

NEWS FROM OKAMOTO EUROPE

Official Newsletter Okamoto Machine Tool Europe GmbH

October 2017

EMO Hannover 2017

The 2017 Hannover EMO saw record attendances. Official Figures for attendance this year:



> 2.200

exhibitors



8 billion Euros

deals worth



130.000

attendees came from abroad

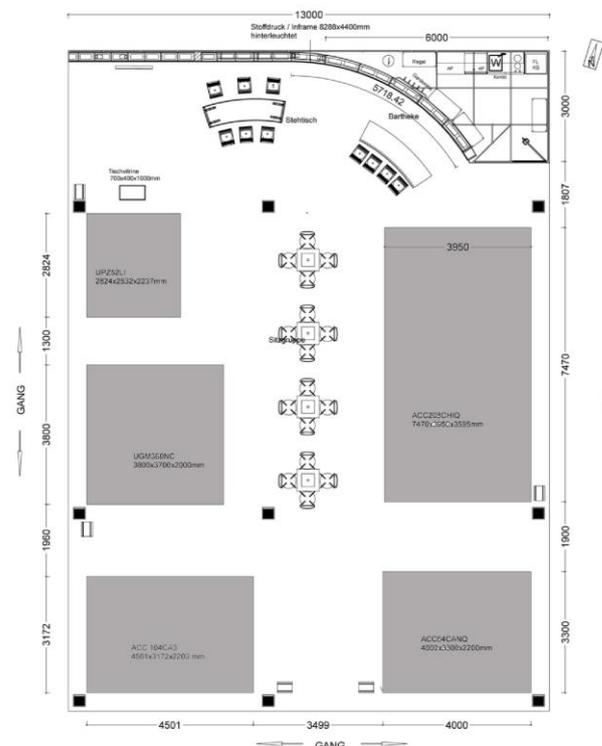


50 %

foreign visitors

Okamoto's participation at the 2017 EMO in Hannover proved to be our most successful yet. With an exhibition stand of over 220 square metres and 3 open sides, we were able to exhibit the latest and largest machines from our programme:

1. UGM360NC – universal cylindrical grinding machine with B axis. Dia.300x600
2. ACC104CA3 – Profile grinding machine with swing dresser. 800x400
3. ACC208CHiQ – Large size high accuracy surface grinder. 2000x1000
4. UPZ52Li – profile grinding machine with CCD inspection camera on board. 500 x 200
5. ACC84CAiQ - surface and profile grinding machine. 800 x 400



1. UGM-360NC

Following the successful introduction of the OGM Series III in 2011, we have now extended our cylindrical grinder range with the UGM-360NC and UGM-3100NC Precision Universal Cylindrical grinding machines with auto B-Axis.

With a maximum capacity of $\varnothing 300\text{mm}$ and either 600 or 1000mm between centres, these machines are offered with either 1 or 2 external spindles and an internal spindle mounted on a variable swivel B-axis

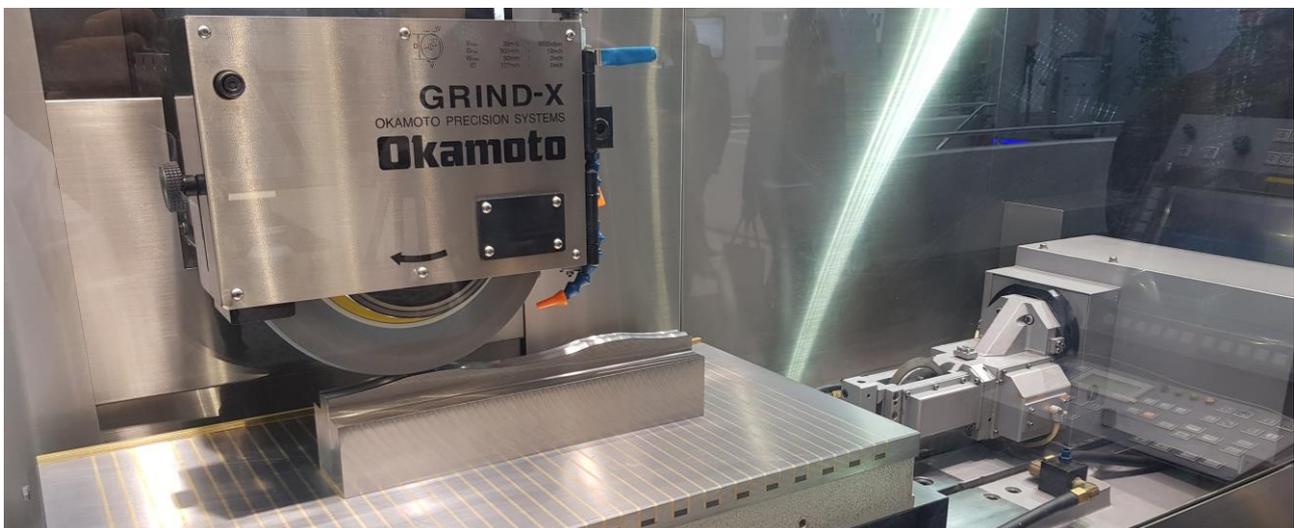


turret. All grinding wheels are mounted on self contained, self driven high frequency type spindles with built in thermal cooling. Two external wheels with $\varnothing 500\text{mm}$ may be mounted on the same turret in addition to the internal spindle. A range of self driven internal spindles is offered from 10,000 r.p.m. up to 60,000 r.p.m. and beyond.

Complex workpieces featuring plain external diameters, internal diameters, tapered diameters and faces can be easily and efficiently set via our Okamoto Grinding Data Automatic Setting Function and the touch screen. This software automatically sets the most suitable grinding parameters according to the wheel grain size and wheel width.

2. ACC-104CA3

Having many shared features of the CAiQ Series, the ACC-104CA3 is a 3 axis high-end version with table ball screw drive. All 3 axes are under Fanuc CNC control. The machine we showed at EMO this time was equipped with a 4th axis swing diamond arm to produce an intricate shape in the grinding wheel. Although often used for creepfeed grinding with precise speed control of the X axis via the servo driven ballscrew, this machine is also capable of grinding curves along the table axis as demonstrated.



3. ACC-208CHiQ

Our large size surface grinder, the ACC-208CHiQ was successfully introduced into Europe some years ago. The machine shown at the EMO has been bought by a customer who took delivery of his first ACC-208CHiQ in 2014. We have recognised that our market for these large size machines has been increasing and we are therefore changing our production system to increase production capacity and efficiency. We expect to announce a new lower price soon!

The extremely rigid design and clever construction of the ACC-208CHiQ guarantees the best flatness and straightness accuracy over a capacity of 2000mm x 1000mm.



4. UPZ52Li

The UPZ-52Li is a CNC profile grinder with fast oscillation by linear motor. Although small in footprint, it has a column moving construction and rigid structure for optimum precision. Precision is further enhanced by the use of an oil cooled wheelhead and liquid cooled wheel spindle motor.



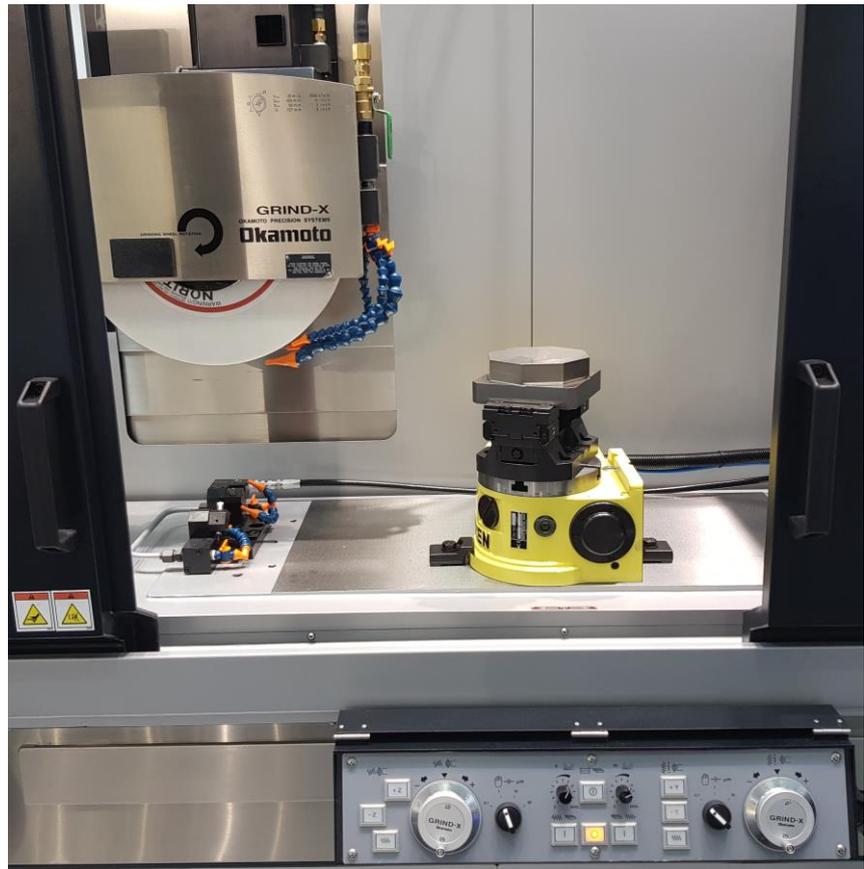
A linear motor drive achieves in 500+ reciprocations /min over a 10mm stroke with a stroke reversal accuracy down to 1 micron. Coupled with a small constant down feed, this oscillation speed drastically increases productivity.

The efficiency and accuracy of very high tolerance profile grinding is further advanced with the use of optional machine mounted measuring and inspection equipment. To this end, a CCD camera with magnification factor up to 300X was shown at the EMO.

5. ACC-84CAiQ

The ACC-CAiQ Series has been one of our best-selling models over the last few years. We have successfully delivered nearly 200 of this Series since it was first introduced in 2010. The CAiQ Series has proven itself to be both a robust heavy-duty machine for standard surface grinding work and an easy to use profile grinder.

Until the introduction of the CAiQ Series, complex tasks in precision grinding depended very much on the experience of a skilled operator. The development of the Okamoto iQ touch screen control and its easy to use software allows everyone to achieve impressive results. The breakdown of complex tasks into simple basic operations, enables even unskilled operators to use the machine with maximum efficiency.



EMO – An ideal meeting place for all our partners

We would like to thank all our dealers and partners for coming to see us at the EMO show this year. Together, this year, we have all enjoyed excellent business so far. The outlook for the year overall is expected to be the best of all in the last five years. We wish all our partners a successful conclusion to this year and a continuation of this success for the next year.



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