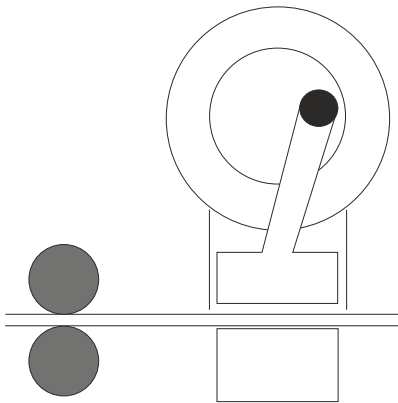




CPS20

Feed controller



- Position controlled feed axis
- Selectable sinusoidal or linear acceleration
- Measurement wheel operation feasible (option)
- 99 programs, 800 sets, jumps, loop functions
- Up to 6 M-functions
- 2 of these acknowledgeable with TDC / BDC function
- Error messages in clear text, 4 editable
- Start ramp monitoring
- Length correction during automatic run
- External setup
- Direct feed during setup
- External program preselection of up to 63 programs
- Outputs assignable
- Inputs assignable
- Extended workpiece counter 6 digit with preset-function
- Guard door function with limitation to $v < 2$ m/min
- Feed data programmable via RS232
- Link to cam controller DNS20 via RS232
- I/O test mode for initial startup
- Selectable language: English / German / French



Order data: CPS20.500.120

Abstract

The CPS20 feed controller combines operator terminal, control unit with in- and outputs and position controller to a very compact device.

The feed movement may be sine-square acceleration. This reduces the slip between roller and material and boosts the precision on fast stroke resp. clock cycles significantly. For crucial applications there is an option to incorporate a measurement wheel. Placed directly on the material, the measurement wheel compensates for roller slippage and inaccuracy in the drive.

Programming the CPS20 is very simple and accomplished in decoded text. Further more there are many reasonable features like direct movement, workpiece counter and external error messages with freely definable texts. There is an optional interface to the cam controller DNS20 or a data link to a press controller available.

Technical Data

Operation modes:	Manual jog: forward, backward, fast motion, internal and external Targeted motion Automatic with length correction
Program input:	800 sets, power fail safe through EEPROM without battery
Each set:	- Incremental length - Speed (1-100 %) - Machine function 1-6 - Set repetitions (0-999) - Following set programming - Jump- / loop function
Parameter input:	Motor- and machine specific data password protected
Signal inputs:	8 inputs 24 V, Ri = 10 kOhm (optional 16 inputs) Function assignable (e.g. start, enable, automatic, ...)
Signal outputs:	6 transistor outputs 24 V, 1 A short circuit proof (optional 9 outputs) Function assignable (e.g. position reached, M-functions, ...)
Set point output:	-10 V ... +10 V, output impedance 600 Ohm
Enable for amplifier:	Floating contact (shutter), rating 1 A
Position acquisition:	Incremental, level acc. RS422, 250 kHz, internal fourfold (1 MHz) Supply voltage output 5 V, 300 mA for encoder
Gearbox adaption:	7 digit, extra scale for measurement wheel
Error diagnosis:	Decoded text messages Monitoring of internal and external operating conditions. 4 external error messages with freely definable texts
Workpiece counter:	6 digit workpiece counter with preset function, workpiece counter input
Display:	LCD display (decoded text), 2 x 24 characters, illuminated
Input:	Membrane key with tactile acknowledgement
Data interface:	RS232 C (option) Programming of all program data (see above)
Voltage supply:	24 V DC $\pm 20\%$, ca. 0,3A
Dimension W x H x D:	213 x 133 x 75
Connections:	clamping connector plug & SUB-D connector
Operating temperature:	0 ... +50°C
CE-Standards:	Emission: acc. to EN 50081-1 Immunity: acc. to EN 50081-2

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esitron-electronic GmbH

Ernst-Zimmermann-Str. 18 Tel. +49(0)7541-6000-0
D-88045 Friedrichshafen Fax +49(0)7541-6000-11
Internet: www.esitron.de E-Mail: info@esitron.de