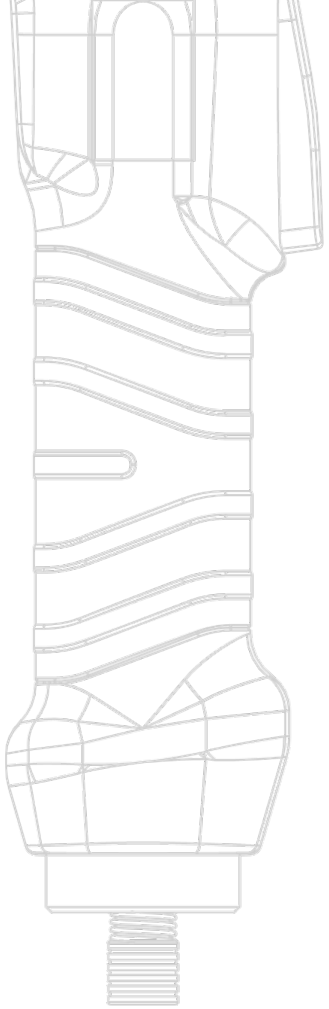


KOLVER®

K-TESTER
& K-TORQUE ANALYZER

TOOLimpex
CZECH REPUBLIC s.r.o.

K-TESTER

Our new torque analyser with an external transducer

Self-powered unit with lithium battery (up to 10 hours)

External transducer with cable connection

K-TESTER

K-TESTER

External rotary transducer with cable connection

Self-powered unit with lithium battery (up to 10 hours)

K-TESTER

K-TESTER

FEATURES

Up to **64 different programs**

Auto-detection of the different external transducers

Static external transducers
(need joint simulator):

1 - 5 - 20 - 50 - 100 Nm
(8.8 - 885 lbf-in)

Different torque options available on request

K-TESTER

FEATURES

Up to **64 different programs**

Auto-detection of the different external transducers

Rotary external transducers:

5 - 25 - 50 - 100 Nm
(42 - 885 lbf-in)

Different torque options up to 500Nm available on request

Torque and angle rotary transducer available soon

FUNCTIONALITY

Works in **program mode or free-run mode**

Torque displaying: **peak value** or **real-time tracking**

Real-time **graph** visualization, both directly on the control unit as well as on any tablet or PC running the **K-Torque Analyzer** companion software

Advanced reporting capabilities, including archiving to USB

TOOL impex
CZECH REPUBLIC s.r.o.

K-TESTER

STATIC MODELS

K-TESTER Complete Kit	Kit part number (reader + KTI transducer + joint simulator)	KTI transducer	Part number	Joint simulator	Part number
K-TESTER KTI1	021406/F1	KTI1 0,1 - 1 Nm	023001/I	M4	240640
K-TESTER KTI5	021406/F5	KTI5 0,3 - 5 Nm	023005/I	M6	240600
K-TESTER KTI20	021406/F20	KTI20 0,5 - 20 Nm	023020/I	M8	240800
K-TESTER KTI50	021406/F50	KTI50 2 - 50 Nm	023050/I	M12 3/8”	240901
K-TESTER KTI100	021406/F100	KTI100 5 - 100 Nm	023100/I	M12 1/2"	240902

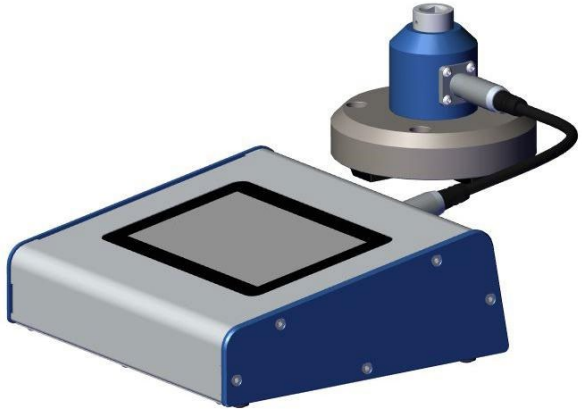
ROTARY MODELS

K-TESTER Complete Kit	Kit part number (reader + KTE transducer + KTEI board)	KTE transducer	Part number	KTEI board part number
K-TESTER KTEI5	021406/R5	KTE5 4.42 – 44.2 lbf-in	022405	020079
K-TESTER KTEI25	021406/R25	KTE25 17.7 – 221 lbf-in	022425	020079
K-TESTER KTEI50	021406/R50	KTE50 44.2 – 442 lbf-in	022450	020079
K-TESTER KTEI100	021406/R100	KTE100 88.5 – 885 lbf-in	022411	020079

JOINT SIMULATORS

Included M4, M6, M8, M12 joint simulators

_ M4 slim with bearings and cup washers (new)
_ M6 & M8 with cup washers
_ M12 with bearings and cup washers (new)



K-TESTER

JOINT SIMULATORS - LOW & MICRO-TORQUE

1 Nm, Slim M4 joint simulator with bearings and cup washers

Code	Model	Max Torque	Input	Output	Included with	Optional on-request
240640	Hex 13-1/4" M4	8.8 lbf-in	Hex 1/4“ male	Hex 13mm female	KT1 KTI1	MiniK1 K1

Microtorque threaded-hole joint simulators, M1.6, M2, M3 (special order only)

Code	Model	Input	Output	Special order, only for
240620	Hex 13/M1.6	Female threads **M1.6**	Hex 13mm female	MiniK1 K1 KT1 KTI1
240621	Hex 13/M2	Female threads **M2**		
240622	Hex 13/M3	Female threads **M3**		

K-TESTER

JOINT SIMULATORS MID TORQUE

5 Nm, M6 threads with cup washers (existing 240600 model)

20 Nm, M8 threads with cup washers (existing 240800 model)

Code	Model	Max Torque	Input	Output	Included with
240600	Hex 13- 1/4“ M6	44 lbf-in	Hex 1/4“ male	Hex 13mm female	MiniK1-5 K1-5 KT5 KTi5
240800	Hex 13- 1/4“ M8	177 lbf-in	Hex 1/4“ male	Hex 13mm female	MiniK20 K20 KT20 KTi20

K-TESTER

JOINT SIMULATORS - HIGH TORQUE

50 & 100 Nm, M12 threads with bearing and cup washers

Code	Model	Max Torque	Input	Output	Included with
240901	3/8” M12	442 lbf-in	Sq 3/8” female	Sq 3/8” male	KT50 KTI50
240902	1/2” M12	885 lbf-in	Sq 1/2” female	Sq 1/2" male	KT100 KTI100

K-TESTER

TARGET TORQUE MODE

In **target torque mode** you can set one or more programs to use, and display & archive all results, statistics and reports

TARGET TORQUE MODE

SETTINGS

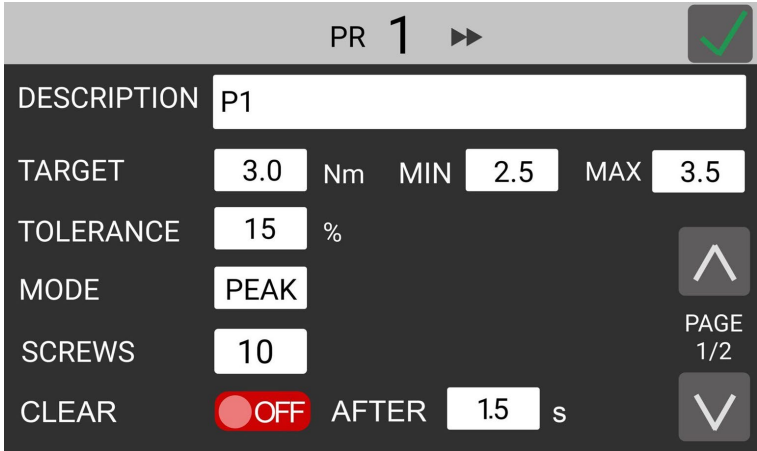
TARGET, MIN, MAX

TOLERANCE (%): used for stats generation

MODE:
peak: shows the max value
track: shows the value in real time

SCREWS: screw count for current program

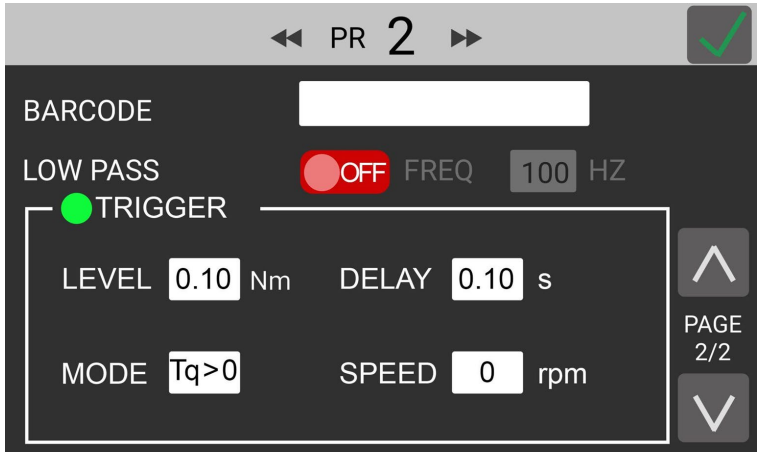
CLEAR: how long until value on display is cleared



TARGET TORQUE MODE

BARCODE: load programs via barcode scan

LOW PASS: noise-reduction filters
ON with lower value leads to smoother graph
OFF is same as ON with 2000 Hz (max frequency)
effect is mostly only evident when looking at the graphs in the included PC software



TARGET TORQUE MODE

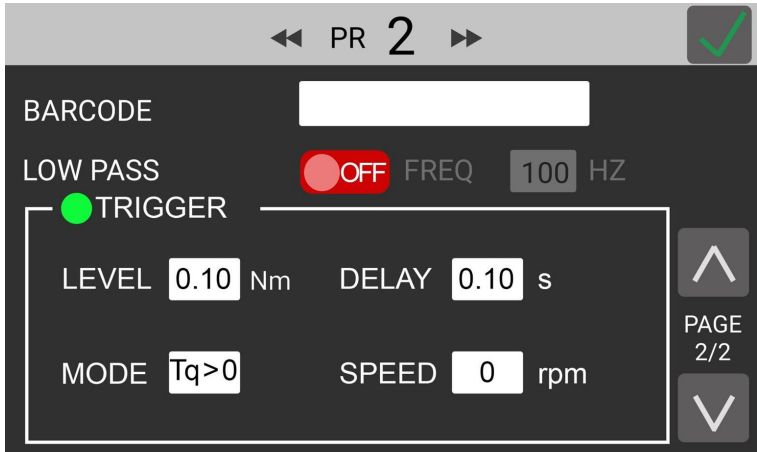
TRIGGER: defines start and stop points for each measurement

level: value above which tightening is considered to have begun. Anything below this threshold is ignored

delay: time interval from the last read value (above the trigger level) after which the tightening is considered finished

mode: display positive or negative values depending on rota

speed: min speed (for rotational transducers only); anything under this speed is ignored.



FREE-RUN MODE

When the target torque is not set (OFF), the device will display the **peak value** encountered

No statistics are shown

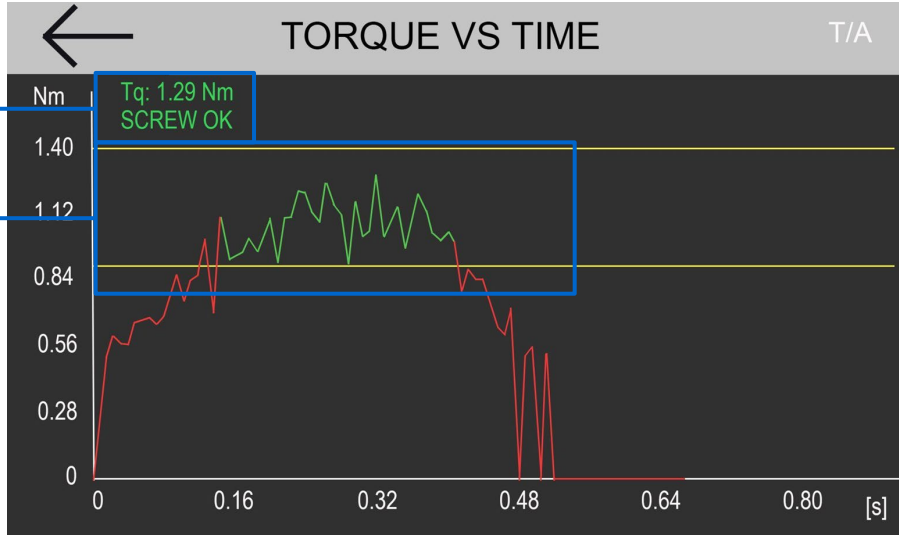
GRAPHS

The graphs is plotted in **real time**

If working in target torque mode,
the **min/max boundaries** are shown

Graph colors:
green when within min/max boundaries
red when outside min/max boundaries

When working in **peak mode**, the maximum value is shown, as well as the OK/NOK result of the tightening operation



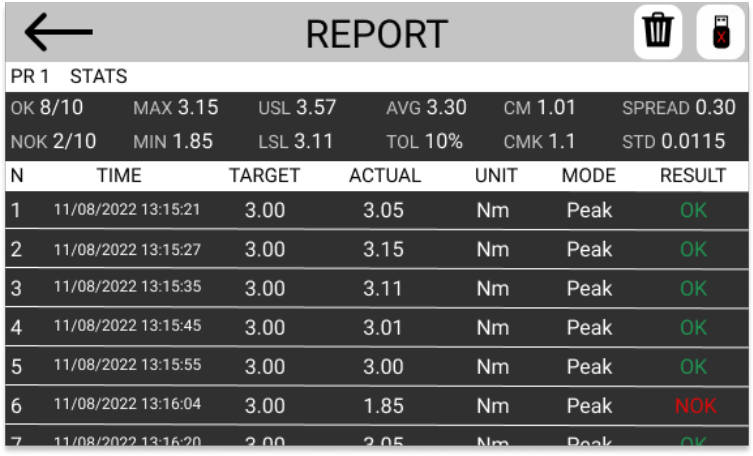
K-TESTER

REPORTING

K-TESTER records all torque values, tightening results and graphs

Reports available for:
_ **current program** (saved to internal RAM memory)
_ **previous programs** (saved to USB) - swiped left and right to move between programs

USB reports can be exported to csv



INTERFACE

Intuitive interface with **touch-screen display**

Previous tightenings

Measured torque

Result

Stats

Current program's description

GENERAL SETTINGS

TARGET TORQUE MODE: toggle on/off to switch between this and free-running mode

MODEL / SERIAL NUMBER / CYCLES: not editable

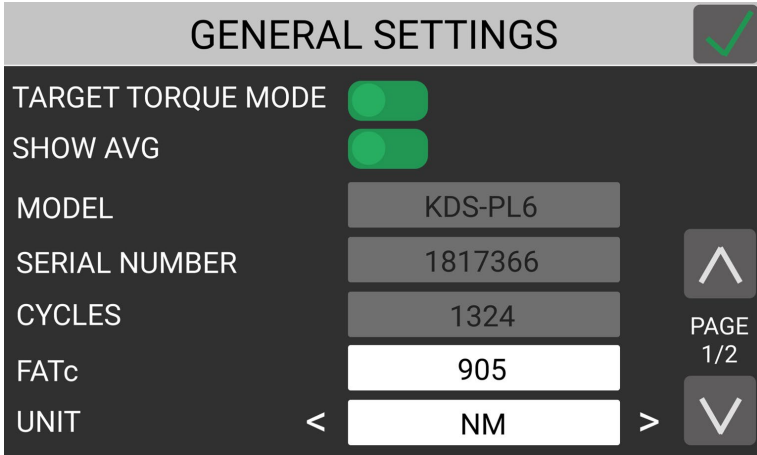
FATc: calibration factor (not editable)

UNIT: cNm, Nm, kgf.cm, lbf.in

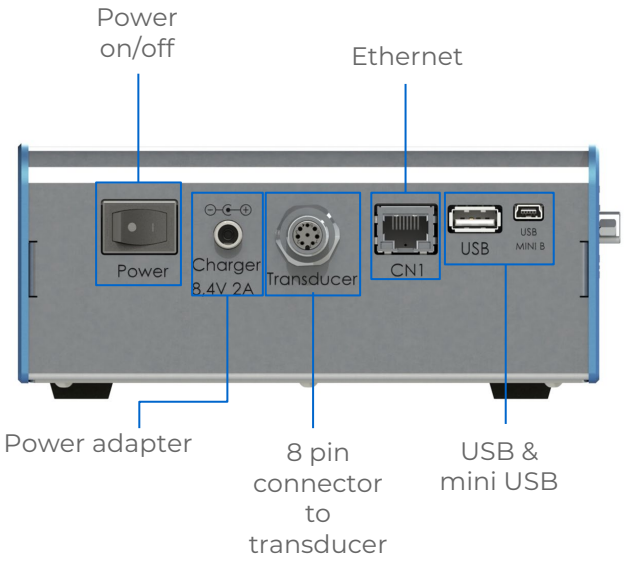
RESET: applies to current screw or entire program

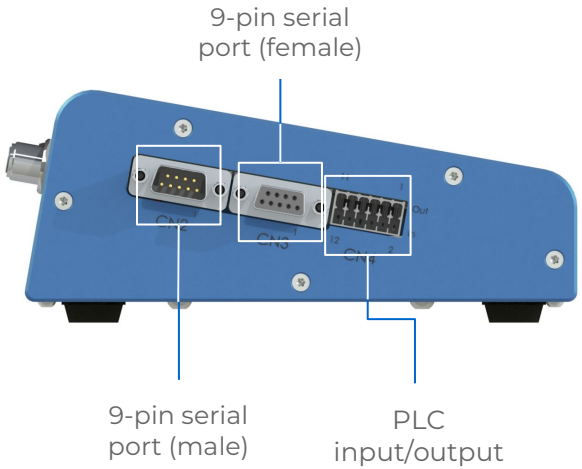
BARCODE

NETWORK SETTINGS



PORTS/CONNECTIONS





K-TORQUE ANALYZER

K-TORQUE ANALYZER is the **companion software** for managing the K-TESTER and visualizing graphs & reports from a tablet/pc connected via ethernet

FUNCTIONALITY

- **real-time displaying and archiving** of data from the K-TESTER
- **analysis and comparison** of tightening operations and torque data
- **reporting**
- managing of **device settings and programs**

K-TORQUE ANALYZER

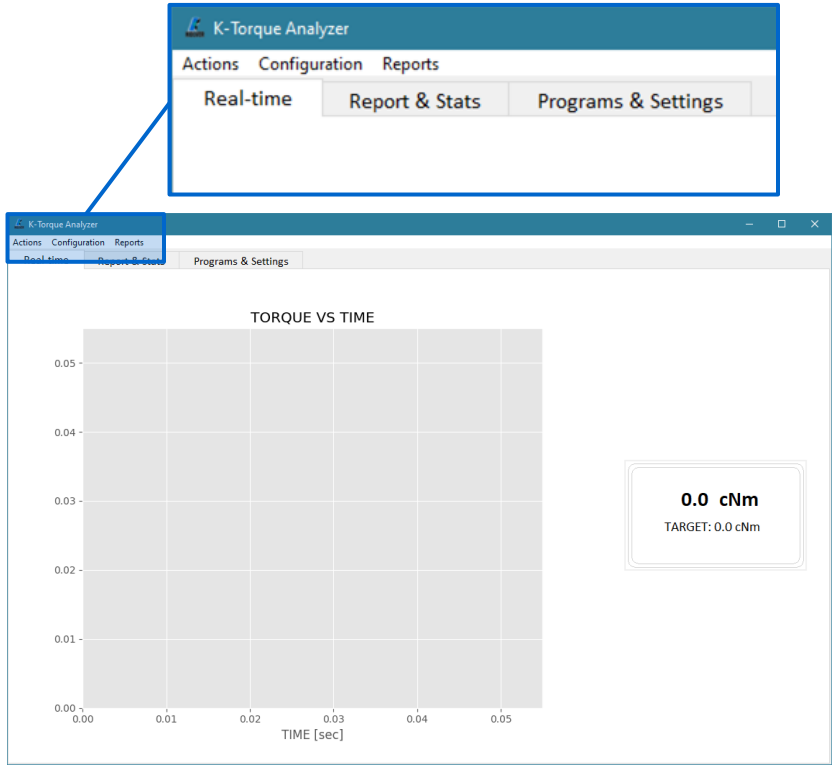
K-TORQUE ANALYZER

INTERACTIONS

ACTIONS
_ connect/disconnect from controller
_ download/upload configuration from/to controller

CONFIGURATION (programs and settings)
_ import from file
_ export to file

REPORTS
_ save last program (i.e. last batch) results to CSV
_ save all results to CSV
_ enable/disable autosave
_ clear all results



K-TORQUE ANALYZER

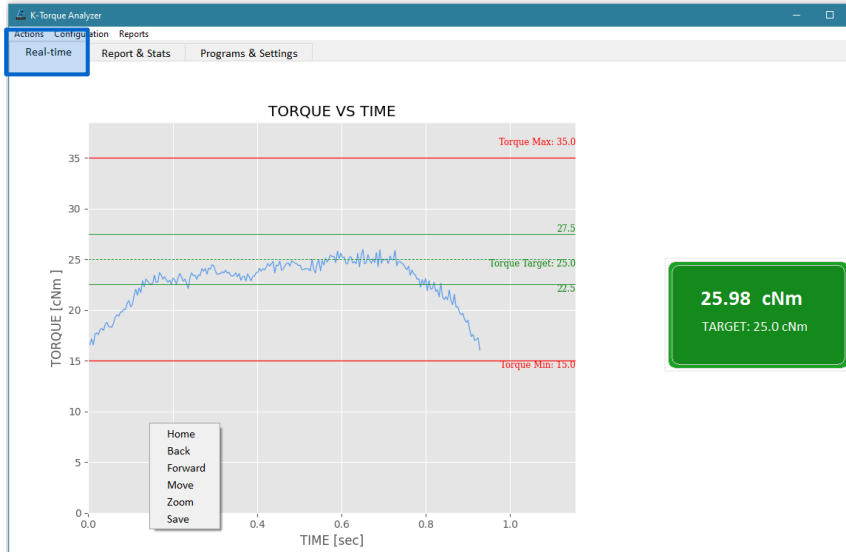
TABS

REAL TIME

Visualize the graph and results in real time
If working with **TORQUE TARGET** mode, relevant information such as min/max limit is displayed on the screen

Right-click on graph to navigate the graph via the available **functions**:

_ **Home**: return to home view
_ **Back**: return to previous view
_ **Forward**: return to last view
_ **Move**: pan the view
_ **Zoom**: select an area to zoom
_ **Save**: save a picture of the graph to a file

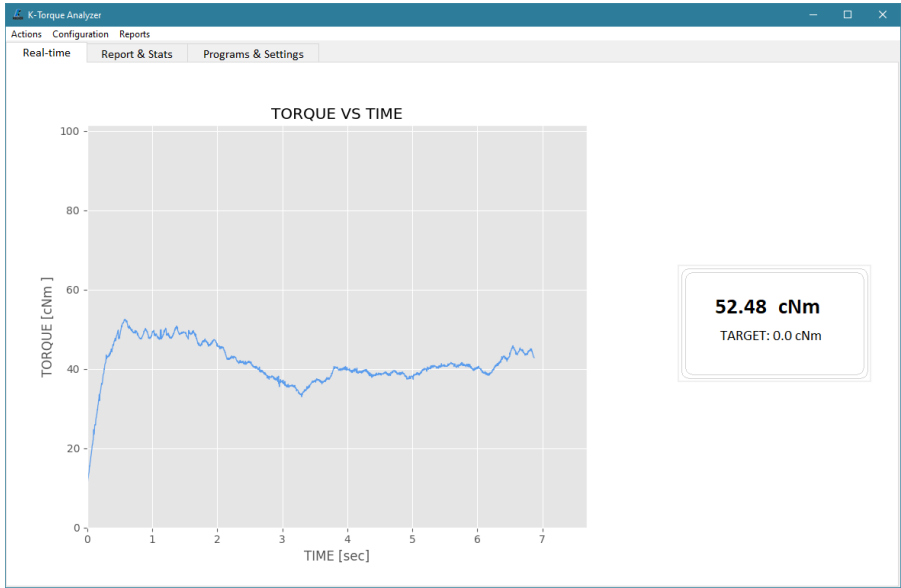


K-TORQUE ANALYZER

With **TORQUE TARGET** mode **OFF**, a plain graph is shown and the peak value is highlighted on the right side of the screen

Right-click on graph to navigate the graph via the available **functions**:

_ **Home**: return to home view
_ **Back**: return to previous view
_ **Forward**: return to last view
_ **Move**: pan the view
_ **Zoom**: select an area to zoom
_ **Save**: save a picture of the graph to a file

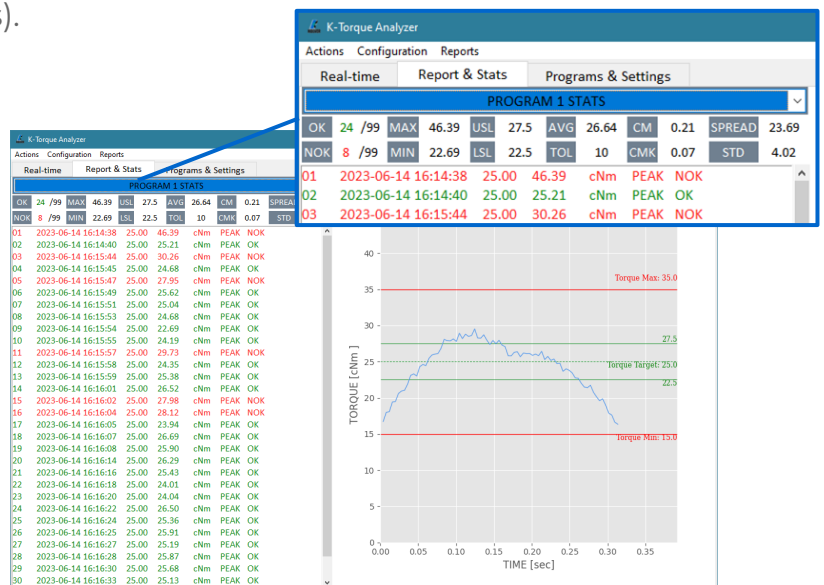


K-TORQUE ANALYZER

K-TORQUE ANALYZER

REPORTS AND STATS

Review all the recorded results so far, relevant statistics such as Cm and Cmk.
Select one or more results to graph and visualize superimposed for comparison (right-click to bring up graph controls).

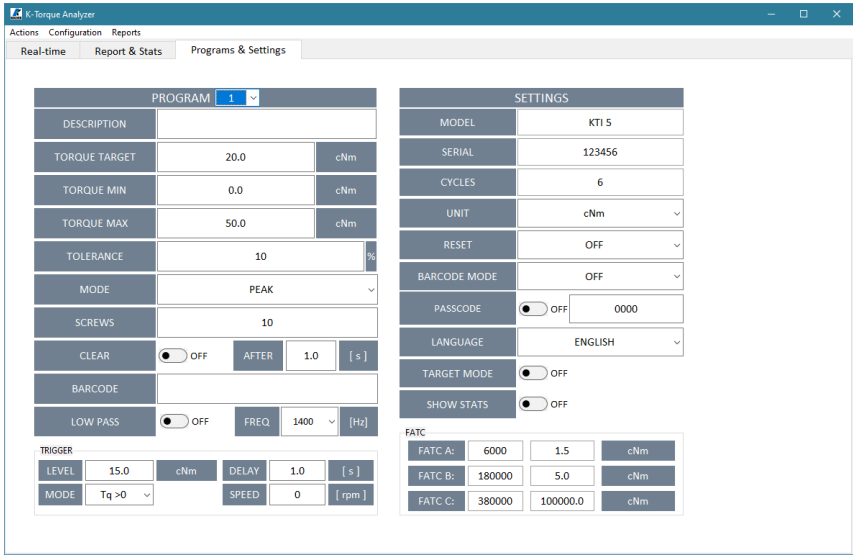


K-TORQUE ANALYZER

K-TORQUE ANALYZER

PROGRAM AND SETTINGS

View and modify all program parameters and settings



KOLVER®

THANKS FOR WATCHING

TOOLimpex CZECH REPUBLIC s.r.o.

Hrabinská 498/19, 737 01 Český Těšín, Česka republika
Mobil: +420 731 018 782