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HOGE RAAD VOOR DIAMANT - DIAMOND HIGH COUNCIL



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JANUARY 2000 N° 33

COMDIAM AND THE PRODUCTS FOR 2000

A new wind started blowing at the WTOCD, new products or product expansions are being released regularly. Herewith a summary of the current range of products at the start of the new millennium.



Super Bruter

The Super Bruter can execute virtually any bruting operation of round goods. Pre-bruting, bruting and girdling is possible for goods of 1 point to 10 carats of rough, both for sawables and for makeables (this machine can be used as a single head and the stone can be set in a pot). The bruting process yields a perfectly round girdle, while the final diameter can be chosen optimally.

The Super Bruter increases productivity. For one person can simultaneously operate 6 to 7 machines, the training period is short and the chance for damaging the stone is almost nil. Vibration-free, CE-approved, compact and equipped with individual dust vacuuming, have made this machine an indispensable instrument in the workplace.

Octopus

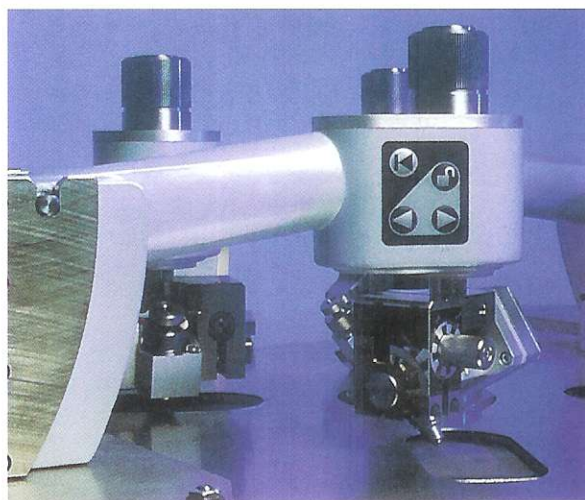
The Octopus is an automatic pre-polishing tang for symmetric round and square goods. It polishes off in a controlled manner the largest part – 75% - of the weight to be processed. Both the top and bottom part can be polished in a pre-chosen number of facets (from 1 to 16) at a pre-set angle. The Octopus comes with a grain-seeking system, with preference directions for 2 point, 3 point and 4 point, which during the entire process remains active and automatically carries out modifications as to polishing directions if necessary. The tang can be used for all round goods with a weight to be processed of up to 5 carats. There is no limitation as regards the nature of the goods to be polished. Both

sawables and makeables with or without naat can be polished through the Octopus. The built-in grain-seeking system provides a certain and optimal removal of material.

Benefits of the Octopus:

- a correct indexation of the facets, a perfect distribution of the facets
- a precise setting of angles, up to one tenth of a degree
- a precise setting and execution of the polishing depth
- a modular system – one can start with one tang and expand if needed

The Octopus family was recently expanded with a table tang. This table tang can hold the traditional table pots or stones set in a press pot for the upper part. A mark on the table of the stone can be perfectly made to correspond with the setting for the polishing depth in the setting device. In this way a perfect transfer of data is



possible between the marker and the table polisher. Further expansions of the family are planned for in the very near future.

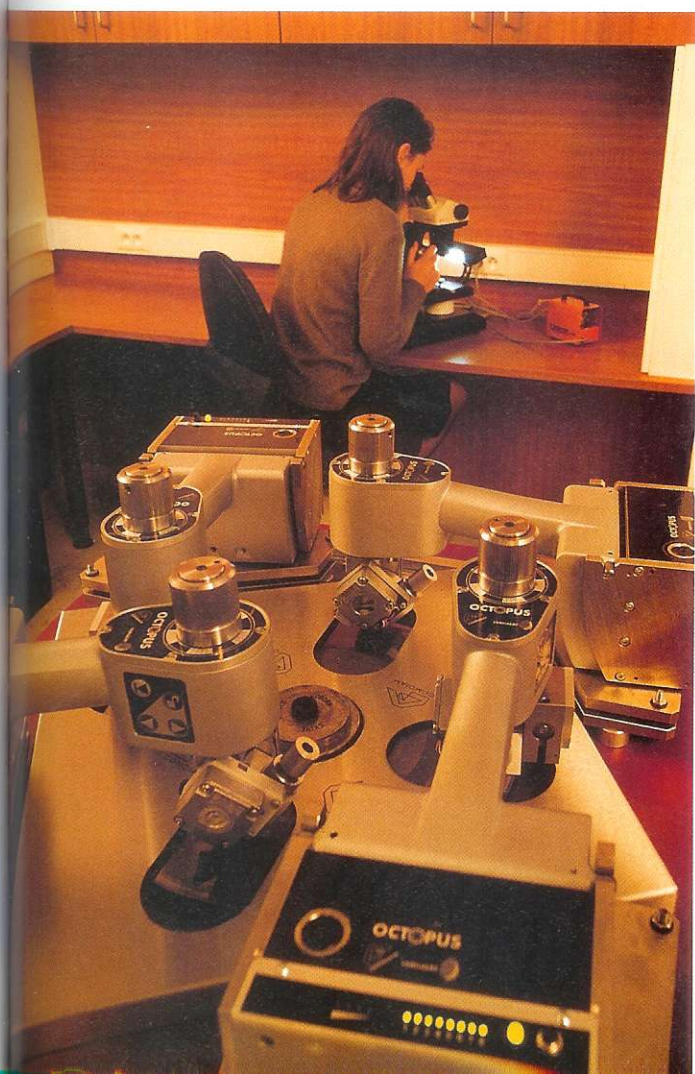
Solid

Solid is the expansion of the traditional 2D laser machine for diamond processing into a revolutionary 3D processing machine. With Solid a stone can be measured (Scanner), an optimal yield can be calculated (Optimiser), the processing can be simulated and then executed completely automatically in three dimensions

(Laser). All of this is integrated into one machine (Integrated Device). Solid works by adding a measuring and positioning device on a laser processing machine. Three axes (index, inclination and height) provide the necessary degrees when positioning. The index axis is also used to rotate the stone during the processing. The traditional X, Y and Z movements are maintained to translate during processing.

ADVANTAGES OF LASER PROCESSING:

- high speed
- independence of grain directions
- possibility of material recuperation
- adds the following very important trumps:
 - table polishing, bruting and/or blocking of each model
 - no time-consuming and unavoidably inaccurate manual setting necessary
 - marking of table, bezels, pavilions and/or girdle
 - simple adoption of existing marking
 - very precise through the use of 3D data
 - completely automated process



Bring your stone (from gem to boart) to the WTOCD-COMDIAM Workshop in Lier. We can laser it for you in a high-precision shape in the shortest time.

Merlin with Excalibur

Merlin is an evaluation device for rough stones with integrated marking function. Merlin is a device that carries out three functions. The first step involves the scanning of the external shape of the stone. Scanning takes only a few seconds and is completely automatic. In a second step the operator chooses one or several processing scenarios (brilliant or fancy) after which the computer continues and calculates the maximum yield of the various choices and presents them visually on screen. The operator chooses the most profitable solution from this list of results and then following the instructions of the programme very precisely draws the required marking with a marking pen. This marking can be the sawing line, the table line or the girdle line. The proportions of the polished models can be fixed, or the system can present the most optimal proportions within a certain quality.

The software programme Excalibur is also integrated into this machine so that the market data as regards colour and purity can also be taken into account.

All these devices and machines and a lot more can be admired and tested at the Comdiam Sales Office, located in the HRD building.

WE ARE EXPECTING YOU!

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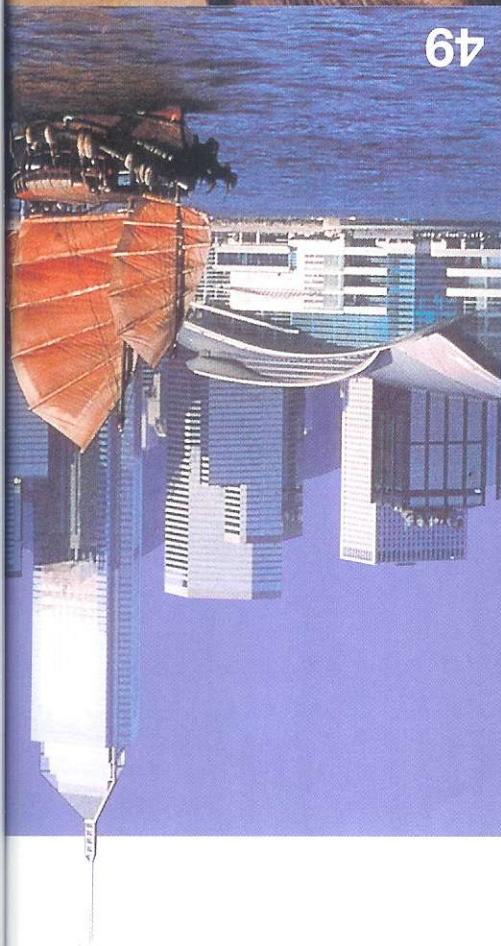


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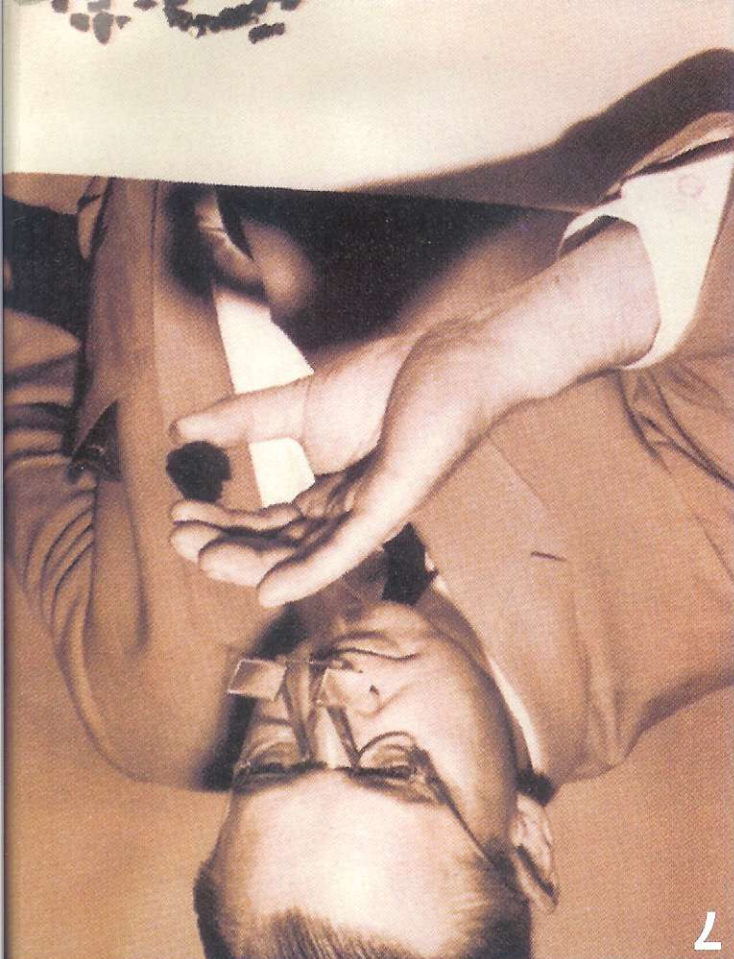
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