

# ND 1200T TOOL-CHEK

## – the Digital Readout for Tool Presetters

The TOOL-CHEK ND 1200T digital readout is designed specifically for tool presetters. It supports the X and Z axes.

### Description

The ND 1200T has a monochrome flat-panel display. The robust, diecast aluminum enclosure meets the demands of production floors.

### Functions

The self-explanatory user guidance of the TOOL-CHEK ND 1200T digital readout provides you with optimum support for all functions.

You can define up to 99 tool adapters for the tool holder. You can select either an absolute reference point, or one that refers to a master adapter. You can define the axis assignment and counting direction separately for each adapter.

Tool measurement usually consists of measuring the length and diameter or radius of a tool. You can also measure radii (e.g. for ball-nose cutters) and angles (e.g. for indexable inserts or lathe tools). The ND 1200T stores up to 300 tools. You can respectively show and print each actual value, nominal value and deviation.

You can group various tools, e.g. those that are necessary for machining a certain part. Create this setup plan either by selecting the tools from the tool list, or by measuring each tool.

For tools that are too large to be shown on the projector, such as teeth with a radius, you can freeze an axis for measurement. If a tool has more than one tooth, then you use the incremental function to ascertain the tool data in reference to the master tooth as well.

### Data interfaces

You use the data interfaces to transmit the tool data and to import and export settings, compensation values and saved tools. The RS-232-C/V.24 serial interface enables communication with a PC. You can connect printers or memory media to the USB port.

### Measuring radii and angles

You probe several points with the crosshairs in order to measure the radius. The digital readout calculates the radius and any form error from this. In order to measure a cutting edge angle, probe the two sides of the angle at two points each. The results are the intersection of the two lines as well as the inside angle "A".

T	L_00	mm
⊖	X	4.769
⊖	Z	0.111
	r	0.145
	F	0.000
Actual	Center	C Max

### Label printing

You can connect various label printers via the USB port. The control commands necessary for this are already set, and can be called via the menu function.

Print		mm
About	Auto Label	Yes
Display	Auto Report	No
Encoders	Label Format	Metronics1
Hot Keys	Pre Line	
Print	Post Line	10 13
Form Chars	Pre Form	
Ports	Label Lines	5
Supervisor	Skip Lines	0
Squareness	Label Indent	0
LEC		
List		

### Tool list

You can also store the data of all measured and numbered tools, and even print this data in a clearly structured list. Use the menu to determine which information is included in the list.

Tool list: Temp										
TOOL-#	SG	POT	Z-ACT.	X-ACT.	Z-NOM.	X-NOM.	Z-DEV.	X-DEV.	R/D	I/MM
10	01	4	100.1000	28.1000	0.0000	0.0000	100.1000	28.1000	D	mm
20	01	5	100.1400	29.9400	0.0000	0.0000	100.1400	29.9400	D	mm
30	01	6	99.9400	29.4600	0.0000	0.0000	99.9400	29.4600	D	mm
40	01	7	100.1200	29.8000	0.0000	0.0000	100.1200	29.8000	D	mm
50	01	8	100.1500	29.5600	0.0000	0.0000	100.1500	29.5600	D	mm
60	01	10	99.8800	30.2000	0.0000	0.0000	99.8800	30.2000	D	mm



ND 1202T	
<b>Axes</b>	2 (XZ)
<b>Encoder inputs*</b>	$\sim$ 1 V <sub>PP</sub> or $\square$ TTL (other interfaces upon request)
<b>Subdivision factor*</b>	10-fold (only for 1 V <sub>PP</sub> )
<b>Display step<sup>1)</sup></b>	Adjustable, max. 7 digits Linear axis: 1 mm to 0.0001 mm Angular axis: 1° to 0.0001° (00° 00' 01")
<b>Display</b>	5.7" monochrome flat-panel display for position values, dialogs and inputs, and soft keys
<b>Functions</b>	<ul style="list-style-type: none"> <li>• Point measurement with crosshairs</li> <li>• 99 tool adapters</li> <li>• Memory for 300 tools</li> <li>• Counting direction and axis assignment depend on the adapter</li> <li>• Radius/diameter switching</li> <li>• Entry of tolerances</li> <li>• Circle and angle measurement</li> </ul>
<b>Error compensation</b>	<ul style="list-style-type: none"> <li>• Linear, and segmented linear over up to 30 points</li> <li>• Parallelism error</li> </ul>
<b>Data interface</b>	<ul style="list-style-type: none"> <li>• RS-232-C/V.24</li> <li>• USB</li> </ul>
<b>Other connections</b>	Foot switch for two functions, or remote keypad
<b>Accessories</b>	Foot switch, remote keypad, protective cover
<b>Main power input</b>	100 Vac to 240 Vac (-15 % to +10 %), 43 Hz to 63 Hz
<b>Operating temperature</b>	0 °C to 45 °C
<b>Protection EN 60529</b>	IP 00, front panel IP 40
<b>Mounting*</b>	Tilting base or mounting base
<b>Weight</b>	<i>ND with tilting base:</i> approx. 4.8 kg; <i>ND with mounting base:</i> approx. 2 kg

\* Please select when ordering

<sup>1)</sup> Depends on the signal period of the connected encoder as well as the subdivision factor

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