MANUAL FOR INDASA™ 12,000 RPM 75 mm (3 in) Light Weight RANDOM ORBITAL SANDERS



		eclaration of conformi				
Zona Industrial	INDASA - Indústria de Abrasivos, S.A. Zona Industrial de Aveiro, Lote 46 P.O.Box 3005, 3801-101 AVEIRO PORTUGAL					
		ur sole responsibility that				
		in) LW Random Orbital	•			
	•	on and Specifications" T	•	,		
to which this declaration relates		, .	()		document(s) EN	
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AVEIRO, Jan. 15,2007	J. Mac	hado Lobo, Director	do Lobo, Director			
Place and date of issue	Name	Signature or equiv	walent marking of authorized person			
Operator Instructions Includes – Please Read and Comply, Pro of Tool, INDASA Warranty, Parts Page, F Product Configuration and Specifications Work Stations, Putting the Tool Into Servi Operating - Instructions, Back-Up Pads. Manufacturer/Supplier	arts List, Table, ce,	Important Read these instructions of fore installing, operating, repairing this tool. Keep to instructions in a safe accessible locat	servicing or hese lion.		E	
Manufacture//Supplier	Requi	red Personal Safety	/ Equipment			
INDASA - Indústria de Abrasivos, S.A.					ks	
Zona Industrial de Aveiro, Lote 46 P.O.Bo				1 million		
3005, 3801-101 AVEIRO PORTUGAL Tel: +351 234 303 600 Ear Protection Safety Gloves						
Fax: +351 234 303 605			1			
Recommended Airline	Recomm	nended Maximum		Air Press	ure	
Size - Minimum		Hose Length	Maximum Worki	na Pressure	6,2 bar 90 psig	
10 mm 3/8 in	8 m	25 ft	Recommended I	-	NA NA	
	Please F	Read and Comply	y with			

- 1) General Industry Safety& Health Regulations, Part 1910, OSHA 2206, available from: Superintendent of Documents; Government Printing Office; Washington DC 20402
- Safety Code for Portable Air Tools, ANSI B186.1 available from: American National Standards Institute, Inc.; 1430 Broadway; New York 10018
- 3) Following the provisions of Directive 2006/42/EC
- 4) State and Local Regulations.

Proper Use of Tool

This sander is designed for sanding all types of materials i.e. metals, wood, stone, plastics, etc. using abrasive designed for this purpose. Do not use this sander for any other purpose than that specified without consulting the manufacturer or the manufacturer's authorized supplier.

Do not use back-up pads that have a working speed less than 12,000 RPM free speed. Never use back-up pads that have a weight and/or size different than the machine was specifically designed for.

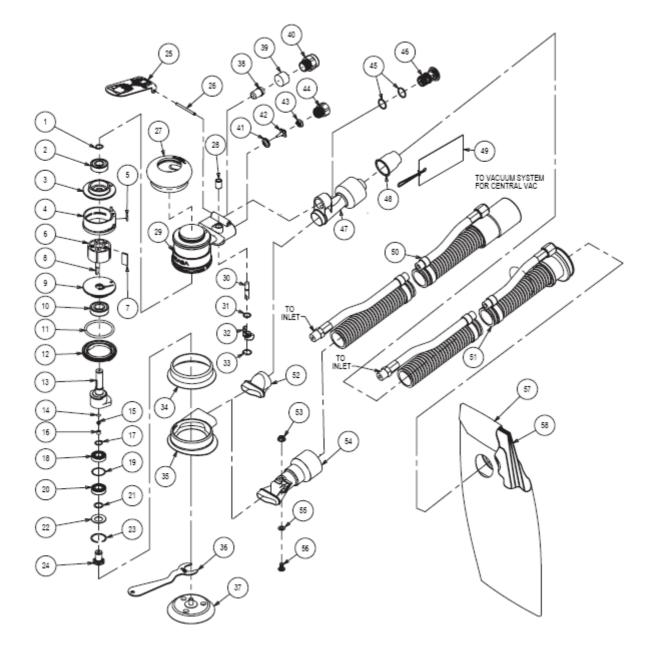


The Warranty

All INDASA Random Orbital Sanders are warranted for defects in materials or workmanship for one year from the date of delivery to the user.

Combined with the INDASA name, this Warranty expresses our total confidence in the superior quality, durability, and performance of the INDASA. Random Orbital Sander. To receive any expressed or implied warranty, tool must be repaired by an authorized INDASA Service Center. To receive warranty, tools must be operated under the conditions as described in the "Putting the Tools into Service" section of this document and be connected to an air supply system as shown in Figure 1. Tools that have been exposed to extreme conditions will be covered under warranty at the sole discretion of INDASA.

Parts Page



ITEM	TORQUE SETTING			
	Nm (inlbf)			
12	6.2 – 7.3 (55 - 65)			
40	1.8 – 2.3 (16 - 20)			
44	6.8 - 8.1 (60 - 72)			
46	4.1 – 5.4 (36 - 48)			
56	3.4 - 3.9 (30 - 35)			

		Parts List					
Item	Réf.ª	Description	Qty				
1	INA0040	RETAINING RING	1				
2	INA0021	BEARING					
3	INB0017	REAR ENDPLATE	1				
4	INA0005	CYLINDER ASSEMBLY (includes Item 4, Pin)	1				
5	INA0042	O-RING	1				
6	INB0005	MACHINED ROTOR	1				
7	INA0010	VANE	5				
8	INA0041	KEY	1				
9	INB0016	FRONT ENDPLATE	1				
10	INA0019	BEARING	1				
11 12	INA0045 INA0001	O-RING LOCK RING	1				
12	INA0001 INB0084	2.5 mm (3/32 in.) ORBIT AirSHIELD™ SHAFT BALANCER FOR 77 mm (3 in.) PADS	1				
13	INA0122	FILTER	1				
14	INA0122 INA0121	VALVE	1				
16	INA0121	RETAINER	1				
17	INA0120	RETAINING RING	1				
18	INA0162	BEARING	1				
19	INA0196	SHIM	1				
20	INA0161	BEARING	1				
21	INA0108	SHIM	1				
22	INA0126	WASHER	1				
23	INA0177	RETAINING RING	1				
24	INB0083	SPINDLE	1				
25	INA1279	LEVER FOR 12,000 RPM (2.5 mm (3/32 in.) Orbit Machines)	1				
26	INA0031	PIN	1				
27	INB0007	65 mm (2 1/2 in.) GRIP (Optional)	OPCIONAL				
	INB0008	70 mm (2 3/4 in.) GRIP (Standard)	1				
	INB0009	75 mm (3 in.) GRIP (Optional)	OPCIONAL				
28	INA0015	SLEEVE	1				
29	INA1278	HOUSING	1				
30 31	INA0008 INA0043	VALVE STEM ASSEMBLY (includes Item 32, O-Ring) O-RING					
31	INA0043 INB0014	SPEED CONTROL	1				
33	INA0039	RETAINING RING	1				
34	INC0046	77 mm (3 in.) NON-VAC SHROUD	1				
35	INC0047	77 mm (3 in.) SuperVAC™ SHROUD	1				
36	INA0146	17 mm PAD WRENCH	1				
37	NA	1 Back-Up Pad supplied with each tool (type determined by model)	1				
38	INA0062	MUFFLER (for 12,000 RPM NV and CV Machines)	1				
39	INA0068	MUFFLER (for 12,000 RPM NV and CV Machines)	1				
40	INA0166	MUFFLER HOUSING	1				
41	INA0009	SEAT	1				
42	INA0007	VALVE	1				
43	INA0014	VALVE SPRING	1				
44	INA0013	INLET BUSHING 1/4 - 18 NPT	1				
45	INA0044	O-RING (Standard on SGV machines)	2				
46	INA0006	SGV RETAINER (Standard on 12,000 RPM SGV machines)	1				
47	INA0410	Ø 28 mm (1 in.) HOSE SuperVAC [™] SGV SWIVEL EXHAUST ASSEMBLY (Standard on SGV)	1				
48 49	INA0778 INA1280	1 in. (28 mm) HOSE SEAL TAG with INSTRUCTIONS for 1 in. (28 mm) HOSE SEAL	1				
49 50	INA1280 INA0392	AIRLINE WITH 1 IN VACUUM HOSE TO 1 IN (28 mm) X 1 1/2 IN FRICTION FIT ADAPTER ASSEMBLY	1				
50	INA0392 INA0412	Ø 28 mm (1 in.) VAC HOSE TO DOUBLE BAG FITTING AND AIRLINE ASSY.	1				
52	INA0412 INC0108	SuperVAC™ SGV SKIRT/SHROUD ADAPTER (Standard on SGV)	1				
53	INC0108 INA0048	NUT	1				
54	INA0040	SuperVAC [™] CV Ø 28 mm (1 in.) SWIVEL EXHAUST ASSEMBLY (Standard on SGV)	1				
55	INA0033	WASHER	1				
56	INA0769	SCREW	1				
57	INC0110	VACUUM BAG (Standard on SGV)	1				
60	INC0109	VACUUM BAG INSERT	1				
		•	<u>. </u>				

Product Configuration/Specifications:12,000 RPM, 77mm (3 in.) Lightweight Random Orbital Sander

Note: All Vacuum machines use \emptyset 28 mm (1 in.) Vacuum Hose Fittings.

All 77 mm (3") machines a	are shrouded with 1/4-20	male pad a	ittachment.				
Orbit	Pad Face	Vacuum Type	Pad Type	Product Net Wt Kg (lb)	Height mm (in.)	Lenght mm (in.)	*Noise Level dB (A) Pressure (Power)	*Vibration Level m/s2 (ft/s2)
		Non Vacuum	Low	0.51 (1.12)	78.7 (3.1)	124.3 (4.9)	80 (82)	2.0 (6.6)
2,5 mm (3/32 in.)	Hook	Central Vacuum	Profile Light	0.57 (1.26)	78.7 (3.1)	186.2 (7.3)	80 (82)	2.0 (6.6)
		Self-Gen Vacuum	Weight	0.59 (1.30)	78.7 (3.1)	193.9 (7.6)	84 (92)	2.6 (8.5)

Specifications subject to change without prior notice.

*The values stated in the table are from laboratory testing in conformity with stated codes and standards and are not sufficient for risk evaluation. Values measured in a particular work place may be higher than the declared values. The actual exposure values and amount of risk or harm experienced to an individual is unique to each situation and depends upon the surrounding environment, the way in which the individual works, the particular material being worked, work station design as well as upon the exposure time and the physical condition of the user. INDASA TM cannot be held responsible for the consequences of using declared values instead of actual exposure values for any individual risk assessment.

Further occupational health and safety information can be obtained from the following websites: http://europe.osha.eu.int (Europe)

http://www.osha.gov (USA)

Work Stations

The tool is intended to be operated as a hand held tool. It is always recommended that the tool be used when standing on a solid floor. It can be in any position but before any such use, the operator must be in a secure position having a firm grip and footing and be aware that the sander can develop a torque reaction. See the section "Operating Instructions".

Putting the Tool into Service

Use a clean lubricated air supply that will give a measured air pressure at the tool of 6.2 bar (90 psig) when the tool is running with the lever fully depressed. It is recommended to use an approved 10 mm (3/8 in) x 8 m (25 ft) maximum length airline. It is recommended that the tool be connected to the air supply as shown in Figure 1 Do not connect the tool to the airline system without incorporating an easy to reach and operate air shut off valve. The air supply should be lubricated. It is strongly recommended that an air filter, regulator and lubricator (FRL) be used as shown in Figure 1 as this will supply clean, lubricated air at the correct pressure to the tool. Details of such equipment can be obtained from your supplier. If such equipment is not used then the tool should be manually lubricated

To manually lubricate the tool, disconnect the airline and put 2 to 3 drops of suitable pneumatic motor lubricating oil such as Fuji Kosan FK-20, Mobil ALMO 525 or Shell TORCULA® 32 into the hose end (inlet) of the machine. Reconnect tool to the air supply and run tool slowly for a few seconds to allow air to circulate the oil. If the tool is used frequently, lubricate it on a daily basis or lubricate it if the tool starts to slow or lose power

It is recommended that the air pressure at the tool be 6.2 bar (90 psi) while the tool is running so the maximum RPM is not exceeded. The tool can be run at lower pressures but should never be run higher than 6.2 bar (90 psi). If run at lower pressure the performance of the tool is reduced.

Operating Instructions

1)Read all instructions before using this tool. All operators must be fully trained in its use and aware of these safety rules. All service and repair must be carried out by trained personnel.

2) Make sure the tool is disconnected from the air supply. Select a suitable abrasive and secure it to the back-up pad. Be careful and

center the abrasive on the back-up pad

3) Always wear required safety equipment when using this tool.

4) When sanding always place the tool on the work then start the tool. Always remove the tool from the work before stopping.

This will prevent gouging of the work due to excess speed of the abrasive.

5) Always remove the air supply to the sander before fitting, adjusting or removing the abrasive or back-up pad.

6) Always adopt a firm footing and/or position and be aware of torque reaction developed by the sander.

7) Use only correct spare parts.

8) Always ensure that the material to be sanded is firmly fixed to prevent its movement.

9) Check hose and fittings regularly for wear. Do not carry the tool by

its hose; always be careful to prevent the tool from being started when carrying the tool with the air supply connected.

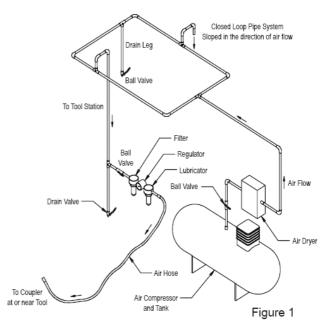
10) Do not exceed maximum recommended air pressure. Use safety equipment as recommended.

11) The tool is not electrically insulated. Do not use where there is a possibility of coming into contact with live electricity, gas pipes, water pipes, etc. Check the area of operation before operation.12) Take care to avoid entanglement with the moving parts of the tool with clothing, ties, hair, cleaning rags, etc. If entangled, it will cause the body to be pulled towards the work and moving parts of the machine and can be very dangerous.

13) Keep hands clear of the spinning pad during use.

14) If the tool appears to malfunction, remove from use immediately and arrange for service and repair.

15) Do not allow the tool to free speed without taking precautions to protect any persons or objects from the loss of the abrasive or pad.



INDASA[™]Back-Up Pads

INDASA back-up pads are perfectly mated for use on the INDASA Sander. Constructed from premium, industrial-quality materials and featuring a riveted fiberglass and steel hub with molded urethane, their durability and precise construction are the ideal complement to the performance of the INDASA Sander. See "Product Configuration/ Specifications" Table for the correct replacement pad for a particular model.

Description
75 mm (3 in.) low profile (1/4-20), non-vacuum, vinyl face
75 mm (3 in.) .) low profile (1/4-20), non-vacuum, hook face
75 mm (3 in.) .) low profile (1/4-20), vacuum, vinyl face
75 mm (3 in.) .) low profile (1/4-20), vacuum, hook face