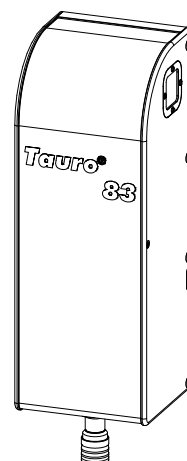
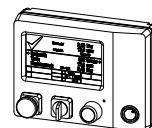


Technical data

Thread tapping automation

Taurox®

Type of machine thread tapping unit	Tauro 83E
Thread capacity thread cutting (AlMg4.5Mn / 3.3547)	M2 – M12; blind hole 2.0 x D
Thread capacity thread cutting (X6CrNiMoTi17–12–2 / 1.4571 / V4A)	M2 – M10; blind hole 1.5 x D
Torque range adjustable	0.30 – 8.30 Nm
Speed range adjustable	50 – 2400 rpm max. 2000 rpm from 6,8 Nm
Modular construction (3-parts)	– drive unit – operating and display panel – control unit
Operation	Menu driven
LCD Display	4.3" TFT–display, 65536 colors
Spindle feed system	pneumatic with monitoring
Spindle / tool holder	quick change holder Size 1
Dimensions / Weight drive unit	164 x 195 x 517 mm WxDxH / 13.9 kg
Dimensions / Weight control unit	400 x 300 x 120 mm WxDxH / 8.2 kg
Dimensions / Weight operating panel	166 x 43 x 124 mm WxDxH / 1 kg
Electric supply / Power input	230 V~ / 615 W
Power input non-operated	< 40 W
Cable length between the modules	2 m (special line up to 12 m)
Usage situation	vertical (accessories: horizontal)
Spindle travel / thread depth	90 / 80 mm
Depth accuracy	0.1 mm
Entrance protection class	IP54
Engineer standard	Conforms to CE / EMV
Digital inputs*	3 pcs. 24 VDC
Digital outputs*	10 pcs. 24 VDC / 3.6 W short-circuit proof
Connector for inputs and outputs	Included in delivery
Ethernet interface	Included in delivery
Finish	RAL 7035 / light grey
RAL / colour name	RAL 5005 / signal blue
Quality evaluations / Error messages	Display with error message Evaluation and audible signal



Software / Operation:

- **Languages:** German / English / Spanish (more on request)
- **Depth unit:** mm / inch
- **Torque monitoring** with actual value display
- Independent of thread type and pitch
- **Process programs:** thread cutting, thread forming, Thread tapping to basic contact with depth tolerance, rethreading with lead monitoring, thread inserts, screw in, thread plug gauge
- **Chip clearance programs**
- **Grade of quality:** blowhole, array of torque, tolerance of depth, tool wear
- **Start program:** Start with start button, Start at workpiece zero point, Start at torque detection (automatic zero point identification with rotating spindle)
- **Rotation:** right and left rotation switchable
- **Reversal program:** variable speed 20% - 1000% (max. speed), safe return in case of torque overrun with monitoring.
- **Parameter database:** 99 parameter data records
- **Counter:** Daily counter, Part counter, Quantity counter, OK / not OK adjustable with subsequent lock
- **Lubrication program:** Cooling lubricant and blow-out programs optimized for minimal quantity lubrication technology
- **Switching function** for power outputs for valves such as pneumatic part holder 24 V DC / 3.6 W
- **Digital inputs / outputs** for automation with pre-assigned functions

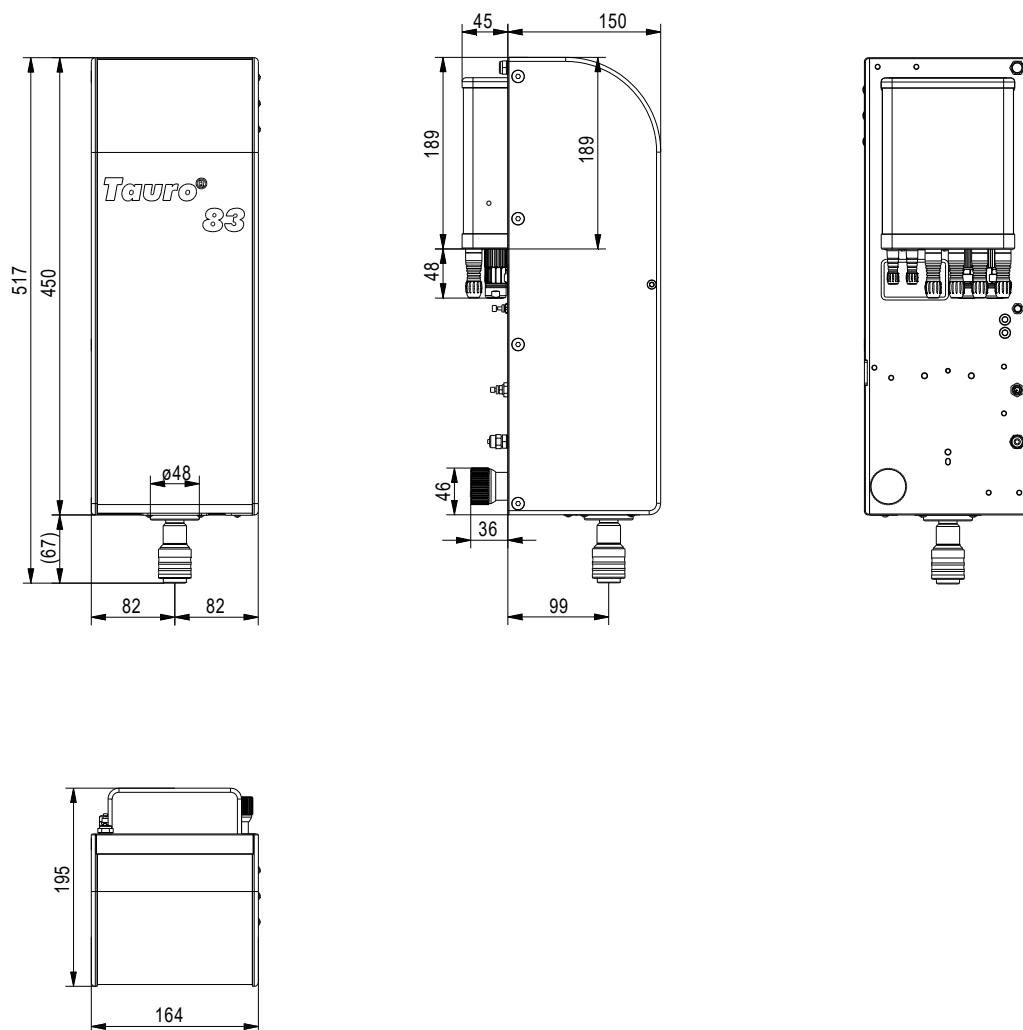


Fig.: View of the thread drive unit **Tauro 83E**

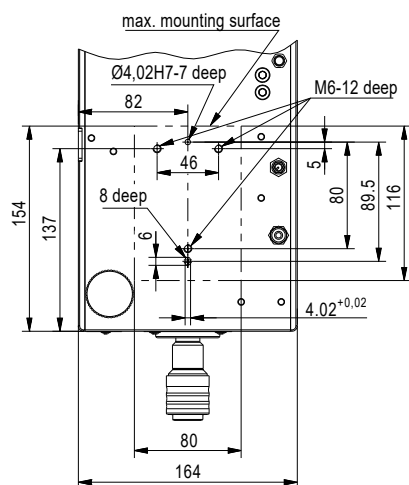


Fig.: Flange dimensions of the drive unit **Tauro 83E**

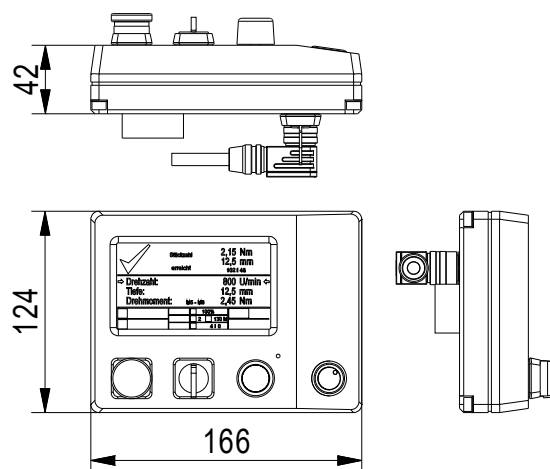


Fig.: View of the operating panel **Tauro 83E**

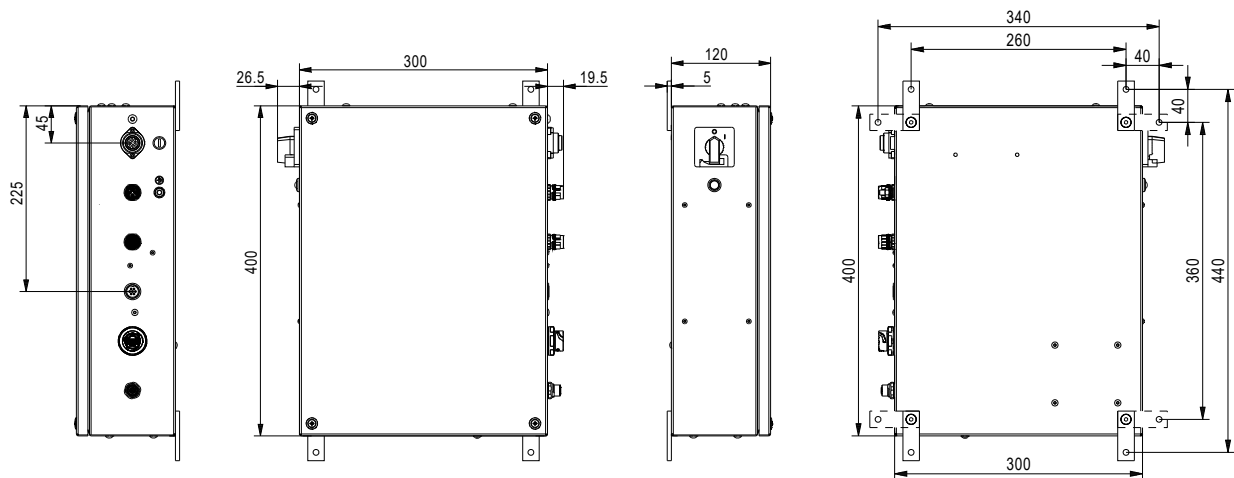


Fig.: View of the control unit **Tauro 83E** with fixation to wall

Options / Accessories:

- Quick change inserts size 1
- Collet holder ER25
- Collet inserts ER25
- Collet holder ER20 with axial compensation +/- 0.7 mm
- Collet inserts ER20
- Height adjustment (column) with and Machine pedestal
- Minimum lubricant unit 2V with lubricant pulse and air pulse
- Minimum lubricant unit 3V with lubricant pulse, air pulse and air cleaning pulse
- Signal light column green, yellow, red and horn for quality evaluation
- Additional push buttons selection for parameter data base
- Key switch with locking of the user interface
- Connection for external operation lock on operating unit (input 24 VDC)
- Connection for external emergency stop and motor lock on control unit
- TauroView / Flash / Read software for PC to visualize the required torque and optimize the processing parameters and Reading out the data in the event of a fault.
- Customized machine software
- Custom Modbus for automation
- Customized cable lengths
- Version for horizontal machining
- Adjustable Multi-Spindle Heads for two threads