

K-DUCER KDU-1A
new features
v39 & v40

2024

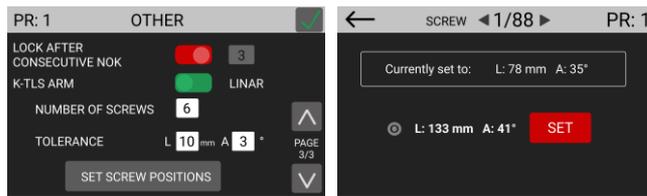
NEW PRODUCT: K-TLS smart positioning arm

New plug-and-play smart positioning arm compatible for the K-DUCER

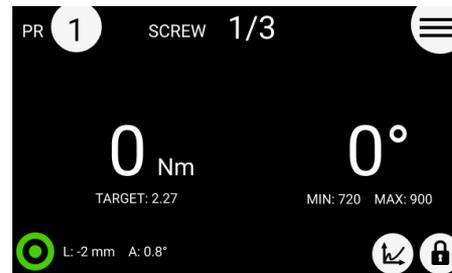
Program screw positions directly in the KDU-1A. No TLS1 controller needed!

Customers with K-DUCER and TLS1 can easily upgrade to the K-TLS by purchasing only the new K-TLS adapter P/N 020049 and upgrading the KDU-1A firmware to v40

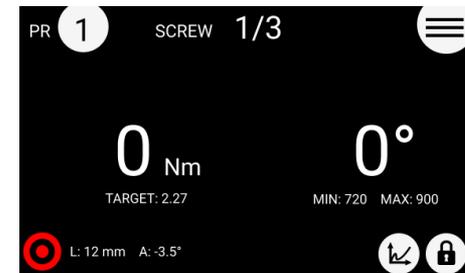
New customers can order K-TLS positioning arms, plug-and-play with the K-DUCER



Setting screw positions



Arm located at saved position:
screwdriver enabled



Arm outside saved position:
screwdriver disabled

AUTOMATIC HARD JOINT DETECTION



Soft joint



Hard joint

PR 1 SCREW 1/5

Hard joint Screw

3.30 Nm
TARGET: 3.00 Nm

945°
MIN: 9000 MAX: 12000

✓ SCREW OK
HARD JOINT DETECTED

RESET

✓ SCREW OK
HARD JOINT DETECTED

PR 1 SCREW 1/5

Hard jo

HARD JOINT DETECTED
DECREASE DOWNSHIFT
SPEED OR THRESHOLD
TO IMPROVE PRECISION

OK

5°
12000

✓ SCREW OK

RESET

PR 1 SCREW 1/5

Hard jo

HARD JOINT DETECTED
USE 'DOWNSHIFT'
TO IMPROVE PRECISION

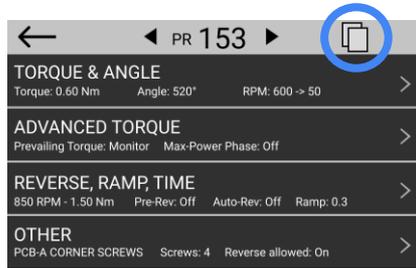
OK

5°
12000

✓ SCREW OK

RESET

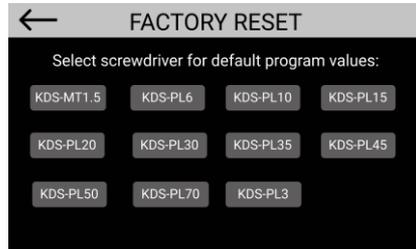
CONVENIENCE FEATURES



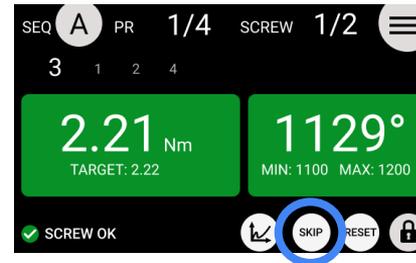
Program menu:
Copy-paste any program to another program



Program menu:
Press & Hold YES to save and return directly to main screen



General settings menu:
Factory reset to default program values for any screwdriver model



Main screen:
Press & Hold SKIP to skip to next program (instead of screw)

Substitute units: assign different torque measurement units to each program (optionally)
Measurement units now include lbf-ft

CONNECTIVITY



Use any two ethernet protocols simultaneously:
Modbus TCP (incl. K-Expand) + Open Protocol
Modbus TCP + ToolsNet
Open Protocol + ToolsNet

Support for Open Protocol MIDs 2500 & 2501: read and modify program parameters

Updated API for C# (NuGet) and library for Siemens S7 PLC

10x faster configuration download from KDU to K-Expand