

Granulating in new dimensions

Ever since the launch of the first granulating machine in the early 1990s, Dr. Fritsch customers have come to know and appreciate the advantages of granulated diamond powder compared with ordinary metal powder. Depending on the fields of application and needed powder quantity, Dr. Fritsch offers three different granulating machines with similar working processes. These machines are meeting with big international approval.

However, each process can be improved and optimized. Due to the recent development of the Bead Cold Press BCP 100 which requires the filling of very small bead moulds, Dr. Fritsch set focus on an advanced granulating technology.

The result is the Granulating Machine GA 300. Its working process gives granulation new dimensions regarding quantity, shape and time.

A number of new technical details and improvements in engineering are offering a significantly higher output, a relief in work and consequently considerable time savings.



The dimension quantity:

First to mention is the high productivity of the machine. Depending on sieve size and powder, the machine achieves a granulation output of 30 kg/h and more. A corresponding powder hopper of 20 l and a drying belt adjusted in length and width allow an unattended operation.

The dimension shape:

Since the powder is no longer just pressed through the sieve but also spun in the conveyor worm the granules receive a new shape and size: the smaller grain size of up to 0.4 mm is especially important with very small and narrow moulds. The evenly round shape and the constant quality are improving the bulk density and consequently the flow characteristics of the granules. This, in turn, is advantageous in case that the granules are further processed in the vibration sieve. The evenly round shape of the granules also leads to a better distribution of diamond in the powder.

The dimension time

As already mentioned the physical characteristics of the granules can save a significant amount of time. If this advantage is combined with the engineering improvements of the GA 300, the time factor can be reduced even more:

- The casing of the granulating unit in the machine avoids powder deposits and makes cleaning easier
- A simplified disassembly of the conveyor worm reduces change-over times
- The reduction of potential wear parts to only one sieve saves money in spare part procurement

Another focus in development was set on a simplified handling without losing sight of security. So an integrated suction system of 850 m³/h included in the scope of supply is completing the efficiency and convenience of the GA 300.

Visitors of the **MARMOMACC** in Verona can get their own impression of the machine during a visit at the Dr. Fritsch booth E1-F1, hall 5