

Uverenje o etaloniranju



SLOVENSKA
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SIST EN ISO/IEC 17025
LK-008



LOTRIČ
METROLOGY



Calibration Certificate

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226-115-12-1

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4

Naručilac
Applicant E-PROJECTING MM d.o.o.
Mokranjčeva 16, 34000 Kragujevac

Merilo
Measure Moment ključ
Torque wrench

Identifikacioni broj
Identification number C200936021

Sledivost
Traceability Prikazani merni rezultati su sledivi do nacionalnih etalona, a time do međunarodnih etalona SI jedinica.
The reported measurement values are traceable to national standards and thus to internationally supported realizations of the SI-units.

Datum etaloniranja
Date of calibration

18.7.2012

Izveo / Performed by

Marija Demšar

Internal digitally signed by
Marija Demšar
Int. LOTRIČ = MarDe

Datum odobrenja
Date of approval

27.7.2012

Odobrio / Approved by

Mitja Lotrič

Direktor kontrolnega organa
Inspection body manager

Digitally signed by
MITJA LOTRIČ
Date: 2012.07.27
09:56:51 +02:00



Ovaj dokument se ne sme objaviti ili proslediti ako nije u celosti

This document may not be published or forwarded other than in full.

LOTRIČ d.o.o., Šalca 163, SI-4227 Sulco ☎ +386 4 517 07 00 📠 +386 4 517 07 07 ✉ info@lotric.si 🌐 www.lotric.si

This certificate is made using original software

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Podaci o merilu

Measure Information

Proizvođač <i>Manufacturer</i>	Unior	Tip <i>Type</i>	615485 264
Minimum <i>Minimum</i>	2 Nm	Maksimum <i>Maximum</i>	24 Nm
Najmanji podeljak <i>Minimum interval</i>	0,1 Nm		
Klasa tačnosti <i>Accuracy class</i>	Tip II - moment ključ sa podešavanjem momenta. <i>type II - adjustable torque tool.</i>		
Klasifikacija <i>Classification</i>	Klasa A - moment ključ sa podešavanjem, sa skalom ili prikazivačem. <i>Class A - wrench, adjustable, graduated or with display.</i>		

Metoda etaloniranja

Calibration method

Etaloniranje je izvedeno prema postupku opisanom u uputstvu ML10N70 i ML10M71.

Calibration was performed following procedure ML10N70 and ML10M71.

Mesto etaloniranja

Place of calibration

LOTRIČ d.o.o., Laboratorij 2.01, Selca 163, 4227 Selca

Uslovi okoline

Environmental conditions

	od <i>from</i>	do <i>to</i>	Dozvoljeno odstupanje u trenutku merenja <i>Tolerance during measurements</i>
Temperatura vazduha (°C) <i>Air temperature</i>	22,15	23,13	+/- 1

Korišćeni referentni etaloni

Reference standards used

K019-10816

Stanje merila pre podešavanja

Measure status before adjustment

Podešavanje merila nije bilo potrebno.

Adjustment of measure was not required.

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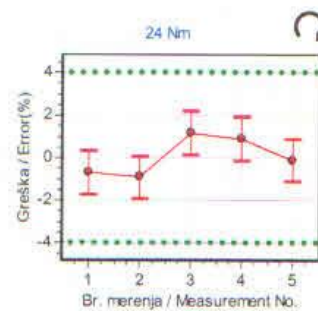
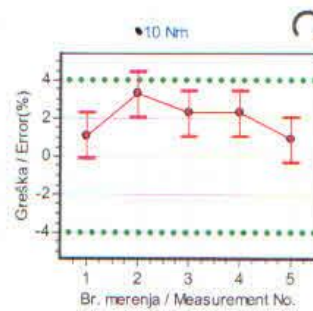
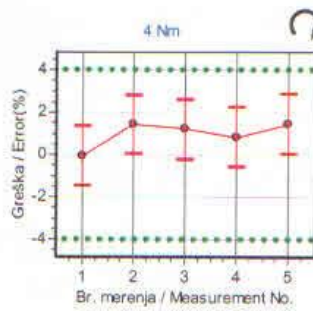
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Rezultati merenja Measurement results

Smer Direction	Referentna vrednost Reference value (Nm)	Pokazivanje merila Measure indication (Nm)	Greška Error (Nm) (%)		NDG MPE (%)	Merna nesigurnost Uncertainty (%)
↻	4	3,96	0,04	1,0	4,0	1,4
↻	10	9,80	0,20	2,0	4,0	1,2
↻	24	23,98	0,02	0,1	4,0	1,0



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Izjava o usaglašenosti

Statement of compliance

Najveća dozvoljena greška (NDG) određena je prema standard SIST ISO 6789. Uzimajući u obzir proširenu mernu nesigurnost, rezultati merenja se nalaze UNUTAR NDG. Ova izjava je zasnovana na 95% intervala verovatnoće za proširenu mernu nesigurnost.

Maximum permissible error (MPE) is determined according to standard SIST ISO 6789. The measurement results are WITHIN the MPE when the measurement uncertainty is taken into account. The statement is based on a 95% coverage probability for the expanded uncertainty.

Izjava

Statement

Prikazani merni rezultati i pripadajuća merna nesigurnost odnose se samo na izmerene vrednosti u trenutku merenja i ne impliciraju dugoročnu stabilnost.

The measurement results and uncertainties quoted refer only to the measured value at the time of measurement and carry no implication regarding the long term stability.

Merna nesigurnost

Uncertainty

Prikazane vrednosti proširene merne nesigurnosti predstavljaju vrednosti standardne devijacije merenja pomnožene sa faktorom poverenja $k=2$, što u slučaju normalne raspodele greške merenja odgovara nivou poverenja od približno 95%. Standardna merna nesigurnost je izračunata u skladu sa EA publikacijom EA-4/02.

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty of measurement has been determined in accordance with EA Publication EA-4/02.

