

PSG 612 Personal Surface Grinder

Serial Number:

Made in China

Part A: Certification

Machinery Certification

Title	Seal or Signature	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)
GI		Flatness of table surface	X-axis: 0.02 Y-axis: 0.02	
G2		Parallelism of X-axis motion of table to wheel head	0.015	
G3		Parallelism of Y-axis motion of table to wheel head	0.015	



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QA I: Precision Inspection

No.	Inspection Sketch	Inspection Item	Allowable Error (mm)	Actual (mm)
G4		Parallelism of center T-slot to X-axis motion	0.03	
G5		Perpendicularity of X-axis motion to Y-axis motion	0.04	
G6		Wheelhead spindle runout, measured on tapered surface	0.015	
G7		Axial movement of wheel spindle (i.e., end play)	0.015	

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

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QA I: Precision Inspection

No.	Inspection Sketch	Inspection Item	Allowable Error (mm)	Actual (mm)
G8		Parallelism of spindle rotational axis to table surface (6 o'clock and 12 o'clock positions)	0.04/150	
G9		Parallelism of spindle rotational axis to table surface (3 o'clock and 9 o'clock positions)	0.025/150	
GI0		Perpendicularity of Z-axis motion of wheel head to surface of the table in Y-axis direction	0.05/100	

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QA 2: Function/Appearance

No.	Test Name	Description	Completed
TI	E-stop Switch	Check for function	
T2	Wheel On Switch	Spindle drive contactor opens when spindle access door is opened	
Т3	Spindle Direction	Wheel spins in clockwise rotation	
T4	Wheel Off Switch	Spindle drive contactor opens when spindle lockout key switch is operated	
T5	Start/Stop Switch	Check for function	
T6	X Proximity Switch	Check for function	
T7	Y Proximity Switch	Check for function	
Т8	Mode Select Switch	Check each mode for function	
Т9	Speed ← Switch	Check for function	
TIO	Feed \$Switch	Check for function	
TII	Smooth Operation	X,Y, Z and spindle operate smoothly and without unusual noise or vibration	
TI2	T-slot of Work Table	Width of T-slot	
TI3	Safety Signs	Safety sign 33061 has been installed	
TI4	Information Signs	Decals are in correct positions	
T15	Paint Quality	Paint meets minimum quality requirements	

QA 3: Packing List – Standard Accessories

No.	Name ¹	Quantity	PN
I	Cabinet Key	I	_
2	Balancing Arbor	I	35514
3	Machine Foot Threaded Studs	4	35561
4	Diamond Dresser	I	35563
5	Diamond Dresser Base	I	35564
6	Machine Foot Pads	4	35562
7	Grinder Wheel Hubs	I	33279
8	T-slot Clamps	2	35558
9	Adjustable Crescent Wrench	I	_
10	Open Ended Box Wrench	I	31838
П	Spindle Wrench	I	35559
12	Hex Wrenches	4	_
13	Adjustable Spanner Wrench	I	35560
14	Screwdriver	2	_
15	Hex Nuts	4	35283
16	Spindle Nut	I	34049
17	Touch-up Paint	2	-

¹These items are stored in the metal toolbox, located on the right side of the shipping pallet.

QA 4: Packing List - Additional Items (only if purchased)

No.	Name ¹	Quantity	PN
18	Fine Pole Magnetic Chuck	I	33210
19	Chuck Wrench	I	_

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