

# ABA Powerline 1006 CNC

## Optical Profile Grinding Machine

Stock number:	1118-1599
Type of machinery:	Optical Profile Grinding Machine
Manufacturer:	ABA
Type:	Powerline 1006 CNC
Year:	2001
Control unit:	CNC
Maker of control unit:	SINUMERIK 840 D
Country of origin:	Germany
Item location:	ex stock
Delivery time:	immediatly available
Freight basis:	EXW



### Seller

**FLECKENSTEIN** FLECKENSTEIN  
Werkzeugmaschinen  
Werkzeugmaschinen GmbH  
Sommerweg 15  
63831 Wiesen

Phone: +49 (0)609697060

Fax: +49 (0)6096970620

E-Mail:

[fleckenstein@fleckenstein-machine.com](mailto:fleckenstein@fleckenstein-machine.com)

[www.fleckenstein-machine.com](http://www.fleckenstein-machine.com)

### techn. Details

grinding length:	1.000 mm
grinding width:	600 mm
workpiece height:	400 mm
cross travel (Z-axis) :	540 mm
Distance table surface – grinding spindle centre:	600 max mm
Vertical travel (Y axis):	500 mm
Max. working height on new grinding wheel:	400 mm
work piece table: :	
Electro permanent magnetic plate:	800 x 500 mm
pole pitch :	18 mm
clamping force adjustable in 8 levels:	8 stufen
Table drive (X-axis):	
Incremental encoder in the longitudinal axis (X axis):	
table speeds:	2 - 35.000 mm/min
Electromechanical longitudinal movement by means of digital servo motor:	
toothed belt and ball screw:	
Preloaded precision rolling guide size 35:	
Central grease lubrication:	
Automatic vertical feed (Y axis):	:
min. feed size :	0,001 mm
measuring system:	Glasmaßstab
Max. distance spindle centre - table:	700 mm
Grinding head vertical:	550 mm
Electromechanical vertical movement by digital servo motor:	
backlash-free worm gear and ball screw. :	
Preloaded precision roller guide size 45, Central grease lubrication:	

## Optical Profile Grinding Machine

Cross feed (Z axis):	:
min. feed size :	0,001 mm
measuring system:	Glasmaßstab
column cross max.:	600 mm
Cross movement, continuous:	5 – 5.000 mm/min
Cross movement, intermittent:	1 - 95 mm/Impuls
Electromechanical transverse movement by digital servo motor, :	
toothed belt and ball screw. Preloaded precision rolling guide size 45 :	
Central grease lubrication:	
grinding spindle head::	:
motor – execution :	Drehstrom – Motor regelbar
power capacity:	18, 5 kW bei 1.5000 min--1
grinding spindle speed variable :	1.000 – 2.600 min-1
spindle bearing:	axial und radial spielfrei
Spindle Ø in front bearing:	80 mm
Grinding wheel dimensiones max.:	420 x 100 x 127 mm
Grinding spindle in block design with roller bearings, preloaded :	
high-precision spindle bearings and permanent grease lubrication:	
spindle bearings and permanent grease lubrication:	
grinding wheel peripheral speed max.:	35 m/s
Dynamic, automatic grinding wheel balancing system Fa. MPM, Typ AB 100:	
Data for electrical installation:	:
voltage:	3~ 400/230 V V
frequency:	50 Hz
connected load:	50 kVA
Backup fuse ca.:	70 A
rated current:	100
weight of the machine ca.:	6 t
dimensions of the machine ca.:	4.000 x 3.000 x 2.900 mm

### Description

#### Equipment and accessories

- Linear measuring systems in Y- and Z-axis
- All linear axes with digital servo motors and ball screw drive
- Belt filter system with paper belt filter, tank capacity 640 l, coolant pump 200 l/min/4 bar
- Manual coolant nozzles - adjustable
- Automatic working chamber door pneumatically controlled
- Electro-permanent magnetic plate 800 x 500 mm, pendulum pole pitch 18 mm
- Automatic grinding wheel balancing device Fa. MPM
- Full enclosure of the working area in stainless steel partial execution with LED working area lighting
- Manually operated door, safety interlock in automatic mode
- Portable electronic handwheel in automatic and manual mode for all axes
- Three-color signal light
- Electrical equipment 400V/50Hz
- Switch cabinet cooling unit
- Machine feet
- Painting RAL 9002 (grey white), RAL 5010 (gentian blue)
- Rinsing gun with hose and holder in the operating area
- Approx. 5 pcs. grinding wheel flanges

\*\*\* Machine prepared for grinding mist suction \*\*\*