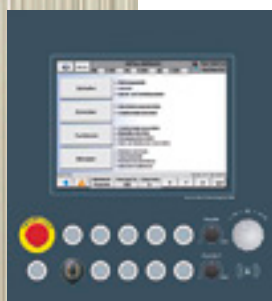


Controls Packages



xpressCube / Sinumerik 840D

Experience the xpressCube / Sinumerik 840D

xpressCube

The xpressCube combines a powerful control with comfortable visualization via 10.4" TFT-Touch-Display in one unit.

The user-friendly and easy operator screens allow fast and effective realization of manufacturing tasks in prototype, small batch and mass production. The new xpressCube meets the Machine Directive 2006/42/EG while being very comfortable to operate.

Direct input of grinding parameters via the display. All functions can be switched on and off via the display as well as all messages being provided in plain text on the display. The new xpressCube offers a variety of well-structured grinding programs.

- Reciprotation grinding
- Plunge grinding
- ECO grinding (combined plunge and reciprocation grinding)
- Grinding with manual feed via hand wheel

Parameters can be altered during machining and take effect immediately. Optimal quality can therefore be achieved with complex materials and machining tasks.

Set-up of work pieces, grinding wheel and dressing units is easy with the "Teach" function. Dressing can be performed automatically with table-mounted or head-mounted dressing units.

The new xpressCube enables beginners and experienced grinders alike to start producing quickly and safely.

xpressCube Pro

Fast and easy profile grinding even without CNC knowledge. Simple surface grinding with the option of upgrading to a profile grinding machine? No problem. The controls package xpressCube Pro is based on the hardware of the xpressCube.

A software update can provide the Pro-functionality if desired in the future. Due to the intuitive operation and multitude of hint features the complete functionality can be utilized even without special skills. Via the Operator Management "rights" can be assigned and individual settings can be adjusted based on the operator.

Benefit Overview

- Optimal functionality
- Easy to operate
- Easy set-up
- All messages in plain text
- Robust design

Benefit Overview

- Intuitive operation
- Large selection of profiles already included
- Program management with almost unlimited capacity
- Adjustment of individual settings through operator management





Sinumerik 840D

Grinding programs as well as dressing profiles need only be entered via parameter input and don't have to be programmed from scratch. If a profile should not be available, user programs can be uploaded at any time.

The Pro version is offered with following options:

- Groove/face grinding
- Profile dressing
- Wheel management
- Program management
- Operator management
- Fully automatic balancing

The Sinumerik 840D is capable of handling all complex grinding tasks and profiles. This control package can interpolate up to 5 axes.

This enables the machine to precisely create cone shapes, spherical shapes and three-dimensional curves. There are no limits when creating wheel profiles. The 840D is capable of safely controlling large and complex grinding centers with a multitude of axes and several spindles. The user interface is designed very user friendly. ELB has created proven grinding cycles for easy parameter input via graphically structured templates.

An additional advantage of this controls package is the optional Cadnology software. Cadnology converts even

extremely complex profiles directly from a CAD-file into contour data for the machine.

Of course the multitude of controls-specific features, e.g. plain text display, language toggle, fast internal communication via Profibus, interfaces to peripheral equipment and data recorders or remote service, are also available on all ELB grinding machines.



Benefit Overview

- Interpolation of up to 5 axes
- For complex grinding centers
- Tested pre-defined cycles for almost all grinding tasks
- Parameter input in programs
- Comfortable ELB HMI



xpressCube



Controls Package	xpressCube	xpressCube Pro	Sinumerik 840D
Panel			
Processor	1.1 GHz	1.1 GHz	1.1 GHz
RAM	512 MB	512 MB	512 MB
Windows XP	-	√	√
Chip reader	√	√	-
Drive			
Safe Motion	√	√	√
Number of axes, max.	6	6	32
Interpolating axes	-	2 (6)	6
Software			
Step grinding	-	√	√
Groove grinding	-	√	√
Profile grinding	-	√	√
Operator management	√	√	-
Wheel management	-	√	√
Work piece management	-	√	√
Extras			
Balancing	√	√	√
Balancing, automatic	-	-	√
Remote access	√	√	√
Cadnology	-	-	√
proGrind	-	-	√
Swivel roll dresser	-	-	√

All values are approximated and may change depending on selected options.
All information is subject to change.

Contact

ELB-SCHLIFF Werkzeugmaschinen GmbH
aba Grinding Technologies GmbH

Bollenwaldstraße 116
63743 Aschaffenburg
GERMANY
T +49 6028 408-0
F +49 6028 408-509
info@autania-gt.de
www.autania-gt.de

A company of Autania AG, Germany

**Grinding Applications
for a Global Market**