



Enabling Your Ideas

Certificate of Inspection

I5L Slant-PRO™ Lathe

Serial Number:

Made in China

Tormach Inc.
1071 Uniek Drive, Waunakee, WI 53597
Phone: 608.849.8381 / Fax: 209.885.4534

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TD10240_15L_SlantPRO_CertInspect_0316A



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Part A: Certification

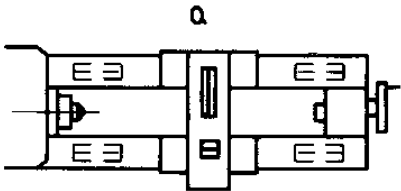
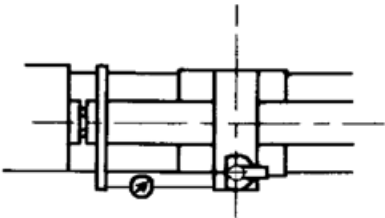
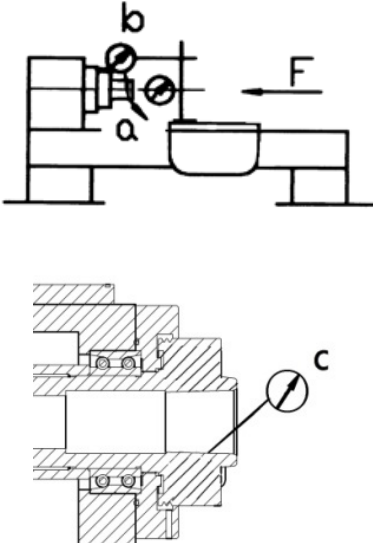
Machinery Certification

Title	Seal or Signature ¹	Date
Inspection Director		
Inspector		
Tormach QA Representative		

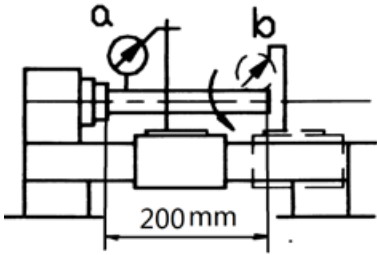
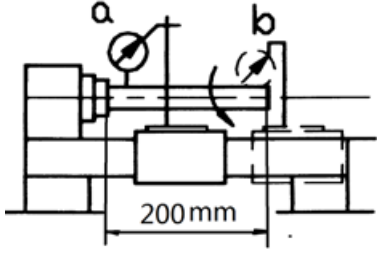
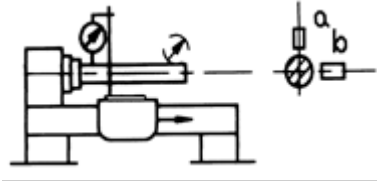
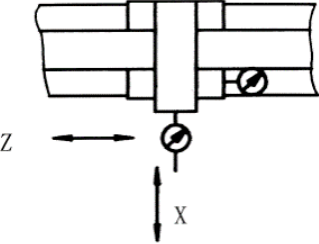
¹The above signatures certify this machine has passed all precision-inspection requirements and is approved for delivery. See attached inspection documentation.

Part B: Quality Detail

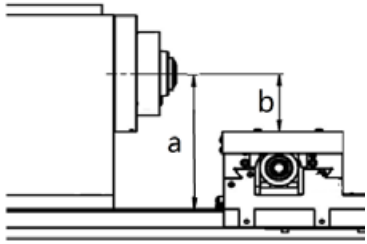
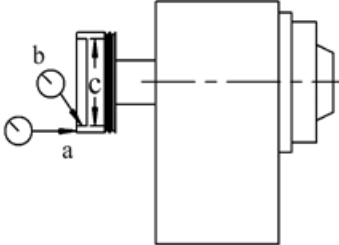
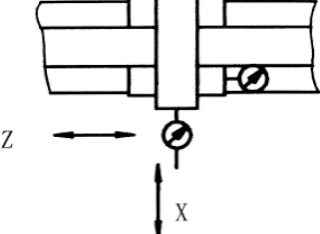
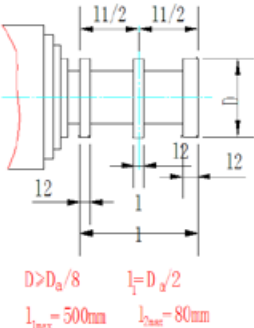
QA I: Precision Inspection

No.	Inspection Sketch	Inspection Item	Allowable Error (mm)	Actual (mm)
G0		a: Leveling the lathe	a: 0.04/300	
G1		Perpendicularity of X-axis to spindle axis	0.03/100	
G2		Run-out at spindle end a: End play of the spindle b: Radial run-out of the OD taper of the spindle c: Radial run-out of the ID taper of the spindle	a: 0.01 b: 0.015 c: 0.01	

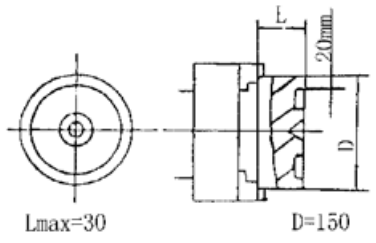
QA I: Precision Inspection

No.	Inspection Sketch	Inspection Item	Allowable Error (mm)	Actual (mm)
G3		Total radial run-out of spindle axis (native taper)	a: 0.01 b: 0.03	
G3-2		Total radial run-out of spindle axis (with 5c insert)	a: 0.01 b: 0.03	
G4		Parallelism of the spindle axis to motion of the Z-axis	a: 0.03/200 (only upward deviation permitted) b: 0.03/200 (only forward deviation permitted)	
G5		Forward/reverse lost motion of travel a: X-axis b: Z-axis	a: 0.03 b: 0.04	

QA I: Precision Inspection

No.	Inspection Sketch	Inspection Item	Allowable Error (mm)	Actual (mm)
G6		a: Distance from bed guide to spindle center b: Distance from table surface to spindle center	a: 190 +0.30/-0 b: 80.15 +.10/-0	
G7		Spindle drive pulley a: Perpendicularity of pulley face to axis rotation b: Total radial run out of inner pilot on pulley c: Diameter dimension of inner pilot	a: 0.05 b: 0.1 c: 90.2 +/- 0.1	
G8		Axis repeatability a: X-axis b: Z-axis	a: 0.015 b: 0.015	
PI	 <p> $D > D_a/8$ $l_1 = D_a/2$ $l_{max} = 500mm$ $l_{min} = 80mm$ </p>	Accuracy of finishing outside circle a: Cylindricity b: Roundness	a: 0.01/50 b: 0.005	

QA 1: Precision Inspection

No.	Inspection Sketch	Inspection Item	Allowable Error (mm)	Actual (mm)
P2		Planeness of finishing end face	0.025/100	

QA 2: Function/Appearance

No.	Test Name	Description	Completed
T1	E-stop Switch	Check for function	
T2	Spindle Direction	Wheel spins counterclockwise when viewed from front	
T3	Power Disconnect	Check for function	
T4	X Limit Switch	Check for function	
T5	Z Limit Switch	Check for function	
T6	Smooth Operation	X, Z, spindle operate smoothly; no unusual noise or vibration	
T7	Spindle Encoder	Check for proper function	
T8	Safety Signs	Safety sign 34071 is installed in correct location	
T9	Information Signs	Decals are installed in correct locations	
T10	Paint Quality	Paint meets appearance requirements	



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QA 3: Packing List

No.	Name ¹	Quantity	PN
1	Foot Spacers	4	34342
2	Foot Pads	4	34343
3	Foot Threaded Studs, Nuts, and Washers	4 each	—
4	High Speed Pulley	1	33229
5	Pulley Set Screw	1	34331
6	Pulley Safety Wire	1	—
7	Electrical Cabinet Keys	2	—
8	Stand Cabinet Keys	2	—
9	Oil Line Clips and Screws	2	—
10	Screwdriver	2	—
11	Combination Wrenches	5	—
12	Hex Wrench Set	1	—
13	Light Grey Touch-up Paint	1	30571
14	Dark Grey Touch-up Paint	1	30572
15	Coolant Pump with Fitting	1	32746
16	Blue Coolant Hose	1	32833
17	Armored Coolant Hose	1	34362
18	Coolant Adapter	1	32832
19	Coolant Coupling Mount	1	31105

¹These items are stored in the wooden accessory box, located on the right side of the shipping pallet.