



T/2054



دقت سنج آسیا

صادره از آزمایشگاه دقت سنج آسیا

Issued by Deghat Sanj Asia CO. Standard Laboratory

Calibration Date:	1402.03.31
Due Date(suggestion):	1403.03.31
Certificate No. :	40220.430.04

LABORATORY MANAGER	TECHNICAL MANAGER	CALIBRATED BY

Customer:

تراکتور سازان کاسپین

Address:

-

Equipment Specification:

Name	Serial No	Part No	Range	Resolution	Manufacturer	Model
Torque meter	-	-	70...350 N.m	1 N.m	APPEX	-

Calibration Conditions:

Reference Equipment	Manufacture	Model	Certificate No
Torque Tester	USA	1000 Lb.ft	B1302/99/2
Torque Tester	USA	600In.Lb	B1302/99/3

Environment Condition:

Ambient Temperature	(18 to 28 °C) ± 1 °C
Humidity	Max 50% RH

Calibration Method

Calibration Is Performed In Comparison With References IDS 356

Traceability

The Reference (s) Traces To An Accredited Calibration Laboratory Up To Behine Sanjesh Azma lab.

Uncertainty

Uncertainty of measurements calculated in confidence level of 95 % with the coverage factor of K=2

Calibration Result :

UUC Setting N.m	REF Average N.m		Permissible Error	U95%
	READING	As %		
20% OF RANGE 70	69.8	0.29	±0.6 N.m	±1.85 %RDG
60% OF RANGE 210	204.4	2.74	±2.1 N.m	
100% OF RANGE 350	338.9	3.28	±3.6 N.m	

UUC: Unit Under Calibration

REF: Reference

Result Error:

- All of the errors are within the range of permissible error.
- Device is Accepted in calibration procedure.

End of Calibration Cert

- 1- This document is a certificate of calibration and it is not a certificate of Conformity.
- 2- This certificate shall not be published or reproduced other than in full.
- 3- This Certificate Is not valid without special stamp of issuant laboratory On every pages
- 4- The user must act in order to recalibrate during a specified period of time

این مدرک یک گواهینامه کالیبراسیون است و گواهی انطباق نمی باشد.

۲- هرگونه نسخه برداری از این گواهی باید بطور کامل و از تمامی صفحات باشد

۳- گواهینامه فوق بدون مهر برجسته آزمایشگاه (در کلیه صفحات) ، فاقد اعتبار می باشد .

۴- استفاده کننده باید در فاصله زمانی معین نسبت به کالیبراسیون مجدد اقدام نماید.

صفحه 1 از 1

تاریخ بازنگری : 92/11/01

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Calibration Certificate



T/2054

دقت سنج آسیا

صادره از آزمایشگاه دقت سنج آسیا

Issued by Deghat Sanj Asia CO. Standard Laboratory

Calibration Date:	1402.03.31
Due Date(suggestion):	1403.03.31
Certificate No. :	40220.430.03

LABORATORY MANAGER	TECHNICAL MANAGER	CALIBRATED BY
S. Aliabadi	Y. Hedayatifar	Y. Hedayatifar

Customer:	تراکتور سازان کاسپین
Address:	-

Equipment Specification:

Name	Serial No	Part No	Range (request)	Resolution	Manufacturer	Model
گونیا	-	-	-	-	ACIER	-

Calibration Conditions:

Reference Equipment	Manufacture	Model	Certificate No
Gauge Block Set(87 pieces)	Insize	-	00-1014
Surface Plate	-	-	NC 98-61-04
Granit Rule	-	-	D125-9211
Digital Caliper	LG	-	9910-01-03

Environment Condition:

Ambient Temperature	20±2 °C
Humidity	35% - 55% RH

Calibration Method

Calibration Is Performed In Comparison With References IDS 379.

Traceability

The Reference (s) Traces To An Accredited Calibration Laboratory Up To NAHAL & MEHR & DSA lab .

Uncertainty

Uncertainty of measurements calculated in confidence level of 95% with the coverage factor of K=2

Calibration Result :

Item	Measuring Surface	Error in Orthogonality measuring(μm)	U95%(μm)
1	Outside	95	±1.91
2	Inside	70	

Item	lever	Max Error in flatness (μm)	U95%(μm)
1	Large	50	±0.522
2	Small	-	

Item	lever	Max Error in Parallel (μm)	U95%(μm)
1	Large	0.01	±1.57
2	Small	-	

Result Error :

- The Permissible error value is determined by user measuring management system.

End of Calibration Cert

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2- This certificate shall not be published or reproduced other than in full.

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3- This Certificate Is not valid without special stamp of issuant laboratory On every pages

۳- گواهینامه فوق بدون مهر برجسته آزمایشگاه (در کلیه صفحات) ، فاقد اعتبار می باشد .

4- The user must act in order to recalibrate during a specified period of time

۴- استفاده کننده باید در فاصله زمانی معین نسبت به کالیبراسیون مجدد اقدام نماید.

صفحه: 1 از 1

تاریخ بازنگری: 92/11/01

شماره بازنگری: 00

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Calibration Certificate



صادره از آزمایشگاه دقت سنج آسیا

Issued by Deghat Sanj Asia CO. Standard Laboratory



T/2054

Calibration Date:	1402.03.31
Due Date(suggestion):	1403.03.31
Certificate No. :	40220.430.02

LABORATORY MANAGER	TECHNICAL MANAGER	CALIBRATED BY
S.Aliabadi	Technical Manager Y.Hedayatifar	Y.Hedayatifar

Customer:	تراکتور سازان کاسپین
Address:	-

Equipment Specification:

Name	Serial No	Part No	Range (request)	Resolution	Manufacturer	Model
Master tape measure	-	-	Up to 5 m	1mm	GRIPP	-

Calibration Conditions:

Reference Equipment	Manufacture	Model	Certificate No
Measuring Tape	BMT	-	B 1302/97/4
Microscope Scale	-	-	99476-10

Environment Condition:

Ambient Temperature	20±2 °C
Humidity	35% - 55% RH

Calibration Method

Calibration Is Performed In Comparison With References IDS 368.

Traceability

The Reference (s) Traces To An Accredited Calibration Laboratory Up To SEPEHR & BEHSA lab.

Uncertainty

Uncertainty of measurements calculated in confidence level of 95% with the coverage factor of K=2

Calibration Result :

Item	Ref (mm)	UUC (mm)	Error (mm)	GRADE	U95%
1	500.8	500	-0.8	II	±0.58
2	1000.8	1000	-0.8		
3	1500.9	1500	-0.9		
4	2000.9	2000	-0.9		
5	2501.2	2500	-1.2		
6	3001.3	3000	-1.3		
7	3501.5	3500	-1.5		
8	4001.5	4000	-1.5		
9	4501.6	4500	-1.6		
	5001.6	5000	-1.6		

Item	UUC (mm)	Permissible Error(mm)
Straightness of Scale Side	1	6

Item	UUC (mm)	Standard Range (mm)
Uprightness	11700	Up to 1250

PERMISSIBLE ERROR:

GRADE 1: ± (0.2 + 0.1 L(m)) mm

GRADE 2: ± (0.25 + 0.15 L(m)) mm

UUC: Unit Under Calibration

REF: Reference

Result Error:

-All of the errors are within the range of permissible error

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- این مدرک یک گواهینامه کالیبراسیون است و گواهی انطباق نمی باشد.
- هرگونه نسخه برداری از این گواهی باید بطور کامل و از تمامی صفحات باشد
- گواهینامه فوق بدون مهر برجسته آزمایشگاه (در کلیه صفحات)، فاقد اعتبار می باشد.
- استفاده کننده باید در فاصله زمانی معین نسبت به کالیبراسیون مجدد اقدام نماید.



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Issued by Deghat Sanj Asia CO. Standard Laboratory

Calibration Date:	1402.03.31
Due Date(suggestion):	1403.03.31
Certificate No. :	40220.430.01

LABORATORY MANAGER	TECHNICAL MANAGER	CALIBRATED BY

Customer:	تراکتور سازان کاسپین
Address:	-

Equipment Specification:

Name	Serial No	Part No	Range(request)	Resolution	Manufacturer	Model
Caliper	-	-	Up to 200mm	0.05 mm	Guanglu	-

Calibration Conditions:

Reference Equipment	Manufacture	Model	Certificate No
Gauge Block Set (87 pieces)	Insize	-	00-1014
Gauge Block Holder	Russia	-	NC 97-36-01

Environment Condition:

Ambient Temperature	20± 2 °C
Humidity	35% - 55% RH

Calibration Method

Calibration Is Performed In Comparison With References IDS-GDL-0358

Traceability

The Reference (s) Traces To An Accredited Calibration Laboratory Up To NAHAL & MEHR lab. .

Uncertainty

Uncertainty of measurements calculated in confidence level of 95 % with the coverage factor of K=2

Calibration Result :

Item	Ref (mm)	UUC (Outside Reading-mm)			Error (Outside Reading-mm)			Permissible Error	U95%
		First	Middle	End	First	Middle	End		
1	10	10.05	10.05	10.05	0.05	0.05	0.05	0.02±mm	0.004L(mm) + 28.70
2	50	50.10	50.10	50.10	0.10	0.10	0.10	0.02±mm	
3	100	100.10	100.10	100.10	0.10	0.10	0.10	0.03±mm	
4	150	150.10	150.10	150.10	0.10	0.10	0.10	0.03±mm	
5	200	200.10	200.10	200.10	0.10	0.10	0.10	0.03±mm	

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Calibration Date:	1402.03.31
Due Date(suggestion):	1403.03.31
Certificate No. :	40220.430.01

Calibration Result :

Item	Ref (mm)	UUC (Inside Reading-mm)	Error (Inside Reading-mm)	Permissible Error	U95%
1	10	10.00	0.00	±0.02mm	0.004L(mm) + 28.70
2	50	50.00	0.00	±0.02mm	
3	100	99.90	-0.10	±0.03mm	
4	150	149.90	-0.10	±0.03mm	
5	200	199.85	-0.10	±0.03mm	

UUC: Unit Under Calibration

REF: Reference

Depth measuring in ZERO point	Error-mm
	0.00

Result Error:

- All of the errors are within the range of permissible error
- Device is Accepted in calibration procedure

End of Calibration Cert