

Technical data

Taurox®

Type of machine	TauroTribometer
Thread capacity thread cutting (AlMgSi1 / 3.2315 / EN AW-6082)	M2 – M12 M10 (25 mm deep at 800 rpm) M12 (18 mm deep at 800 rpm)
Thread capacity thread cutting (stainless steel X6CrNiMoTi17-12-2 / 1.4571 / V4A)	M2 – M8 M8 (25 mm deep)
Thread capacity thread forming	M2 – M6 M6 (30 mm deep, pay attention to maximum tool load)
Torque range (continuously adjustable)	0.30 – 10.00 Nm
RPM range (continuously adjustable)	50 – 2400 rpm
Spindle / tool holder	quick change holder Size 1
Throat without Coordinate Table	201mm
Travel height adjustment	0 – 488 mm with crank
Column Ø / length / swivel range	70 mm / 730 mm / 60°
Machine pedestal (WxDxH)	296 x 468 x 76mm / 2 x T-slots DIN 650-12
Dimensions machine (WxDxH)	411 / 469 / 1085 mm
Dimensions control unit (WxDxH)	400 / 220 / 400 mm
Electric supply / Power input	230 V~ / 1,1 kW
Cable length between the module	3 m
Spindle travel / Thread depth max.	90 / 80 mm
Modular construction (3-parts)	- spindle unit - operator and display unit - control unit
Entrance protection class	IP54
Engineer standard	Conforms to CE / EMV
LCD Display	4.3" TFT-display, 65536 colors
Operation	Menu driven
Measuring accuracy depth	0.1 mm
Measuring accuracy torque	+/- 1% of full scale value with rotating spindle (in delivery state)
Finish	RAL 7035 / light grey
RAL / colour name	RAL 5005 / signal blue
Quality evaluations / Error messages	Display with error message Evaluation and audible signal
Feed system for spindle	Spindle feed pneumatic 6bar

Coordinate Table for automated measurements

- Controlled by **TauroLink** analysis software
- Driven by AC servo motors with resolver and circulating ball screw
- Range X 300 mm / Y 250 mm
- Repeatability +/- 5µm
- Positioning accuracy +/- 0.01 mm at 20 °C +/- 1 K
- Limit switch and home switch
- Mounting plate with T-slot



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Cleaning station for cleaning of the test tool

- Controlled by **TauroLink** analysis software
- Tool cleaning with brushes, detergents and circular discharge unit
- Manual or automatic cleaning process
- Cleaning of abrasion and chips
- Easy emptying of cleaning station



Lubricant station for automatic dipping of the test tool

- Automatic dipping process
- Lubricant position selectable



Software **TauroLink** Analysis and Control Software

- Acquisition of process parameters
- Remote control of the **TauroTribometer**
- Acquisition of measured values with 1 ms sampling interval
- Forward and reverse recording in different representations
- Data transmission of measured values via Ethernet
- Presentation, comparison and statistical evaluation of series of measurements in diagrams
- Evaluation of measurement series by determined key figures
- Export of measurements (file formats: xml, csv, bmp)
- Safe / open the diagrams
- Automation of measurement series in conjunction with an XY coordinate table
- Management of test plates
- Management of tools

Minimum system requirements:

- Windows® 7, Windows® 8.0/8.1 or Windows® 10
- Intel Pentium® 3, or an equivalent x86 CPU, with 1 GHz
- 1 GB RAM
- 100 MB free disk space
- 1 x 100 MBit Ethernet interface
- Monitor resolution 1600 x 900 (WSXGA) to 1920 x 1080 (Full HD)

Additionally recommended:

- Second 100 Mbit Ethernet interface or WLAN for company network
- Second monitor (1920 x 1080)

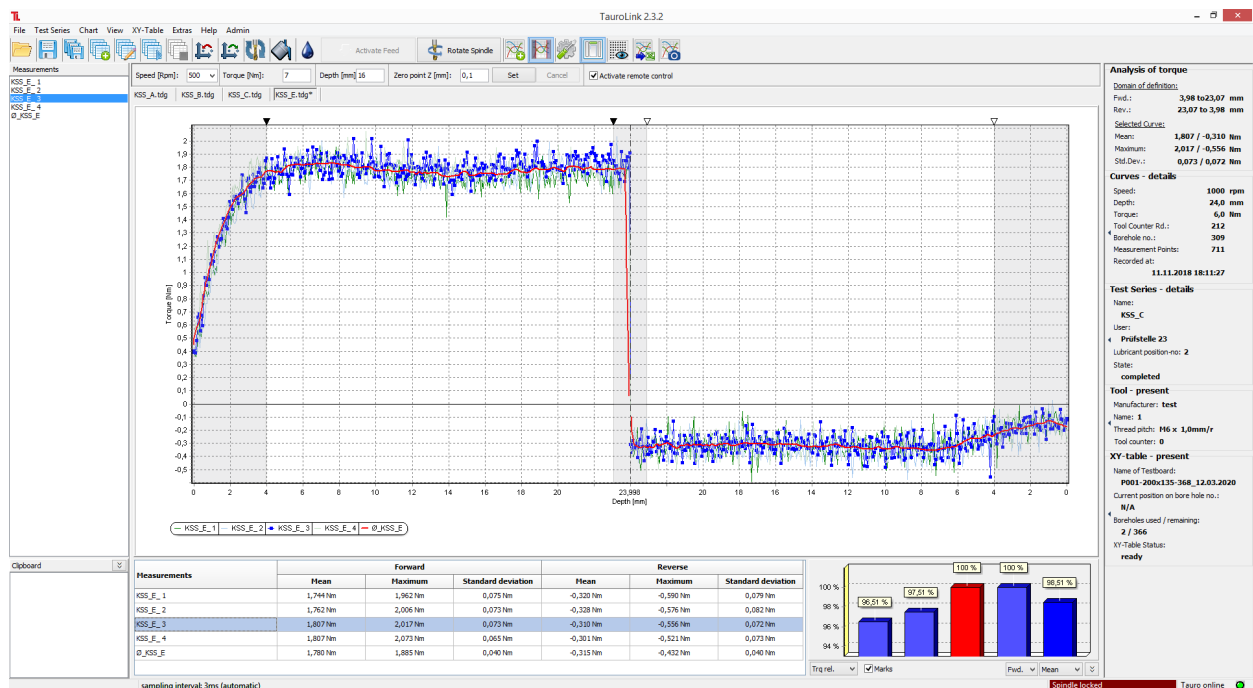


Fig.: Screenshot of **TauroLink** shows a torque depth chart with forward and reverse movement of a test series of four measurements with the mean curve in red. The info panel on the right shows details of the selected (blue) curve. The domain of definition extends from 2 mm to 22 mm depth.

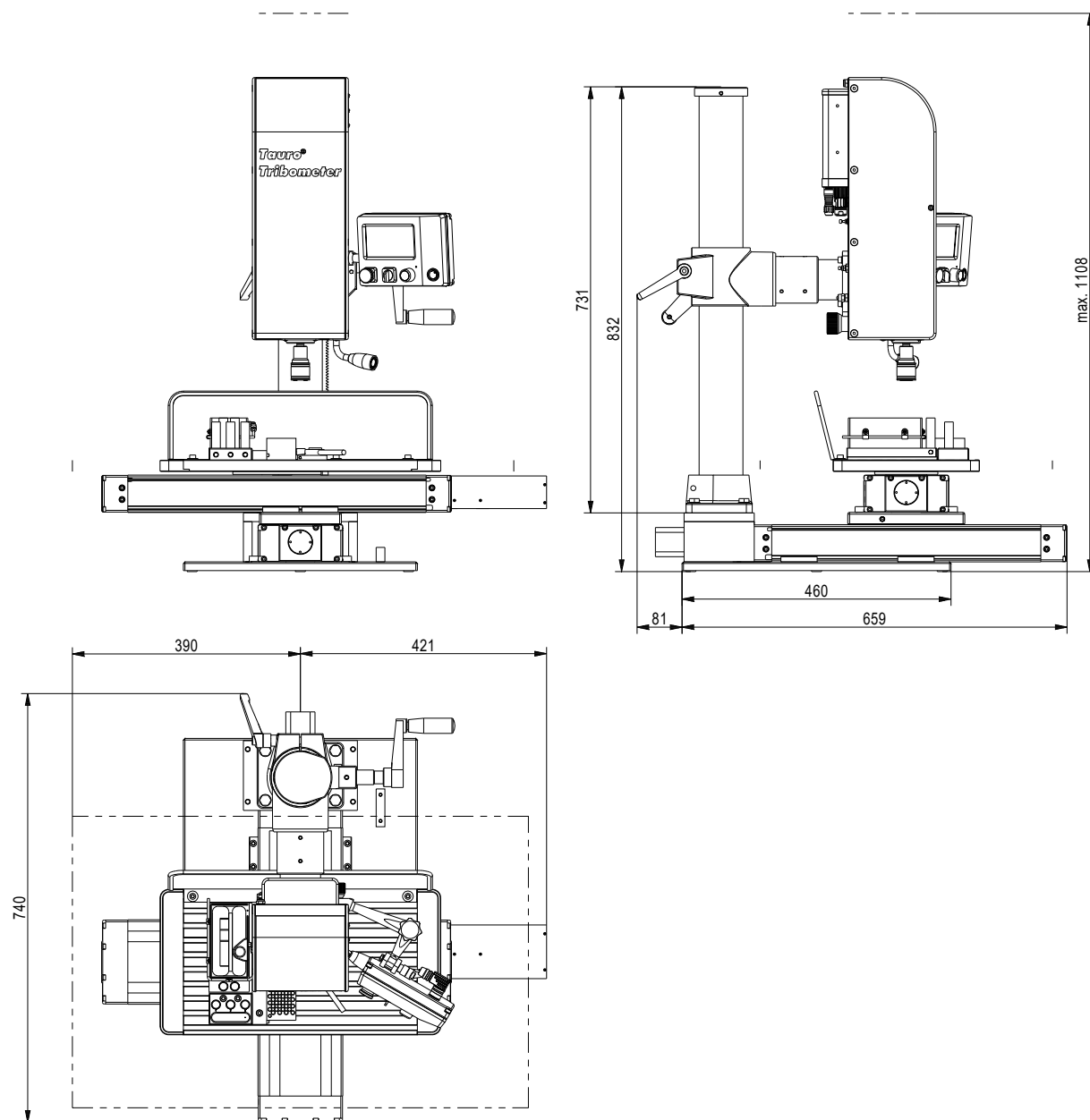


Fig.: View of the **TauroTribometer** with Coordinate Table

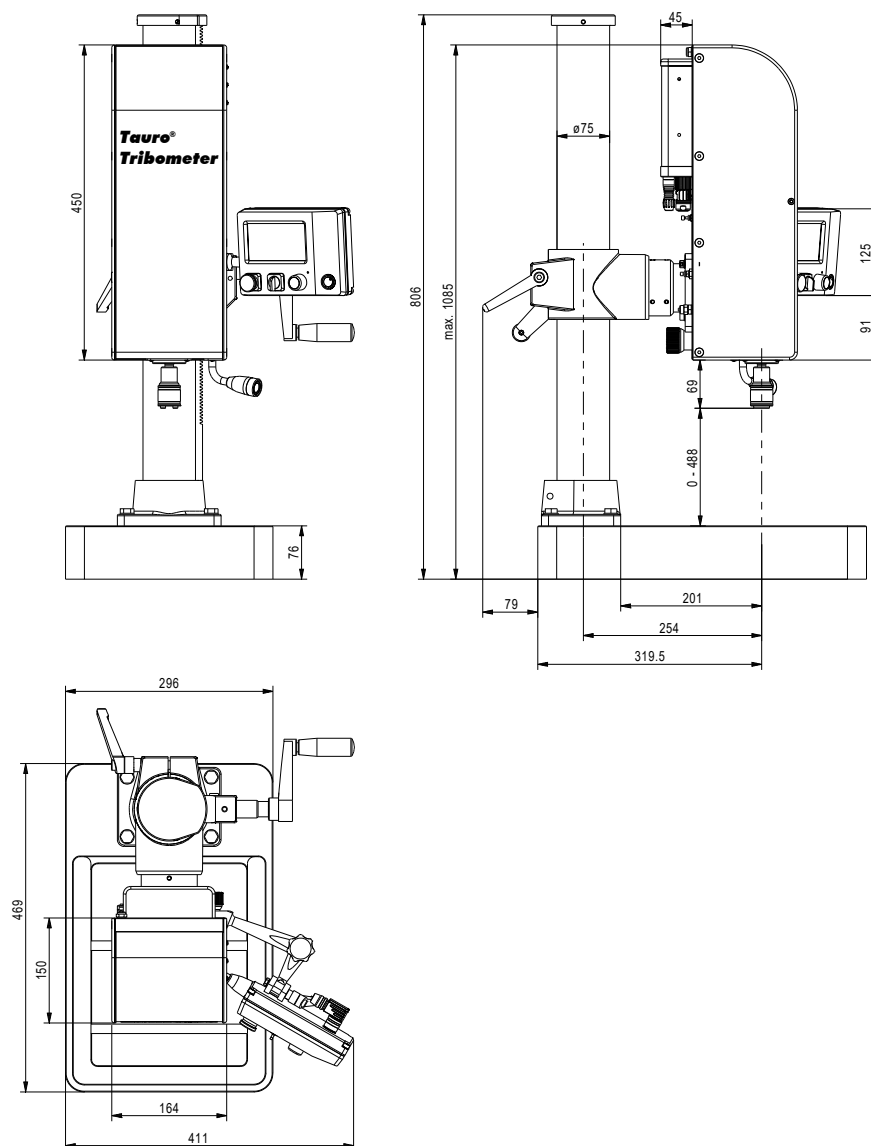


Fig.: View of the **TauroTribometer** without Coordinate Table

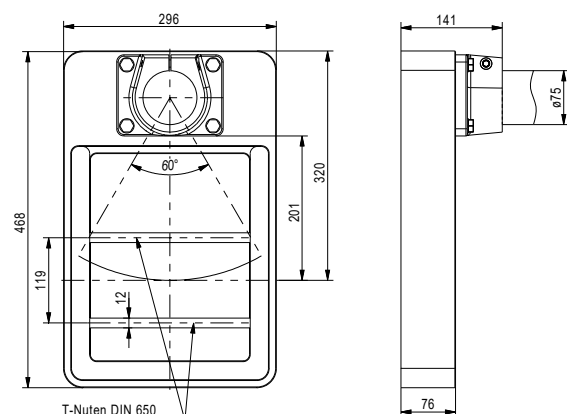


Fig.: View of the machine pedestal

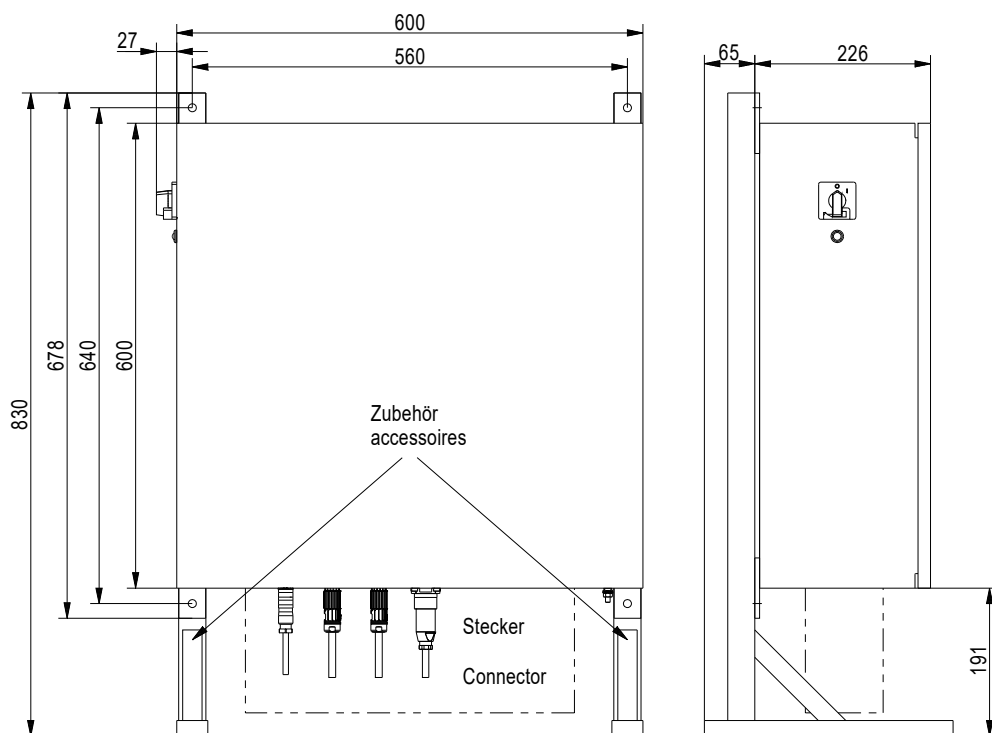


Fig.: View of the control unit **TauroTribometer** with Coordinate Table

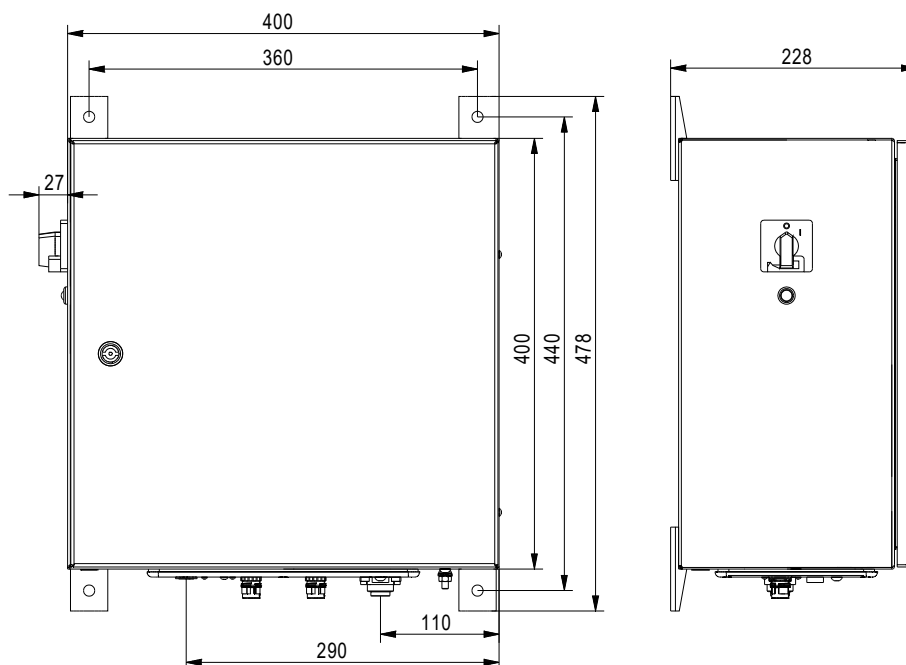


Fig.: View of the control unit **TauroTribometer** without Coordinate Table