



Diamond blades

Diamond blades are used to process natural stone and composite materials, apart from granite. In particular, diamond blades are used on gang saws for cutting slabs from blocks; single blades, instead, are mainly used to square blocks and cut thicknesses.

A long-standing product, the diamond blade is the most well-known and appreciated of all Dellas tools. Thanks to their elevated precision and cutting quality, Dellas blades can be used without problems on all diamond gang saws for marble.

Correct mounting on the gang saw is fundamental for good performance and long blade life. For this purpose, specialised Dellas technicians help the customers during start-up and processing in order to assure maximum tool efficiency.

The long-standing experience of Dellas, matured all over the world, has allowed it to produce an extensive range of diamond segments capable of satisfying a wide variety of quality, lifetime and cutting requirements. As well as the variety of segments, products are available with cores of various sizes and specifications, depending on the type of gang saw and the type of material to cut.



Quality and good service
have always been Dellas'
primary objectives.



An example of leading-edge excellence in the stone cutting sector since 1973, in 40 years of activity, Dellas Spa, an Italian company, has reached a leading position in the international market of the production and sales of diamond tools for marble, granite and engineered stone.

Many products are available: diamond blades, discs and wire, tools for smoothing and polishing and for numerical control machines. This increasingly complete range can satisfy all the requirements of the sector, including quarrying, cutting, polishing and perfectly precise and detailed machining and finishing.

diamond tools

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The Human Touch



Dellas has many strengths:

- far-reaching experience matured in many years of work and collaboration with marble cutters, allowing the company to have an all-round knowledge of the sector;
- outstanding inclination for research and development which allows it to identify and analyse any kind of material in order to develop the most suitable tool for machining it;
- automated and innovative production processes assuring top quality high-performing products;
- a highly specialised technical team capable of promptly and professionally satisfying customer requirements;
- a capillary international presence with 30 sales and service centres: assembly centres, directly managed by its subsidiaries or dealers, providing prompt service and guaranteeing competitive costs at local level;
- an organisation which, though growing in size, has managed to remain dynamic, flexible and extremely competitive.



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Dellas manufactures:



Diamond wires



Diamond blades



Diamond discs



Calibrating and
polishing tools



Tools for numerical
control machines



Diamond discs

Diamond discs are used to cut and process all kinds of stone: marble, granite, engineered stone. Available in diameters ranging from 200 to 3,000 mm, with standard or silent cores, Dellas diamond discs assure quality and a perfect finish.

As every material requires a specific segment, Dellas uses a sophisticated research laboratory to correctly identify the stone to cut and select the most suitable mix for satisfying customer requirements.

Dellas supplies discs for a wide range of machineries, including:

- bridge cutting machines
- splitting-sawing machines
- heading machines
- single-disc block cutters
- multi-disc block cutters
- hand machines
- site cutters
- wall cutters.



Diamond wire

Diamond wire is the latest and most interesting innovation in the field of diamond cutting tools.

In constant growth, wire is used in quarrying, as well as in slabs cutting with single- or multi-wire machines, and in squaring and shaping natural stone (marble and granite).

The commitment and research of Dellas focus on developing tools capable of assuring an improved surface finish, the absence of vibrations, low noise and increased cutting precision and speed in order to achieve all/round cost/cutting (power, water and labour).

Dellas supplies:

- wire assembled with electro-plated beads
- wire assembled with sintered beads

to use in 5 main applications:

1. in quarries
2. on static machines for squaring or cutting thicknesses
3. on contour machines
4. on multi-wire machines
5. on machines for beton/concrete

On request, the company can recommend and produce, depending on customer requirements, in rubber, plastic or springs assembly, diamond wires, open or closed (endless or close with connections copper or steel).



Calibrating and polishing tools

Calibrating and polishing tools are used to process and finish the surfaces of natural and engineered stone.

The finishing process is divided into four steps which are performed in the following order:

- roughing: eliminates the surface imperfections deriving from the cutting process. Tools used: roughing rollers, roughing plates, fickerts.
- calibrating: prepares both the surface and shape of the material, thus respecting the tolerances required by the market. Tools used: finishing rollers, calibrator plates, satellite wheels.
- smoothing: eliminates roughing and calibrating marks and prepares the material for subsequent processing, such as polishing, brushing and satinising. Tools used: diamond fickerts, resin fickerts, diamond frankfurts, synthetic frankfurts, resin frankfurts, diamond brushes, steel brushes, carborundum brushes.
- polishing: gives the material colour and shine. Tools used: resin fickerts, synthetic frankfurts, resin frankfurts, polishers.

Thanks to its long/standing experience, Dellas can recommend a specific tool for each type of machine, material and finish.



Tools for numerical control machines

The tools for numerical control work centres and milling machines are used for precision machining, such as curves, holes, specific shapes and details. Dellas provides a complete range of tools:

- electrolytic tools for machining marble and stone – core drills, straight routers, stubbing wheels, routers, profile sets.
- sintered tools for granite, abrasive materials or coloured marble – core drills, drilling bits, straight routers, stubbing wheels, routers, profile sets.

The company does not simply supply the tools but also recommends solutions and operating parameters depending on the type of material and machine used. The Dellas technical department can design and manufacture tools to customer requirements.

