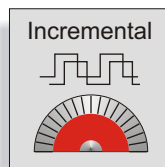




CDS22

Compact Drive System

- Complete Controller in Desktop Housing with integrated amplifier for AC Servo Motors up to 5 Nm
- Compact size tabletop unit
- Special functions for rotary tables and indexing attachments
- Menu Controlled Operation
- Easy Programming of Pitch Distances, Angles, Segments and Absolute Positions
- Automatic Work Cycle for Clamping and Indexing
- Language selection German/English/French
- Options:
 - Hand Wheel Connection
 - Serial Interface RS232
 - Interpolation electronics



CDS 22 Circular Table/Indexing Attachment Controller

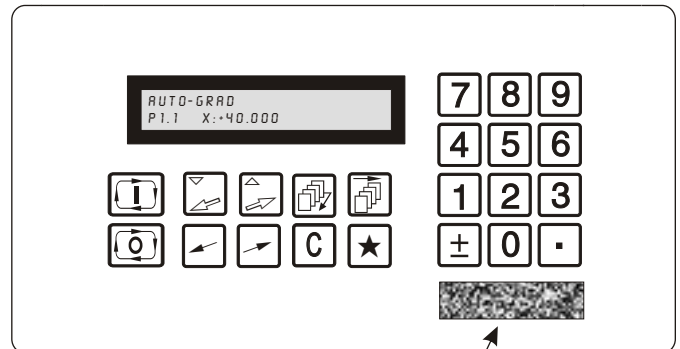
Programmable CNC positioning controller providing special functions adapted to circular tables or indexing attachments with position-controlled driving systems.

Sinusoidal acceleration curves considerably reduce the load of mechanical components.

Adaption of the CDS 22 controller to different tables/indexing attachments by parameter settings (decoded text on illuminated LC-display).

Easy and comfortable programming and operation due to menu assisted sequences.

Automatic clamping and control processing.



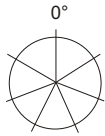
insertion type plate for own company logo or product code

The following operating modes are available:

- Reference run: Automatic searching for the machine reference position.
- Automatic: Execution of the selected program or the programmed pitch increments using the appropriate speeds. Start at any pitch possible.
- Program input:
 1. For constant pitch distances, the input of the pitch is sufficient.
 2. For irregular pitch distances, the programming is realized in degrees. Absolute and incremental as well as nearest direction and segment programming is feasible.
- Jog mode: Run to any position by means of arrow keys or definite motion to a previously entered angular position or infinite rotation. Zero point setting is also possible.
- Parameter input: Password protected parameter input of machine specific parameters in different parameter levels.
- Startup assistance: Test function is used for testing the inputs and outputs during startup or in case of faults.
- RS232 Interface (Option): External creation of programs with PC-software "WinCPS". Storage and reading of program data on PC.

Example for Pitch Programming

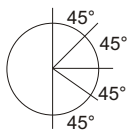
Ptitch with divisor 7 mit einem Teilungsfaktor von 7



Program input
Divisor: 7

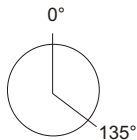
The CDS 22 calculates automatically the angular pitch:
 $360 \text{ degrees} / 7 = 51.4285 \text{ degrees}$

Example for Programming in Degrees



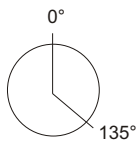
1.1 I:+45.0000 F:1.12
R: 3

Incremental angle of 45 degrees with 3 repetitions (R: 3).



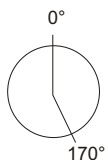
1.2 A:+135.0000 F:12.0

Absolute positioning to 135 degrees with positive travel direction.



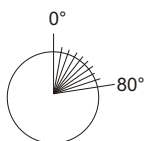
1.3 A:-135.0000 F:12.0

Absolute positioning to 135 degrees with negative travel direction.



1.4 A: 170.0000 F:3.23

Absolute positioning using the nearest direction (programming without sign).



1.5 S:+80.0000 F:1.00
T: 9

Programming a segment of 80 degrees with a divisor of 9
($80/9 = 8.8888 \text{ degrees}$).

General Information:

The switch over between the positioning modes happens by striking a key (menue key).

In addition, it is possible to program machine functions (M:) and the travel speed (F:) in each record. FS: is used to define whether a subsequent record / repetition without start signal is to be executed.

The clamping is always processed automatically. Clamping can be switched off temporary for each record inside a program.

Inputs and Outputs

Signal inputs:	
Standard:	Extended:
Reference switch	Jog forward
Clamping clamped	Jog backward
Clamping released	Jog fast
Negative limit switch	Activate Handwheel
Positive limit switch	Handwheel x10
Automatic/Jog mode	
Release	
Start	

Signal outputs:
Ready for operation
Program end
In position/positioning
Clamping
M-function 2/quantity end
M-function 1

Technical Data CDS 22 Circular Tables/Indexing Attachments

Programming system	Absolute, increm., segment	Software travel limit	adjustable
Minimum input angle	0.0001 degree	Autom. clamping	adjustable by parameters
Maximum input angle	+/- 999.9999 degrees	Drift compensation	yes
Max. equal pitch range	1 - 9999 pitches	Acceleration and deceleration ramp	10 - 10.000ms
Number of axes	1	Progr. speed	0.01-649 table rev./min
Input	Membrane keyboard with tactile acknowledgement	Max. pulse encoder frequency	250kHz (quadruplication 1MHz)
Display	LC - Display (decoded text) 2 x 24 characters, illuminated	Position detection	incremental
Programs to be stored	1 - 90	Signal inputs	8 inputs; 24V; 10mA 15 with opt. expansion
Programmable records	760 (stored power fail save)	Signal outputs	6 outputs; 24V; 1A
Resolution	up to 7.200.000 Incr./rev.	Connections	Clamping connector
Reference zero run	yes	Supply voltage	230 V; 50-60 Hz
Pulse start	yes	Ambient temperature	0 to + 45° C
Starting curve monitoring	yes	Dimensions w x h x d	361 x 155 x 390 mm
Stop with residual dist.run	yes		
Diagnostics	with decoded text display		
Linear ramp	yes		
Sin ² ramp	yes		

Versions:

- CDS 22/3: Motor current up to 3 A, Motors up to ca. 3 Nm
- CDS 22/5: Motor current up to 5 A, Motors up to ca. 5 Nm

Options:

- Hand wheel connection
- Serial interface RS232
- Interpolation electronics IBV, up to 50x

All data in this brochure have an informative character without warranty of characteristics. Changes without previous announcement reserved.

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