

NORTON

SAINT-GOBAIN

clipper[®]

ABRASIVE SOLUTIONS

BUILDING & CONSTRUCTION

2019

Reshaping
your
world.




SAINT-GOBAIN

NORTON

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your
world.®

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RESHAPING THE FACE OF CONSTRUCTION IN 2019

NORTON CLIPPER PROVIDES A ONE-STOP SHOP FOR ALL CUTTING, DRILLING, GRINDING AND SANDING JOBS WITHIN THE BUILDING AND INDUSTRIAL CONSTRUCTION MARKETS.

From residential and habitat projects to large scale civil engineering ventures and everything in between – we can equip you with the safest and highest performing construction blades, machines and abrasives that not only help to improve your personal comfort but contribute to a greener environment.

It was Norton Clipper that revolutionised the building and construction industry with the invention of the world's 1st laser welded diamond blade. And we've continued to innovate: our award winning silent blades are perfect for noise-sensitive areas like hospitals, schools, offices, residential spaces and city centres. The introduction of infiltrated High Density technology (i-HD™), the latest revolution in diamond

tool manufacturing, providing unrivalled performance, greater comfort, lower energy production and improved safety, which is second to none.

Additionally, Norton Clipper boasts the widest range of diamond tools for cutting the most common surfaces: reinforced concrete, granite, tiles, stone and asphalt; as well as providing high performance machines including: masonry, floor, tile and handheld saws, core drilling equipment, floor grinders and power trowels. Whatever your trade we can offer you safe, high quality construction blades, machines and abrasives to help you build, renovate and improve our habitat.

BRAND NEW LOOK

Norton Clipper has been completely revitalised across its full range of machines and consumables. Through significant brand investment we have improved and modernised machine livery and packaging design to strengthen communication, making product recognition and selection quicker and easier. Norton Clipper's cohesive, uniform brand identity spans all product ranges, strengthening the connection between Norton and Clipper, signifying performance excellence.



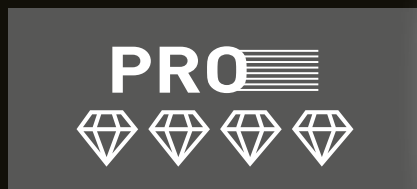


DIAMOND TOOL QUALITY TIERING

Within the Clipper diamond tool range, we offer a choice of three performance levels, adapted to the requirements of our customers. Quality tiering is clearly communicated through the range names: Extreme, Pro and Classic, which are supported on the packaging by the number of quality diamonds located underneath the names. An additional performance indicator on the sleeve quickly and effectively indicates Pro and Extreme products.



CLASSIC: good quality versus performance ratio for occasional use.



PRO: professional quality for frequent use, designed for high performance and great productivity.



EXTREME: the most innovative Norton Clipper blades, with the fastest and smoothest cutting speeds and extremely long life, for the heaviest use.

SELECTING THE RIGHT BLADE FOR YOUR MATERIAL

To further aid quick and easy product selection, clear material colour coding has been applied to the packaging. This is supported on the back of pack with further substrate details, designed to give guidance to end users to ensure the right blade is chosen for the job.

- BETON / CONCRETE**
Extreme, Pro, Classic
- UNIVERSAL**
Extreme, Pro, Classic
- ASPHALT**
Extreme, Pro, Classic
- CERAM**
Extreme, Pro, Classic
- NATURAL STONE**
Extreme, Pro
- 4X4 EXPLORER**
Pro
- REFRACTORY**
Extreme, Pro



PRODUCT NAME CONVERSION CHART

DIAMOND BLADES



FORMER NAME	NOW
UNIVERSAL BUILDING MATERIALS	
FMD Duo	Extreme Universal Laser
Duo BS-15	
BS Silencio	
Euro ZML Evo	Pro Universal Laser
Alfa	
Pro BS-12	Classic Universal Laser
Classic Laser	
Classic BS-10	Classic Universal
Classic Uni	
Aero Jet Evo	Extreme Universal Turbo
Euro Jet	Pro Universal Turbo
Classic Jet	Classic Universal Turbo
Multi-runner	Pro Universal Ductile
TP-Z	Extreme Universal TP-Z
TP Mortar Raker	Pro Universal TP
TP-V Crack Chaser	Pro Universal TP-V
Extreme CG	Extreme CG
Pro CG	Pro CG
Classic CG	Classic CG
Pro CG-PCD Low Vibration	Pro CG-PCD Low Vibration
Classic CG-PCD	Classic CG-PCD
Cut' N Grind	Extreme Cut' N Grind
	Pro Cut' N Grind

FORMER NAME	NOW
CONCRETE	
Duo Extreme +	Extreme Beton
Vorax	
Silencio	Extreme Beton Silencio
Super Beton Evo	Pro Beton Soft
ZDH 500	Pro Beton
ZDH Duo Ø230mm	
Classic Beton	Classic Beton
Classic Turbo Laser	Classic Beton Turbo
V-Max III	Extreme Beton Wall Saw
V-Max II Silencio	Extreme Beton Silencio Wall Saw
Revex LB	Extreme Beton LB

ABRASIVE MATERIALS	
Duo Asphalt +	Extreme Asphalt
Platinum	
Platinum LB	Extreme Asphalt LB
Super Asphalt Evo	Pro Asphalt
Classic Asphalt	Classic Asphalt
M45 Evo - Green Concrete	Pro Green Concrete
Xenon 6 Black	Extreme Green Concrete

MULTI MATERIALS	
4x4 Explorer +	Pro 4x4 Explorer

CERAMIC AND PORCELAIN TILES	
Super Gres XT Evo	Extreme Ceramic Turbo
Super Gres XT	
Classic Ceram XT	Classic Ceramic Turbo
Ceram XJ	Extreme Ceramic
MD 110 CD	Pro Ceramic
MD 120 C	
Classic Ceram	Classic Ceramic
Pro Glass	Pro Ceramic Glass

AUSTRALIAN RANGE	
Pro GP Super Turbo	Pro Universal Turbo
Pro Thin Turbo	
Classic Thin Turbo	Classic Uni Turbo
Value Plus GP Turbo	
Pro Continuous Rim	Pro Ceramic
4x4 Explorer+	Pro 4x4
4x4 Explorer	
Pro GP Segmented ZDH	Pro Universal Laser
Premium GP Segmented	Classic Universal Laser

DRILLING CORE BITS

	FORMER NAME	NOW
CONCRETE	X3	Extreme CB Beton
	Pro CB Beton	Pro CB Beton
	Pro CB Beton (crown)	Pro CB Beton (crown)
	Pro CB Beton XT	Pro CB Beton XT
	Classic CB Beton	Classic CB Beton
	Classic CDT	Classic CB Beton Soft
	ROBO Forsheda	Pro CB Beton ROBO
UNIVERSAL BUILDING MATERIALS	DD5 Gold	Extreme CB Universal
	Arid 7	Pro CB Universal
	Arid 5	Classic CB Universal
	Pro Arid DS	Pro DS
	Classic Arid DS	Classic DS
NATURAL STONE & TILES	Pro Ceram VB dry	Extreme VB
	Diamond Tile Drills	Classic VB
	Pro CB Granit	Pro CB Granit

INNOVATIONS

DELIVERING INNOVATIVE EXCELLENCE

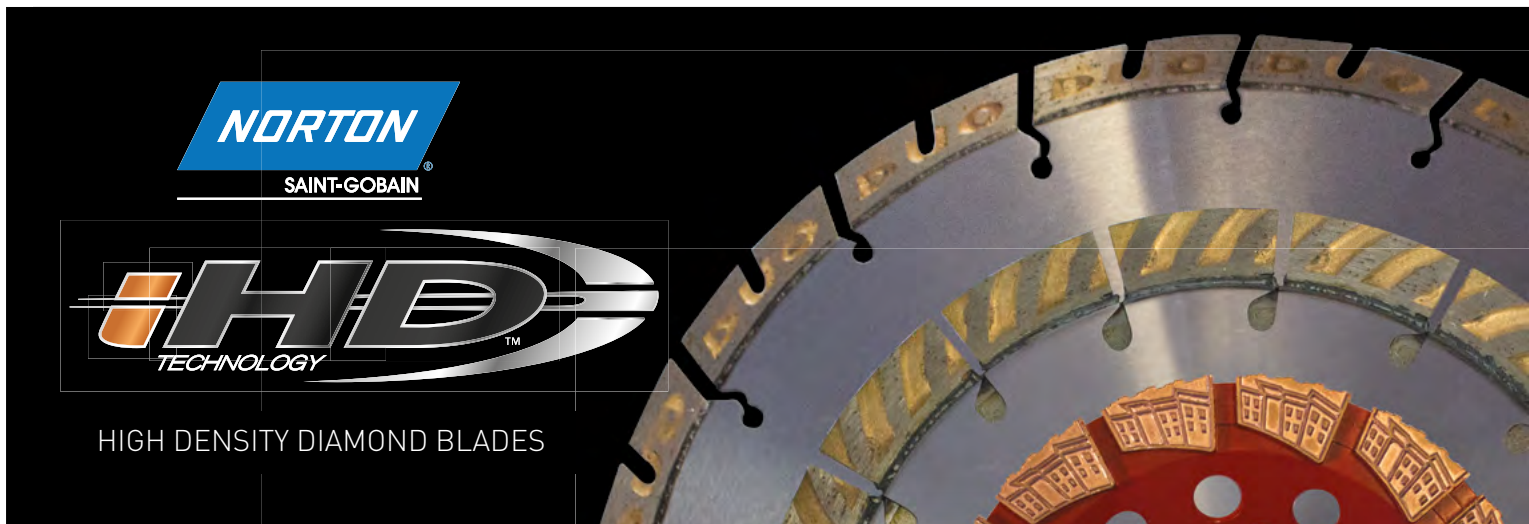
Investing in R&D, stimulating the generation of new ideas, and increasing the speed at which cutting-edge science is turned into market-ready products, are key factors that determine business success and are some of Norton Clipper's main business priorities. Norton Clipper also takes an innovative approach to its business operations, and is committed to the continuous improvement processes and services, creating, evaluating and exploiting new ideas to help continuously add value to its customer relations.

Recently, a number of product innovations have been introduced. These are clearly highlighted throughout this catalogue. Norton Clipper's innovative abrasive solutions offer outstanding productivity and versatility, and help reinforce its position as the world's leading manufacturer of abrasives specialized in the light equipment and diamond tools for building and construction.

Cutting edge innovation like the i-HD™ diamond blades are among the longest lasting and fastest blades in the market:

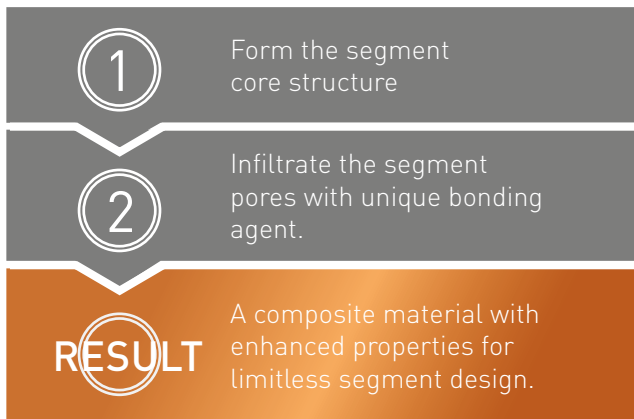
our i-HD™ manufacturing process guarantees customers unrivalled performance and increased safety including:

- Norton Clipper Silencio recognized as the most silent blade worldwide (up to 30x noise reduction compared with a standard blade) and with premium cutting performances.
- The patented Norton Clipper ellipsoidal gullets increase the product safety reducing the risk of cracking the steel centre.



i-HD™ TECHNOLOGY

Norton's Infiltrated High Density technology (i-HD™) 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.



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.



UPTO 30% REDUCTION
IN CUTTING NOISE



SILENCIO

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 Clipper Silencio is our most efficient diamond blade for granite, concrete and general purpose materials, while protecting the surrounding area from disturbing cutting noise.

ULTIMATE SURFACE
GRINDING PERFORMANCE



CUP GRINDERS

Now with i-HD™ technology, Norton Clipper cup grinders provide the ultimate surface grinding performance.

- i-HD™ segments provide the best finish, high material removal rates and longest life thanks to the uniform density of diamonds across each whole segment
- The unique large segment design enables faster grinding of large surfaces

DID YOU KNOW?

Hand-Arm Vibration syndrome can be caused by excessive use of power tools such as hand held cut-off saws or grinding machines. With this in mind Norton Clipper developed the EXTREME CG Comfort cup grinder to both reduce vibration levels and optimise operator comfort.

EXTREME CG COMFORT



The latest development in grinding cup technology Allows you to work 4x longer!

Once you have tried it, there is no going back!



VIBRATIONS

Hand / arm	<2,5 m/s ²	≥3,5 m/s ²	≥4,5 m/s ²
Body	<0,8 m/s ²	≥1.15 m/s ²	≥2,5 m/s ²
Work time			

PRODUCT QUALITY STANDARDS & USER SAFETY ON SITE



DIAMOND TOOLS, CUTTING-OFF & GRINDING WHEELS

Products that rotate are of particular danger and at Saint-Gobain Abrasives we take every precaution to ensure your health and safety is always at the heart of everything we do. Safety & quality are our priority and all Norton Clipper diamond tools & abrasives are manufactured to the most stringent European health, safety & environmental standards for use in the toughest construction environments.

oSa - ORGANISATION FOR SAFETY OF ABRASIVES

Saint-Gobain Abrasives is 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.

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 - STANDARDS FOR CUTTING-OFF & GRINDING WHEELS

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

SAFETY REGULATIONS & STANDARDS

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 jobsite - Safety

EN 12649 Concrete compactors and smoothing machines - Safety

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

DISPLAY STANDS



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

ITEM No.	QTY
5101 16151	1



DIAMOND BLADE DISPLAY 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

ITEM No.	QTY
MT0	1



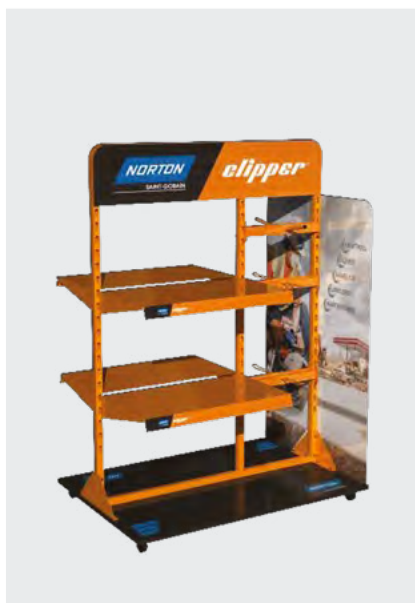
COUNTER TOP DIAMOND CUP DISPLAY

Countertop portable Cup grinder display. Available in multiple languages.

125mm Diamond cup grinder to be purchased separately.

L: 70mm x H: 280mm x W: 190mm

ITEM No.	QTY
005101 26407	1



UNIVERSAL DISPLAY

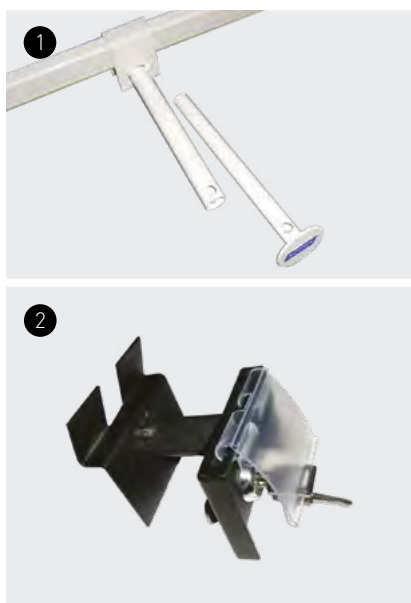
Portable display for Petrol Saws (CP500), tile saws, drill motors, grinding machines with English point-of-sale graphic

KIT CONTAINS:

Base x1, header x1, shelf x4, pins x2, euro hooks x4

H: 1600mm x W: 1200mm x D: 800mm

ITEM No.	QTY
5101 09555	1



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.

DESCRIPTION	ITEM No.
1) Safety lockable hooks for the wall display 1x2m	5100 18714*
2) Safety lockable hooks for the Clipper corner	5100 80899*

*Non stock lines - available on request

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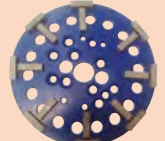
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DIAMOND TOOLS FOR

CONCRETE & REINFORCED CONCRETE

Discover our diamond blades especially designed for cutting off : 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.



EXTREME BETON



LASER

EXTREME BETON, NOW WITH I-HD™ TECHNOLOGY PRODUCES MANY BENEFITS FOR THE END USER, INCLUDING:

- Up to **20% faster cut rate** than the previous version.
- Up to **20% longer life** thanks to increased segment height, a high density and more even distribution of diamonds throughout the segment as well as better grain retention.
- Less vibration for a **smoother, more comfortable cut** and better cut quality.
- **60% stronger torque resistance** for exceptional safety thanks to the i-HD™ process, we have 100% warranty against segment loss.
- **Applications:** for concrete and reinforced concrete on angle grinder, cut of saw and floor saws up to more than 90HP.



MACHINES	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	115	22,23	12/2,2	701846 30301	5450248 414193
	125	22,23	12/2,2	701846 30302	5450248 414209
	230	22,23	15/3,0	701846 47723	5450248 569299
	300	25,4	15/3,0	701846 47788	5450248 570752
	350	25,4	15/3,2	701846 47790	5450248 570776
	400	25,4	15/3,2	701846 93354	5450248 572664
	450	25,4	15/3,8	701846 02363	545028 727361

Formerly Duo Extreme and Vorax 5 (≥500mm)





***LASER**



A PREMIUM CUTTING SILENT DIAMOND BLADE

Residential areas, city centres, schools and hospitals are especially sensitive to noise, with local regulations preventing excessive noise levels. With up to 17mm high segments and a bespoke specification for each application, Norton Silencio is our quietest diamond blade, reducing noise by up to 20x (-13 dB) compared to conventional blades when used on concrete, reinforced concrete, granite and building materials, while achieving a fast, efficient cut.

What makes Silencio different?

Winner of 10 innovation and safety awards, Silencio's patented technology relies on two features:

- A noise dampening layer is sandwiched between two sheets of steel which absorbs the cutting vibrations and sound of the product when in use.
- Patented 'off-set gullets' prevent whistling air flow around the diamond blade.
- Each blade is fine-tuned to provide the best possible noise reduction and cutting performance on a particular machine application.



EXTREME BETON SILENCIO



***LASER**

- A noise dampening layer is sandwiched between two sheets of steel which absorbs the cutting vibrations and sound of the product when in use.

- Patented 'off-set gullets' prevent whistling air flow around the diamond blade.

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

Formerly Silencio



EXTREME UNIVERSAL SILENCIO



***LASER**

- A noise dampening layer is sandwiched between two sheets of steel which absorbs the cutting vibrations and sound of the product when in use.

- Patented 'off-set gullets' prevent whistling air flow around the diamond blade.

MACHINES	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	350	25,4	15/2,8	701846 28998	5450248 398202
	400	25,4	15/3,1	701846 40270	5450248 456216

Formerly Silencio



DIAMOND TOOLS FOR

UNIVERSAL BUILDING MATERIALS

Discover our diamond blades especially designed for cutting off : cured concrete, kerbs, concrete pipes, bricks, block paving, flagstones and paving stones, washed gravel concrete slabs, natural stone, sandstone, limestone, flint.



EXTREME UNIVERSAL TURBO



WHEN PERFORMANCE MEETS DESIGN

The Extreme Universal blade cuts all medium to hard construction materials, fast.

- 12mm impregnated diamond segments provide very long life.
- Arrow shaped inserts on the blade protect the steel core for reduced blade wear, as well as indicating the correct direction for rotation.
- The ventilated waved steel centre reduces heat which aids blade rigidity during dry cutting.
- The corrugated continuous rim enables smooth, high quality cutting and ease of use. It also cuts more aggressively on hard materials.
- Ideal for use on a very wide range of medium to hard construction materials, block pavements, granite, natural stone, roof tiles and hard tiles.



Clipper's Tip

Quickfix

ADJUST THE DIAMETER OF YOUR BLADE BORE FOR USE WITH MACHINES WITH DIFFERENT ABOUR / SHAFT DIAMETERS

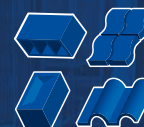
PRODUCT FEATURES



12mm HIGH SEGMENTS WITH WAVED STEEL CENTRE






ROTATIONAL DIRECTION



EXTREME UNIVERSAL TURBO



- 12mm impregnated diamond segments provide very long life.
- Ideal for universal use on a very wide range of medium to hard construction materials.
- Arrow shaped inserts on the blade protect the steel core for reduced wear, as well as indicating the correct direction for rotation.

MACHINES	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	115	22,23	12/1,8	701846 23598	5450248 236863
	125	22,23	12/2,0	701846 23599	5450248 330868
	230	22,23	12/2,8	701846 23180	5450248 234692




Formerly Aero Jet Evo



PRO UNIVERSAL TURBO



- 12mm high continuous rim blade.
- Ideal for universal use on general materials and stone.
- Reinforcement flanges around the bore ensure rigidity and straight cutting under the most demanding conditions.
- Use dry or wet.

MACHINES	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	115	22,23	12/2,1	701846 10314	5450248 007616
	125	22,23	12/2,1	701846 10315	5450248 007623
	180	22,23	12/2,5	701846 10317	5450248 007647
	230	22,23	12/2,8	701846 10267	5450248 005223





Formerly Euro Jet



CLASSIC UNIVERSAL TURBO

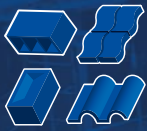


- An economical solution.
- Continuous rimmed blade.
- Use dry or wet.

MACHINES	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	115	22,23	10/2,2	701846 26814	5450248 353188
	125	22,23	10/2,2	701846 26815	5450248 353195
	180	22,23	10/2,4	701846 26816	5450248 353201
	230	22,23	10/2,6	701846 26818	5450248 353225
	230	70/22,23 + Flange	10/2,6	701846 26819	5450248 353232

Formerly Classic Jet











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

PRO UNIVERSAL LASER ~~LASER~~

- Fast cutting.
- For use on concrete slabs and general purpose building materials.
- Use dry or wet cutting on masonry saws.

MACHINES	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	115	22,23	10/2,2	701846 24738	5450248 341031
	125	22,23	10/2,2	701846 24739	5450248 341048
	230	22,23	10/2,5	701846 11396	5450248 183143
	300	25,4	10/2,8	701846 22314	5450248 233213
	350	25,4	10/2,8	701846 22227	5450248 233237
	400	25,4	10/3,2	701846 25951	5450248 347996

Formerly Euro ZML Evo and Alfa



Diamond shaped holes only on 230mm



CLASSIC UNIVERSAL LASER ~~LASER~~

- An economical blade choice for dry or wet cutting on masonry saws.
- For use on construction materials and lightweight blocks, Poroton, Kalksandstein.

MACHINES	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	115	22,23	7/2,2	701846 26834	5450248 353409
	125	22,23	7/2,2	701846 26835	5450248 353416
	180	22,23	7/2,5	701846 26837	5450248 353447
	230	22,23	10/2,5	701846 26838	5450248 353454
	300	25,4	10/2,5	701846 26840	5450248 353478
	350	25,4	10/2,8	701846 26842	5450248 353492

Formerly Classic Laser



CLASSIC UNIVERSAL

- An economical solution.
- Sintered blade.
- Use dry or wet.

MACHINES	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	350	25,4	10/3,2	701846 26813	5450248 353171

Formerly Classic Uni



PRO UNIVERSAL DUCTILE



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

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



MACHINES	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	115	22,23	2,8	701846 94459	5450248 687894
	125	22,23	2,8	701846 94460	5450248 687900
	230	22,23	3,1	701846 94462	5450248 687924

Formerly Multi-Runner



EXTREME CG



Clipper's Tip

**BEST WHEN USED
ON NORTON CLIPPER
CG125 AND CG180!
SEE PAGE 161**

Now with i-HD™ technology, Clipper Extreme Cup Grinders provide the ultimate surface grinding performance.

- i-HD segments provide the **best finish, high material removal rates** and **longest life** thanks to the uniform density of diamonds across each whole segment.
- The unique large segment design enables faster **grinding of large surfaces**.
- Low vibrations provide better comfort during use.
- Large ventilation holes mean better cooling and less heat generation.
- Flat 125mm cup grinder is suitable for use on all vacuum grinders.
- For use on building materials, concrete, natural stone and abrasive materials.
- For tilers, general builders, concrete flooring contractors, swimming pool installers.



H = 24mm*



MACHINES	∅ (mm)	CUP HEIGHT (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	100	19	22,23	4,5	701846 94991	5450248 697343
	125	24	22,23	4,5	701846 94993	5450248 697367
	180	29	22,23	4,5	701846 94994	5450248 697374
	125	19	22,23	4,5	701846 94992	5450248 697350

* Total height for ∅ 125mm

See page 15 for more information on merchandising displays

PRO CG



- High material removal rate.
- Low vibration for better comfort when in use.
- i-HD manufacturing technology ensures long life and a good standard of finishing.

- For surfacing and grinding medium hardness construction and building materials (concrete, reinforced concrete, natural stone).

H = 24mm*



MACHINES	∅ (mm)	CUP HEIGHT (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	100	19	22,23	4,5	701846 94988	5450248 697312
	125	24	22,23	4,5	701846 94989	5450248 697329
	180	29	22,23	4,5	701846 94990	5450248 697336

* Total height for ∅ 125mm



CLASSIC CG



- An economical solution.
- For surfacing and grinding hard construction and building materials (concrete, reinforced concrete, natural stone).
- Smaller segments have excellent performance on hard materials.

- Flat sides avoid damaging walls or ceilings during flush grinding.

H = 24mm*



MACHINES	∅ (mm)	CUP HEIGHT (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	100	19	22,23	4,5	701846 94995	5450248 697381
	125	24	22,23	4,5	701846 94996	5450248 697398
	180	29	22,23	4,5	701846 01079	5450248 699293

* Total height for ∅ 125mm



EXTREME CG COMFORT



EXTREME CG Comfort has been specifically developed to lower vibration levels and improve operator comfort.

- Lower vibration levels
- Comfortable to use
- New segment shape for optimum results
- i-HD Technology for high material removal and long life



Clipper's Tip

Hand-Arm vibrations provokes painful and disabling disorders of the blood vessels and nerves, leading to a disease called Vibration White Finger. We have developed a product that minimizes the vibration and optimizes your comfort of use.



MACHINES	Ø (mm)	CUP HEIGHT (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	125	24	22,23	4,5	701846 02648	5450248 735106

* Total height for Ø 125mm

H = 24mm*



CGT



- Ideal for concrete repair work and dry grinding purposes.
- Turbo-segment geometry allows faster removal.
- Accurate grinding and very good finishing.
- For the fast rectification of surface defects in construction and building materials (concrete, bricks, natural stone, etc).

H = 24mm*



MACHINES	Ø (mm)	CUP HEIGHT (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	100	19	22,23	4,5	701846 24195	9310357 263791
	125	24	22,23	4,5	701846 23037	9310357 263807
	180	29	22,23	4,5	701846 24197	9310357 263821

* Total height for Ø 125mm

CG2



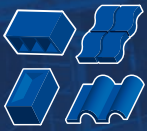
- Ideal for concrete repair work and dry grinding purposes.
- The double row of segments allows for fast removal, accurate grinding, long life and a perfect finish.
- For the fast rectification of surface defects in construction and building materials (concrete, bricks, natural stone, etc).

H = 24mm*



MACHINES	Ø (mm)	CUP HEIGHT (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	100	19	22,23	4,5	701846 10268	5450248 005247
	125	24	22,23	4,5	701846 10363	5450248 008811
	180	29	22,23	4,5	701846 10270	5450248 005261

* Total height for Ø 125mm



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

EXTREME UNIVERSAL TP-Z



- Innovative mortar raker with alternated Z shape segments that reduces contact surface area for a faster cut with less friction.

- Made with i-HD™ technology for long life and a high removal rate.
- For the removal of mortar joints between bricks, natural stone blocks or facing bricks.

MACHINES	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	125	22,23	7/6,5	701846 41691	5450248 492801

Formerly TP-Z




PRO UNIVERSAL TP



- Segments with different thicknesses for a number of different mortar joints.
- The hard-metal protection inserts prevent under-cutting of the steel-centre and contributes to longer product life.

- For the removal of mortar joints between bricks, natural stone blocks or facing bricks.
- Removes mortar 2x faster than a standard blade.

MACHINES	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	125	22,23	6,5/6,5	701846 10307	5450248 006534

Formerly TP Mortar Raker




PRO UNIVERSAL TP-V



***LASER**

- Special tool for the repair of cracks in floors and walls.
- The V-shape segments widen the crack to allow repair with mortar.

- For use on concrete floors and walls, masonry walls, plaster boards.
- Removes concrete 2x faster than a standard blade.

MACHINES	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	125	22,23	13/6,5	701846 24199	5450248 235484

Formerly TP-V Crack Chaser





EXTREME CUT'N'GRIND



- Multi-purpose tool for cutting and grinding of building materials.
- i-HD™ technology offers longer life, a faster cut and a unique design.

- 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.

MACHINES	∅ (mm)	BORE	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	125	M14	25 / 3,9	701846 02036	5450248 719182



Clipper's Tip

ONE BLADE FOR TWO APPLICATIONS :
CUTTING AND GRINDING




PRO CUT'N'GRIND



- Sintered Turbo shape, for fast material removal and good finishing quality in cutting and grinding.
- Equipped with an aluminium flange in connection M14 for offset cutting and grinding.

- Can be used for the same applications as diamond blades and diamond cup grinders.
- For use on concrete, washed concrete, blocks, ductile iron and natural stones.

MACHINES	∅ (mm)	BORE	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	125	M14	25 / 3,9	701846 41172	5450248 465607



DIAMOND TOOLS FOR

MULTI MATERIALS

Multi-purpose blades for cutting concrete, reinforced concrete, roof tiles, pavements, blocks, granite, natural stone, asphalt, breeze blocks, sandstone and gridstone.



PRO 4X4 EXPLORER



LASER

The Pro 4x4 Explorer range is even better than before. Faster cutting, longer life, improved safety and greater comfort when used on any material are all additional benefits of this manufacturing process.

- Multipurpose blade cuts all materials.
- Up to 12mm segment height for more cuts per wheel.
- Trapezoid shaped segments give a comfortable, smoother cut with lower vibration levels.
- Patented cut depth indicator allows better visibility of cut depth when in use.
- Keep track of segment wear with the specially engraved wear indicator.
- Patented drop shaped gullets prevents fatigue cracks even when cutting thick metal.



For cutting off all the following materials :

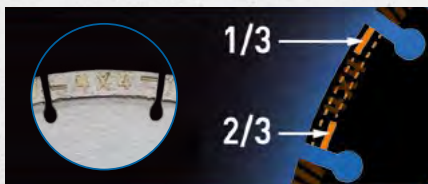
- Reinforced concrete
- Concrete lintels
- Limestone concrete
- Concrete roof tiles
- Paviments and blocks
- Granite & natural stones
- Asphalt
- Asphalt over concrete
- Breeze blocks
- Gridstone
- Sandstone
- Steel parts up to 5mm thick

MACHINES	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	115	22,23	10/2,2	701846 02018	5450248 720997
	125	22,23	10/2,2	701846 02019	5450248 721000
	180	22,23	10/2,5	701846 02020	5450248 721017
	230	22,23	12/2,5	701846 02021	5450248 721024
	300	25,4	12/3,0	701846 02023	5450248 721048
	350	25,4/20	12/3,2	701846 02092	5450248 721062
	400	25,4	12/3,2	701846 02095	5450248 721093
	450	25,4	12/3,2	701846 02096	5450248 721109
	500	25,4	10/3,8	701846 02097	5450248 721116

PRODUCT FEATURES



DROP-SHAPE GULLETS



SEGMENT WEAR INDICATOR



PATENTED CUTTING DEPTH INDICATOR

QUICK FIX

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.

MACHINES	BORE OF BLADE (mm)	BORE OF MACHINE (mm)	ITEM No.	EAN 13 Code
	25,4	22,23	701846 23894	5450248 236528
	25,4/22,23	20	701846 22589	5450248 233176



DIAMOND TOOLS FOR

CERAMIC AND PORCELAIN TILES

Discover our diamond blades especially designed for cutting off : ceramic and porcelain tiles, vitrified reconstituted stone, glass, textured glass, glazed ceramic tiles, granite, marble, slate & hard natural stone.



EXTREME CERAMIC TURBO



QUALITY CUTTING OF HARD CERAMIC TILES.

- This 10mm high continuous rim blade is the perfect choice for a high quality cut.
- Premium diamond grade and free cutting metal bond make this blade perfect for cutting even the hardest tiles.
- 1,4mm thickness for fast cutting and reduced material wastage.
- The reinforced flange on the steel centre helps to keep the blade straight without causing damage to the tile.
- For use on angle grinders, rail tile and masonry saws.
- Can be used on ceramic, porcelain, gres wall and floor tiles.



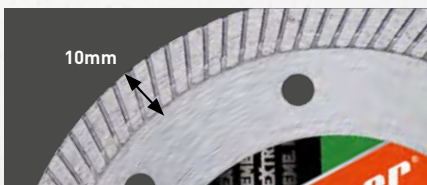
MACHINES	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	115	22,23	10/1,4	701846 44759**	5450248 523994
	125	22,23	10/1,4	701846 44760**	5450248 524007
	200	25,4	10/1,4	701846 25427*	5450248 345756
	230	22,23	10/1,4	701846 21973**	5450248 232186
	230	25,4	10/1,4	701846 27653*	5450248 385813

▲ Available on request

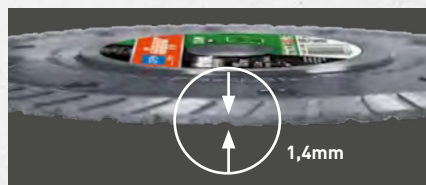
Formerly Super Gres XT* and Super Gres XT Evo**



PRODUCT FEATURES



10mm HIGH DIAMOND RIM



1,4mm THICK BLADE



FAST CUTTING CONTINUOUS RIM

EXTREME CERAMIC



- Continuous rim sintered diamond blade for wet cutting on masonry saws.
- Thin laser-cut slots to allow blade cooling and smoother cut.
- For use on glazed ceramic tiles, granite, marble, slate, quarry tiles.

MACHINES	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	200	25,4	9/1,6	701846 47047	5450248 554608

Formerly Ceram XJ





PRO CERAMIC



- Good value for money continuous diamond rim.
- Can be used for dry or wet cutting.
- For use on ceramics, granite, marble, slate, quarry tiles.

MACHINES	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
Wet & dry cutting					
	115	22,23	9/1,6	701846 25942	5450248 347927
	125	22,23	9/1,6	701846 25940	5450248 347897
	180	22,23	9/1,7	701846 25944	5450248 347941
	230	22,23	9/2,2	701846 25946	5450248 347965

Formerly MD 110 CD

MACHINES	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
Wet cutting only					
	200	25,4	9/1,6	701846 25093	5450248 343998
	200	30	9/1,6	701846 25094	5450248 344001

Formerly MD 120 C



CLASSIC CERAMIC TURBO



- Turbo continuous rimmed diamond blade faster & smoother cutting of hard ceramic tiles.
- Economical solution.
- For dry or wet cutting of porcelain and ceramic tiles.

MACHINES	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	115	22,23	7/1,6	701846 27645	5450248 385745
	125	22,23	7/1,6	701846 27646	5450248 385752

Formerly Classic Ceram XT



CLASSIC CERAMIC



- Value for money continuous rimmed diamond blade.
- Dry or wet cutting of medium hard tiles and ceramic tiles.

MACHINES	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	115	22,23	7/1,6	701846 26825	5450248 353317
	125	22,23	7/1,6	701846 26826	5450248 353324
	180	25,4/22,23	7/1,7	701846 26828	5450248 353348
	200	30/25,4	7/1,7	701846 26829	5450248 353355
	230	22,23	7/1,8	701846 26830	5450248 353362
	230	25,4	7/1,8	701846 28734	5450248 396499



DIAMOND TOOLS FOR

ASPHALT & ABRASIVE MATERIALS

Discover our blades especially designed for cutting off : Asphalt, Asphalt over concrete, green concrete, bitumen, cement joints, breeze blocks, Lignacite blocks



EXTREME ASPHALT



LASER

FEATURES

- 15mm segment height*.
- Patented depth of cut indicator with stroboscope effect*.
- 8 high wear protection 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 centre 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.



* Only on blades for <20HP machines



Unique laser welded blade suitable for asphalt and abrasive materials. Due to its innovative design, the Extreme Asphalt blade 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.

For use on asphalt, asphalt over concrete, green concrete and abrasive building materials.

MACHINE	POWER	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
	< 20HP	350	25,4	15/3,2	701846 94537	5450248 689393
	< 20HP	400	25,4	15/3,2	701846 94911	5450248 695615

Formerly Duo Asphalt+








PRO ASPHALT



LASER

- Very good value for money laser welded blade for intensive use and long life.
- Featuring patented depth indicator for blade life monitoring and indication of cutting direction (up to diameter 450mm).
- Undercutting protection on the steel centre thanks to slanted segments.
- For use on asphalt, asphalt over concrete, green concrete and abrasive building materials.

MACHINES	POWER	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
  	< 20HP	350	25,4	10/3,2	701846 23186	5450248 235019
  	< 20HP	400	25,4	10/3,2	701846 28159	5450248 391531

Formerly Super Asphalt Evo







CLASSIC ASPHALT



LASER

- Good value for money laser welded blade for dry or wet cutting.
- For use on asphalt, asphalt over concrete, green concrete, abrasive materials and concrete roof tiles.

MACHINES	POWER	Ø (mm)	BORE (mm)	SEGMENT H/W (mm)	ITEM No.	EAN 13 Code
 	< 20HP	350	25,4	10/2,8	701846 26879	545024 8353744
 	< 20HP	400	25,4	10/3,2	701846 26880	545024 8353751

500-600mm with undercutting protection segments

Formerly Classic Asphalt



DRILLING CORE BITS FOR CONCRETE

Discover our core bits especially designed for drilling : 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.





CORE BITS FOR CONCRETE

PRO CB BETON



*LASER

- **Useful length:** 450mm.
- **Connection:** 1 1/4" UNC female thread.
- **Applications:** concrete and reinforced concrete, masonry blocks. Also suitable for asphalt & abrasive materials.
- Core drills with laser welded segments for wet drilling. The special tapered-shape segments allow for an easier start of the drill.

OD / ID* (mm)	SEGMENT L / W / H (mm)	No. SEGMENTS	ITEM No.	EAN 13 Code
52/45	24/3,5/10	4	701846 24870	5450248 239123
62/55	24/3,5/10	5	701846 24872	5450248 239154
67/60	24/3,5/10	5	701846 24873	5450248 239161
77/70	24/3,5/10	6	701846 24875	5450248 239185
82/75	24/3,5/10	6	701846 24876	5450248 239192
87/80	24/3,5/10	6	701846 24878**	5450248 239215
92/85	24/3,5/10	7	701846 24879	5450248 239222
102/95	24/3,5/10	8	701846 24880	5450248 239239
112/105	24/3,5/10	8	701846 24882	5450248 239253
122/114	24/4,0/10	9	701846 24883	5450248 239277
127/119	24/4,0/10	9	701846 24884	5450248 239284
132/124	24/4,0/10	9	701846 24885	5450248 239291
152/144	24/4,0/10	11	701846 24887	5450248 239314
162/154	24/4,0/10	11	701846 24888	5450248 239321
202/194	24/4,0/10	14	701846 24892	5450248 239369

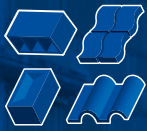
* OD / ID: Outer Diameter / Inner Diameter. ** Available on request.



DRILLING CORE BITS FOR UNIVERSAL BUILDING MATERIALS

Core bits especially designed for drilling masonry and light building materials on hand held machines. Ideal for plumbers and electricians.





CORE BITS FOR UNIVERSAL BUILDING MATERIALS

PRO CB UNIVERSAL



- **Useful length:** ????
- **Connection:** ????
- For wet drilling holes in reinforced concrete and masonry materials.
- 10mm segmented height for longer life.
- Continuous ring of diamond for smooth, clean holes.
- Roof top segment design for easy start centreing.
- High quality for professional use.

DIA (mm)	No. SEGMENTS	SEG HEIGHT (mm)	ITEM No.	EAN 13 Code
16			701846 93087	9310357 267041
18			701846 93088	9310357 267058
20			701846 93089	9310357 267065
22			701846 93090	9310357 267072
24			701846 93091	9310357 267089
28			701846 93093	9310357 267102
30			701846 93094	9310357 267119
32			701846 93095	9310357 267126
36			701846 93096	9310357 267133



CLASSIC CB UNIVERSAL



- **Useful length:** 150mm (300mm for diam 28mm).
- **Connection:** 1/2" BSP Female.
- Conical connection shape to improve the mounting of the corebit.
- Reduced vibration, increased safety and better comfort.
- Easier core extraction.
- Optimised for the best balance between drilling speed, product life and comfort.

DIA (mm)	No. SEGMENTS	SEG HEIGHT (mm)	ITEM No.	EAN 13 Code
22			701846 20868	9310357 365013
28			701846 20351	9310357 365099
38	3	7	701846 20352	5450248 299592
52	3	7	701846 20353	5450248 299608
65	3	7	701846 40268	5450248 456193
78			701846 20354	9310357 365419
107			701846 20355	9310357 365495
117	6	7	701846 20356	5450248 230373
127	7	7	701846 20357	5450248 230380
152			701846 20358	9310357 365730



Formerly Arid 5

DRILLING CORE BITS


DRY DIAMOND CORE DRILLS ARE USED TO CREATE HOLES QUICKLY AND NEATLY IN BRICK AND BLOCK, USUALLY TO ALLOW PIPEWORK THROUGH WALLS



CLASSIC CB UNIVERSAL PLUMBER KIT



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 1/2" 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 147).

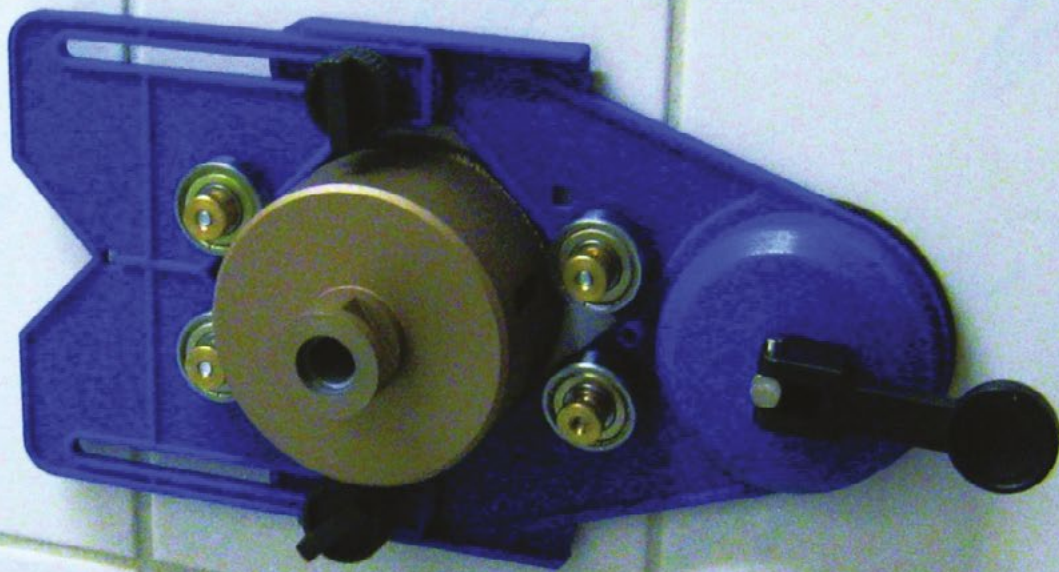
MACHINES	DESCRIPTION	ITEM No.	EAN 13 Code
	CLASSIC CB UNIVERSAL DRY DIAMOND CORE 5-SET Containing : 38mm, 52mm, 65mm, 117mm, 127mm Cores, 1 x Hex, 1 x SDS 1/2" Male Adaptor, 1 x Ejector Drift, 1 x A Taper Masonry Drill, 1 x 200mm Extension 1/2" Male-Female, 1/2" -1/2" Male-Male adaptor.	701846 40014	5450248 453178

All above Dry Core Bits have 1/2" BSP female back end fitting.



DRILLING CORE BITS FOR NATURAL STONE & TILES

For granite, marble, natural stone, ceramic tiles and porcelain.





EXTREME VB



- **Connection:** M14 for fitting directly onto angle-grinders.

- Vacuum-brazed diamond drills designed for dry-drilling of hard ceramic tiles and natural stones.

OD* (mm)	ITEM No.	EAN 13 Code
6 x M14	701846 47338	5450248 558699
8 x M14	701846 47339	5450248 558705
10 x M14	701846 47340	5450248 558712
12 x M14	701846 47341	5450248 558729
20 x M14	701846 45760	5450248 534099
28 x M14	701846 45761	5450248 534105
35 x M14	701846 45762	5450248 534112
45 x M14	701846 45763	5450248 534129
50 x M14	701846 94357	5450248 685593
55 x M14	701846 46255	5450248 540472
68 x M14	701846 45764	5450248 534136
82 x M14	701846 45765	5450248 534143
102 x M14	701846 02119	5450248 721673
107 x M14	701846 02120	5450248 721680
132 x M14	701846 02121	5450248 721697
Suitcase pack containing dia. 20, 28, 35, 50, 68mm + mounting wrench	701846 94328	5450248 685029
Suitcase pack containing dia. 6/8/10/12/35/45/68 + centering device	701846 94419	5450248 687450
Suitcase pack containing dia. 20, 35, 40, 68mm + mounting wrench (only EN and DE languages)	701846 01112	5450248 699354

* OD: Outer Diameter



CLASSIC VB



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

- 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 and porcelain.

OD* (mm)	ITEM No.	EAN 13 Code
6	3103 05776	5450248 344896
8	3103 05777	5450248 344902
10	3103 05778	5450248 344919
12	3103 05780	5450248 344933
14	3103 05792	5450248 345077
28	3103 05793	5450248 345084
35	3103 05794	5450248 345091
45	3103 16728	5450248 350118
68	3103 16729	5450248 350125
82	3103 16730	5450248 350132
3-Pack 6/8/10	3103 01580	5450248 348498

* OD: Outer Diameter





ACCESSORIES

DESCRIPTION	ITEM No.	EAN 13 Code
Centering device for small diameters up to 28mm	3104 91177	5450248 716297
Centering device for large diameters	701846 45766	5450248 534167
M14-Hex adaptor	3104 64939	5450248 685708



ACCESSORIES



NORTON

SAINT-GOBAIN

clipper[®]

TILE SAWS



NORTON

SAINT-GOBAIN

clipper[®]

TILE SAWS

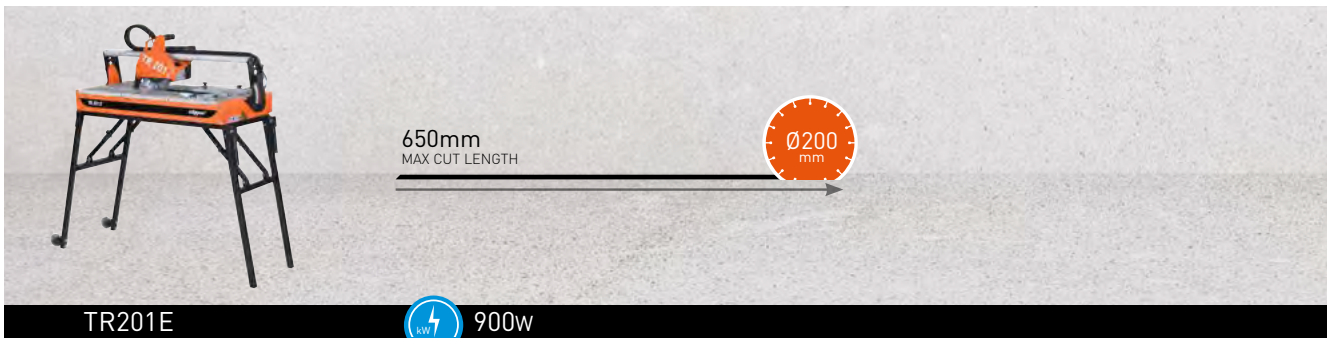
Discover the Norton Clipper tile saw range. These machines are designed for all kinds and sizes of ceramic tiles and will offer you the best results when combined with a Norton Clipper diamond blade.



TILE TABLE SAW



TILE RAIL SAW



TT180 BM

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.

BLADE INCLUDED

- Ø 180mm Classic Ceramic.



PRODUCT DATA

Item No.	701846 25699	Supply Voltage	230V 1~	Tilting table	0 - 45°
EAN 13 Code	5450248 371618	Power	550W (0,75 Hp)	Max. cutting depth at 90° / at 45°	12mm / 8mm
		Fuse/Generator	16A / 2 kVA	Max. cutting length	-
		Blade x bore	Ø 180 x 25,4mm	Table size	395 x 385mm
		Dimensions (LxWxH)	440 x 390 x 230mm	Tool speed RPM	2950 min ⁻¹
		Packaging size	480 x 460 x 240mm	Hand Arm Vibrations	< 2,5 m/s ²
		Weight	15kg	Sound power / pressure level	80 dB (A) / 72 dB (A)



550w



230v

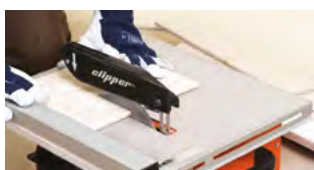
PRODUCT FEATURES



EASY TRANSPORTATION



REMOVABLE PLASTIC WATER TRAY



LIGHT & COMPACT



SUITCASE

DIAMOND BLADE WITH MACHINE FOR TT180 BM



Substrate / Material	CERAMIC
Recommended Product	CLASSIC CERAMIC
Blade x bore	180 x 25,4mm
Item No.	701846 26828
Page reference	33

TT200 EM

FEATURES

- 800W motor.
- Delivered in a strong plastic suitcase.
- Tilting table.
- Fast and precise locking cutting guide.

BENEFITS

- Powerful and professional machine.
- Machine protected for easy transportation and storage.
- Perfect for mitre cut from 0° to 45°.
- Quick set up and accurate cutting.

BLADE INCLUDED

- Ø 200mm Classic Ceramic.



PRODUCT DATA

Item No.	701846 25701	Supply Voltage	230V 1~	Tilting table	0 - 45°
EAN 13 Code	5450248 347361	Power	800W (1,1 Hp)	Max. cutting depth at 90° / at 45°	12mm / 8mm
		Fuse/Generator	16A / 2 kVA	Max. cutting length	-
		Blade x bore	Ø 200 x 25,4mm	Table size	460 x 360mm
		Dimensions (LxWxH)	510 x 400 x 230mm	Tool speed RPM	2950 min ⁻¹
		Packaging size	560 x 500 x 270mm	Hand Arm Vibrations	< 2,5 m/s ²
		Weight	19kg	Sound power / pressure level	80 dB (A) / 72 dB (A)



800w



230v

PRODUCT FEATURES



TRANSPORT HANDLE



TILTING TABLE (0° TO 45°)



LOCKING CUTTING GUIDE



SUITCASE

DIAMOND BLADE WITH MACHINE FOR TT200 EM



Substrate / Material	CERAMIC
Recommended Product	CLASSIC CERAMIC
Blade x bore	200 x 25,4mm
Item No.	701846 26829
Page reference	33

TR201E

FEATURES

- Heavy duty rail and cutting head guide.
- 900W motor.
- 650mm cutting length.
- Tilting head.
- Folding legs & transport wheels.
- Removable plastic water tray with drain plug.
- Robust metal frame.
- Fast and precise locking cutting guide.

BENEFITS

- Smoother guiding, easier maintenance, precise cutting.
- Powerful and professional machine.
- Ideal for long tiles and diagonal cuts of 40x40cm tiles.
- Perfect for mitre cut from 0° to 45°.
- Easy storage and transportation.
- Easy cleaning and draining.
- Rigidity and protection of the removable plastic water tray.
- Quick set up and accurate cutting.

BLADE INCLUDED

- Ø 200mm Extreme Ceramic Turbo.



PRODUCT DATA

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



900W



230v

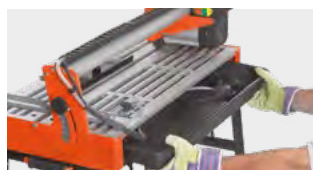
650mm⁺
MAX CUT LENGTH



PRODUCT FEATURES



TILTING HEAD (0 TO 45°)



REMOVABLE WATER TRAY



TRANSPORT WHEELS



CUTTING GUIDE

DIAMOND BLADE RECOMMENDATIONS FOR TR201E



Substrate / Material	CERAMIC
Recommended Product	EXTREME CERAMIC TURBO
Blade x bore	200 x 25,4mm
Item No.	701846 25427
Page reference	32

NORTON

SAINT-GOBAIN

clipper[®]

MASONRY SAWS

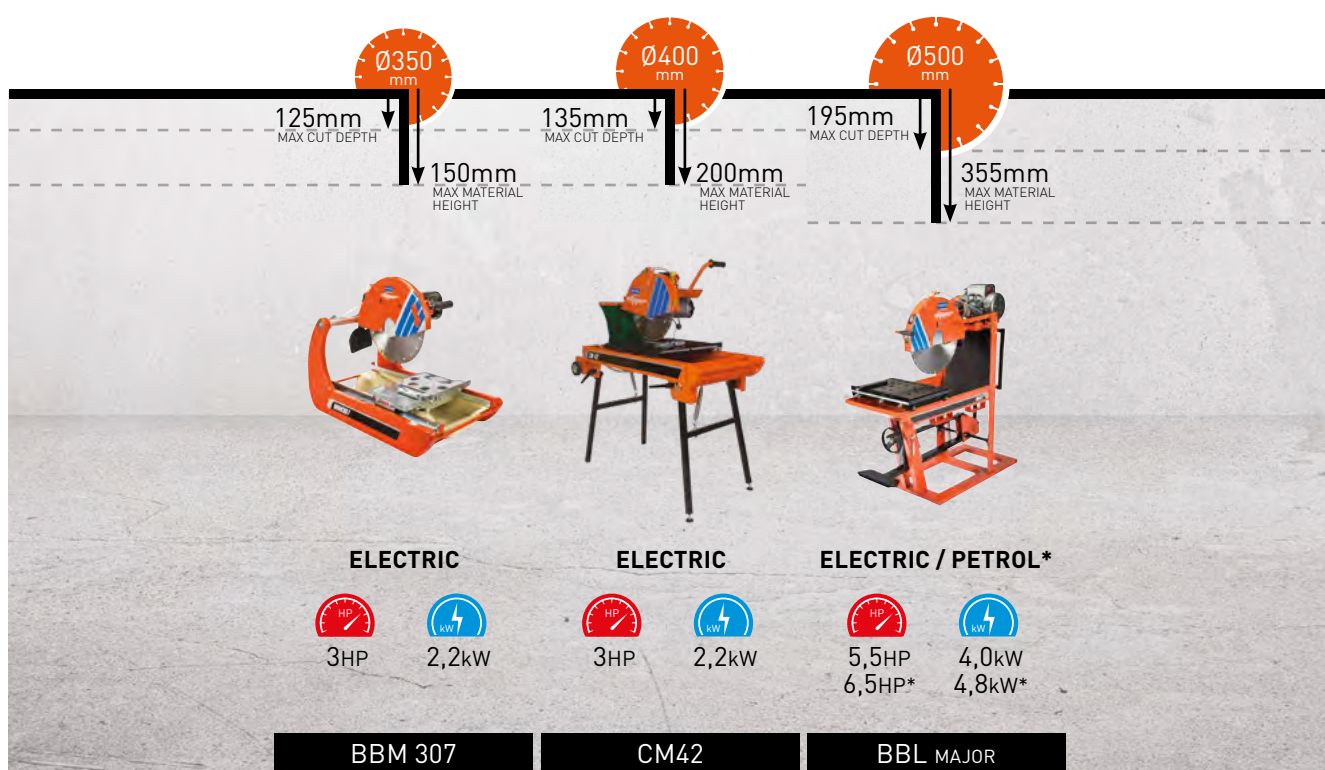


MASONRY SAWS

Inventors of the first masonry saw 80 years ago, Norton Clipper today offers a full range of machines with blade diameters of 350mm up to 1000mm, with electric motors or petrol engines for all construction and industrial work sites. Use with Norton Clipper diamond blades for optimum results.



MASONRY SAWS



BBM307



FEATURES

- Compact masonry saw that one person can carry.
- Rigid all-steel unibody construction.
- Ergonomic design for increased operator efficiency.
- Pivoting head with depth lock, open back design and a wide body.

BENEFITS

- Front & rear handles for easy transport and loading.
- The best weight to strength ratio in its class.
- Clear view of working area during operation.
- Easily accomodates materials 203 x 203 x 406mm.
- Channel flow pan directs dust and water away from operator and out the back of the saw

PRODUCT DATA

Item No.	701846 03136	Supply Voltage/ Power	230V 1~ / 2,2kW (3 Hp)	Tilting head	-
EAN 13 Code	TBA	Fuse/Generator	10A / ????	Max. cutting depth	125mm
		Blade x bore	Ø 355 x 25,4mm	Max. cutting length	265mm
		Tool speed RPM	3600 min ⁻¹	Max. material height	150mm
		Dimensions (LxWxH)	800 x 470 x 762mm	Table size	265 x 420mm
		Dimensions (folded legs)	NA	Hand Arm Vibrations	< TBA 2,5 m/s ²
		Weight	34kg		



3HP



2,2kW



230V

PRODUCT FEATURES



MAX CUT DEPTH



WET OR DRY CUTTING



ALL STEEL CONSTRUCTION



PIVOTING LOCKING HEAD



CLEAR VIEW CUTTING

DIAMOND BLADE RECOMMENDATIONS FOR BBM 307



Substrate / Material	BETON	SILENCIO	UNIVERSAL	ALL MATERIALS
Recommended Product	EXTREME BETON	EXTREME UNI SILENCIO	PRO UNIVERSAL	PRO 4X4 EXPLORER
Diameter x bore	350 x 25,4mm	350 x 25,4mm	350 x 25,4mm	350 x 25,4mm
Item No.	701846 47790	701846 28998	701846 22227	701846 02092
Page reference	16	17	22	29

CM42 COMPACT

FEATURES

- Wide conveyor cart, long reinforced frame.
- Ergonomic handle.
- Folding legs with repositionable 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.



CM42

Item No.	701846 93678
EAN 13 Code	93601357 281603
Supply Voltage/ Power	230V 1~ / 2,2kW (3 Hp)
Fuse Generator	16A / 6 kVA
Blade x bore	Ø 400 x 25,4mm
Tool speed RPM	2800 min ⁻¹
Tilting table	Optional
Max. cutting depth	135mm
Max. cutting length	780mm
Max. material height	200mm
Table size	500 x 540mm
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 (folded legs)	1187 x 620 x 740mm
Weight	90kg

PRODUCT FEATURES



MAX CUT DEPTH



FOLDING FEET



ADJUSTABLE CUTTING-DEPTH HANDLE



ANTI PIVOTING SYSTEM

DIAMOND BLADE RECOMMENDATIONS FOR CM42



Substrate / Material	BETON	SILENCIO	UNIVERSAL	ALL MATERIALS
Recommended Product	EXTREME BETON	EXTREME UNI SILENCIO	PRO UNIVERSAL	PRO 4X4 EXPLORER
Diameter x bore	400 x 25,4mm	400 x 25,4mm	400 x 25,4mm	400 x 25,4mm
Item No.	701846 93354	701846 40270	701846 25951	701846 02095
Page reference	16	17	22	29

BBL MAJOR

FEATURES

- Stay level blade guard
- Conveyor cart with non-slip rubber and tilt lock wheels.
- Water return channels.
- Fully protected blade support shaft.
- Crank controlled cutting depth adjustment and head locking device.

BENEFITS

- Accurate and stable cut.
- Dry and clean area improving users comfort.
- Users safety and bearings protection.
- Shock-free cutting, good pressure control for better cutting quality.
- Accurate cutting depth adjustment and straight through cutting.



Item No.	701846 93006	701846 83385	701846 83214	701846 41622
EAN 13 Code	9310357 264798	9310357 264170	9310357 281887	9310357 281894
Engine type	Electric	Electric	Petrol	Petrol
Supply Voltage/ Power	415V / 4kW (5,5 HP)	415V / 4kW (5,5 HP)	7,1kW (9,6 HP)	7,1kW (9,6 HP)
Blade x bore	Ø 350x25,4mm	Ø 500x25,4mm	Ø 350x25,4mm	Ø 600x25,4mm
Tool speed RPM	2800 min ⁻¹	2800 min ⁻¹	2800 min ⁻¹	2800 min ⁻¹
Max. cutting depth at 90° / 45°	125mm	195mm	125mm	195mm
Max. cutting length	500mm	500mm	500mm	500mm
Max. material height	355mm	355mm	355mm	355mm
Table size	550 x 420mm	550 x 420mm	550 x 420mm	550 x 420mm
Hand Arm Vibrations	< 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)	97dB(A) / 81dB(A)	97dB(A) / 81dB(A)
Dimensions (LxWxH)	1480 x 610 x 1550mm	1480 x 610 x 1550mm	1480 x 610 x 1700mm	1480 x 610 x 1550mm
Weight	190kg	190kg	190kg	190kg

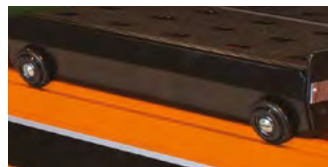
PRODUCT FEATURES



MAX CUT DEPTH - Ø350



CUTTING GUIDE



FRICION RESISTANT TILTED ROLLERS



MAX CUT DEPTH - Ø600

DIAMOND BLADE RECOMMENDATIONS FOR BBL350/500



Substrate / Material	BETON	SILENCIO	UNIVERSAL	ALL MATERIALS
Recommended Product	EXTREME BETON	EXTREME UNI SILENCIO	PRO UNIVERSAL	PRO 4X4 EXPLORER
Bore	25,4mm	25,4mm	25,4mm	25,4mm
Ø350mm Item No.	701846 93354	701846 28998	701846 22227	701846 02092
Ø500mm Item No.	-	-	-	701846 02097
Page reference	16	17	22	29

NORTON

SAINT-GOBAIN

clipper[®]

HANDHELD CUT-OFF SAWS



NORTON

SAINT-GOBAIN

clipper[®]

HANDHELD CUT-OFF SAWS

The Norton Clipper cut-off saws are available for 300 and 350mm blades, with standard or automatic oil & fuel mixing system (iLube). Use with Norton Clipper diamond blades for best results.



CP514 RANGE



125mm
MAX CUT DEPTH



PETROL WITH iLUBE[®]

5,4HP

4kW

CP514 350 iLUBE[®]

POWERFUL
4kW
5,4HP
 Power in a compact design

CP514 iLUBE



USER-FRIENDLY

- Electronic carburetor 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 & LOW MAINTENANCE

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

CP514 350 iLUBE®

Item No.	701846 47564
EAN 13 Code	5450248 563136
Power	4,0kW / 5,4HP
Max. blade x bore	Ø 350 x 20 / 25,4mm
Max. cutting depth	125mm
Rotation speed (RPM)	4450 min ⁻¹
Petrol + oil	> 92 RON + iLube® Automatic Mix
Water cooling	✓
Sound power / pressure level	108 dB (A) / 98 dB (A)
Dimensions	430 x 267 x 775mm
Weight	10,5kg

The Norton Clipper handheld cut-off saw is covered by a 6 month commercial warranty, from the date of sale. Warranty conditions are detailed in the instruction manual.

DIAMOND BLADE FOR CP514 iLUBE®



Substrate / Material	BETON	SILENCIO	UNIVERSAL	ALL MATERIALS
Recommended Product	EXTREME BETON	EXTREME UNI SILENCIO	PRO UNIVERSAL LASER	PRO 4X4 EXPLORER
CP514 Blade x Bore	350 x 25,4mm	350 x 25,4mm	350 x 25,4mm	350 x 25,4mm
Item No.	701846 47790	701846 28998	701846 22227	701846 02092
Page reference	16	17	22	29

PRODUCT FEATURES



NO MORE PRE-MIXING OIL & FUEL* ON iLUBE MACHINES ONLY

Fill oil and fuel tanks separately. The internal oil pump and sensor mixes the liquids perfectly for enhanced longevity. Save fuel costs through buying fuel and oil separately instead of expensive pre-mix.

Fill the 2 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, forgetting oil, or piston clogging through a mix which is too rich.

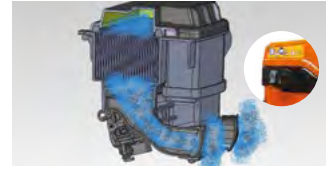
* Available on CP514i



3-STEP EASY START – HOT OR COLD

The electronic carburetor's electromagnetic valve eliminates the standard choke and half throttle start. Simply turn the saw on, and:

1. Push the primer three times
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 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.



NORTON

SAINT-GOBAIN

clipper[®]

DRILL MOTORS



NORTON

SAINT-GOBAIN

clipper[®]

DRILL MOTORS

The Norton Clipper drilling range is made of powerful and ergonomic handheld and rig mounted drill motors for drilling up to diameters of 400mm. Use with Norton Clipper core bits for optimal results.



HANDHELD

MINIMUM & MAXIMUM CORE DIAMETER	MINIMUM & MAXIMUM CORE DIAMETER
Ø15mm -160mm	Ø15mm -200mm
	
8,1kg	8,5kg
1800w	2000w
CDM 163	CDM 203

CDM 163

- Powerful 1,8kW, 3 speed handheld drill motor with combined spindle $\frac{1}{2}$ " + $1\frac{1}{4}$ ".
- Can be used on 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.



PRODUCT DATA

Item No.	701846 47807
EAN 13 Code	5450248 571568
Power W	1800
Volts	230V1~
Ø Range (mm)	15-160
RPM *	540/1200/2280
Dry	Yes**
Wet	Yes
Connection	$\frac{1}{2}$ + $1\frac{1}{4}$
Weight	8,1kg

* RPM under load

** See our dust swivel on page 72

FEATURES

- Powerful 1800W 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 $1\frac{1}{4}$ " and $\frac{1}{2}$ " corebits.
- Easy torque-control and comfortable to use.
- 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 & mechanical parts for longer life.
- Easy and safe transportation.

PRODUCT FEATURES



COMBINED SPINDLE.



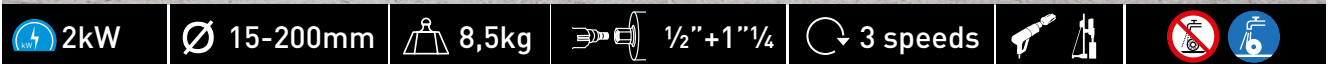
3-SPEED GEARBOX.



DIFFERENTIAL SWITCH
230 V 16 A - 10 mA

CDM 203

- Powerful 2kW, 3 speed handheld drill motor with combined spindle ½" + 1"¼.
- Can be used on 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.



PRODUCT DATA

Item No.	701846 47808
EAN 13 Code	5450248 571575
Power W	2000
Volts	230V1~
Ø Range (mm)	15-200
RPM *	240/1200/2900
Dry	Yes
Wet	Yes
Connection	½ + 1"¼
Weight	8,5kg

* RPM under load

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 to use.
- 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 & mechanical parts for longer life.
- Easy and safe transportation.

PRODUCT FEATURES



COMBINED SPINDLE.



3-SPEED GEARBOX.



DUAL WATER-INLET AND DUST-COLLECTOR CONNECTOR



DIFFERENTIAL SWITCH
230 V 16 A - 10 mA

ACCESSORIES



ADAPTORS

ACCESSORIES	ITEM No.	EAN 13 Code
1 - 1 1/4" UNC Female x R 1/2" Fem	3100 04570	5450248 090823
2 - 1 1/4" UNC Male x R 1/2" Male	3100 04558	5450248 089537
3 - 1 1/4" UNC Male x Hilti DDBU	3100 06712	5450248 180968
4 - R 1/2" Fem x Hilti DDBI	3100 07181	5450248 202264
5 - R 1/2" Male x R 1/2" Male	3100 12389	5450248 238768
6 - SDS Male x R 1/2" Male	3100 12391	5450248 238782
7 - 3 holes flange x 1 1/4" UNC Fem	3100 04594	5450248 094111
8 - 3 holes flange x 1 1/4" UNC Male	3100 04595	5450248 094128

EXTENSIONS

ACCESSORIES	LENGTH	ITEM No.	EAN 13 Code
9 - 1 1/4" UNC Fem x 1 1/4" UNC Male	100mm	3100 04577	5450248 092001
9 - 1 1/4" UNC Fem x 1 1/4" UNC Male	200mm	3100 04571	5450248 090939
9 - 1 1/4" UNC Fem x 1 1/4" UNC Male	300mm	3100 04574	5450248 091196
9 - 1 1/4" UNC Fem x 1 1/4" UNC Male	500mm	3100 04575	5450248 091202
9 - R 1/2" Fem x R 1/2" Male	100mm	3100 04610*	5450248 095262
10 - R 1/2" Fem x R 1/2" Male	200mm	3100 04578	5450248 092018
10 - R 1/2" Fem x R 1/2" Male	300mm	3100 04572	5450248 090946
10 - R 1/2" Fem x R 1/2" Male	500mm	3100 04576	5450248 091219

* Available on request.

ACCESSORIES



DRILL RIGS CONNECTORS

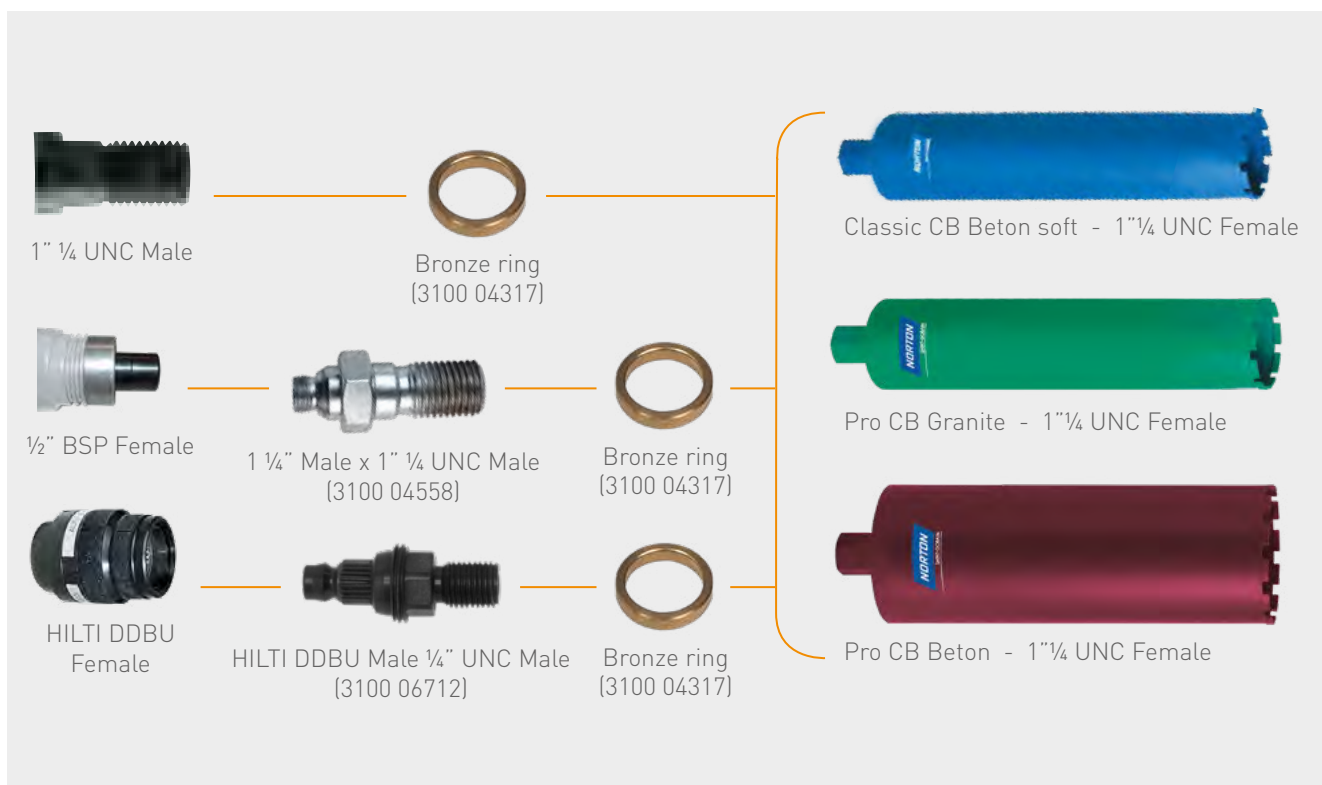
ACCESSORIES	ITEM No.	EAN 13 Code
1 - Dust swivel 1/2" Male-Female	3103 89028	5450248 471806
2 - 150mm Extension	3100 11352	5450248 230410
3 - 250mm Extension	3100 11353	5450248 230427
4 - Hex Adaptor Pack	3100 11356	5450248 234876
5 - SDS Adaptor Pack	3100 11357	5450248 234883
6 - HEX Adaptor	3100 11349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

M16 DRILLING

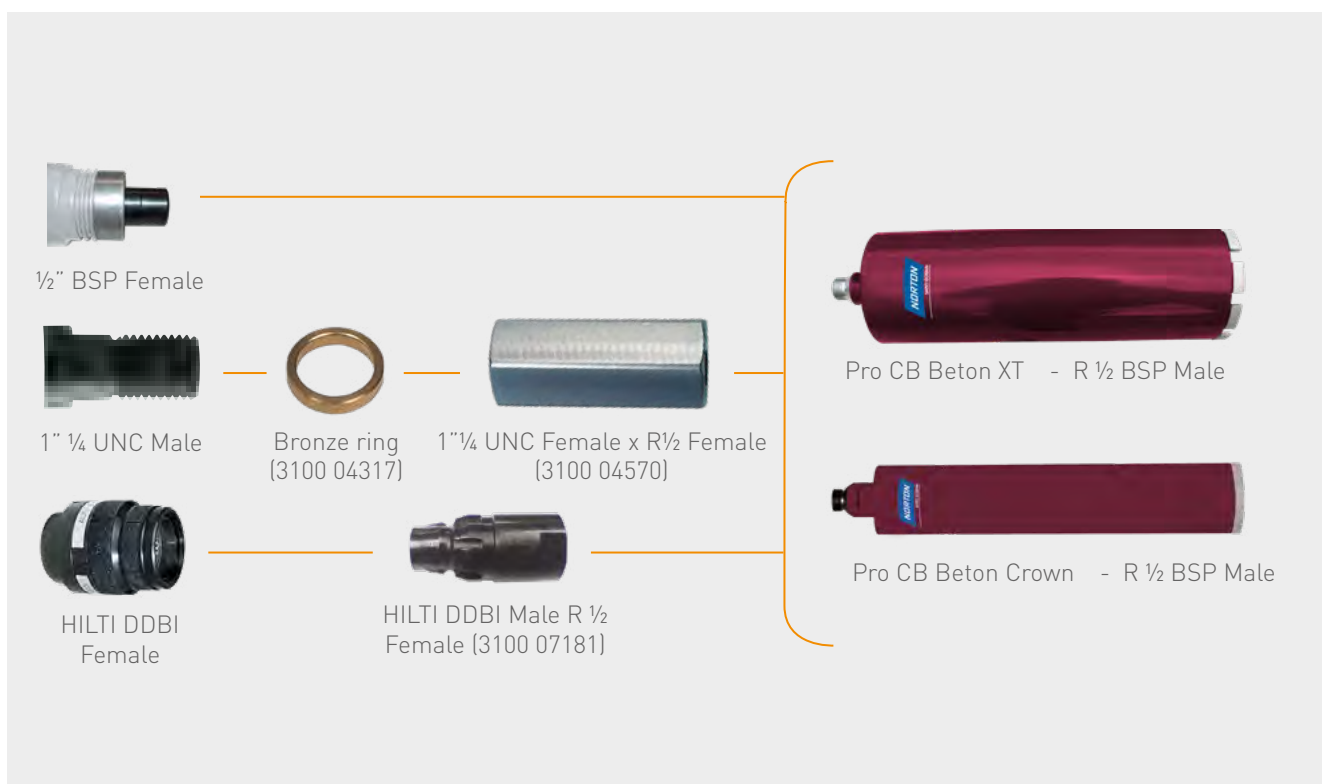
ACCESSORIES	ITEM No.	EAN 13 Code
9 - Pilot drill Ø6mm	3100 03973	5450248 049234
10 - Connector-Hex M16 for tapered pilot drill Ø6mm	3100 03974	5450248 049241
11 - M16 Male x R1/2" Male	3100 06030	5450248 149897
12 - Connector SDS M16 for tapered pilot drill Ø6mm	3100 05899	5450248 149880
13 - SDS connector with screw M16 for Ø6mm drill	3100 05898	5450248 149873

CONNECTIONS

WET HANDHELD DRILLING WITH COREBIT 1" 1/4 UNC FEMALE

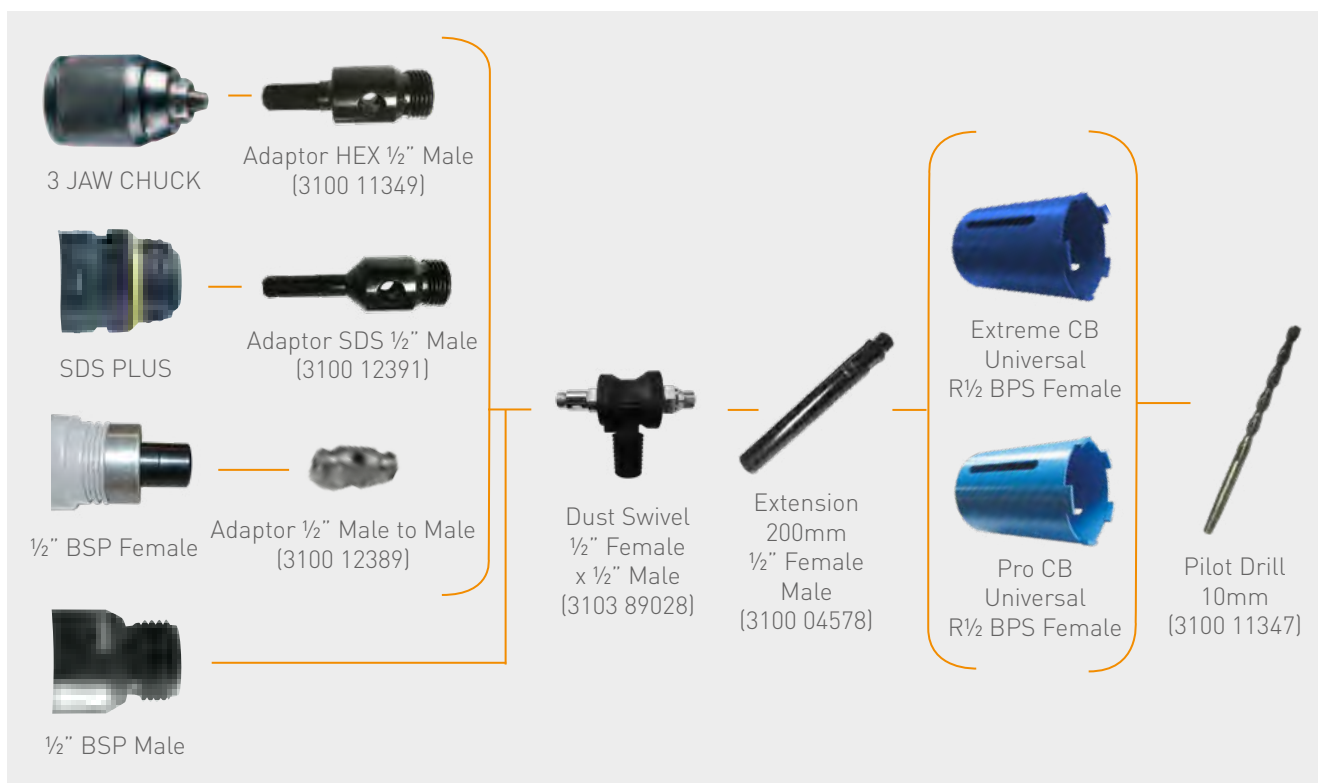


WET HANDHELD DRILLING WITH COREBIT R 1/2 BSP MALE

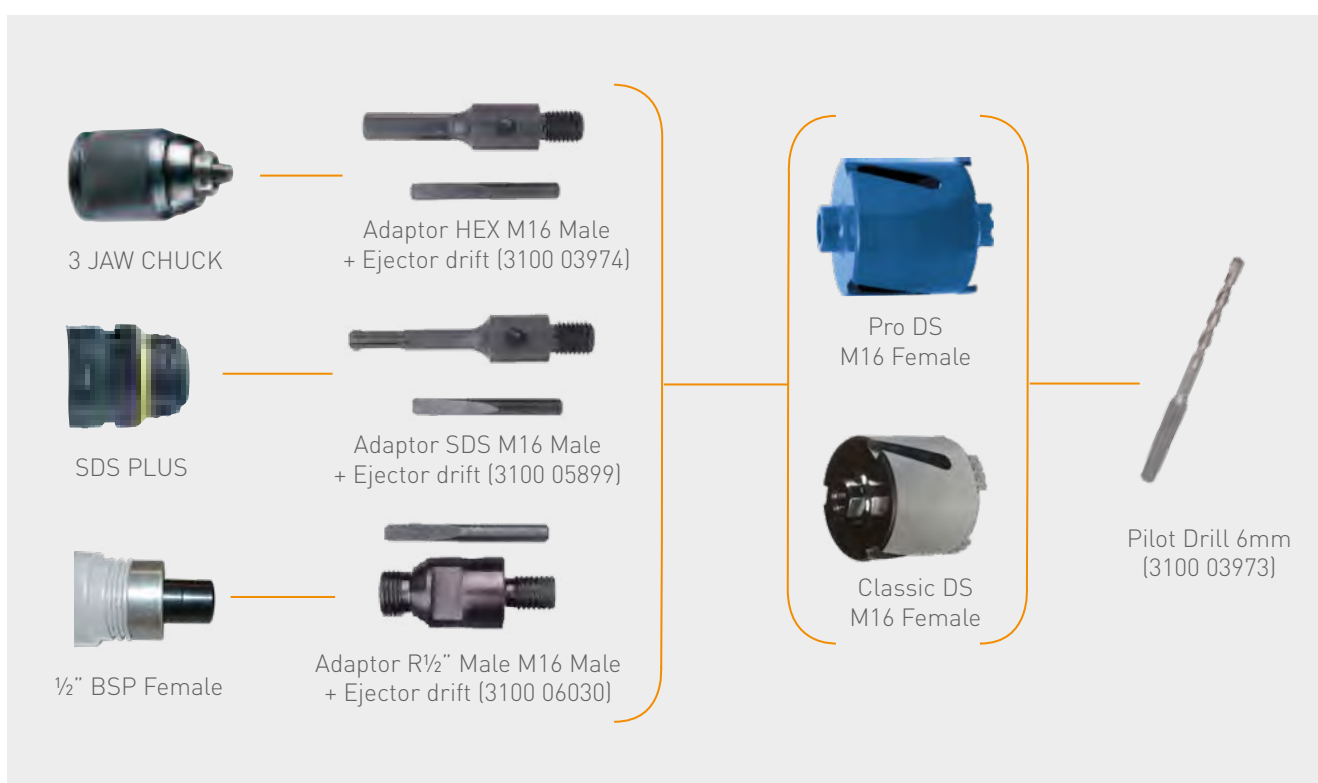


CONNECTIONS

DRY HANDHELD DRILLING WITH COREBIT R $\frac{1}{4}$ BSP FEMALE



DRY HANDHELD DRILLING M16 FEMALE



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GRINDING MACHINES



CG252

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 can be opened to grind edges of walls. With a weight of only 60kg, it is easier to operate during grinding operations, and less tiring for the operator. The foldable arm make it easy to transport.

CG252 can be combined with a dust extractor (CV324 or CV360) or used for wet grinding thanks to a water connection.



PRODUCT DATA

Item No.	701846 93768	Power kW / Supply Voltage	2,2kW (3Hp) / 230V 1-	Vacuum connector	45mm
EAN 13 Code	9310357 281948	Fuse / Generator	16A / 6 kVA	Hand Arm Vibrations	< 2,5 m/s ²
		Working width	250mm	Dimensions (LxWxH)	1180 x 520 x 1150mm
		Tool speed RPM	1410 min ⁻¹	Weight	60kg



3HP



2,2kW



230V

FEATURES

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

PRODUCT FEATURES



THE GRINDING HEAD CAN BE ORIENTED AT 90° & THE FRONT OF THE GUARD REMOVED.

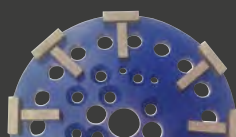


FOLDABLE ARM FOR TRANSPORT

BENEFITS

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

GRINDING HEAD RECOMMENDATIONS



Grinding Head Colour	BLUE
Substrate / Material	BETON
Diameter (mm)	250mm
Floor Type	SOFT
Item No.	701846 93039
Page reference	75

CLEANING/SCARIFYING

WITH TUNGSTEN CARBIDE MULTI-FLAILE GRINDER HEAD

8 SEGMENT GRINDING PLATE

- This universal grinding plate is designed for heavy, in-depth grinding.
- 8 segments fitted on a Universal hole pattern 250mm plate.

DESCRIPTION	NAME	SEGMENTS QTY X W / H / L (mm)	ITEM No.	EAN 13 Code
Hard bond segments for soft floors	SOFT - Blue	8x 10/10/45	701846 93040	5310357 267325



16 SEGMENT GRINDING PLATE

- This universal grinding plate is designed for heavy, in-depth grinding.
- 16 segments fitted on a Universal hole pattern 250mm plate.

DESCRIPTION	NAME	SEGMENTS QTY X W / H / L (mm)	ITEM No.	EAN 13 Code
Hard bond segments for soft floors	SOFT - Blue	16x 10/10/45	701846 93039	5310357 267232

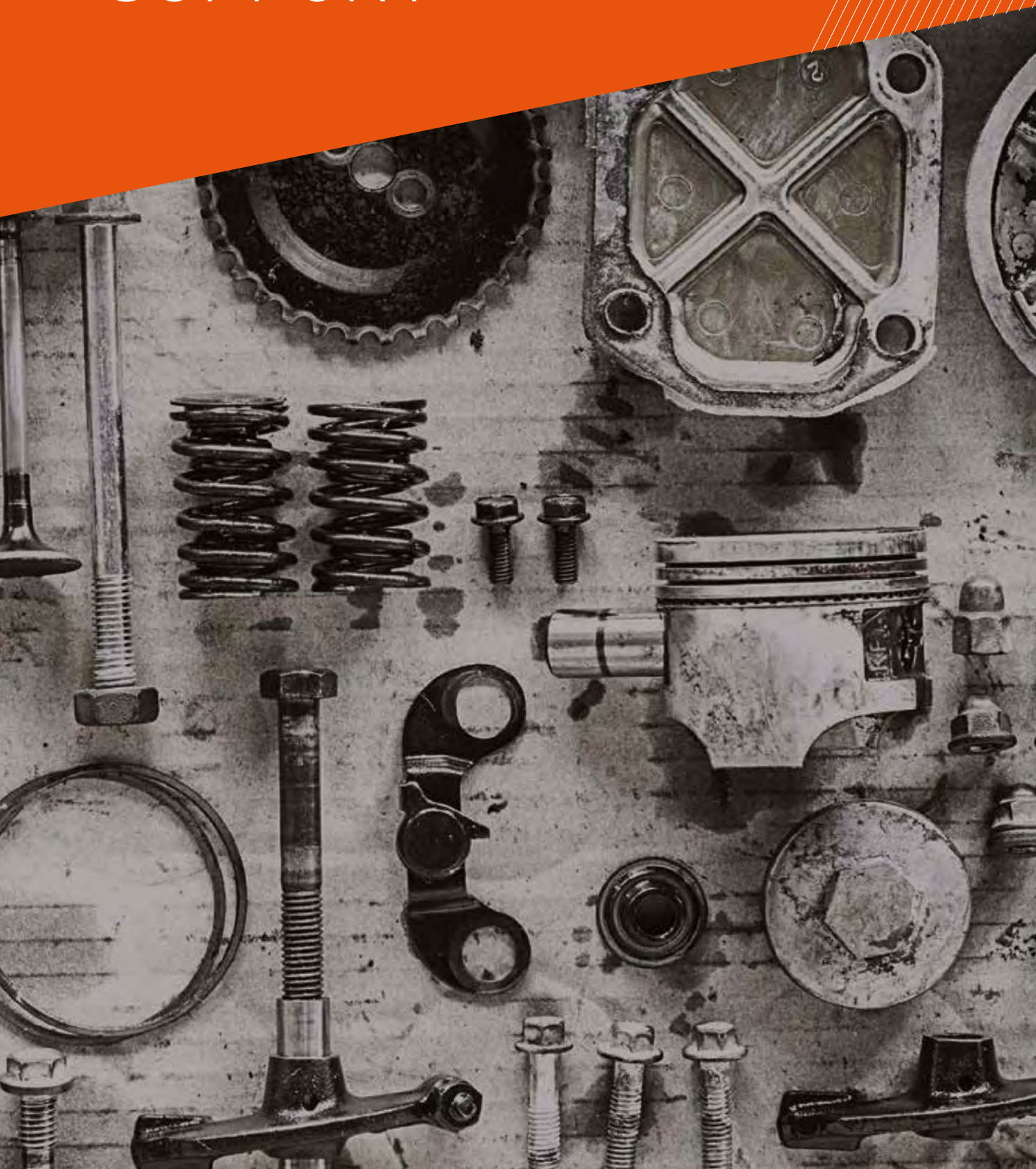


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TECHNICAL SUPPORT



TROUBLE SHOOTING 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 may be 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.
<ol style="list-style-type: none"> 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 the 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 therecommended 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.

TROUBLE SHOOTING DIAMOND PRODUCTS

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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TECHNICAL SUPPORT: PRODUCT ADVICE

THE DIFFERENT SEGMENT SHAPES



SEGMENTED

The gullets (space between the segments) help to extract cutting dust and cool the blade. They also offer the blade a little flexibility to prevent cracks developing when used in demanding conditions. Ideal for concrete, reinforced concrete, asphalt and all building materials.



FLAT CONTINUOUS RIM

Continuous rim blades are required for a good quality finish. The flat continuous surface means there are no shocks against the material that could create chips in the workpiece. This type of blade is particularly suitable for tiles that need a perfect finish.



TURBO CORRUGATED CONTINUOUS RIM

When the material is extremely hard a more aggressive cut is needed, so a corrugated continuous rim is the best fit. This design gives small shocks to the workpiece when tackling the hardest tiles and building materials. Suitable for ceramic and porcelain tiles, granite, roof tiles and other hard materials.

TILE SAW ADVICE

NEVER FORCE 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 use.
- Clean the water pump and the water tray right after 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

MASONRY SAW CUTTING METHODS

FULL DEPTH OR FIXED CUTTING

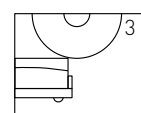
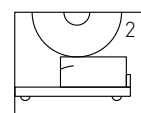
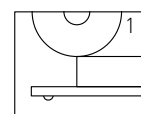
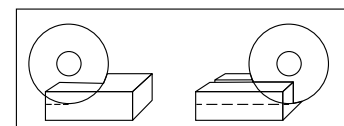
In full depth or fixed cutting, the cutting head is locked in a fixed position and the material is pushed into it as shown.

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 backwards and forwards under the rotating blade.

- Place the material to be cut on the conveyor cart firmly against the cutting guide and the backstop, keeping 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 stroke. 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.



Clipper's Tip

NOTE: The harder the material, the more rapid the forward and backward strokes should be. 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 SAW 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 the air-filter regularly 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 CUTTING 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 (\leq 450mm), 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 CUTTING METHODS

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

The initial cutting 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 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 & SAFETY PRECAUTIONS ENSURES SAFE, FASTER DRILLING SPEED AND LONGER BIT LIFE.



Clipper's Tip

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.

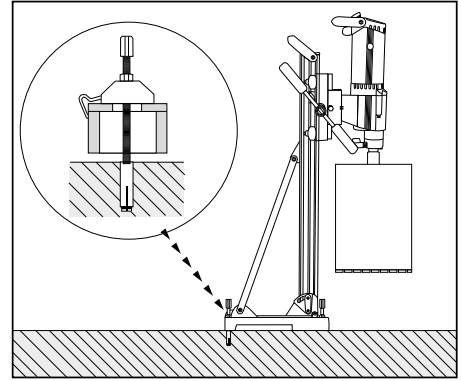
You can consult our product selection charts to choose the best tool for each of your requirements.

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.



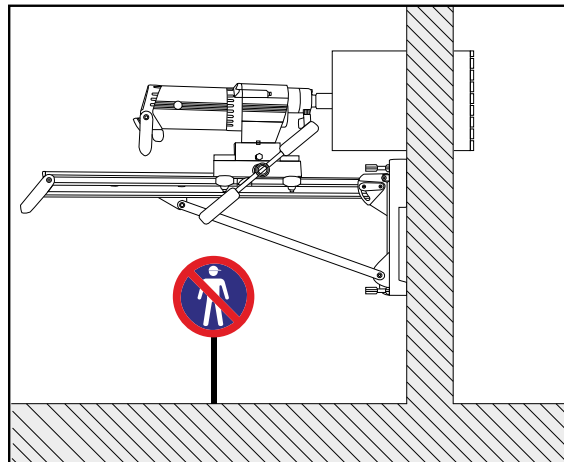
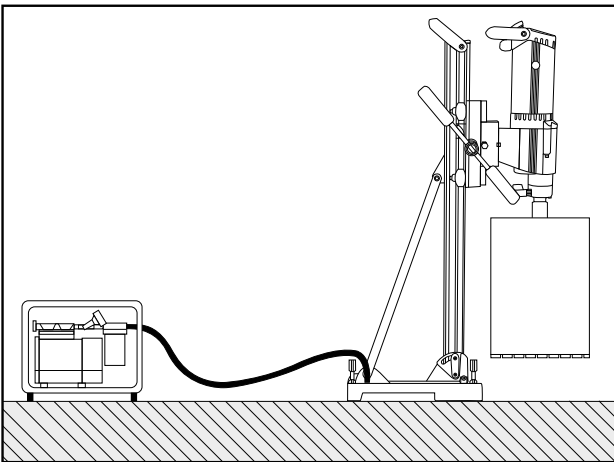
VACUUM FIXING



Clipper's Tip

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.



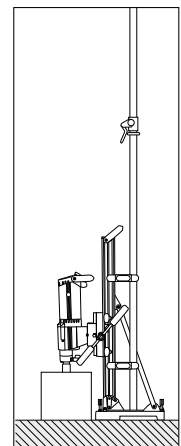
BRACE FIXING



Clipper's Tip

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

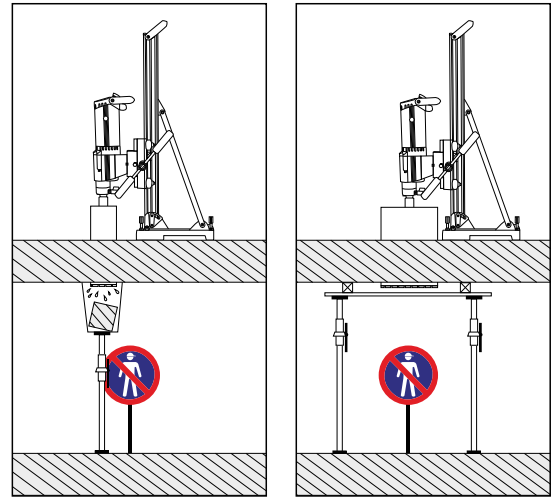
- Mount the drilling motor on the rig.
- Use a quick-release ring between the motor and core bit to prevent blockage after work.
- Set the proper rotation speed depending on the drilling diameter.
- Plug to water supply and set a sufficient supply of water to ensure that hole will be constantly flushed of abrasive slurrys.
- 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 core 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 onto the core bit whilst drilling. Do not force the core bit into the material.
- Do not stop the flow of water or the rotation of the core bit as long as the core bit is in the hole. If the drilling rate decreases noticeably, check the core bit. The slower penetration rate generally means that the core 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.

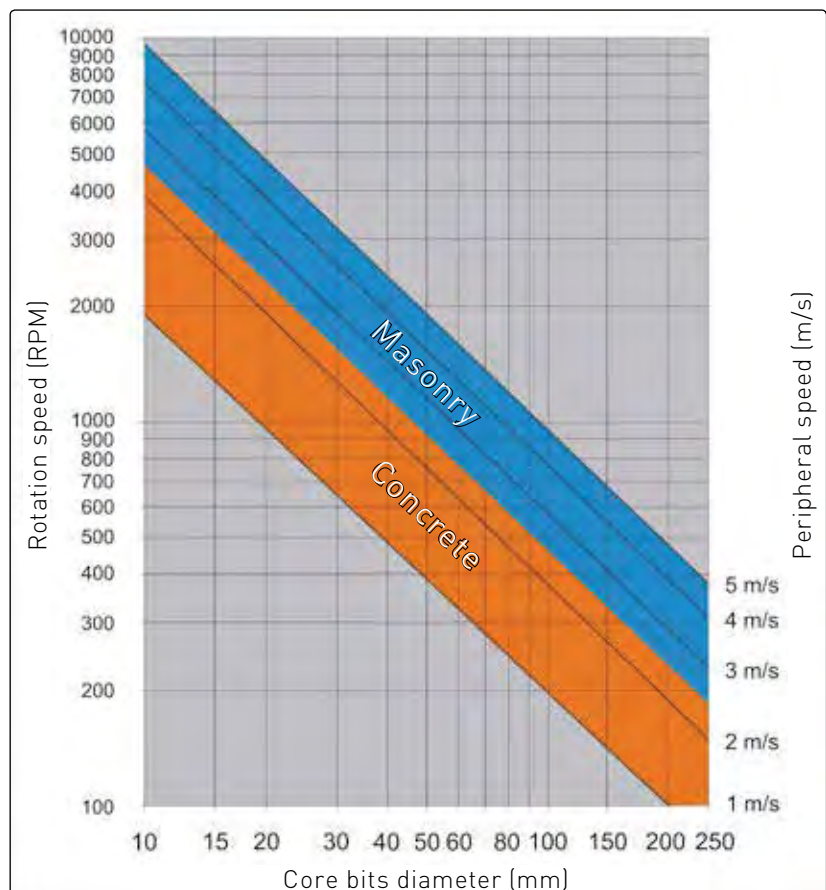
The core drill must be securely fastened to the intended work surface (wall, deck, etc.), using anchor bolts, vacuum pad or jack screw.

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



DIAMOND TOOLS SAFETY RECOMMENDATIONS

DIAMOND BLADE DO'S & DON'TS

	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

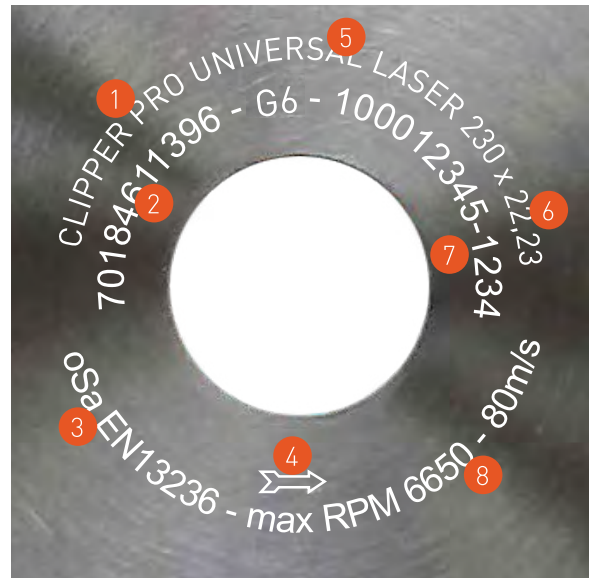
BLADE MARKING SYSTEMS

- 1 Product Name
- 2 Wet or Dry cutting
- 3 Laser Welding Logo
- 4 European Standards
- 5 Material Pictograms
- 6 Quality tier rating
- 7 Diameter and Bore (hole) size
- 8 EAN 13 Code
- 9 Machine Pictogram
- 10 Safety and Restrictions of Use



BLADE MARKING SYSTEMS

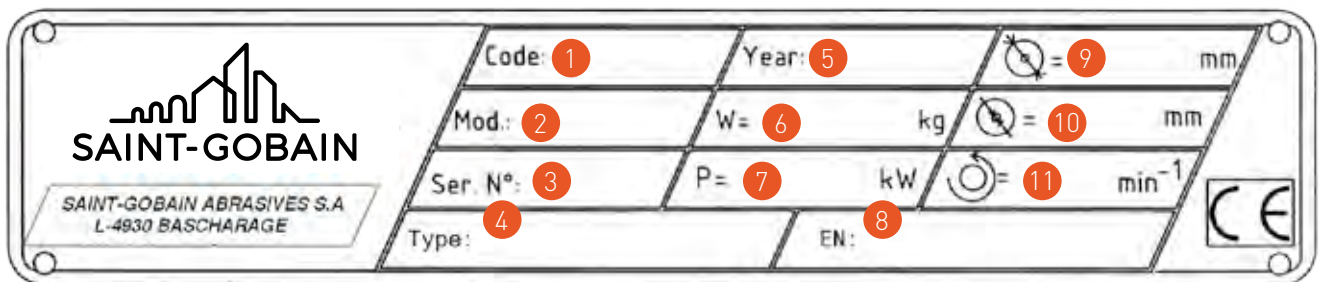
- 1 Manufacturer's Name
- 2 Article Number
- 3 Application Safety Standard
- 4 Direction of Rotation
- 5 Specification
- 6 Diameter and Bore
- 7 Manufacturer's production code required for traceability
- 8 Maximum operating speed in RPM and m/s



SAFETY & INFORMATION PICTOGRAMS :



MACHINE MARKING



- | | | |
|-----------------|----------------------|------------------------|
| 1 Machine Code | 5 Year of Production | 9 Blade Speed |
| 2 Machine Model | 6 Weight | 10 Bore Diameter |
| 3 Serial Number | 7 Power | 11 Max. Blade Diameter |
| 4 Machine Type | 8 Safety Standard | |



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RESHAPING YOUR WORLD WITH...

WORLDWIDE MARKET LEADERSHIP

WORLD CLASS PRODUCT INNOVATIONS

CUTTING EDGE TECHNOLOGIES

A COMPLETE RANGE OF STOCK PRODUCTS

THE WIDEST SPECTRUM OF PRODUCT QUALITY

MADE TO ORDER SOLUTIONS

DIAMOND BLADE RECOMMENDATION GUIDE

	Extreme Beton	Pro Beton	Classic Beton	Extreme Universal Laser	Pro Universal Laser	Classic Universal Laser	Classic Universal	Extreme Universal Turbo	Pro Universal Turbo	Classic Universal Turbo	Extreme Cut 'n' Grind	Pro Cut 'n' Grind	Pro Universal Ductile
QUALITY	◆◆◆◆◆	◆◆◆◆◆	◆◆◆	◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆	◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆
WET OR DRY	WET &DRY	WET &DRY	WET &DRY	WET &DRY	WET &DRY	WET &DRY	WET &DRY	WET &DRY	WET &DRY	WET &DRY	WET &DRY	WET &DRY	WET &DRY
MACHINES													
DIAMETER (mm)	115-1200	230-600	115-400	300-1000	115-1000	115-1000	115-350	115-350	115-350	115-230	100-125	100-125	115-350
TECHNOLOGY	i-HD™	LASER	LASER	LASER	LASER	LASER	SINTERED	SINTERED	SINTERED	SINTERED	i-HD™	SINTERED	VACUUM
REINFORCED CONCRETE													
Hard Concrete, Curbs & Gutters	●●	●●	●										
Reinforced Concrete, Concrete Lintels	●●	●	●										
UNIVERSAL													
Concrete Block [3,6 - 7,3N]	●●	●●	●	●●	●●	●	●	●●	●●	●	●●	●	●
Calcium Silicate Blocks	●●	●●	●	●●	●●	●	●	●●	●●	●	●●	●	●
Concrete Pavers	●●	●●	●	●●	●●	●	●	●●	●●	●	●●	●	●
Concrete with Gravels	●●	●●	●	●●	●●	●	●	●●	●●	●	●●	●	●
Clay Bricks/Ceramic Porous Blocks	●●	●●	●	●●	●●	●	●	●●	●●	●	●●	●	●
Clinker Bricks/Facing Tiles/Terracota	●●	●●	●	●●	●●	●	●	●●	●●	●	●●	●	●
Vitrified Clay Pipes	●●	●●	●	●●	●●	●	●	●●	●●	●	●●	●	●
ASPHALT / ABRASIVE MATERIALS													
Asphalt													
Asphalt over Concrete													
Green Concrete													
CERAMICS													
Porcelain Tiles													
Tiles / Gres													
NATURAL STONE													
Granite											●	●	●
Marble											●	●	
Sandstone											●	●	●
Limestone											●	●	●
OTHER MATERIALS													
Cast Iron													●
Fibreglass, PVC, Rubber													●

PERFORMANCE KEY

- **RECOMMENDED**
Ideally suited for this application
- **ACCEPTABLE**
Either the blade life or cutting speed could be affected

Extreme CG	Pro CG	Classic CG	Pro 4x4 Explorer	Extreme Asphalt	Pro Asphalt	Classic Asphalt	Extreme Green Concrete	Pro Green Concrete	Extreme Ceramic Turbo	Extreme Ceramic	Pro Ceramic	Classic Ceramic	Extreme Granite	Pro Granite Turbo	Pro Granite	Pro Marmo
◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆
WET & DRY	WET & DRY	WET & DRY	WET & DRY	WET & DRY	WET & DRY	WET & DRY	WET	WET	WET & DRY	WET	WET & DRY	WET & DRY	WET & DRY	WET & DRY	WET & DRY	WET & DRY
100-180	100-180	100-180	115-500	300-1000	300-600	300-600	300-350	300-350	115-300	200-350	115-350	115-350	230-350	115-400	300-600	50-350
i-HD™	i-HD™	i-HD™	LASER	i-HD™	LASER	LASER	LASER	LASER	SINTERED	SINTERED	SINTERED	SINTERED	i-HD™	LASER	LASER	E/PLATED
●●	●●	●	●													
●●	●	●	●													
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			●													

OUT OF
THIS WORLD
BREAKTHROUGH
IHD TECHNOLOGY



PREMIUM CUP GRINDERS

NORTON

SAINT-GOBAIN

clipper®

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