical	Hydraulic		Mechanical	
Weight	34kg	65kg	62kg	75kg	85kg	80kg	110kg	





POWER FLOATS

CT600 UNO

1,1kW
Ø 600mm
34kg
Electric



The CT600 UNO is one of the lightest power trowels on the market. The foldable arm and light weight make it very much compact and transportable.



Foldable machine arm



Blades safety guard rings



Dead-man switch for safety



Delivered with finishing blades and pan

FEATURES

34kg light weight
Dead man handle
Mechanical blade pitch control

BENEFITS

Easy to transport
User's safety
Setting accuracy for perfect surface finish

MODEL	CT600 UNO
Item No	701846 94230
EAN 13 Code	5450248 594680
TECHNICAL DATA	
Included tools	Finishing blades and pan
Power Source	Electric
Power kW (Hp)	1,1 kW (1,5Hp)
Motor Type	Elec
Supply Voltage	230
Fuse / Generator	16A/6kVA
Blade rotation diameter (clockwise)	600mm
Guard ring diameter	610mm
Distance to wall	25mm
Pitch control	Mechanical
Hand Arm Vibrations	< 2,5 m/s²
Sound power / pressure level	91dB(A) / 71dB(A)
Dimensions (LxWxH)	1330 x 610 x 950mm
Weight (without pans)	34kg

CT601

2,2 > 2,9kW
 Ø 620mm
 62 > 65kg
 Petrol
 Electric



The CT601 is a light weight machine, ideal for small surfaces and for trowelling along walls.



Foldable machine arm



Blades safety guard rings



Lifting hook



Accessories



Distance to wall : 10mm

FEATURES	BENEFITS
Dead man handle	User's safety
Aluminium safety guard rings	Light weight and user safety
Mechanical blades pitch control	Setting accuracy for perfect surface finish
Foldable arm and lifting eye	Easy loading and transportation

MODELS	CT601 MP	CT601 ME
Item No	701846 29945	701846 29946
EAN 13 Code	5450248 439998	5450248 440017
TECHNICAL DATA		
Included tools	Finishing blades and pan	Finishing blades and pan
Power Source	Petrol	Electric
Power kW (Hp)	2,9kW (4Hp)	2,2kW (3Hp)
Motor Type	HONDA GX 120	-
Supply Voltage	-	230V 1~
Fuse / Generator	-	16A / 6kVA
Blade rotation diameter (clockwise)	600mm	600mm
Guard ring diameter	620mm	620mm
Distance to wall	10mm	10mm
Pitch control	Mechanical	Mechanical
Hand Arm Vibrations	< 2,5 m/s ²	< 2,5 m/s ²
Sound power / pressure level	93dB(A) / 81dB(A)	91dB(A) / 79dB(A)
Dimensions (LxWxH)	1560 x 650 x 1060mm	1560 x 650 x 1060mm
Weight (without pans)	62kg	65kg





POWER FLOATS

CT901

4,8kW
Ø 950mm
75kg
Petrol



The CT901 is a medium weight machine, and the most popular power float at users. It covers a wide range of applications.



Blades safety guard rings



Handling of the machine



Adjustable and foldable machine arm



Accessories

FEATURES

Heavy duty jig welded steel frame
Dead man handle
Blades safety guard rings
Mechanical blades pitch control

BENEFITS

Robust and reliable
User's safety
Ensures user's safety while maintaining good visibility
Setting accuracy for perfect surface finish

MODEL	CT901 MP
Item No	701846 29948
EAN 13 Code	5450248 440499
TECHNICAL DATA	
Included tools	Finishing blades
Power Source	Petrol
Power kW (Hp)	4,8kW (6,5Hp)
Motor Type	HONDA GX200
Supply Voltage	-
Fuse / Generator	-
Blade rotation diameter (clockwise)	900mm
Guard ring diameter	950mm
Distance to wall	25mm
Pitch control	Mechanical
Hand Arm Vibrations	< 2,5 m/s²
Sound power / pressure level	94dB(A)/85dB(A)
Dimensions (LxWxH)	1980 x 950 x 1060mm
Weight (without pans)	75kg



MTA36

2,2 > 4,8kW
 Ø 915mm
 80 > 85kg
 Petrol
 Electric

The MTA36 is a medium weight machine equipped with a hydraulic blade pitch control.



MTA36 P5H



MTA36.30.3



Dead man handle



Adjustable and foldable machine arm



Hydraulic pitch control

Floating blades
300x280mm

Ergonomic working position

FEATURES

Heavy duty jig welded steel frame
 Dead man handle
 Blades safety guard rings
 Blades pitch control with hydraulic pump

BENEFITS

Robust and reliable
 User's safety
 Ensures user's safety while maintaining good visibility
 Setting accuracy, perfect surface finish

MODELS	MTA36 P5H	MTA36.30.3
Item No	701846 14008	701846 13921
EAN 13 Code	5450248 145783	5450248 142539
TECHNICAL DATA		
Power Source	Petrol	Electric
Power kW (Hp)	4,8kW (6,5Hp)	2,2kW (3Hp)
Motor Type	HONDA GX200 QX	-
Supply Voltage	-	400V 3~
Fuse / Generator	-	10A /6kVA
Blade rotation diameter (clockwise)	865mm	865mm
Guard ring diameter	915mm	915mm
Distance to wall	25mm	25mm
Pitch control	Hydraulic	Hydraulic
Hand Arm Vibrations	4 m/s ²	4 m/s ²
Sound power / pressure level	94dB(A)/85dB(A)	92dB(A)/82dB(A)
Dimensions (LxWxH)	1790 x 915 x 790mm	1790 x 915 x 790mm
Weight (without pans)	80kg	85kg





POWER FLOATS

CT1201

6,6kW
Ø 1190mm
110kg
Petrol



The CT1201 is a heavy duty machine, ideal for large surfaces.



Adjustable and foldable machine arm



Removable lifting eye



Handling of the machine



Dead man handle



Accessories

FEATURES

Heavy duty jig welded steel frame
Dead man handle
Blades safety guard rings
Mechanical blades pitch control

BENEFITS

Robust and reliable
User's safety
Ensures user's safety while maintaining good visibility
Setting accuracy for perfect surface finish

MODELS	CT1201 MP
Item No	701846 29953
EAN 13 Code	5450248 440512
TECHNICAL DATA	
Included tools	Finishing blades
Power Source	Petrol
Power kW (Hp)	6,6kW (9Hp)
Motor Type	HONDA GX 270
Blade rotation diameter (clockwise)	1110mm
Guard ring diameter	1190mm
Distance to wall	40mm
Pitch control	Mechanical
Hand Arm Vibrations	< 2,5 m/s ²
Sound power / pressure level	96dB(A) / 87dB(A)
Dimensions (LxWxH)	2120 x 1190 x 1025mm
Weight (without pans)	110kg



ACCESSORIES



CT601 & CT600 UNO	Dimensions Lxl (mm)	Fixing thread	Spacing (mm)	Item No	EAN 13 Code
1 - Floating pan	Ø600	Mechanical stop	-	3100 04554	5450248 089179
3 - Finishing blades (set of 4)	230x120	M6	100	3103 69479	5450248 440185

CT901	Dimensions Lxl (mm)	Fixing thread	Spacing (mm)	Item No	EAN 13 Code
1 - Floating plate / pan	Ø900	Mechanical stop	-	3100 04546	5450248 088967
2 - Floating blades (set of 4)	355x250	Clamp	-	3104 03131	5450248 512547
3 - Finishing blades (set of 4)	355x150	M8	122	3104 03132	5450248 512554
4 - Combination blades (set of 4)	330x200	M8	127	3100 04541	5450248 088745
5 - Finishing blades with moving nut (set of 4)	330x150	M8	82-160	3100 04564	5450248 090472
6 - Combination blades with moving nut (set of 4)	330x200	M8	82-160	3100 04565	5450248 090489

MTA36	Dimensions Lxl (mm)	Fixing thread	Spacing (mm)	Item No	EAN 13 Code
1 - Floating plate / pan	Ø900	Mechanical stop	-	3104 03130	5450248 512523
2 - Floating blades (set of 4)	330x280	Clamp	-	3100 04585	5450248 093695
3 - Finishing blades (set of 4)	330x150	M8	127	3100 04549	5450248 089032
4 - Combination blades (set of 4)	330x200	M8	127	3100 04541	5450248 088745
5 - Finishing blades with moving nut (set of 4)	330x150	M8	82-160	3100 04564	5450248 090472
6 - Combination blades with moving nut (set of 4)	330x200	M8	82-160	3100 04565	5450248 090489

CT1201	Dimensions Lxl (mm)	Fixing thread	Spacing (mm)	Item No	EAN 13 Code
1 - Floating pan	Ø1200	Mechanical stop	-	3103 69499	5450248 440406
2 - Floating blades (set of 4)	460x255	Clamp	-	3103 69497	5450248 440376
3 - Finishing blades (set of 4)	455x152	M8	158	3103 69485	5450248 440246
4 - Combination blades (set of 4)	450x200	M8	158	3103 69496	5450248 440369

For the operator	Item No	EAN 13 Code
7 - Feet skates (set of 2)	3100 04551	5450248 089063







The CLIPPER Solutions

WALL CHASER GRINDING MACHINES DUST EXTRACTORS

	SC181	SC401
Power	1,8 kW - 230V	3,0 kW - 230V
Max. blade diameter	Ø 180mm	Ø 400mm
Max. cutting depth	30 to 60mm	158mm
Weight	6,5 kg	11 kg



SC181 – page 136



SC401 – page 136

	CG125	CG180	CG252
Power	1,8 kW - 230V	2,5 kW - 230V	2,2kW - 230V
Working diameter	125mm	180mm	250mm
Rotation speed	10 000 rpm	9500 rpm	1410 rpm
Weight	4,3 kg	8,4 kg	60 kg



CG125
page 137



CG180
page 138



CG252
page 139

	CV402	CV324
Power	2,0 kW - 230V	1,6 kW - 230V
Air flow	380 m³/h	324 m³/h
Depression	200 mbar	300 mbar
Tank capacity	60 L	40 L
Filters	Paper or cotton	Teflon



CV402 – page 141



CV324 – page 141



WALL CHASER

SC181



Ideal for electricians and plumbers, the SC181 is a powerful and smart wall chaser. Fitted with two diamond wheels driven by a 1,8 kW motor, 5 to 45mm wide slots can be drawn in one operation, at cutting depth from 30 to 60mm. Delivered in a strong metal box, the machine ergonomics were at the heart of the design to lower vibrations and ease the operation.

1,8kW
Ø 180mm
6,5kg
Electric
230V 1~

MODEL	SC181
Item No	701846 46041
EAN 13 Code	5450248 537847
TECHNICAL DATA	
2 diamond blades included	Ø 180mm
Supply Voltage	230V 1~
Power kW	1,8kW
Fuse / Generator	16A / 3kVA
Max. blade x bore	Ø 180 x 30mm
Cutting width	5 to 45mm by 5mm
Cutting depth	30 - 40 - 50 - 60mm
Tool speed RPM	4900 min ⁻¹
Hand Arm Vibrations	4,1m/s ²
Sound power / pressure level	110 dB(A) / 97 dB(A)
Dimensions (LxWxH)	320 x 340 x 300mm
Box size (LxWxH)	347 x 355 x 295mm
Weight	6,5kg

SC401



SC401 is a 400mm electric portable cutter, with high flexibility thanks to its 3,0kW powerful motor and deep cutting depth. It is suitable for a large variety of materials on the building site, such as bricks, masonry blocks, pavements, slabs, porous concrete, concrete, and natural or artificial stones, etc...

3kW
Ø 400mm
11kg
Electric
230V 1~



We recommend the use of NORTON 4x4 EXPLORER+ with SC401.

MODEL	SC401
Item No	701846 30120
EAN 13 Code	5450248 412106
TECHNICAL DATA	
Supply Voltage	230V 1~
Power kW	3kW
Max. blade x bore	Ø 400 x 25,4mm
Max. cutting depth	158mm
Tool speed RPM	2500 min ⁻¹
Weight	11kg



CG125

1,8kW
10 000 min⁻¹
4,3kg
Electric
230V 1~



Single-head handheld grinding machine with a grinding width of 125mm.

Working areas :

Surface preparation along floor edges and small surfaces (balconies, garages, cellars) : floor levelling, preparation before coating, removal of coating defects or adhesives.



Hose connector
for vacuum cleaner



Transport box

FEATURES

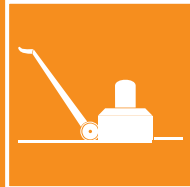
125mm working width, ability to grind right to the edge
Front part of the guard removable
Full wave electronics
Low vibrations level

BENEFITS

Designed for small to medium size floors preparation
Drinding right to the edge is possible
Soft start, constant speed, overload protection
Easy and comfortable usage

MODEL	CG125
Item No	701846 28733
EAN 13 Code	5450248 396475
TECHNICAL DATA	
Supply voltage	230V 1~
Power	1,8 kW
Disc diameter	125mm
Tool speed (under load)	10 000 min ⁻¹
Tool connection	22,23mm
Vacuum hose connector	36mm
Hand Arm Vibrations	< 2,5 m/s ²
Weight	5,9 kg

See our range of cup grinders on pages 26-28.



GRINDING MACHINES

NEW

CG180

2,5kW
9500 min⁻¹
8,4kg
Electric
230V 1~



Powerful 2,500 W hand-held grinder for medium sized surfaces with a grinding width of 180mm with electronic-soft start.

Working areas :

Grinding and smoothing of surfaces.

Removing of screed seams, residual mud, plaster and coatings.

Preparing of surfaces.

Concrete, tile adhesive, natural stone, plaster, paint, coatings, adhesive.



Hose connector
for vacuum cleaner



Transport box

FEATURES

Temperature and over load protection cut-off

Foldable front edge of dust guard

Parallel handle position

Lock on button

Shock absorber

BENEFITS

Minimize risks of overload and prevent damages

For grinding directly to the edge of the work area (no laborious reworking, saves time and costs)

Ergonomic handles allow exact and balanced guiding for a better surface finish

For long usage

Low vibrations

MODEL

CG180 230V

Item No

701846 01171

EAN 13 Code

5450248 702696

TECHNICAL DATA

Supply voltage

230V 1~

Power

2,5 kW

Cup grinder diameter

180mm

No-load speed

9500 min⁻¹

Spindle connection

22,23mm

Weight

8,4 kg

See our range of cup grinders on pages 26-28.

CG252

2,2kW
1410 min⁻¹
60kg
Electric
230V 1~



The CG252 is a light-weight and compact 250mm single-head grinding machine for grinding and levelling of small to medium size floor preparation, and removal of coating or adhesives.

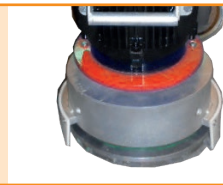
The grinding head can be oriented at 90° and the front of the safety guard opened, to grind the edges of the walls. With only 60kg, it is easier to operate during grinding operations, and less tiring for the operator. The foldable arm makes it very much compact for transport.



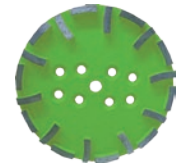
Handle to level the grinding head horizontality



The grinding head can be oriented at 90° and the front of the guard removed.



Foldable arm for transport



Compatible with our range of 250mm 8-holes grinding plates

FEATURES

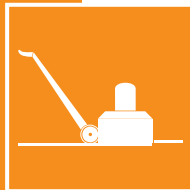
250mm working width
Orientable grinding head
Level setting on the back
Light and compact
Low vibrations

BENEFITS

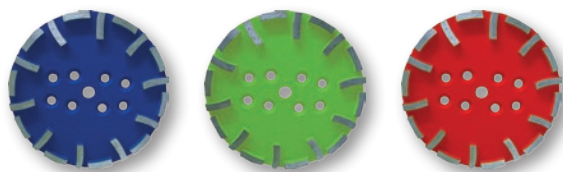
Designed for small to medium size floors
Able to grind at the edge of the walls
Quick and easy setting of the machine
Easy to transport and carry upstairs
Easy and comfortable usage

MODEL	CG252
Item No	701846 94290
EAN 13 Code	5450248 596608
TECHNICAL DATA	
Supply Voltage	230V 1~
Power kW	2,2kW (3Hp)
Fuse / Generator	16A / 6 kVA
Working width	250mm
Tool speed RPM	1410 min ⁻¹
Vacuum connector	45mm
Hand Arm Vibrations	< 2,5 m/s ²
Dimensions (LxWxH)	1180 x 520 x 1150mm
Weight	60kg





DIAMOND FLOOR GRINDING TOOLS



250mm GRINDING HEADS	Item No	EAN 13 Code
Hard bond segments for soft floors - blue colour	701846 27116	5450248 372646
Medium bond segments for universal floors - green colour	701846 27117	5450248 372653
Soft bond segments for hard floors - red colour	701846 27118	54502483 72677



Medium bond for medium-hard floors.
Available with grit sizes from 18 to 150
for different finishing quality.

Application	Grit size	Name / Colour	Set	Item No	EAN 13 Code	Segments H/T/L (mm)
Grinding of coatings and thin layers	18/20	FGW 4-PACK UNIVERSAL 3-PIN SILVER	4pcs	701846 01132	5450248 534334	1x 10/10/65
Creating adherence and grinding of top floors	30/40	FGW 4-PACK UNIVERSAL 3-PIN GREY	4pcs	701846 01133	5450248 534266	1x 10/10/65
Creating adherence for water-based paints and grinding of top floors	60/80	FGW 4-PACK UNIVERSAL 3-PIN BROWN	4pcs	701846 01134	5450248 534273	1x 10/10/65



CV402 - CV324

1,6 > 2,0kW
324 >
380m³/h
21 > 34kg
Electric



CV402



CV324



Removable filter



The CV324 has a removable dust bin



Paper filter bag (CV402 accessory)



TEFLON filter bag (CV324 accessory)



The CV324 fits all Clipper grinding machines

Our range of multi-purpose dust extractors covers most of the professional's need on the jobsite (inside or outside worksites). They can be used for extracting dust and water, but also for vacuum-cleaning after work.

- CV402 is best fitted for use with our new TR250H DF tile saw, as well as for all dry- and wet- drilling applications.
- CV324 is an industrial dust extractor best fitted for use with the Clipper floor grinding machines.

MODELS	CV402	CV324
Item No	3104 36601	3103 25226
EAN 13 Code	5450248 559191	5450248 372295
Application	TR250H DF and drilling	Floor grinding
TECHNICAL DATA		
Supply Voltage	230V 1~	230V 1~
Power kW	2,0kW (2 motors)	1,6kW (2 motors)
Fuse / Generator	16A / 8kVA	16A / 4kVA
Filter	3μ	Teflon (incomparable comfort of the operator)
Cleaning	Paper bag	Manual with shaker
Airflow	380 m³/h	324 m³/h
Vacuum suction	200 mbar	300 mbar
Tank material	PP	PP
Tank capacity	60 L	40 L
Noise level	78 db(A)	78 db(A)
Dimensions (LxWxH)	600 x 540 x 950mm	580 x 650 x 1000mm
Weight	21kg	34kg
Filtration Class	L	M
Filter bags	Paper (5pcs) - 3103 87496	TEFLON (1pc) - 3103 26340
	Cotton (5pcs) - 3103 87497	-







The CLIPPER Solutions

THIN WHEELS

Grinding and cutting-off wheels



Norton Vulcan
PAGES 144-145



Norton Quantum
PAGE 146



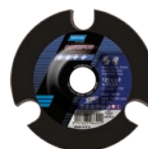
Norton Multi Purpose
PAGE 147



Norton Expert Accu
PAGE 147

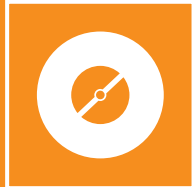


Norton 1-2-3
PAGE 148



Norton Octopus
PAGE 148





Grinding & cutting-off wheels

The Norton Vulcan program offers you a complete range of grinding and cutting-off wheels for angle grinders, petrol saw machines and small table machines.

Norton Vulcan professional grinding and cutting-off wheels are characterised by high performance with an excellent price/performance ratio and are suitable for cutting and grinding a wide range of steel, stainless steel and stone applications. The unique combination of quick cutting times and high wheel life will result in a decrease of your total abrasive costs.



NORTON VULCAN CUTTING-OFF WHEELS SHAPE 41 FOR ANGLE GRINDERS

SAP	Shape	Size	Specification	Application	Box
66252925431	41	115x1,0x22,23	A 60 S-BF41	steel-inox	25
66252925432	41	115x1,6x22,23	A 46 S-BF41	steel-inox	25
66252925433	41	125x1,0x22,23	A 60 S-BF41	steel-inox	25
66252925434	41	125x1,6x22,23	A 46 S-BF41	steel-inox	25
66252925435	41	180x1,6x22,23	A 46 S-BF41	steel-inox	25
66252925436	41	230x1,9x22,23	A 46 S-BF41	steel-inox	25
66252925437	41	115x2,0x22,23	A 30 S-BF41	steel-inox	25
66252925438	41	125x2,0x22,23	A 30 S-BF41	steel-inox	25
66252925439	41	150x2,0x22,23	A 30 S-BF41	steel-inox	25
66252925440	41	180x2,0x22,23	A 30 S-BF41	steel-inox	25
66252925441	41	230x2,0x22,23	A 30 S-BF41	steel-inox	25
66252925442	41	115x2,5x22,23	A 30 S-BF41	steel-inox	25
66252925443	41	125x2,5x22,23	A 30 S-BF41	steel-inox	25
66252925445	41	180x2,5x22,23	A 30 S-BF41	steel-inox	25
66252925446	41	230x2,5x22,23	A 30 S-BF41	steel-inox	25
66252925452	41	115x3,0x22,23	C 30 R-BF41	stone	25
66252925453	41	125x3,0x22,23	C 30 R-BF41	stone	25
66252925454*	41	150x3,0x22,23	C 30 R-BF41	stone	25
66252925455*	41	180x3,0x22,23	C 30 R-BF41	stone	25
66252925456	41	230x3,0x22,23	C 30 R-BF41	stone	25

* Availability on request



NORTON VULCAN CUTTING-OFF WHEELS SHAPE 42 FOR ANGLE GRINDERS



SAP	Shape	Size	Specification	Application	Box
66252925494	42	115x3,2x22,23	A 30 S-BF42	steel-inox	25
66252925495	42	125x3,2x22,23	A 30 S-BF42	steel-inox	25
66252925496	42	150x3,2x22,23	A 30 S-BF42	steel-inox	25
66252925497	42	180x3,2x22,23	A 30 S-BF42	steel-inox	25
66252925498	42	230x3,2x22,23	A 30 S-BF42	steel-inox	25
66252925500	42	115x3,2x22,23	C 30 R-BF42	stone	25
66252925501	42	125x3,2x22,23	C 30 R-BF42	stone	25
66252925502*	42	180x3,2x22,23	C 30 R-BF42	stone	25
66252925503	42	230x3,2x22,23	C 30 R-BF42	stone	25

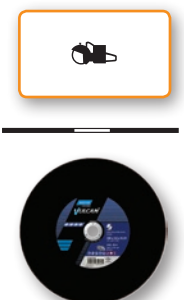
* Availability on request

NORTON VULCAN FAST CUT GRINDING WHEELS SHAPE 27 FOR ANGLE GRINDERS



SAP	Shape	Size	Specification	Application	Box
66252830803	27	115x6,4x22,23	A 30 P-BF27	steel-inox	10
66252830804	27	125x6,4x22,23	A 30 P-BF27	steel-inox	10
66252830805	27	180x6,4x22,23	A 30 P-BF27	steel-inox	10
66252830806	27	180x8,0x22,23	A 30 P-BF27	steel-inox	10
66252830807	27	230x6,4x22,23	A 30 P-BF27	steel-inox	10
66252925533	27	115x6,4x22,23	C 30 R-BF27	stone	10
66252925534	27	125x6,4x22,23	C 30 R-BF27	stone	10
66252925535	27	180x6,4x22,23	C 30 R-BF27	stone	10
66252925537	27	230x6,4x22,23	C 30 R-BF27	stone	10

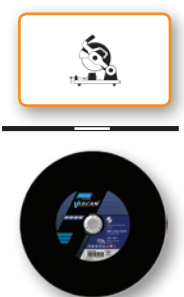
NORTON VULCAN PETROL SAWS SHAPE 41 FOR PETROL AND ELECTRIC SAWS - 80 M/S



SAP	Shape	Size	Specification	Application	Box
66252925457	41	300x3,5x20,0	A 30 S-BF41/80 Petrol Saw	steel	10
66252925458*	41	300x3,5x22,23	A 30 S-BF41/80 Petrol Saw	steel	10
66252925479*	41	300x3,5x20,0	C 30 R-BF41/80 Petrol Saw	stone	10

* Availability on request

NORTON VULCAN CHOP SAWS SHAPE 41 FOR ELECTRIC TABLE AND FIXED MACHINES - 80 M/S



SAP	Shape	Size	Specification	Application	Box
66252925460	41	300x2,8x25,4	A 30 S-BF41/80 Chop Saw	steel	10
66252925462	41	350x3,0x25,4	A 30 S-BF41/80 Chop Saw	steel	10
66252925463*	41	350x3,0x32,0	A 30 S-BF41/80 Chop Saw	steel	10

* Availability on request



NORTON QUANTUM

No other wheel lasts longer !

Freeness of cut and a very fast cutting action are the key attributes of any cut-off wheel.

Add longer life, and you have the absolute best performing product on the market – Norton Quantum. Norton Quantum has been designed to give premium product users the best cut rate and unrivalled wheel life - outperforming the competition and yielding the lowest abrasive costs with minimised operator effort.



NORTON QUANTUM CUTTING-OFF WHEELS FOR ANGLE GRINDERS

SAP	Shape	Size	Specification	Application	Box
66252836338	41	115x1,0x22,23	ZA 60 ZZ-BF41	steel-inox	25
66252836897	41	115x1,3x22,23	ZA 60 ZZ-BF41	steel-inox	25
66252836339	41	115x1,6x22,23	ZA 46 ZZ-BF41	steel-inox	25
66252836340	41	125x1,0x22,23	ZA 60 ZZ-BF41	steel-inox	25
66252836898	41	125x1,3x22,23	ZA 60 ZZ-BF41	steel-inox	25
66252836341	41	125x1,6x22,23	ZA 46 ZZ-BF41	steel-inox	25
66252843896	41	125x2,0x22,23	ZA 46 ZZ-BF41	steel-inox	25
66252837989	41	180x1,6x22,23	ZA 46 ZZ-BF41	steel-inox	25
66252837990	41	230x1,9x22,23	ZA 46 ZZ-BF41	steel-inox	25

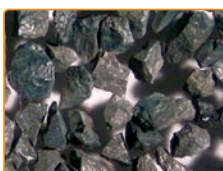
66252840228	42	115x0,8x22,23	ZA 60 ZZ-BF42	steel-inox	25
66252838243	42	125x0,8x22,23	ZA 60 ZZ-BF42	steel-inox	25

66252842242	27	115x7,0x22,23	ZA 24 R-BF27	steel-inox	25
66252842243	27	125x7,0x22,23	ZA 24 R-BF27	steel-inox	25
66252842862	27	180x7,0x22,23	ZA 24 T-BF27	steel-inox	25
66252840382	27	230x7,0x22,23	ZA 24 T-BF27	steel-inox	25

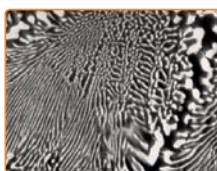


Unrivalled lifetime **A** Norton Quantum
B High Performance 'Competitor' wheel

Typical structure of the NorZon Plus grain which has better fracture toughness enabling more controlled fracture behaviour compared with aluminum oxide grain during rapid metal removal.



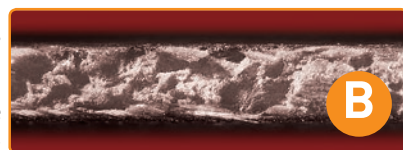
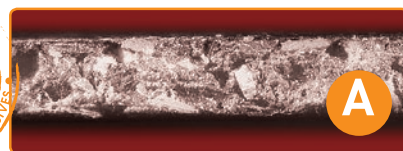
Eutectic microstructure of the NorZon grain (Al_2O_3 / ZrO_2).



Fast and precise cutting.



New generation Norton Quantum (A) retains significantly more grain on the edge of a cut wheel compared to high performance Competitor wheels (B).



NORTON MULTI PURPOSE

Cutting-off wheels

Norton Multi Purpose cutting-off wheels are optimized for cutting all applications at building sites. Use one single wheel to cut steel, stainless steel, metal, aluminum, stone, tiles, glass and plastic without any compromise on performance. Burr-free cutting of tube and profiles, clean and straight cutting of tiles and no loading when cutting non-ferrous or plastic. The products versatility and long lifetime specifics make this wheel the ideal cutting solution for typical construction and installation applications.



NORTON MULTI-PURPOSE CUTTING-OFF WHEELS SHAPE 41 FOR ANGLE GRINDERS

SAP	Shape	Size	Specification	Application	Box
66252833258	41	115x1,0x22,23	C 60 T-BF41 Multi Purpose	multi purpose	25
66252828951	41	115x1,6x22,23	C 46 T-BF41 Multi Purpose	multi purpose	25
66252918924	41	125x1,0x22,23	C 60 T-BF41 Multi Purpose	multi purpose	25
66252828952	41	125x1,6x22,23	C 46 T-BF41 Multi Purpose	multi purpose	25
66252926730	41	180x1,6x22,23	C 46 T-BF41 Multi Purpose	multi purpose	25
66252918925	41	230x1,9x22,23	C 46 T-BF41 Multi Purpose	multi purpose	25

NORTON ACCU-POWERED CUTTING AND GRINDING WHEELS



Cut the cord, not the power !

Norton ACCU cutting-off & grinding wheels have been developed to give minimal resistance when in use and its free cutting feature absorbs less energy from the battery. It also features a special bond and grain which gives improved user comfort and longer wheel life.

Next to specific use on cordless machines, these wheels are very effective on low power machines. They increase working time, comfort and quick cuts. The chance of stopping the machine with these wheels is far less than with harder specifications.

The new Norton ACCU Multi-purpose has an unique and patented design which cuts, grinds and polishes ALL materials i.e. steel, glass, aluminum, concrete, stone, copper, PVC, wood or stainless steel. With Norton 1-2-3 no wheel changes are needed when working with different applications and materials.

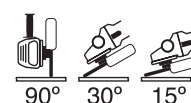


NORTON ACCU CUTTING-OFF WHEELS SHAPE 41 FOR BATTERY POWERED AND LOW POWER ANGLE GRINDERS

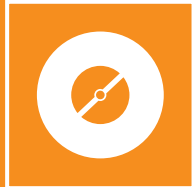
SAP	Shape	Size	Specification	Application	Box/pack	Overbox
66252843020	41	115x1,0x22,23	A 60 R-BF41 EXPERT	steel-inox	5	20
66252843019	41	125x1,0x22,23	A 60 R-BF41 EXPERT	steel-inox	5	20



NORTON ACCU MULTI-PURPOSE GRINDING & CUTTING-OFF WHEELS SHAPE 27 FOR BATTERY POWERED AND LOW POWER ANGLE GRINDERS



SAP	Shape	Size	Specification	Application	Box/pack	Overbox
66252843018	27	115x2,2x22,23	C 46 P-BF27 EXPERT	multi-purpose	2	20
66252842832	27	125x2,2x22,23	C 46 P-BF27 EXPERT	multi-purpose	2	20



NORTON 1-2-3

The all-in-one solution

- 1 Cutting
- 2 Grinding
- 3 Polishing



Cutting, light grinding and polishing, all with one single product? The new Norton 1-2-3 makes it possible! No more time loss due to machine or product changing. The Norton 1-2-3 has an extreme long wheel life compared to conventional abrasive products and provides an excellent and uniform polishing result. Maximum safety is guaranteed due to 3 layered strong reinforcements and the Norton 1-2-3 generates low vibration which results in comfortable working. The Norton 1-2-3 is free of iron, sulphur and chlorine and due to that suitable to use on all kind of metal and stainless steel applications.

NORTON 1-2-3 CUTTING-GRINDING-POLISHING WHEELS FOR ANGLE GRINDERS

SAP	Shape	Size	Specification	Application	Box
66252829704	27	115x2,2x22,23	1-2-3 A46S-BF27	steel-inox	25
66252921592	27	125x2,2x22,23	1-2-3 A46S-BF27	steel-inox	25

NORTON OCTOPUS

The invisible wheel

With the Octopus, Norton introduces an unrivalled and unique line of multi purpose products for grinding and polishing. The conic shape "29" covers a large grinding area and guarantees quick and comfortable working. The 3 slots in the wheel make your workpiece visible while you work. Norton Octopus wheels are available in grit size 36 for more material removal and grit size 60 for a perfect polishing result. Octopus wheels can be used without a backing pad and are suitable for steel and stainless steel applications.



NORTON OCTOPUS WHEELS SHAPE 29 FOR ANGLE GRINDERS

SAP	Shape	Size	Specification	Application	Box
66252829991	29	115x4,0x22,23	Octopus A36T-BF29	steel-inox	20
66252829992	29	115x4,0x22,23	Octopus A60T-BF29	steel-inox	20
66252829993	29	125x4,0x22,23	Octopus A36T-BF29	steel-inox	20
66252829994	29	125x4,0x22,23	Octopus A60T-BF29	steel-inox	20



The CLIPPER Solutions

TECHNICAL SUPPORT



Find more about Jumbo900 block saws at page 71.

Find more on our range of blades for block saws at page 24.





TILE SAWS Clippy's advice



> Never force the cutting and allow the blade and the motor torque of the machine to do the work

- Make sure the water pump is properly immersed before the use.
- Clean the water pump and the water tray right after the use to avoid the formation of a solid deposit, to work in full safety and increase the lifespan of the machine.
- On tile saws, make sure that the dividing knife (blade guard support) is properly aligned with the diamond blade to avoid the blocking and the break-in of the tiles.
- Always slow down the infeed speed at the end of the cut to avoid breaking the tile and to obtain a satisfactory quality of cut.

For optimum results, we recommend that you equip your Clipper machines with Norton diamond blades, designed specially for wet cutting of tiles.



TT180 BM table tile saw.



MASONRY SAWS Clippy's advice

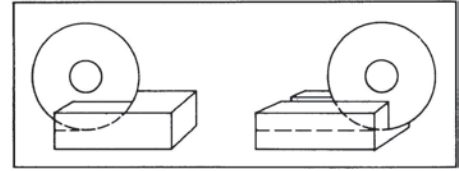


> Cutting methods

• Full depth or fixed cutting

In full depth or fixed cutting, the cutting head is locked in a fixed position and the material is pushed into it as shown.

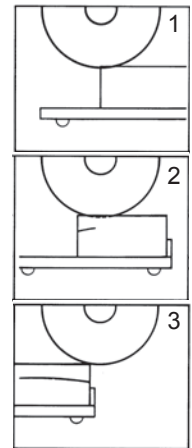
This technique usually provides greater efficiency than merely holding the head down. It works well with wet diamond blades cutting some soft materials. It is less efficient overall than the "Step Cutting" method for most materials, especially when using abrasive blades.



• Multiple step cutting

Multiple step cutting consists of moving the conveyor cart with the material to be cut back and forward under the rotating blade.

- Place the material to be cut on the conveyor cart firmly against the guide-a-cut and the backstop, keeping the hands well away from the blade.
- Start the machine.
- Move conveyor cart forward near the blade and pull down the cutting head until blade is lowered to a point where it will lightly contact the surface of the material.
- Pass the material beneath with rapid full length strokes, taking a shallow cut (approximately 3mm deep as shown on the picture) on the forward. On the backward stroke, lift the blade just clear over the cutting line.
- Complete each rapid stroke backward and forward by passing the material beyond the centre of the blade before starting the reverse movement of the conveyor cart.



NOTE: the harder the material, the more rapid should be the forward and backward strokes.

Step cutting lessens the area of the blade circumference in contact with the material, keeping the blade cool, running free and cutting at peak efficiency.

- Be sure the water pump is plugged into the connection on the masonry saw motor. Make sure the water pump is on before starting a wet-cutting operation.
- Handle on petcock should be turned in line with the water flow. Start motor and be certain that both sides of the blade are getting an adequate flow of water.
- At all times make sure that the water level covers the screen on the bottom of the pump. Do not let sludge and dirt get deep enough in the pan to block the pump inlet.
- Clean the water-tray and the pump after use.
- Adapt the infeed speed applied on the diamond blade and the depth of cut to prevent over-heating and failure of the motor.



FLOOR SAWS Clippy's advice



> Blade selection and mounting

Make sure that the diamond blade specification is selected according to the material to cut and to the power of the machine. Before mounting any blade on the saw, the blade should be inspected for any damage that might have occurred during shipment, handling or previous use.

The blade must be properly fitted over shaft and drive pin. Drive pin must project through hole in blade and into collar. Do not force the blade onto shaft.

The blade guard must always be in place when the saw is running. Always use a proper size blade guard for the size blade being used. The operator should wear safety glasses and appropriate safety equipment at all times.



> Machine maintenance and safety precautions

Total Daily Exposure (C)	< 2,5m/s ²	2,5m/s ² < DE < 5m/s ²	> 5m/s ²
Status	No action needed (D)	Employer must take actions to reduce or eliminate HAV	Employee must not work anymore

The EU Directive 2002/44/EC (the 'Vibration Directive') places responsibilities on employers to ensure that risks from hand-arm vibration are eliminated or reduced to a minimum. It also sets **maximum limits** to the daily exposure to hand-arm vibrations.

Each time you use brand new belts, check and set tension after 1 hour utilisation : poor tension setting is the main cause for early wear out of belts. Check regularly the air-filter, to preserve the life and performance of the engine.

Adequate coolant must be used when sawing with wet cutting diamond blades. An adequate coolant supply is required for wet cutting blades to maintain blade life and cutting efficiency.

If for any reason the blade stalls in the cut, raise the blade out of the cut and check the outside blade shaft collar and nut for tightness before restarting the engine. Inspect the blade for damage. Use care when resuming a cut. Make certain that the blade is in alignment with the previous cut.

Never leave a floor saw unattended while its engine is running. Always secure the saw from rolling when not in use. Operate the engine at the proper RPM. Never alter RPM or governor setting. In case of an EMERGENCY: "SHUT OFF ENGINE."



> Concrete or asphalt sawing methods

During cutting, do not exert excessive side pressure on the handles as a method of steering. Do not force the blade into material by lowering the blade too quickly or by increasing the speed of the saw.

The larger diameter blades, 450mm and above, are systematically used in a step cutting method at cutting depths of 5cm to 8cm in short travel distances of 15 to 20min. This allows the blade to remain in a free cutting condition and can allow for up to 30% reduction of the total cutting time.

For the deepest cuts (> 20cm), it is recommended to make the first cutting-steps with a small diameter diamond blade (≤ 450 mm), and then to use a larger diameter diamond blade only for last deepest steps. This procedure preserves the lifespan of the most expensive blade.



> Green concrete sawing methods



Green concrete is cut to control cracking in large concrete floors.

The initial sawing of the concrete is done within a 24 hour period at a depth of 1/3 to 1/4 of the total concrete thickness. Generally 300 and 350mm diameter blades are used with 3 or 4mm widths.

After the initial cut has been made, the joint may require additional widening for the backing rod and/or sealant. This requires a blade diameter of 300 or 350mm in widths up to 10mm. This operation requires sometimes 'Bevel' blades with triangular segments to generate a chamfer on the joint edges.





DRILLING Clippy's advice



The performance of any diamond core bit depends heavily on the use of proper drilling techniques. Although drilling conditions and materials may vary, following specific guidelines and safety precautions ensures safe, faster drilling speed and longer bit life.

IMPORTANT:

Always wear proper safety equipment; wear safety glasses, safety footwear, hearing and head protection, and respiratory equipment where required.

> Core Drilling Techniques

Drilling can be made with handheld or fixed equipment.

Handheld drilling has the advantage to require less preparation and is a faster operation, but is recommended for drilling diameters up to 150mm only. Handheld motors safety clutch are designed to protect the end-user against hand-arm injuries and are thus fitted to much less torques than for a fixed drilling operation.

Fixed drilling requires more preparation work to fasten properly the equipment, but then allows much larger drilling diameters with non-limited torques.

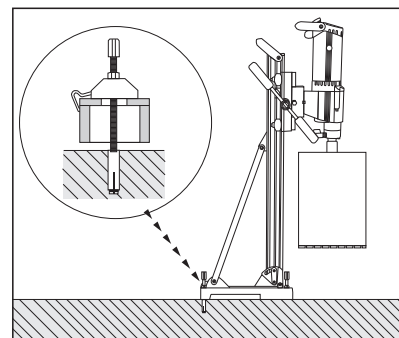
You can consult our product selection charts to choose the best tool for each of your requirements.

> Drill rig fastening

Secure the core drill to the work surface so that there is no movement in the drill that would allow the bit to bind in the hole. There are three main fixing methods :

• Dowel fixing

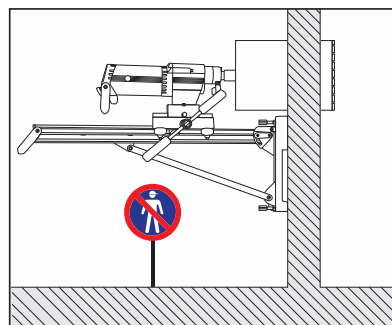
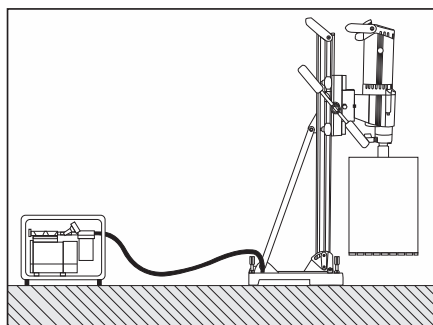
- . Measure and mark clearly both the drilling location and drill rig fastening hole.
- . Select the right type of dowel adapted to the material to drill.
- . Use dowel installation tool with a hammer to ensure the dowel is perfectly tighten into the material.
- . Position the drill rig over the drilling location, using the laser pointer.
- . Tight and adjust the drill rig using the 3 adjusting screws and the spirit-level.



• Vacuum fixing

CAUTION : vacuum fixing requires a solid and flat surface to ensure the best safety for the operators. Make sure the surface won't break or detached under the weight of the drilling equipment.

- . Measure and mark clearly the drilling location.
- . Position the vacuum base and plug it to the vacuum pump. Ensure the vacuum purge tap is closed.
- . If required, add some weight or pressure above the vacuum base to help generating the vacuum.
- . Fix the threaded rod to the vacuum base and position the drill rig over the drilling location, using the laser pointer.
- . Tight and adjust the drill rig using the 3 adjusting screws and the spirit-level.



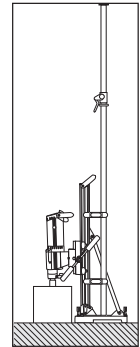
DRILLING Clippy's advice



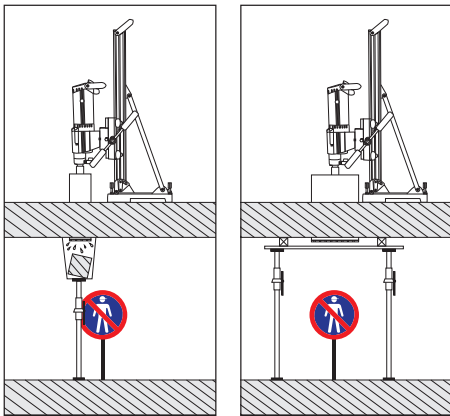
• Brace fixing

CAUTION : brace fixing requires a solid surface on both ends of the brace to ensure the best safety for the operators. Make sure the surface won't break or detach under the strength of the brace tightening.

- . Measure and mark clearly the drilling location.
- . Position the drill rig and fix it with the brace. You can position the telescopic brace either on the top of the column or directly on the drilling base.
- . Tight and adjust the drill rig using the 3 adjusting screws and the spirit-level.



> Core Drilling Operation



- . Mount the drilling motor on the rig.
- . Use a quick-release ring between the motor and corebit to prevent blockage after work.
- . Set the proper rotation speed depending on the drilling diameter.
- . Plug to water supply and set a sufficient supply of water to ensure that hole will be constantly flushed of abrasive slurries.
- . Plug the three-pronged plug (PRCD) on the power cord of the motor into a grounded electrical outlet of the appropriate voltage.
- . Slowly lower the bit into the cut so that there is no skidding or lateral movement of the drill bit. The entire circumference of the core bit should penetrate the drilling surface before additional pressure is applied to the handle.
- . Exert steady downward pressure on the bit while drilling. Do not force the bit into the material.
- . Do not stop the flow of water or the rotation of the bit as long as the bit is in the hole. If the drilling rate decreases noticeably, check the core bit. The slower penetration rate generally means that the bit is dull and needs to be reconditioned.

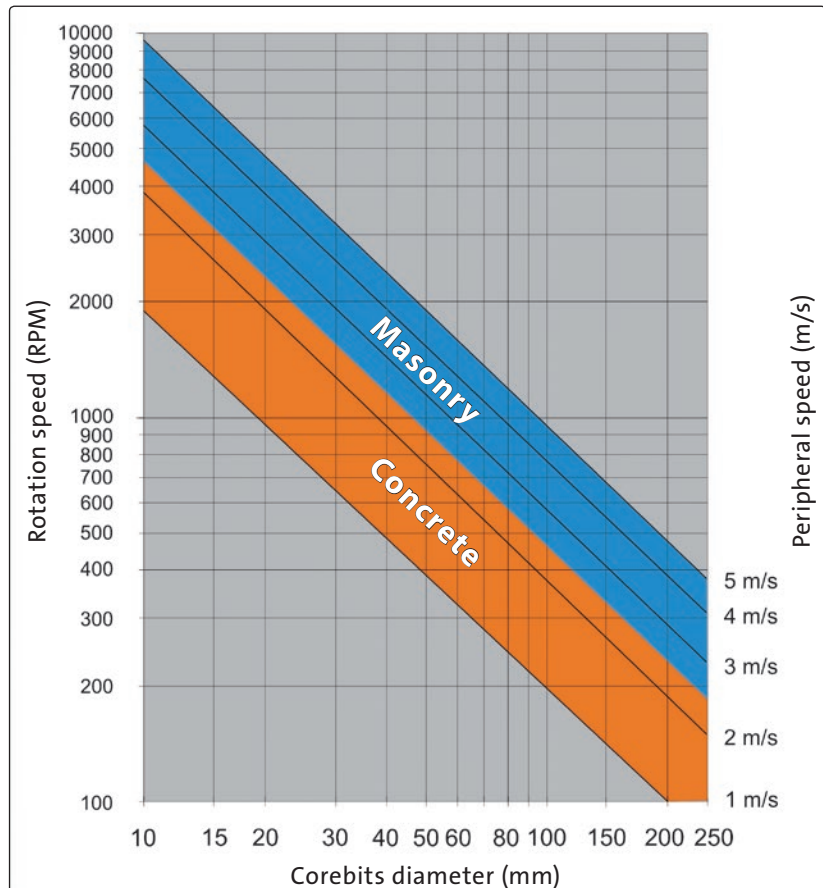
In most cases, core drilling requires the use of water. Properly ground the core drill, as the use of any electrical tools in wet areas can be hazardous.

The core drill must be securely fastened to the intended work surface (wall, deck, etc.), using anchor bolts, vacuum pad or jack screw.

Use extreme caution when drilling through floors. Check for electrical conduit.

Provide protection for all personnel and materials below the areas being drilled.

> Optimal RPM for diamond core bits





SAFETY RECOMMENDATIONS FOR THE USE OF DIAMOND TOOLS

	DO'S	DON'TS
1	 Ensure the saw bears the mark EN 13236	 Do not use a saw without EN 13236 mark
2	 Always read the safety instructions	 Don't throw away the instructions before reading
3	 Examine the saw for damage	 Never use damaged saws
4	 Align flanges correctly	 Flanges incorrectly aligned
	 Observe direction of run	 Incorrect bore size - No direction of run
5	 Ensure the guard is fitted	 Never remove the guard

	DO'S	DON'TS
6	 Ensure work piece is secure	 Never cut an unstable work piece
7	 Use protective equipment	 Never cut without protective equipment
8	 Only use for cutting off	 Do not grind with a diamond saw
9	 Always straight cutting	 Never twist in the cut
10	 Let the saw cut freely	 Never force the cut

THE BLADE & MACHINE MARKING SYSTEMS

Product Name

Wet or Dry cutting

Know what the blade is designed for
For dry cutting (☞) (☞)
For wet cutting (☞) (☞)

Laser Welded Logo

Laser welded segments
guarantee maximum
safety during use.

European Standards

Conforms to standard EN 13236 and
Founder Member of oSa
(Organisation for the Safety of Abrasives).

Material Pictogram

To know clearly what type of materials
the blade can cut.

Stars Pictogram

Indicates the CLIPPER Range of the
blade (see page 174).

Diameter and Bore (hole) size

Ensure the sizes are correct for
your machine.

Bar code

Identification of the blade.

Machine Pictogram

Indicates the type of machine.

Safety and Restrictions of Use

Information of what safety equipment must
be used and restrictions of use.

Laser engraving
(on reverse side) :
permanently marked
product details.

Manufacturer's name

Specification

Article number

Diameter and Bore

Applicable Safety Standard

Manufacturer's production
code required for traceability

Direction of Rotation

Maximum operating speed
in RPM and m/s

SAFETY & INFORMATION PICTOGRAMS :



Read
operator's
instructions



Ear protection
must be worn



Hand
protection
must be worn



Eye protection
must be worn



Danger :
risk of cut



Danger :
risk of cut



Never move the
machine with the
blade running idle



Emergency
stop switch



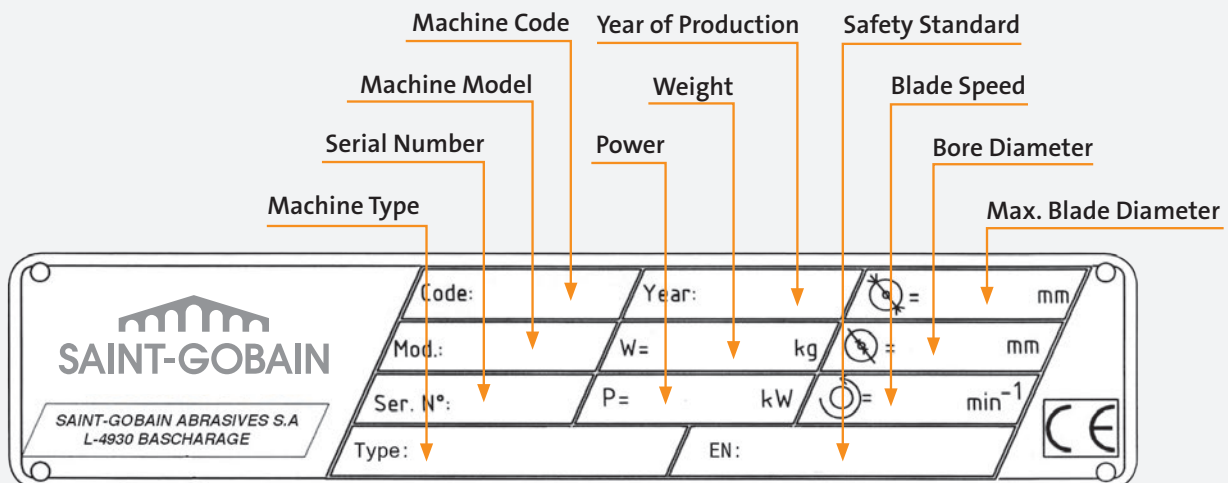
Blade
direction
of rotation



Do not lift
the machine
from here



Lift from
here





THIN WHEELS Clippy's advice



SHAPE SPECIFICATION SYSTEM

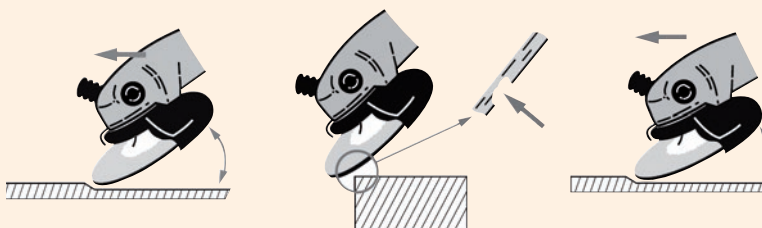
BF 27	BF 29	BF 41	BF 42
Depressed centre grinding wheels. Available in diameters 76-230mm for hand-held machines	Depressed centre grinding wheels. Available in diameters 115mm & 125mm for hand-held machines	Flat cutting-off wheels. Available in diameters 40-400mm for hand-held machines & 250-400mm for stationery machines	Depressed centre cutting-off wheels. Available in diameters 76-230mm for hand-held machines
Application: grinding	Application: grinding	Application: cutting-off	Application: cutting-off

RECOMMENDED PRACTICE

PORTABLE GRINDERS

GRINDING Rough Work

- Do not use a cutting-off wheel for snagging
- Do not work with the side of a wheel, you will cut the reinforcing cloths
- Work at an angle of 10 to 30° with a longitudinal action



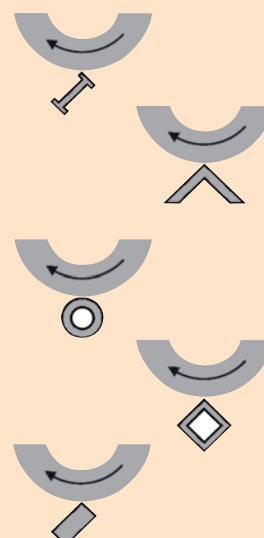
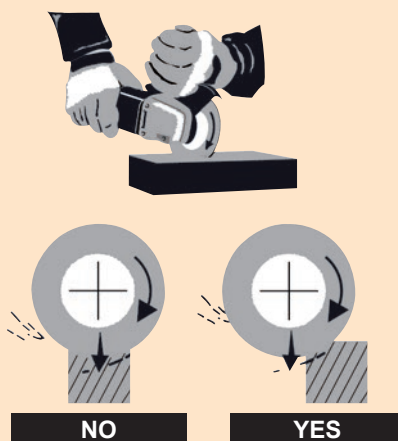
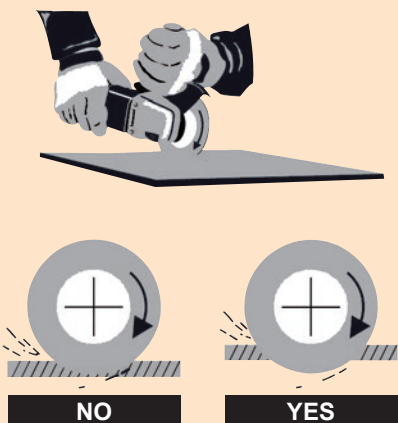
GRINDING Finishing Work

- Angle of work 15°
- Rotary action



CUTTING-OFF

- Arrange the workpiece so that a uniform section can be cut



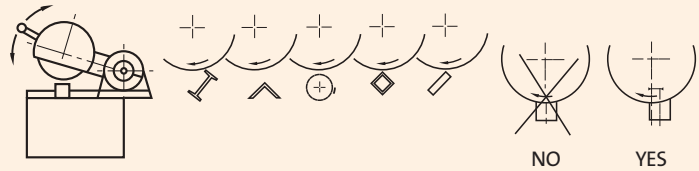


THIN WHEELS Clippy's advice

FIXED MACHINE

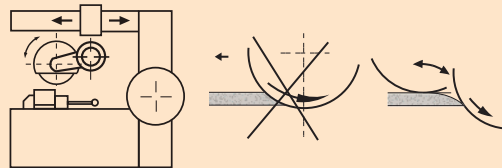
DOWNSTROKE HEADS

- Lay out the shape parts in order to have a constant section
- Avoid any wedging of the grinding wheel
- Make sure the wheel is cleared



AUTOMATIC FEED

- In the case of thick parts, use the reciprocating motion of the carriage

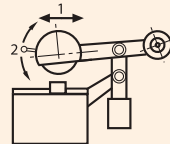


OSCILLATING HEADS

OPERATING MODE

- 1 – Oscillating
- 2 – Cutting-off

- Do not use this type of machine with a downstroke action





SAFETY : THE NUMBER 1 PRIORITY FOR NORTON

Diamond Tools & Thin Wheels

Users of diamond tools and abrasives should be aware that these products rotate at extremely high speeds for efficient operation. Care must therefore be taken in order not to abuse these tools. The risk of product failure is increased with low quality products that are not designed and manufactured to conform to the respective standards and regulations in place. Such non-conforming products may not withstand mechanical loads and heat generated during use.

EN13236 > EN13236 - Standards for Diamond tools



The European Standard EN13236 governs the safety requirements for super abrasive (diamond) products. User safety has always been NORTON's top priority. NORTON and Saint-Gobain Abrasives have taken an active role in the compilation of this safety standard, through the FEPA, the Federation of European Producers of Abrasives.

EN12413 > EN12413 - Standards for Thin Wheels abrasives (cutting and grinding discs)



This standard highlights that these types of cutting and grinding discs have a use by date. This "use by" date must be permanently marked into the central metal rim of every disc.



> oSa

In 2000, NORTON and Saint-Gobain Abrasives was one of the founding members of the Organisation for Safety of Abrasives (oSa). All member companies of oSa have to implement strict manufacturing, safety and quality standards that comply with the requirements of EN13236 and EN12413, and are regularly audited to ensure conformity. The oSa symbol displayed on an abrasive or diamond product is a further guarantee to the user of product safety and quality.

OPERATING SPEEDS

MAXIMUM OPERATING SPEED		
Diameter	Max. m/s	Max. RPM
Ø 100mm	80	15300
Ø 115mm	80	13300
Ø 125mm	80	12250
Ø 150mm	80	10200
Ø 180mm	80	8500
Ø 200mm	80	7650
Ø 230mm	80	6650
Ø 250mm	100	7650
Ø 300mm	100	6400
Ø 350mm	100	5500

Machines

Our philosophy concerning design and manufacturing of NORTON CLIPPER machines is aligned with diamond tools and abrasives approach.

We provide operating devices which will both comply with safety standards and ensure high level of performance even in extremely difficult conditions.

Of course our machines comply with the following European Directives:

> European Directive 2006/42/EC on machinery

This Directive provides the regulatory basis for the harmonisation of the essential health and safety requirements for machinery at European Union level. It guarantees a high level of protection to EU workers and citizens.

> Low Voltage Directive 2006/95/EC

Part of our products range includes electrical motors, and our design complies with Low Voltage European directives. As for all directives, we even do more than requested to provide our customers highly reliable and safe working conditions.

> Electromagnetic Compatibility Directive 2004/108/EC

In the construction business, CLIPPER machines are used in many places, close to either professional or domestic equipments which can be sensitive to electromagnetic disturbances. We take this risk into account and can ensure that our design complies with Electromagnetic Compatibility European Directive.

Saint Gobain Abrasives is actively involved in the elaboration of specific Safety Regulations and Standards like type C harmonized European standards issued from the European Directive 2006/42/EC on machinery :

EN 12418 Masonry and stone cutting-off machines for job site – Safety

EN 13862 Floor cutting-off machines – Safety

EN 12348 Core drilling machines on stand – Safety

EN 15027 Transportable wall saw and wire saw equipment for job site – Safety

EN 12649 Concrete compactors and smoothing machines – Safety

EN 19432 Portable, hand-held, internal combustion engine driven cut-off machines

In addition to regulations and formal aspects, our engineers have a strong understanding of customers' applications in the field. They work together with our Customer Service to consider or even anticipate potential risks and design the safest way.



NORTON certifies that all diamond products fully comply with the requirements of EN13236 and the requirements of oSa.

NORTON certifies that all their abrasive cutting and grinding discs fully comply with the requirements of EN12413.

NORTON strongly advises users not to use products that do not carry the symbols of EN13236, EN12413, FEPA or oSa.

AFTER-SALE

- By choosing CLIPPER machines, diamond blades or core bits, you are choosing quality products designed for professional users. All machines and related accessories are guaranteed for one year (excluding normal wear).
- All CLIPPER products quality criteria are checked during manufacturing process. If, despite quality checks, during the first year following purchase, any fault arises due to a hidden defect or a manufacturing fault, your CLIPPER machine must be returned complete to the sales outlet where you purchased it, together with your invoice or sales receipt.
- After testing with its accessories by the sales outlet's after-sales service, the machine can be shipped for repair to your nearest CLIPPER after-sales service or to the CLIPPER after-sales service European Center at the following address:

SAINT-GOBAIN ABRASIVES
190, Bd JF Kennedy
L-4930 Bascharage
GD LUXEMBOURG
Tel : +352 50401 1 - Fax : +352 501633

- In order to optimise repair efficiency, a detailed description of machine issue will be highly appreciated. A standard CLIPPER Repair Form is available on www.construction.norton.eu.
- In case of an internal combustion motor issue, motor manufacturer or its local dealer can be directly contacted, which will save time.
- If the warranty applies, the CLIPPER after-sales service will return at its own expense the repaired and tested machine to the sales outlet. In case warranty doesn't apply due to incorrect use of the machine, a quotation for repair will be sent for approval before repair.
- The repaired machine will be guaranteed for the time remaining until expiry of the original guarantee.

SAINT-GOBAIN ABRASIFS S.A.
B.P. 8 - Rue de l'Ambassadeur
78 702 CONFLANS CEDEX
FRANCE
Tel : +33 (0)1 34 90 40 17
Fax : +33 (0)1 39 19 76 24
sales.nlx@saint-gobain.com

SAINT-GOBAIN ABRASIVES BV
Groenloseweg 28
7151 HW Eibergen
P.O. Box 10
7150 AA EIBERGEN
THE NETHERLANDS
Tel : +31 545 466466
Fax : +31 545 474605

SAINT-GOBAIN ABRASIVES NV/SA
Industrielaan 129
1070 Anderlecht /Brussel
BELGIUM
Tel : +32 (0)2 267 21 00
Fax : +32 (0)2 267 84 24

SAINT-GOBAIN ABRASIFS
LOB 17 - Office 404 / 405
Jebel Ali Free Zone Area
PO BOX 18260 - DUBAI
UNITED ARAB EMIRATES
Tel : +971 4 88 17 836
Fax : +971 4 88 73 210
abrasives-emea@saint-gobain.com

SAINT-GOBAIN ABRASIFS, S.A.
2 allée des Figuiers
Ain Sebaâ - CASABLANCA
MOROCCO
Tel : +212 5 22 66 57 31
Fax : +212 5 22 35 09 65
salesmaroc@saint-gobain.com
www.norton.eu

SAINT-GOBAIN ABRASIVES Russia
105082, РОССИЯ, Москва,
Ул. Фридриха Энгельса, д. 58,
строение 2, 2-й этаж
Телефон: +7 495 220 07 45
+7 495 937 32 23
Факс: +7 495 937 32 24 / 17

SAINT-GOBAIN ABRASIVES Kft.
Bányalég u.60/B.
1225 Budapest
HUNGARY
Tel : +36 1 371 2250
Fax : +36 1 371 2255
nortonbp@axelero.hu
www.norton.eu

SAINT-GOBAIN ABRASIVES, S.R.O.
Počernická 272/96, Malešice
108 00 Praha 10
CZECH REPUBLIC
Tel : +420 255 719 326
Fax : +420 255 719 321
info@sgabrasives.cz
www.sgabrasives.cz

SAINT-GOBAIN HPM POLSKA Sp. z o.o.
ul. Norton 1
62-600 KOŁO
POLAND
Tel : +48-63-261 75 36
Fax : +48-63-272-0401

SAINT-GOBAIN GLASS
Business Unit Abrasivi
Punct de Lucru: loc.Vetis, jud.
Satu Mare 447355
str. Careiului 11
Parc Industrial Renovatio
ROMANIA
Tel : 0040-261-839.709
Fax : 0040-261-839.710



TROUBLESHOOTING DIAMOND PRODUCTS

BLADE WORN OUT-OF-ROUND

Worn out shaft bearings on saw.	Install new blade shaft bearings.
Machine spindle worn out. A groove may have been scored on the spindle as a result of previous blade spinning on the spindle.	Replace worn out spindle.
Blade slipping on spindle.	Tighten spindle nut on the machine. Make certain the drive pin is fitted and functioning where required.
Bond too hard for material causing blade to "pound".	Use proper blade specification, a softer bond blade maybe required.
Blade being pushed to hard and not allowed to cut – causes bouncing and will lead to blade going out of round.	Slow down traverse rate or reduce depth of cut.
Blade spindle speed too high – causing polishing and causing blade to act hard and bounce.	Reduce spindle speed to recommended RPM.

UNEVEN SEGMENT WEAR

Insufficient water flow, generally on one side of the blade, which reduces side clearance.	Check pipes are clean and correctly positioned. Make certain that adequate clean water is being equally distributed to both sides of the blade.
Equipment defect, which causes the blade to wear out of round.	Replace bad bearings, worn out machine spindle or realign spindle. On concrete saws, ensure the engine runs smoothly, to prevent harmonic vibrations, which in turn cause the blade to pound on a regular cycle basis.
Saw head misaligned.	Check saw head alignment both vertically and horizontally.

PREMATURE WEAR OF STEEL CENTRE

Steel centre wears away faster than the diamond segment.	If material cut is very abrasive, a blade with undercutting protecting segments should be used.
Highly abrasive particles are being generated during cutting.	Use sufficient water to flush swarf out of cut.
1. Hammer segment. 2. Double height segment. 3. Slant segment.	Caution: Wear-retardant cores are not always the final answer to eliminate undercutting. Blades should be inspected periodically during use.

STEEL CENTRE LOSS OF TENSION

Blade core has been overheated.	Provide proper amount of water to both sides of the blade. Make sure water pump is producing sufficient water, that no blockage occurs in water lines, and pipes are correctly positioned.
Blade core has been overheated as a result of blade spinning on spindle.	Check spindle and arbor hole for damage. Tighten spindle nut and make certain that the drive pin is present and functioning on floor saws.
Blade core has been overheated because of blade core rubbing side of material being cut.	Properly align machine to allow straight cutting. Avoid twisting the blade in cut. Maintain a strong grip on saw. Make certain that spindle RPM is correct so that blade operates at its recommended speed.
Unequal pressure on flanges.	Flanges should be of identical and the correct diameter and cleaned regularly.
Machine spindle RPM does not match recommended blade RPM.	If spindle speed is too high blade will act hard and overheat, use correct spindle speed for blade diameter.

BLADE IS WOBBLING

Blade mounted on a damaged or worn machine.	Check for damaged or worn out bearings, bent or worn out blade spindle. Also check flanges to make sure they are clean, flat, and of the manufacturer's recommended diameter.
Blade being run at improper operating speed (RPM).	Make sure that the spindle is turning at the proper RPM to match the recommended speed for the diameter of blade. Use a tachometer to make certain the machine spindle is set at the proper operating speed.
Blade bent.	Do not use, contact manufacturer.

ARBOR HOLE OUT-OF-ROUND

Blade flanges are not properly tightened, causing blade to rotate or vibrate on spindle.	Tighten spindle nut and make certain blade is adequately secured to prevent rotation on spindle.
Worn out, bent or dirty flanges which do not allow proper blade clamping.	Clean or replace flanges, make sure they are not worn out, and tighten spindle nut properly.
Blade not properly mounted.	Ensure that the blade is mounted on the proper diameter of spindle.

SHORT BLADE LIFE

Using the wrong blade on a specific material.	Use the proper blade specification, as recommended by the manufacturer, depending on your machine power and the hardness and type of material cut.
Worn blade shaft bearings, worn blade arbor or misaligned machine spindle.	Replace defective parts.
Loss of power, resulting from loose or damaged drive belts.	Tighten or replace drive belts.
Inadequate water flow to the blade.	Make sure water hoses are clean and free from any blockages. Ensure clean and correct water flow based on the blade diameter.
Power of the machine is too high for the specification.	Refer to the application chart to define the proper specification and bond hardness to be used based on the power of your saw.
Machine spindle speed too low for blade diameter.	Use correct speed/set up for blade diameter or use a larger blade.

BLADE WILL NOT CUT

Blade is too hard for the material being cut (improper blade specification).	Refer to blade application chart for the proper blade specification based on the machine power and type and hardness of the aggregate.
Blade has glazed over, probably as a result of being used on a too hard material or cutting too deep in one pass.	Sharpen the blade by cutting softer abrasive material to expose diamonds. If continual sharpening is required, this would indicate that the blade specification is too hard for the material being cut.
Blade rotation speed too high.	Use the correct spindle speed (RPM) for the diameter of blade.
Cutting too deep in one pass.	Cutting in multi passes is often required.
Allow the diamond to do the work.	Pushing the diamond tool too hard will cause the diamond to polish and stop working.

SEGMENT LOSS

The material and/or saw was not held firmly, which caused the blade to twist or jam in the cut.	Hold material or saw firmly.
Not sawing in a straight line with overcorrecting caused the blade to twist or jam in the cut.	Properly align saw to allow straight cutting, avoid twisting the blade in the cut.
Defective flanges which cause the blade to flutter in the cut or fail to properly support the blade in perfect alignment.	Clean foreign material from flange surfaces, or replace flanges if they are under manufacturer's recommended diameter or are bent or deformed.
Blade is too hard for material being cut causing the segment to glaze over. The segment separated due to impacts or fatigue.	Use the proper blade specification for the material being cut.
Overheating due to inadequate supply of coolant (water or air). This usually comes with discolorations on the core in the area of segment loss. Overheating of blades may cause core cracks or segment loss.	Wet cutting – provide adequate water flow on both sides of the blade. Dry cutting – periodically allow blades to run out of the cut. The blade will cool in a few seconds so that sawing may continue.
Under cutting on steel centre.	Segments suffer undercutting from abrasive material or inadequate water supply. Use undercutting protection or increase water flow. If in doubt return blade for inspection.
Power of the machine is too high for the specification.	Refer to the application chart to define the proper specification to be used based on the power of your saw.

CRACKS IN SEGMENT

Blade is too hard for material being cut.	Use blade with softer bond.
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BUILDING OUR ENVIRONMENT TOGETHER

Habitat Centre of Excellence

As the world leader in designing, manufacturing and distributing Habitat and construction materials, Saint-Gobain is committed to meeting some of the fundamental challenges faced by the world today: reducing energy consumption, limiting our impact on the environment, and creating a new generation of buildings which are safe, comfortable and energy efficient.

Today we are leaders in all our industry sectors, providing proven, easy-to-use systems aligned to local needs, practices and legislative requirements in every part of the Habitat and construction markets, from homes to public buildings and offices, and from new-builds to renovation projects.

Abrasives combines with the other Saint-Gobain businesses to offer a complete solution for those who work within Habitat markets :



Plumbing



Building



Carpentry



Painting & Decorating



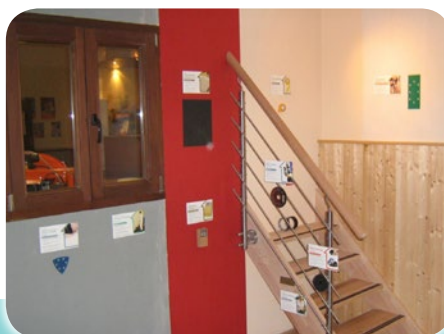
Tiling

Some of Europe's most respected companies and brands in the Habitat and construction sectors are part of Saint-Gobain :



Habitat Centres of Excellence

Our state-of-the-art product testing facilities or 'Centres of Excellence' are paramount to continuing our commitment to delivering technological excellence. Located in our manufacturing plants across the globe, each centre concentrates on the development of exciting new products for all abrasive applications and contributes to the product knowledge of our sales teams and customers.



Our commitments to sustainable development



Our Vision

Be the **global leader** of reference in Abrasives, at the leading edge of **innovation** and **service**.
Delivering the most comprehensive **Abrasive Solutions** to our customers.

Our Values

Comprehensively and strictly apply our Saint-Gobain Principles of Conduct & Action.

Conduct

- Professional commitment
- Respect for others
- Integrity
- Loyalty
- Solidarity

Action

- Respect for the law
- Caring for the environment
- Worker health and safety
- Employee rights



Pursue an ambitious policy to constantly **improve workplace health & safety**

In our Abrasives plants safety is our number one priority: lost time accidents have reduced five fold in 10 years

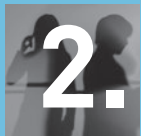
All operators individually assessed at least 3 times Per annum through the SMAT program (Senior Management Audit Tool) - 33,480 individual SMAT's conducted worldwide in 2014

66,969 hours of training worldwide on Saint-Gobain Safety Standards in 2014

Reduction of workplace hardship: exposure to noise, repetitive tasks, safety, ergonomics...

Reduction of exposure to chemicals

Annual world-wide EHS day



Continuously encourage the **personal development** of our employees

Saint-Gobain named as Top Employer 2015 for third consecutive year

Special focus on diversity, training and career management

Abra+ gives specific exposure of our young talents to senior management

60+ training courses proposed by Saint-Gobain Abrasives University and Saint-Gobain Training

Systematic employee satisfaction surveys



Be a **responsible & sustainable player** internationally & within our local communities

Founder member of FEPA and oSa, actively promoting the safety of abrasives

Sustainable development policies audited by VERITAS

Sponsors of local communities through initiatives such as social mobility, heating of local schools...

Extensive roll out of international standards ISO 9001, ISO 14001, OHSAS 18001

Internal testing & certification based on the following safety standards:

EN12413: 1999 (Bonded Abrasives) EN13236: 2001 (Super Abrasives)
EN13743: 2002 (Coated Abrasives) EN13236: 2001 (Diamond Blades)

Saint-Gobain are endorsers of the Caring for Climate statement and the CEO Water Mandate for Water Resource Protection (as part of the UN's Millennium Development Goals)

Third party supplier charters, timber regulations, CSR evaluations and audits, Adhere process, minerals policy...

Saint-Gobain is a member of the United Nations Global Compact



Minimize the **environmental footprint** of our operations with five priorities

Increase the energy efficiency of our production

Increase the use of recycled raw materials in our plants

Reduce our CO₂ emissions

Optimize our water resources

Strict waste segregation policy



Continuously **develop eco-valorized products** bringing additional value to our customers

The first abrasives manufacturer to produce FSC® products

Use of natural resins and recycled grains

High performance abrasive products & solutions that help to reduce environmental impact and user exposure:

- low noise
- low vibration
- low dust





ADDING VALUE THROUGH SERVICES

SALES SERVICE & SUPPORT

Customer service & sales representatives

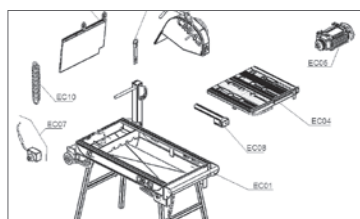
Our customer services and field sales representatives are your first point of contact with Norton. They will help you select the best solution for each cutting, drilling and grinding applications. Each of our sales personnel receives regular in-depth technical training in the scope of the Saint-Gobain Abrasives University.



Distribution centres

With two main logistics platforms and several local distribution centres all over Europe, our logistics professionals ensure that the Norton products reach you on time.

Quick and special delivery services can be arranged upon request to best suit the end-users' requirements (*conditions apply*).



Technical support & after-sales service

Detailed machines spare-parts lists help distributors and fitters identify the required parts for the maintenance of Clipper machines. Our customer services can provide help for special enquiries and technical support on equipment repairs.

For challenging technical issues preventing on-site repairs, our technical service centre, based at our headquarters in Luxembourg, can analyse and estimate the repair costs (*conditions apply*).

Product training

Our network of "Habitat Centres-of-Excellence" located on our main manufacturing plants in Europe provides platforms for practical hands-on training, and for education and promotion of our building & renovation product packages. The Saint-Gobain Abrasives University offers bespoke programs for our sales people, our distributors and trade professionals.



Demonstration vans

Thanks to our fully equipped vans available in many European countries, we can organize product demonstration, and animate open-days at distributors' premises, trade fairs or road-shows.

Hands-on practical tests with our technical experts teach the end-users how to better use our Norton Clipper products and benefit the most of our innovations.

LET US HELP YOU !

MARKETING & MERCHANDISING

Literature & communication

The Norton-Clipper catalogue is our primary marketing tool. It provides all the required information to help our distributors present the features and benefits of our products in a clear and understandable way. We also have a complete range of "Specialist brochures" displaying dedicated extracts of our product range to a specific customer group, and other literature for detailing product specifications or health & safety issues like noise, vibrations or EN13236 safety standard.



Promotions & adverts

Our marketing departments in each country across Europe actively promote our products and work at building the awareness of our brand among the users of diamond tools and construction equipment. Each year, several sales campaigns are launched, with attractive incentives for end-users and distributors. Press releases and newsletters inform professionals, journalists and distributors on our latest products and news.

Merchandising tools & Planogram

Effective merchandising is a powerful tool not only in increasing sales and profitability but also in building credibility with end users. Take advantage of our professional planogram service (Spaceman) to set-up a merchandising format specific for your product selection. Our range of merchandising units and POS graphics help to display product and information in a professional, vibrant, educational format. See more details at pages 170-173.



Trade shows & open-days

Trade shows and distributors' open-days are wonderful opportunities to meet the end-users and build awareness for the Norton-Clipper brand. They also help to forge stronger relationships with distributors.

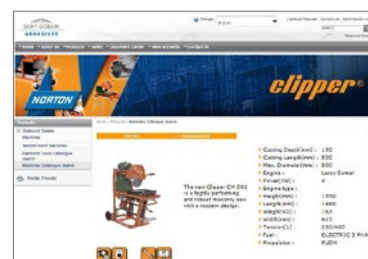
Norton Clipper exhibits each year at several construction market trade shows in Europe and takes part to countless distributors' open-days.

ONLINE SERVICES

www.construction.norton.eu

Visit our website to access a wealth of valuable information :

- Technical and safety information on our products.
- News & Events.
- Literature (brochures, catalogues) & media library.
- Product selection tool to make the best usage of the Norton Clipper products.
- Technical datasheets, user manuals and spare parts lists for after-sales service.



Media Centre

A secure online media library where customers may be granted access to download and use Norton product images, videos, logos, etc. to help in creating their own marketing collateral.



Norton, the world's premium abrasive brand, offers powerful, precise and user friendly solutions enabling our customers to cut, shape and surface-finish all types of materials even in the most complex and challenging applications.

As the technology leader, Norton sits at the forefront of the industry providing highly engineered, high-performance value-adding abrasives and cutting tools. Norton's continual investment in R&D and close collaboration with customers generates highly performance optimised innovations. This strong commitment ensures that exciting new products are continuously introduced which offer substantial customer benefits.

In 1963 Norton opened its first European diamond tool manufacturing facility in Luxembourg and created the Clipper brand. Norton Clipper revolutionised the construction and building industry with laser welded diamond blades - greatly increasing safety and versatility.

Providing machinery and cutting tools built to optimise performance for our construction industry customers.

Today, we continue to provide our construction customers with high performance machinery including masonry saws, floor saws, power trowels, floor grinders, core drills and tile saws; plus a wide range of long lasting, fast cutting diamond blades and core bits. Helping to improve productivity and reshape the world of abrasive solutions.





Each year NORTON invests substantially in research and development to improve quality and performance of diamond products. The following highlight NORTON breakthrough developments.

Infiltrated High Density diamond blades.

Norton's Infiltrated High Density technology (iHD) combined with its patented diamond blades laser-welding process is the biggest breakthrough in Diamond Tools this century. Through many years of research and development this revolutionary process provides our customers with rivaled performance, increased safety, lower energy manufacturing and a wider choice of segment design.



The NORTON Quickfix mounting system allows the safe use of the same diamond blade on saws with different arbor diameters (see details at page 12).



Diamond blades with ellipsoidal shaped gullets.

The NORTON patented ellipsoidal gullets substantially increases the products safety by significantly decreasing the risk of cracking in the steel centre. The design is so successful that it enables the 4x4 Explorer range to safely cut metals up to 5mm thickness.



NORTON's patented depth of cut indicator

The depth of cut is easily controlled. The steel centre is permanently marked with patented slots that combine the direction of rotation and depth indicators. When the blade revolves the depth of cut can be seen through the stroboscope effect. This allows the operator to work faster because the depth of cut is controlled and blade life increases because over cutting is eliminated.



DUO-shape exclusive segments

Norton **Clipper Duo Extreme+** was developed in Norton's Centre of Excellence in Bascharage, Luxembourg and benefits from Norton's new exclusive enhanced segment technology. The innovations bring a much safer diamond blade, with a much faster cutting speed and up to 20% longer product life. This new technology also enables exclusive segment designs, like the embossed "DUO" name in each segment.



Residential areas, city-centres, schools and hospitals are especially sensitive to noise with more and more local regulations preventing excessive noise levels. The use of silent diamond blades has become even more relevant since they can drastically reduce the sound generated directly at the job site.

The new laser-welded **NORTON SILENCIO** features a new technology that provides unprecedented noise-dampening effect, reaching reductions of up to **15dB – 30 times less noise !!**

Our **patented** steel core design provides, for the first time, a solution against the disturbing high-pitched whistling effect on masonry and floor saws.

With **15mm high segments** and a bespoke specification for each application, **NORTON SILENCIO** displays the best cutting performance in the NORTON CLIPPER diamond blade range.

NORTON SILENCIO is the most efficient solution for granite, concrete and general purpose materials, while protecting the surrounding area from disturbing cutting noises.



(see details at page 7)



MERCHANDISING SOLUTIONS

Merchandising plan

We can provide a comprehensive and flexible solution for the display of our products, including various tools such as :

- Wall-displays with hooks
- Clear and informative Point-of-Sale tools (headers, bus-stops, recommendation charts...)
- Planogram solutions for optimizing your display space



Contact us for more details on merchandising solutions.

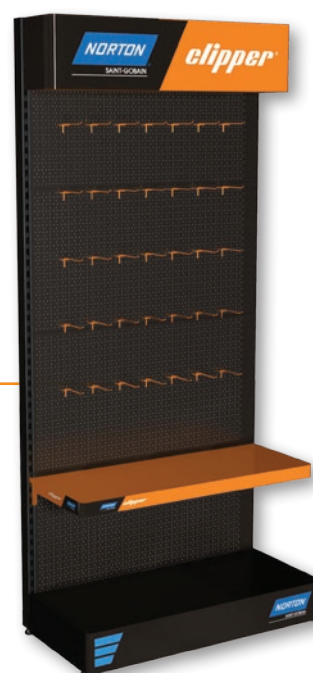
Merchandising solutions

New Norton Clipper branded display kits with a selection of components to help tailor the display for different product and merchandising requirements. Plus a range of portable displays and a suite of point-of-sale graphic templates for Building & Construction market to inform, educate and help the tradesman select the most appropriate product for their job quickly and easily, whilst encouraging repeat purchase.

Norton Clipper Display Kit

- The complete kit comes with all components needed to create a full display for all Clipper products.
- Kit contains:
Base x1, pegboards x4, header x1, shelf x1, legs x2, single pegs x20, euro hooks x15
- Accessories can be ordered separately if required.

KIT DESCRIPTION	QTY	SAP CODE
Complete kit with light	1	TBD
Complete kit with light & UK plug	1	TBD
Complete kit without light	1	TBD



ACCESSORIES

Norton Clipper header
SAP CODE:
410082634



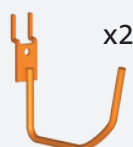
Norton Clipper shelf
SAP CODE:
410059872



Norton Clipper header without light
SAP CODE:
410082633



Norton Clipper Drill motor hooks x2
SAP CODE:
510116152



Single pegs and euro hooks
SAP CODE:
410081866





Dry corebit sets display stand

Display and take-away unit for dry drilling corebit sets. Made in metal, with a hard transparent cover to protect the displayed item.
Can hold 5 suitcases for take-away, plus one on top for display.

Corebit set stand-up display	810024246	L565 x H390 x W290mm
------------------------------	-----------	----------------------

Petrol Saw stand

- Portable display for Petrol Saws (CP500) with English point-of-sale graphic
- Kit contains:
Base x1, header x1, shelf x4, pins x2, euro hooks x4
- H: 1600mm x W: 1200mm x D: 800mm



DESCRIPTION	QTY	SAP CODE
Portable Petrol Saw stand	1	510109555



Drilling stand

- Drilling Motor POS graphics available on request
- Kit contains:
Base x1, pegboard with 2 sides, shelves x3, drilling motor hooks x8, euro hooks x10
- H: 2295mm x W: 1000mm x D: 1000mm

DESCRIPTION	QTY	SAP CODE
Portable Drilling stand	1	510116151

Diamond Blades stand

- Portable display for diamond blades
- Kit contains:
Header x1, hooks x6, top panel x1, side panel x2
- H: 1850mm x W: 430mm x D: 560mm

DESCRIPTION	QTY	SAP CODE
Portable diamond blade stand	1	MTO



Hooks for corebits 1 1/4" and 1 1/2" M - up to Ø150mm	510120422
---	-----------



MERCHANDISING SOLUTIONS

POINT-OF-SALE GRAPHICS

A complete set of graphic templates have been created for each of our product ranges per market. As product ranges vary per customer and language requirements differ per country, the templates can be adapted to cater for all product & language needs.

POINT-OF-SALE MATERIALS

Norton Clipper Headers

DIAMOND CUTTING & DRILLING

CHOOSE YOUR QUALITY TIER

CLIPPER DYNAMIC	★★★★★
CLIPPER PRO	★★★★☆
CLIPPER CLASSIC	★★★☆☆

CHOOSE YOUR MATERIAL

CONCRETE AND CONCRETE PRODUCTS	UNIVERSAL USE - BUILDING MATERIALS
ASPHALT AND ABRASIVE MATERIALS	NATURAL STONE AND TILES

DIAMOND CUTTING & DRILLING

CHOOSE YOUR MATERIAL

CONCRETE AND CONCRETE PRODUCTS	UNIVERSAL USE - BUILDING MATERIALS
ASPHALT AND ABRASIVE MATERIALS	NATURAL STONE AND TILES

CHOOSE YOUR QUALITY TIER

CLIPPER DYNAMIC	★★★★★
CLIPPER PRO	★★★★☆
CLIPPER CLASSIC	★★★☆☆

Norton Essential Header & Bus Stop

HAND SANDING

MULTI-PURPOSE	WATERPROOF	ANTI-CLOGGING	SUPER-FLEXIBLE
---------------	------------	---------------	----------------

MACHINE SANDING

DELTA SHEETS	PERFORATED SANDING DISC
PERFORATED OPTICAL CUT SHEETS	SANDING BELTS

NORTON SAINT-GOBAIN

ESSENTIAL ABRASIVES FOR TRADE

PLUMBER & ELECTRICIAN

BUILDER & LANDSCAPER

CARPENTER & ROOF LINER

TILER

PAINTER & DECORATOR

HOME IMPROVEMENT

Norton Clipper Bus Stops

DIAMOND CUTTING & DRILLING

SELECT CUTTING

General purpose	Concrete and concrete products	Universal use - building materials	Asphalt and abrasive products	Natural stone and tiles
-----------------	--------------------------------	------------------------------------	-------------------------------	-------------------------

CHOOSE YOUR QUALITY TIER

CLIPPER DYNAMIC	★★★★★
CLIPPER PRO	★★★★☆
CLIPPER CLASSIC	★★★☆☆

MACHINES

TABLE 1 & 2: REAL TOOL SIZES

MASONRY SAWS

FLOOR SAWS

DRILL, REAM & DRILL AND MIXTURES

POWER PLANERS

DIAMOND QUALITY

DRY CUTTING

DRY CUTTING OF CONCRETE PRODUCTS	DRY CUTTING OF CONCRETE PRODUCTS	DRY CUTTING OF CERAMIC TILES
WET CUTTING	WET CUTTING OF CONCRETE FLOOR	WET CUTTING OF ASPHALT ROAD
WET CUTTING OF CONCRETE SLABS OR PAVEMENTS	WET DRILLING	WET DRILLING OF REINFORCED CONCRETE

MACHINES

Electric angle grinder	Personal handheld saw	Wet saw
Masonry saw	Real tile saw	Table tile saw
Large block saw	Floor saw	Mechanical power float
Grinding machine	Portable hand-held core drill motor	Core drill rig & motor

GRAPHIC TEMPLATES
can be adapted to suit your requirements.
For information about tailored designs please contact
Marketing Communications EMEA



Clipper tile saws lecturn

A stand-alone display unit for small tile saws (up to TT250G) and a set of diamond blades. Made in hard laminated wood. With embedded ring binder to display related literature.

Tile saws lecturn (English version) *	TBD	1m² floor space
---------------------------------------	-----	-----------------

* please contact us for documents in your local language.

Clipper counter display and other communication tools

Strong metal display unit for exposing 6 cut-off saws and a set of diamond blades or abrasive thin-wheels, with header board describing the features & benefits of the machines.

1 - Counter display	66254499498	L545 x H530 x W480mm
2 - Floor saw display	TBD	L1320 x H1400 x W600mm



Clipper tile saws corner

The ideal shop-in-shop solution for your Clipper tile saws. Composed of a large metal table, with a totem on top for displaying literature and diamond tools.

Tile saws up to TR201E can be stored beneath the table for take-away. See secured lockable hooks at bottom of the page.

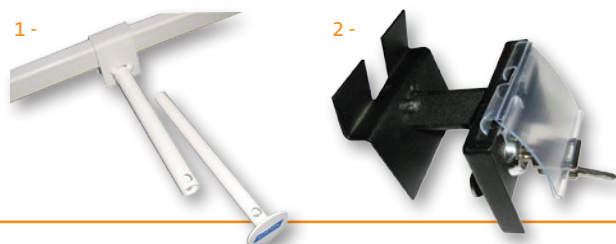
Tile saws corner (1 table + 0,8m tall totem) *	510085218	2m² floor space
--	-----------	-----------------

* please contact us for documents in your local language.

Secured lockable hooks

For the 2x1m wall display : long hook with lockable with padlock, suitable for diamond blades and abrasive cut-off wheels.
For the clipper corner : short lockable hook with key.

1 - Safety lockable hooks for the wall display 1x2m	510018714
2 - Safety lockable hooks for the Clipper corner	TBD



DIAMOND PRODUCTS RANGE



CONCRETE & CONCRETE PRODUCTS

Machines up to 15HP



DUO EXTREME+
★★★★★
PAGE 14



SUPER BETON EVO
★★★★★
PAGE 15



CLASSIC BETON
★★★★☆
PAGE 15



ZDH 500
★★★★★
PAGE 16

Ring saws



RING BETON
★★★★★
PAGE 16



RING UNI
★★★★★
PAGE 25



BUILDING MATERIALS

Segmented blades



EURO ZML EVO
★★★★★
PAGE 19



CLASSIC LASER
★★★★★
PAGES 19 & 23



CLASSIC UNI
★★★★★
PAGE 19

Jet blades



AERO JET EVO
★★★★★
PAGE 18



EURO JET
★★★★★
PAGE 21



CLASSIC JET
★★★★★
PAGE 21

Mortar rakers



TP-Z
★★★★★
PAGE 25



TP
★★★★★
PAGE 25



TP-V
★★★★★
PAGE 25

Cup grinders



CLASSIC CG
★★★★★
PAGE 27



PRO CG
★★★★★
PAGE 27



EXTREME CG
★★★★★
PAGE 27



ASPHALT & ABRASIVE MATERIALS

Machines up to 15HP



DUO ASPHALT+
★★★★★
PAGE 32



SUPER ASPHALT EVO
★★★★★
PAGE 33



CLASSIC ASPHALT
★★★★★
PAGE 33



M45 EVO
★★★★★
PAGE 34



TILES & NATURAL STONES

Dry cutting on angle-grinders & tile saws



SUPER GRES XT EVO
★★★★★
PAGES 36 - 38



MD 110 CD
★★★★★
PAGE 37



CLASSIC CERAM XT
★★★★★
PAGE 37



CLASSIC CERAM
★★★★★
PAGES 37 & 38

Wet cutting on tiles & masonry saws



MD120 C
★★★★★
PAGE 38



CERAM XJ
★★★★★
PAGE 39

Stone cutting



DUO GRANIT+
★★★★★
PAGE 40



GRANIT TURBO LASER
★★★★★
PAGE 41



SUPER STRADALIT EVO
★★★★★
PAGE 42



GRANITO
★★★★★
PAGE 43



PRO STONE
★★★★★
PAGE 43



REFRACTORY MATERIALS

Masonry saws



RC 400
★★★★★
PAGE 57



RC 465
★★★★★
PAGE 58



RC 525
★★★★★
PAGE 58



RC 540
★★★★★
PAGE 58



RC 575
★★★★★
PAGE 58



ZDH 500
★★★★★
PAGE 59

4x4 Explorer + : Multi purpose blade



Silencio : Silent blade



Masonry saws



FMD DUO
★★★★★
PAGE 22



ALFA
★★★★☆
PAGE 23

Block saws (JUMBO)



DUO BS-15
★★★★★
PAGE 24



PRO BS-12
★★★★★
PAGE 24



CLASSIC BS-10
★★★★☆
PAGE 24

For cutting & grinding



CG-PCD
★★★★★
PAGE 28



CLASSIC CG-PCD
★★★★★
PAGE 28



CUT N' GRIND
★★★★★
PAGE 29



PRO SURF
★★★★★
PAGE 29

Marble & glass



MARMO PRO
★★★★★
PAGE 39



PRO GLASS
★★★★★
PAGE 39

Tiles drill bits



DIAMOND DRILLS
★★★★★
PAGE 44



VB DRY
★★★★★
PAGE 44

Masonry saws



ZDM 200
★★★★★
PAGE 59



ZDM 944T
★★★★★
PAGE 59

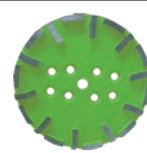


MULTI-RUNNER
★★★★★
PAGE 23

Other tools



CORE BITS
PAGE 45



GRINDING DIAMOND TOOLS
PAGE 140



THIN WHEELS
PAGE 143

CLIPPER MACHINES & SPECIAL APPLICATIONS



MASONRY SAWS



CGW
Ø 350mm
PAGE 62



CM351
Ø 350mm
PAGE 63



CM42
Ø 400mm
PAGE 64



CHW & CHW-T Modulo
Ø 350mm
PAGE 65



JCW
Ø 400mm
PAGE 66



CM401 Modulo
Ø 230mm
PAGE 67



FLOOR SAWS



CS1
Ø 350mm
PAGE 80



CS401
Ø 400mm
PAGE 81



CS451
Ø 450mm
PAGE 82



CS1
Ø 500mm
PAGE 83



CSB1 Petrol
Ø 600mm
PAGE 84



CSB1 Diesel
Ø 500mm
PAGE 85



TABLE TILE SAWS



TT180 BM
Ø 180mm
PAGE 92



TT200 EM
Ø 200mm
PAGE 93



TT250 G
Ø 250mm
PAGE 94



TR201 E
Ø 200mm
PAGE 95



TR230 GS
Ø 230mm
PAGE 96



TR231 GL
Ø 230mm
PAGE 97



PETROL SAWS



CP512 & CP514
Ø 300-350mm
PAGE 105



CORE DRILLING



CDR 133
Ø 130mm
PAGE 116



CDR 163
Ø 160mm
PAGE 116



CDM 163
Ø 15 > 160mm
PAGE 113



CDM 203
Ø 15 > 200mm
PAGE 113



POWER FLOATS



CT600 UNO
Ø 600mm
PAGE 128



CT601
Ø 620mm
PAGE 129



CT901
Ø 950mm
PAGE 130



MTA36
Ø 915mm
PAGE 131



CT1201
Ø 1190mm
PAGE 132



WALL CHASER



SC181
Ø 180mm
PAGE 136



SC401
Ø 400mm
PAGE 136



GRINDING MACHINE



CG125
10 000 min⁻¹
PAGE 137



CG180
9500 min⁻¹
PAGE 138



CG252
1410 min⁻¹
PAGE 139



CM501
Ø 350 > 600mm
PAGE 68



ISM & ISC
Ø 500 > 750mm
PAGE 69



JUMBO 651
Ø 650mm
PAGE 70



JUMBO 900 & 1000
Ø 900 > 1000mm
PAGE 71



CB 511
3850 x 27mm
PAGE 72



CK31
Ø 660mm
PAGE 86



C99 E 75.3
Ø 350 > 450mm
PAGE 88



CS 7,5 E
Ø 800mm
PAGE 89

RAIL STONE SAWS



TR250 H
Ø 250mm
PAGE 98



CMR351
Ø 350mm
PAGE 99



CST Modulo
Ø 350mm
PAGE 100



CDR 253
Ø 250mm
PAGE 118



CDR 353
Ø 350mm
PAGE 118



CDR403
Ø 400mm
PAGE 118



NBM 351
Ø 30 > 350mm
PAGE 115



NBM 251
Ø 25 > 250mm
PAGE 115



DUST EXTRACTORS



CV402
380 m³/h - 200mbar
PAGE 141



CV324
324 m³/h - 300mbar
PAGE 141



EN13236



[illegible]

This image shows a full page of blank handwriting practice paper. It features a series of evenly spaced, horizontal orange lines that run across the entire width of the page. The background is a solid light blue color. There are no margins, text, or other markings on the page.

SAINT-GOBAIN ABRASIVES NV/SA
INDUSTRIELAAN 129
1070 ANDERLECHT /BRUSSEL
BELGIUM
TEL: +32 (0)2 267 21 00
FAX: +32 (0)2 267 84 24

SAINT-GOBAIN ABRASIVES, S.R.O.
POČERNICKÁ 272/96, MALEŠICE
108 00 PRAHA 10
CZECH REPUBLIC
TEL: +420 255 719 326
FAX: +420 255 719 321

SAINT-GOBAIN ABRASIVES A/S
ROBERT JACOBSENS VEJ 62A
2300 KØBENHAVN S
DENMARK
TEL: +45 4675 5244

SAINT-GOBAIN ABRASIVES
JUMEIRA LAKE TOWERS
FREE ZONE
CLUSTER E
SABA 1 TOWER, OFFICE 2201
PO BOX 643706
DUBAI, U.A.E
TEL: +971 4 4315154
FAX: +971 4 4315434

SAINT-GOBAIN ABRASIFS
RUE DE L'AMBASSADEUR - B.P.8
78 702 CONFLANS CEDEX
FRANCE
TEL: +33 (0)1 34 90 40 00
FAX: +33 (0)1 39 19 89 56

SAINT-GOBAIN ABRASIVES GMBH
BIRKENSTRASSE 45-49
D-50389 WESSELING
GERMANY
TEL: +49 (0) 2236 703-1
+49 (0) 2236 8996-0
+49 (0) 2236 8911-0
FAX: +49 (0) 2236 703-367
+49 (0) 2236 8996-10
+49 (0) 2236 8911-30
FÜR DEN FACHHANDEL
ÖSTERREICH
TEL: +43 (00) 662 430 076

SAINT-GOBAIN ABRASIVES KFT.
1225 BUDAPEST
BÁNYALÉG U. 60/B.
HUNGARY
TEL: +36 1 371 22 50
FAX: +36 1 371 22 55

SAINT-GOBAIN ABRASIVI S.P.A
VIA PER CESANO BOSCONI 4
I-20094 CORSICO MILANO
ITALY
TEL: +39 02 44 851
FAX: +39 02 44 78 266

SAINT-GOBAIN ABRASIVES S.A.
190 RUE J.F. KENNEDY
L-4930 BASCHARAGE
GRAND DUCHE DE LUXEMBOURG
TEL: +352 50 401 1
FAX: +352 50 16 33
NO. VERT (FRANCE) 0800 906 903

SAINT-GOBAIN ABRASIFS, S.A.
2 ALLÉE DES FIGUIERS
AIN SEBAÂ - CASABLANCA
MOROCCO
TEL: +212 5 22 66 57 31
FAX: +212 5 22 35 09 65

SAINT-GOBAIN ABRASIVES BV
GROENLOSEWEG 28
7151 HW EIBERGEN
P.O. BOX 10
7150 AA EIBERGEN
THE NETHERLANDS
TEL: +31 545 466466
FAX: +31 545 474605

SAINT-GOBAIN ABRASIVES AS
POSTBOKS 11, ALNABRU,
0614 OSLO
BROBEKKVEIEN 84,
0582 OSLO
NORWAY
TEL: +47 63 87 06 00
FAX: +47 63 87 06 01

SAINT-GOBAIN HPM POLSKA SP. Z O.O.
UL. NORTON 1
62-600 KOŁO
POLAND
TEL: +48 63 26 17 100
FAX: +48 63 27 20 401

SAINT-GOBAIN ABRASIVOS, L. DA
ZONA INDUSTRIAL DA MAIA
I-SECTOR VIII, NO. 122
APARTADO 6050
4476 - 908 MAIA
PORTUGAL
TEL: +351 229 437 940
FAX: +351 229 437 949

SAINT-GOBAIN GLASS
BUSINESS UNIT ABRASIVI
PUNCT DE LUCRU: LOC.VETIS, JUD.
SATU MARE 447355
STR. CAREIULUI 11
PARC INDUSTRIAL RENOVATIO
ROMANIA
TEL: 0040-261-839.709
FAX: 0040-261-839.710

SG HPM RUS
58, F. ENGELS STR.
STROENIE 2
105082 MOSCOW
RUSSIA
TEL: +74 955 408 355
FAX: +74 959 373 224

SAINT-GOBAIN
ABRASIVES (PTY) LTD
2 MONTEER ROAD
ISANDO 1600
P.O. BOX 67
SOUTH AFRICA
TEL: +27 11 961 2000
FAX: +27 11 961 2184/5

SAINT-GOBAIN ABRASIVOS, S.A.
CTRA. DE GUIPÚZCOA, KM. 7.5
E-31195 BERRIOPLANO (NAVARRA)
SPAIN
TEL: +34 948 306 000
FAX: +34 948 306 042

SAINT-GOBAIN ABRASIVES AB
BOX 495
SE-191 24 SOLLENTUNA
SWEDEN
TEL: +46 8 580 881 00
FAX: +46 8 580 881 01

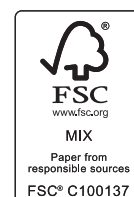
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MALZEMELER VE AŞINDIRICI
SAN. TIC. A.Ş.
GOLD PLAZA, ALTAY ÇEŞME
MAHALLESİ, ÖZ SOKAK, NO:19/16
34843 MALTEPE-ISTANBUL,
TURKEY
TEL: 0090-216-217 12 50
FAX: 0090-216-442 40 74

SAINT-GOBAIN ABRASIVES LTD.
DOXEY RD
STAFFORD
ST16 1EA
UNITED KINGDOM
TEL: +44 1785 222 000
FAX: +44 1785 213 487

www.construction.norton.eu

Saint-Gobain Abrasives S.A.
190 Bd J.F. Kennedy
L-4930 Bascharage
Luxembourg
Tel: +352 50401 1
Fax: +352 50163 3
sales.nlx@saint-gobain.com

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