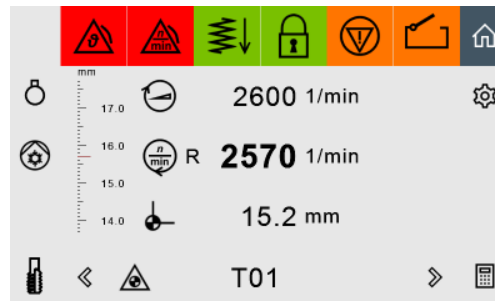
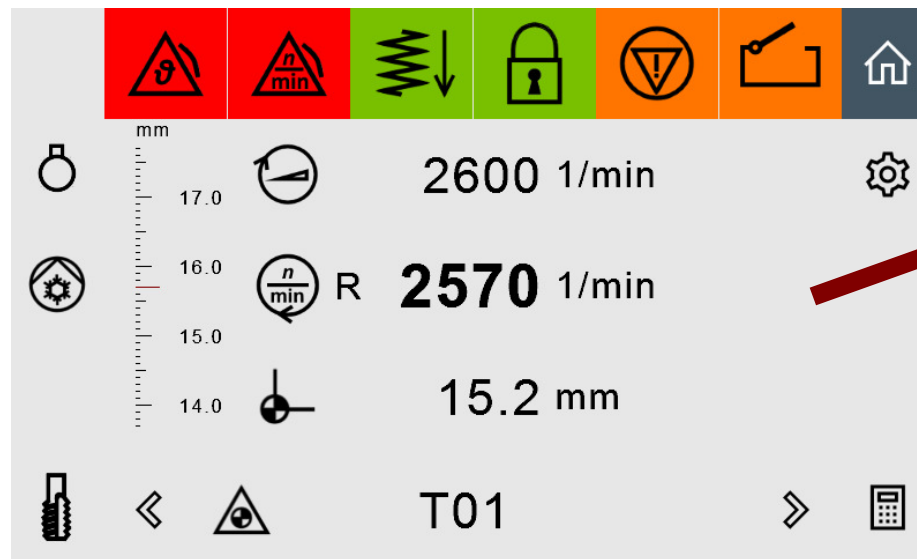


ALZMETALL – iTRONIC Drilling Machines



TFT – LCD-Display with Touch-Functions

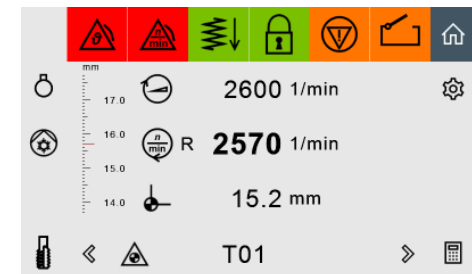
TFT – LCD-Display with Touch-Functions



Operator's Window for controlling the machine and available machine functions

TFT – LCD-Display with Touch-Functions

- Multi-Touch Display 5“ or 7“ with scratch-resistant safety glass
- Clearly visible
- Simple and uniform menu navigation with pictograms
- Direct Rpm-Input or by means of an optional Calculator-> Memorized Rpm
- Actual Rpm → manually adjustable with the speed lever left of the head
- **(Attention! The Rpm speed is not controlled automatically, except for the AB 40 iTRONIC)**
- Digital depth read out and zero-point fixation (Drill start)
- Virtual Depth-Scale with synchronized Zero point
- Status indicators and warnings for improved safety
- Control tension 24Volts (no more 230 Volt control switches)
- Service informations
- Language may be switched: D/ E/ F/ NL/ I / ESP/ RUS
- Integrated short PDF Manual
- Variable Display Darkening Timeout



ALZMETALL Series – ALZTRONIC i

- **ALZTRONIC i6**
- **ALZTRONIC i9**
- **ALZTRONIC i12**
- **ALZTRONIC i14**
- **ALZTRONIC i16**

NOW STANDARD

- **5“ TFT – LCD-Display with Touch-Functions**
- Main Switch, lockable
- Control Tension 24 V
- Digital Depth Readout with 0-Point fixation (Drill start)
- Data are kept, even when the machine is switched off, the spindle protection is opened or in case of an emergency-off
- Brake function– The spindle is braking immediately in case of a normal spindle-hold, in case of an emergency-off, or when the protection is opened
- 3 separate buttons: Start Right Turn (CW)–Start Left Turn (CCW)–Spindle stop



ALZMETALL Series – ALZSTAR iTRONIC

- **ALZSTAR 23-T iTRONIC**
- **ALZSTAR 23 iTRONIC**
- **ALZSTAR 30 iTRONIC**
- **ALZSTAR 40 iTRONIC**
- **ALZSTAR 40 iTRONIC-V**

NOW STANDARD

- **7“ TFT – LCD-Display with Touch-Function**
- Main Switch, lockable
- Control Tension 24 V
- CW and CCW Spindle rotation with heavy contactor controls
- **Drill depth Readout with 0-Point fixation (Drill start)**
- Data are kept, even when the machine is switched off, the spindle protection is opened or in case of an emergency-off
- 3 separate buttons: Start Right Turn (CW)–Start Left Turn (CCW)–Spindle stop



ALZMETALL Series – AX iTRONIC

- **AX 2-T iTRONIC**
- **AX 2 iTRONIC**
- **AX 3 iTRONIC**
- **AX 3 iTRONIC-V**
- **AX 4 iTRONIC**

NOW STANDARD

- **7“ TFT – LCD-Display met Touch-Functie**
- Control Tension 24 V
- **CW and CCW Spindle rotation with heavy contactor controls**
- **Drill depth Readout with 0-Point fixation (Drill start)**
- **Tapping device with 4 tools**
- 3 separate buttons: Start Right Turn (CW)–Start Left Turn (CCW)–Spindle stop



ALZMETALL Series – AB iTRONIC

- **AB 26 iTRONIC**
- **AB 34 iTRONIC**
- **AB 34 iTRONIC-HST**
- **AB 40 iTRONIC**
- **AB 40 iTRONIC-HST**

NOW STANDARD

- **7“ TFT – LCD-Display with Touch-Functie**
- Control Tension 24 V
- **CW and CCW Spindle rotation with heavy contactor controls**
- **Drill depth Readout with 0-Point fixation (Drill start)**
- **Tapping device with 4 programmable tapping tools and 4 programmable drill tools**
- 3 separate buttons: Start Right Turn (CW)–Start Left Turn (CCW)–Spindle stop
- **(AB 40 iTRONIC) automatic Rpm control**

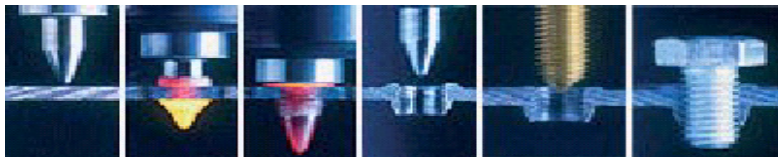


ALZMETALL Series – FLOW iTRONIC








- **ALZFLOW 30 iTRONIC**
- **AB-FLOW 40 iTRONIC**
- **AB-FLOW 40 iTRONIC-HST**

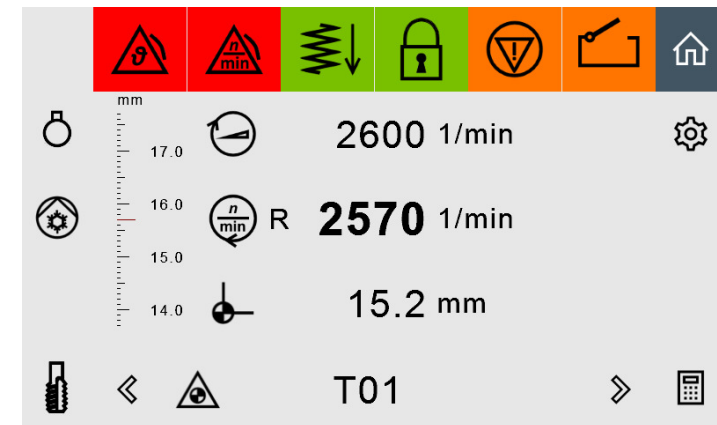
NOW STANDARD

- **7“ TFT – LCD-Display with Touch-Functie**
- Control Tension 24 V
- **CW and CCW Spindle rotation with heavy contactor controls**
- **Drill depth Readout with 0-Point fixation (Drill start)**
- **Tapping device with 4 programmable tapping tools and 4 programmable drill tools (not for the Alzflow 30)**
- 3 separate buttons: Start Right Turn (CW)–Start Left Turn (CCW) – Spindle stop
- **(AB 40 iTRONIC) automatic Rpm control**










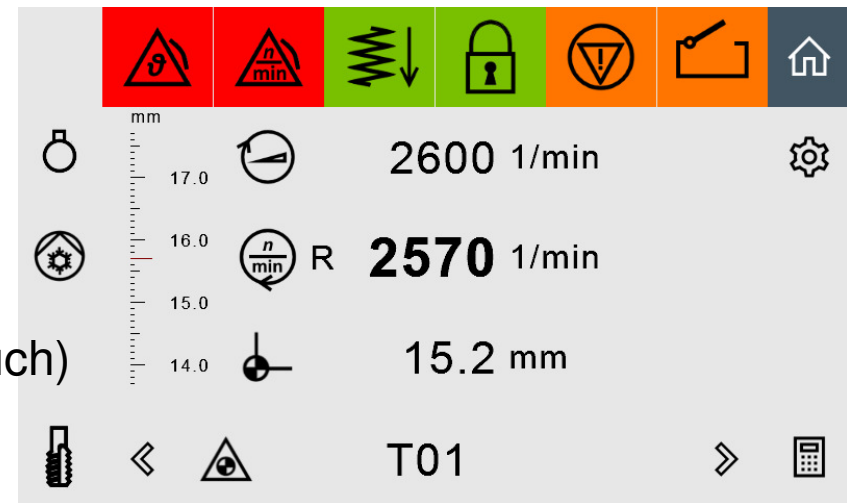
TFT – LCD-Display with Touch-Function

-  • Temperature Warning
-  • Warning: wrong Rpm setting
-  • Automatic Advance Feed active
-  • Automatic Advance Feed active while Zero Rpm
-  • Emergency – Off Switch activated
-  • Spindle Protection open
-  • Main Screen symbol



TFT – LCD-Display met Touch-Functie

-  • LED-Light On/Off
-  • Coolant Pump On/Off
-  • Input Rpm (memorizing)
-  • Actual Spindle Rpm speed
-  • Drill depth Read Out with zero Point (touch)
-  • Configuration settings (Sub-Menu)
-  • Technology-Calculator (Sub-Menu) (Option)



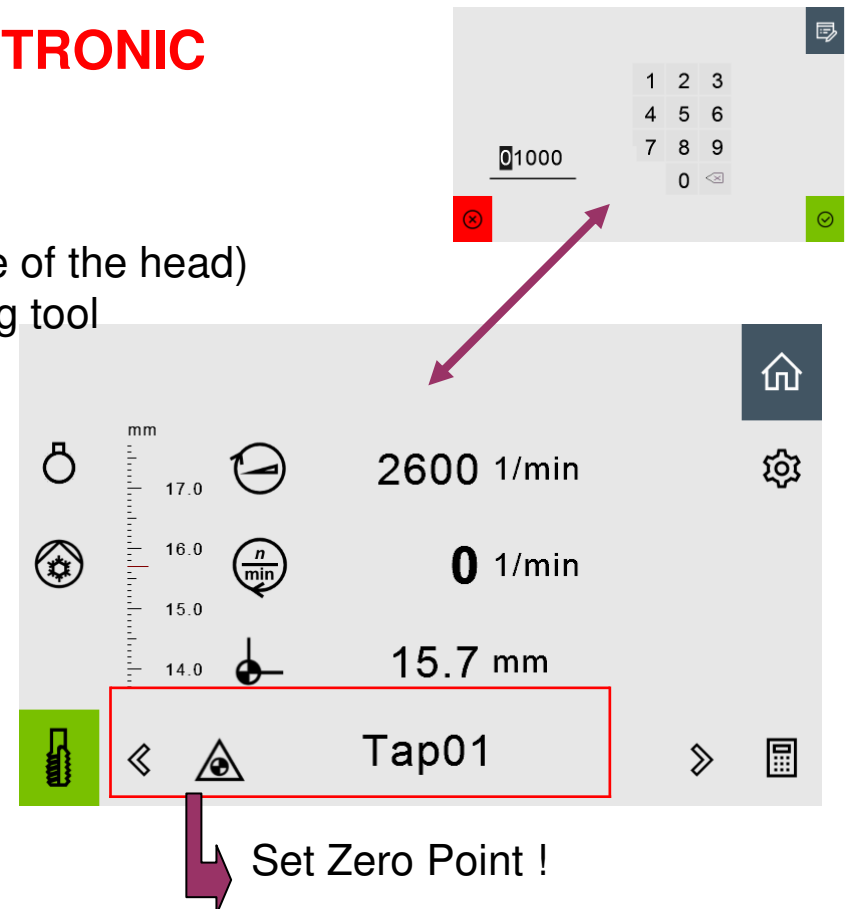
TFT – LCD-Display with Touch-Function



• Tapping device, now standard in **AX iTRONIC**

- For tapping /Threading functions with end stop
- Depth may be setted with a mechanical end stop
- Zero-Point setting with the touch function
- Rpm speed setting with the manual lever (left side of the head)
- **Mechanical** end stop Depth setting for the tapping tool

Explanation: AX machines do not have an automatic electro-mechanical feed clutch like with the AB machines. The automatic advance feed function remains to be a purely mechanical clutch, thus cannot be electrically controlled.



TFT – LCD-Display met Touch-Functie



- Tapping device, now standard in **AB iTRONIC**

- For tapping /Threading functions with end stop

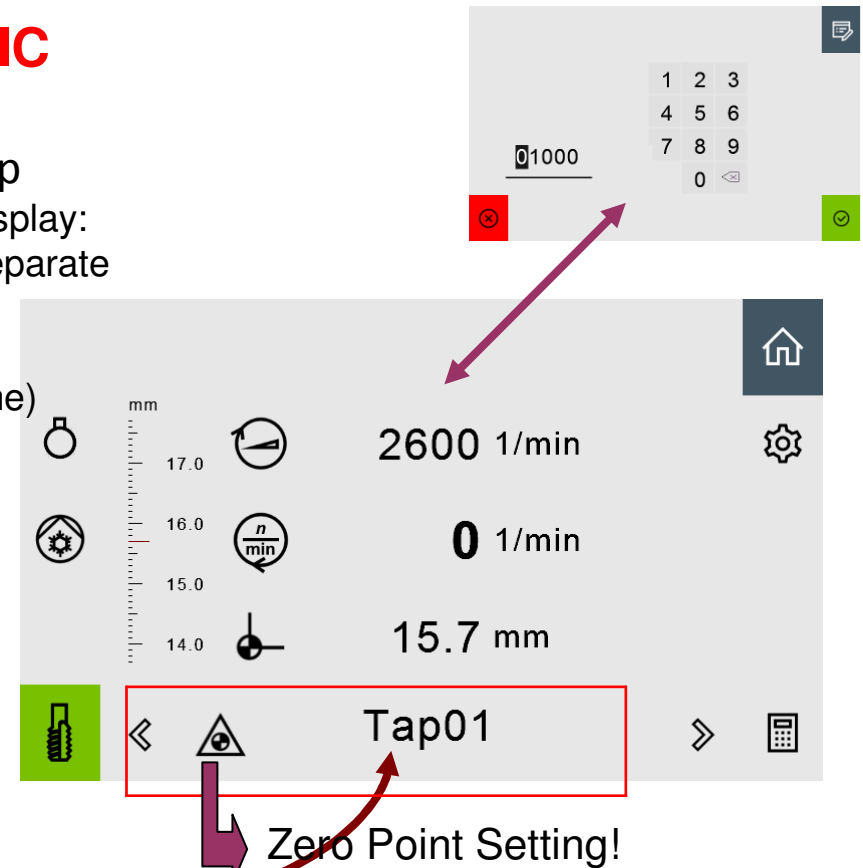
- Depth may be setted with a mechanical end stop

OR ALTERNATIVELY programmable in the TFT–LCD-Display:
with 4 programmable tapping tools TAP1–2–3-4 and 4 separate
drill tools TO1–2-3-4

- Zero Point setting with a touch function

- Rpm Setting by hand (Lever at the left side of the machine)

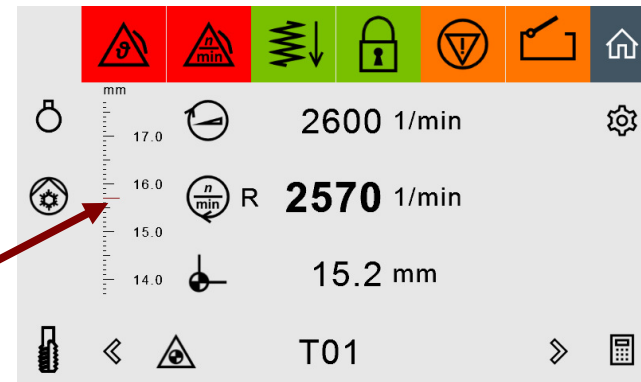
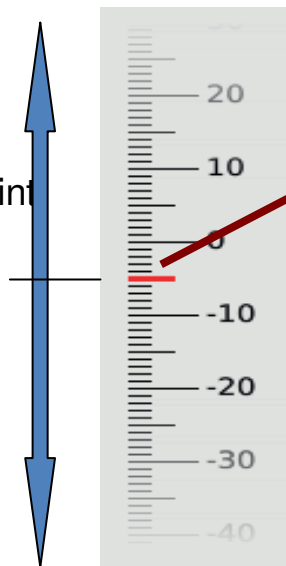
- **Programming** the depth for the tools



TFT – LCD-Display with Touch-Function

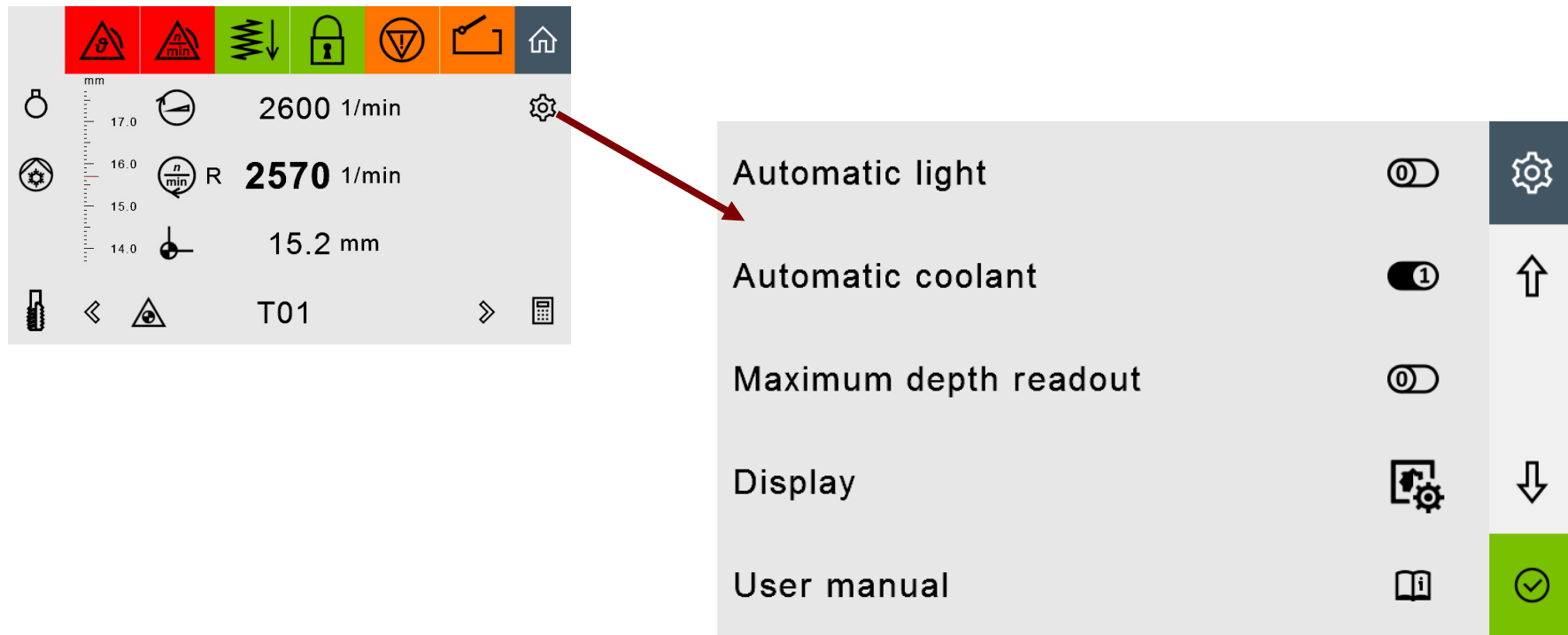
- **Virtual Drill Depth - Scale in the Display**

- synchronizes with the setted Zero Point
- Moving up an down with the cross lever movement



TFT – LCD-Display with Touch-Function

 • **Settings**



The screenshot displays the iTRONIC TFT-LCD interface. At the top, there is a row of seven icons: a red warning triangle, a red triangle with 'n/min', a green spring with a downward arrow, a green padlock, an orange triangle with a downward arrow, an orange plug, and a grey house icon. Below this, the main display area shows a vertical scale on the left with values 14.0, 15.0, 16.0, and 17.0. To the right of the scale, there are three rows of data: '2600 1/min', '2570 1/min' (with 'R' and 'n/min' icons), and '15.2 mm'. At the bottom left, there is a drill bit icon, a left arrow, a warning triangle, and 'T01'. At the bottom right, there is a right arrow and a calculator icon. A settings gear icon is located to the right of the '2600 1/min' row. A red arrow points from this gear icon to a settings menu that is open on the right side of the screen. The settings menu has a dark grey header with a gear icon. It contains five items: 'Automatic light' (toggle off), 'Automatic coolant' (toggle on with '1'), 'Maximum depth readout' (toggle off), 'Display' (toggle on with gear icon), and 'User manual' (book icon). A green bar with a white checkmark is at the bottom of the settings menu.

TFT – LCD-Display with Touch-Function

- **Automatic Light On / Off**










(not with ALZTRONIC)

- ON when leaving the spindle home position
- OFF when returning to the spindle home position

- **Automatic Coolant Pump On / Off**

(not with ALZTRONIC)


- ON when leaving the spindle home position
- OFF when returning to the spindle home position

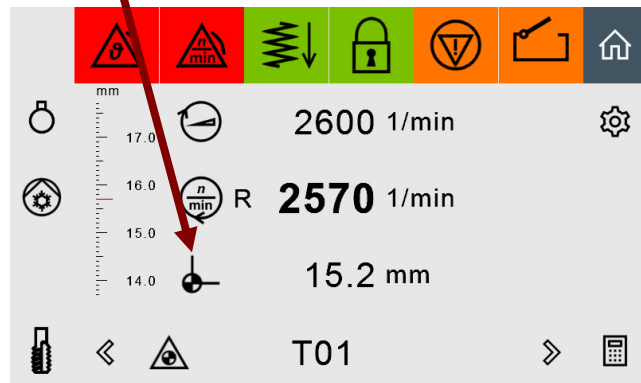
Automatic light		
Automatic coolant		
Maximum depth readout		
Display		
User manual		










NEW - Option Pos. 24 und 25 Coolant Devices A or B are equipped with a check valve that closes to prevent backward flow

TFT – LCD-Display with Touch-Function

- **Maximum-Drill Depth Read Out** as an extra Measuring Function (gauging) of the machined drill depth – **Option No. 37.6**

MAX  Symbol visible in the display. May be switched on or off. Digital gauging.



Automatic light		
Automatic coolant		
Maximum depth readout		
Display		
User manual		

TFT – LCD-Display with Touch-Function

- **Display-Settings**

- Backlight
- Screen Saver on/off
- Display - Time Out

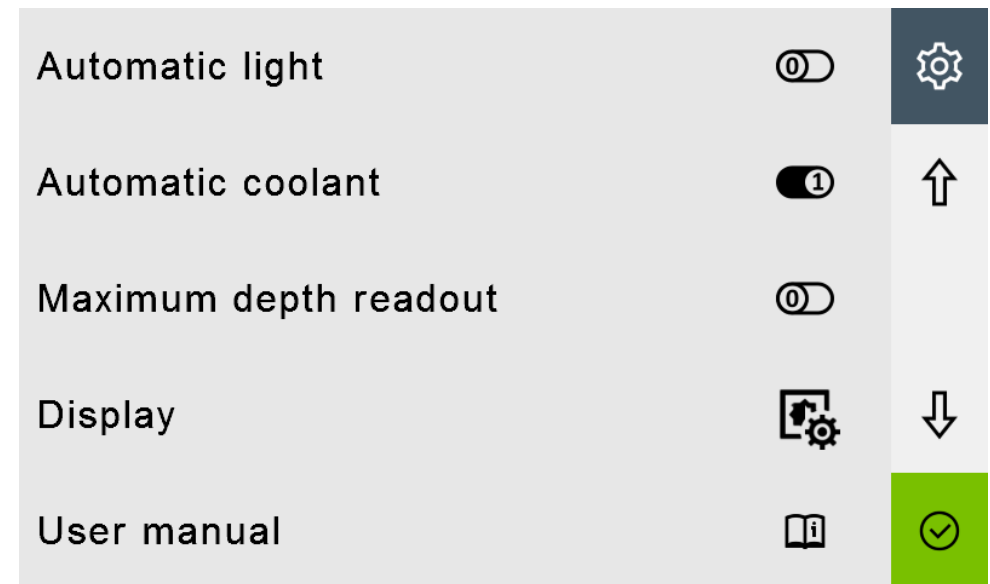
- **iTRONIC short manual**

- A short PDF manual is displayed

- **Language** DE/EN/FR/NL/IT/ES/RU

- **Informations**

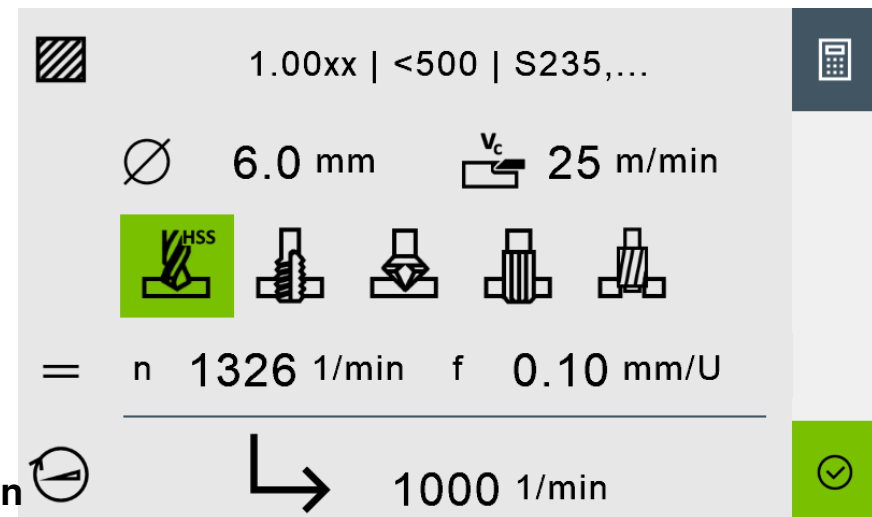
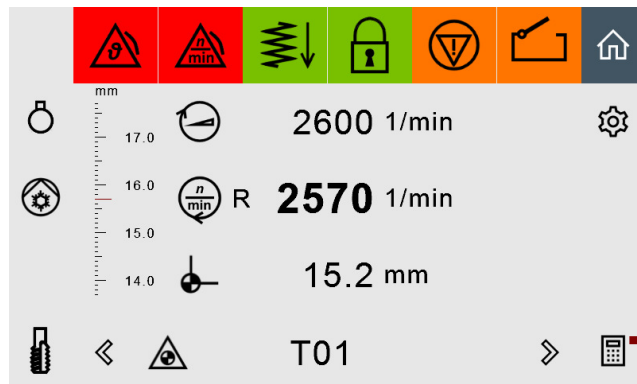
- Machine Number, Software Version, Service contact, etc.



TFT – LCD-Display with Touch-Function



• Technology - Calculator - Option Pos. 37.5



This is a nice APP for calculating and comparing quickly cutting parameters (Rpm Speed and Advance feed). The resulting Rpm Speed is shown as a **recommendation** and can be memorized in the main screen. Even if there is not an automatic advance feed on board, it may give a good impression of the manual cross lever speed to be applied.

TFT – LCD-Display with Touch-Function



• Technology - Calculator - Option Pos. 37.5

(how to do)

Input: Diameter of the tool

Input: Cutting speed for the material in m/min

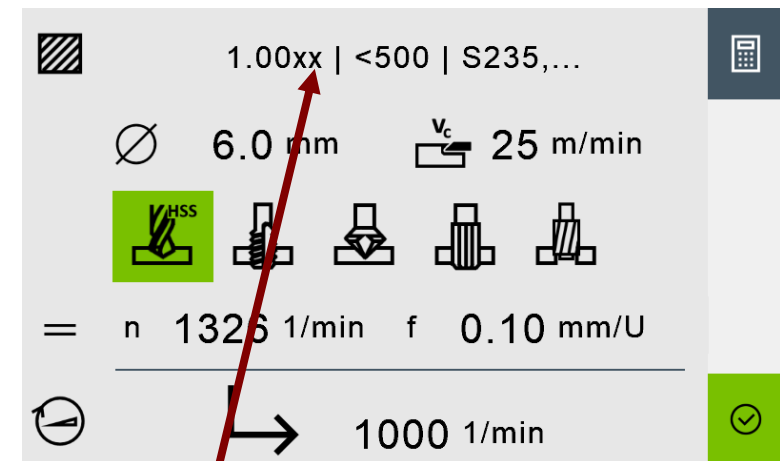
Choose: Process drill, tap, etc.

OR ALTERNATIVELY

Input: Diameter of the tool

Choose: Material selection from the list

Choose: Process Drill, Tap, etc.



#	DIN EN 10027-2	Rm [N/mm ²]	Mat.
1	1.00xx	<500	S235,...
2	1.00xx	500-850	S335,...
3	1.07xx	<850	9S20,...
4	1.07xx	850-1000	60S20,...
5	1.04/05/11xx	<700	Ck25, Ck35,...
6	1.04/05/11xx	>700-850	Ck45,...
7	1.04/05/12xx	850-1000	C60,...
8	1.70/11xx	>850-1000	38Cr2,...
9	1.72xx	1000-1200	42CrMo4,...
10	1.04/11xx	<750	C15, Ck15,...

TFT – LCD-Display with Touch-Function

- **AUTODIGIT – Automatic Drill depth Programming Option Pos. 37.3**

The image shows a screenshot of the iTRONIC TFT-LCD display. On the left, a menu is visible with various icons and settings. The 'T01' option is highlighted with a red box, and a red arrow points to it with the text 'Set Zero Point!'. Below this, the text 'AUTODIGIT: Drill depth Programming' is displayed. The main display area on the right shows the 'T01' programming screen. It features a top bar with a drill bit icon and the text 'T01'. Below this, there are four rows of settings, each with an icon and a value: 'Total drill depth' (35.0 mm), 'Dwell time' (3.0 s), 'Interval depth' (5.0 mm), and 'Interval dwell time' (1.5 s). Each of these four rows has a red box around its label. At the bottom left of the main display area is a red square button with a white 'X' icon, and at the bottom right is a green square button with a white checkmark icon.

AUTODIGIT:

- Drill depth Programming
- Chip breaking (not peck drilling)
- Free cutting

Only for AB 26-34-40 iTRONIC

AUTODIGIT with 4 programmable tools and four settings possibilities (incl. Speed and Zero Point)

TFT – LCD-Display with Touch-Function

- **AX and AB Machines – New Options:**



Pos. 20.4 COMFORT switch for changing the spindle rotation direction CW to CCW or CCW to CW (only with AB 26/ 34/ 40 iTRONIC and only for the tapping mode)

Pos. 20.5 Foot Switch as an extension to the standard tapping device in order to switch the spindle rotation direction CW to CCW or CCW to CW by foot (only for AX 2/ 3/ 4 iTRONIC and AB 26/ 34/ 40 iTRONIC)

TFT – LCD-Display with Touch-Function

- **iTRONIC Drilling machines – General remarks:**

Our well-known and proven Drive systems with Disks and Belts, combined with Tooth Wheel Reduction Systems and Two-Step Clutch systems, are remaining as they were before. These mechanics are presenting long life times, very little wear, and are trustworthy. We leave these systems unchanged as they are delivering an optimal power and craft transfer from the main Drive Motor to the tool / spindle, keeping the right torque for the drill application.

Classical Options like the 50.6 Mechanical Depth Fine Adjustment are still in the program

All machines (also the conventional range) will be delivered with an attractive modern Colour combination: DD-Structured Lacquer Signal White RAL 9003, PANTONE 7545c, black

All conventional machines will still be available and assembled up to 31.12.2020

Only two machines will remain conventional and are not made available in the iTRONIC range: the table bench drill ALZSTAR 18-T/S and the heavy AB 50 Drills will be left unchanged.