



## Cylindrical grinding machine Easy Shape 2000

### Cylindrical grinding made easy

Easy Shape is the newly developed cylindrical and polygon grinding machine range. It is used to grind carbide blanks, ceramic, glass, etc. in the diameter range of 0.5 to 100mm. An ISO50 work piece head offers a wide range of possibilities for work piece clamping. Different dialogues support the machine operator and shorten the programming of simple shapes without restrictions for geometrical complexity:

- „Teach-in“ for simple diameter reduction over a certain length
- „Peel grinding“ to generate carbide blanks for the cutting tool industry
- „Dressing“ for dressing of grinding wheels
- „Polygon Grinding“ for simple automatic grinding in 2-d non cylindrical geometries (option C-axis)

For all dialogues only the final contour has to be defined or the dxf file loaded. All the infeed steps are automatically calculated. Customised dialogues are available on request.

<http://www.dama.ch>  
phone ++41 71 988 34 20  
fax ++41 71 988 29 18

dama technologies ag  
Romanshornestrasse 7  
CH – 9308 Lömmenschwil  
Switzerland

The machine builds up on a vibration-reducing polymer concrete machine base. The grinding spindle is on the z-axis table and the work piece head stock on the x-axis. High precision roller guides guarantee a high rigidity and running smoothness. X- and z-axis are driven by recirculating ball screws and servo motors. The machine can be run in automatic mode, but also in inching function or handwheel. The work piece head stock can optionally be equipped with a torque motor. With this additional axis (C) it is possible to grind 2-d polygons such as dies, punches or rotary cams. For high precision requirements optical scales are recommended.

**Technical data**

Machine length	1350 mm
Machine length with panel	1600 mm
Machine width	1100 mm
Machine width with panel	1500 mm
Machine height	1500 mm
Machine height with dust exhaust	1800 mm
Working height	1250 mm
Machine weight	1400 kg
Electrical connection	3 x 400 V, 50Hz, 3L+ N + PE
Back –up fuse	16 A
Grinding diameter	0 – 120 mm (grinding wheel -Ø200 mm)
Precision	± 0.01 mm
Max work piece length (grinding length)	400 mm (250 mm)
Diamond tool (min. – max.)	Ø150 – 225 mm
Grinding spindle	1000 – 6'000 rpm (stepless)
Grinding spindle power	2.2 kW (option 3.5 kW)
X-axis	150 mm
Max x-axis speed	5'000 mm/min
Workpiece spindle	100 – 700 rpm (stepless)
Z-axis speed	0 - 5000 mm/min
Exhaust connecting piece	Ø100 mm
Exhaust connecting piece	
Colour	RAL 7035 / 3003

Technical alterations subject to change.



Prog. Nummer	99	
Nullpunkt	1	
Start Dm X	50.000	Teach in
End Dm X	40.000	
Start Punkt Z	0.000	Teach in
End Punkt Z	-80.000	Teach in
Zustellung	1.500	Pendeln

Seite 1 von 2

Vorschub Zustell	100.0	
Vorschub Arbeit	50.0	
Abheben	0.500	
Drehzahl Wz. Sp.	5000	
Drehzahl Ws. Sp.	300	Rechtsl.

**übernehmen**

Seite 2 von 2

