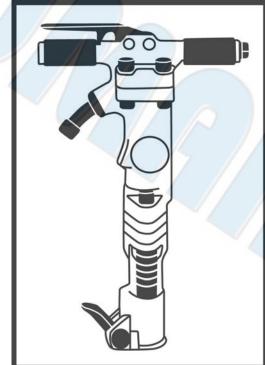
CE SUMAKE PNEUMATIC TOOLS



60Lbs Paving Breaker ST-22181(2)

Specification:

Blow Per Minute	1,400 b.p.m.			
Shank Size	1-1/8"x6 (28mm) 1-1/4"x6 (32mm)			
Piston Diameter	2-1/4" (57.15 mm)			
Piston Stroke	4" (100 mm)			
Air Consumption	58 CFM (1641 L/min)			
Overall Length	25-6/15" (645 mm)			
Air Inlet (PT)	3/4" (19 mm)			
Air Hose (I.D.)	3/4" (1 mm)			
Air Pressure	90 psi (6.3 bar)			
Net Weight	66 lbs (30 kg)			

Noise and Vibration:

Vibration EN ISO 28927-9	Noise EN ISO 15744	Remark
No Load:	Sound Pressure Level No load: 98 dB(A)	Please always wear ear
30 m/s ²	Sound power level No load: 109 dB(A)	protector at environment noise level > 80 dB(A) due to
Uncertainty K= 1.5 m/s ²	Uncertainty K= 3dB	risk of impaired hearing!

SUMAKE INDUSTRIAL CO., LTD

4F,NO.351,Yangguang St.,Neihu District TAIPEI, TAIWAN, ZIP:114-91

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EC DECLARATION OF CONFORMITY
We: SUMAKE INDUSTRIAL CO., LTD.
4F, No. 351, Yangguang St., Neihu District, Taipei City, Taiwan
declare in sole responsibility that the equipment
Equipment : 60LBS PAVING BREAKER
Model/ Serial No. : ST-22181(2)
to which this declaration applies, complies with these normative documents:
Machinery Directive: 2006/42/EC
 and conforms to the following EN standard, EN ISO 12100: 2010
 EN ISO 12100. 2010 EN ISO 11148-4:2012
• EN ISO 11148-4:2012
Name and Signature/Position Date and Place

(M)

Mike Su – Managing Director

2013/6/28

Taipei, Taiwan

ST-22181(2)-D-1503B-SLF

Foreword

Sumake is a manufacturer and exporter of air tools since established. We have devote all our efforts in improving quality and tools' life. As well as the noise and vibration of tools. Bring all of you working efficiences, profits, and enjoy using the tool is our principle.

Features

This air tool is a pneumatic tool that injects high efficiency into manual chipping, riveting, breaking of concrete and asphalt etc. Your care in handling it is, however, important if performance is to be realized over a long period of time. This booklet is prepared to equip you with the knowledge necessary to keep it on the job efficiently.

Operator's instruction

1. Cautions for Use

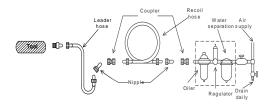
1-1 Air pressure

Maximum performance is displayed at the proper sanding speed, obtainable at a gauge pressure of 6.2 bar. Range-wise, this is an air pressure from 5 to 7 bar (70 to 100 psi)



1-2 Air line

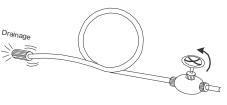
Use a 3/8" air hose between the compressor and the tool. Compressed air is cooled and its water content separated, as soon as the air leaves the compressor.



A portion of the water content, however, is condensed in the piping, and can enter the tool mechanism, and may cause trouble. So, install an air filter and an oiler between the compressor and the tool. Use a 3 HP or larger compressor for each sander.

1-3 Air hose

Clean the hose with a blast of compressed air before connecting the hose to air tool. This will prevent both moisture and dust within the hose from entering the tool and causing possible rust or malfunction. To compensate for unusually long hose (over 25 ft), the line pressure should be increased accordingly.



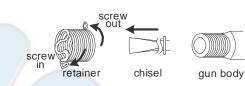
1-4 The approved eye protector, ear-muff, mouth-muffle, and gloves should be worn when operate this tool.

1-5 The working place shall be well ventilated.1-6 Release the on-off device in the case of energy supply failure.

2. Operation, Adjusting And Replacing Method

2-1 Inserting a chisel

First disconnect the air horse from this tool. Insert the desired chisel from the open end of the quick change retainer so that the retainer could hold the protuberance on the chisel shank. Secure the retainer and the chisel to the gun body by screw the retainer on the closed end in the clockwise direction. Loose the retainer and the chisel from the gun body by screw the retainer on the open end in the reverse direction.



2-2 On-off device

Please note that the tool never running unless the insert tool is properly fixed on the gun body. To operate this tool, just push the trigger, which is on the grip, down. The tool continuously reciprocating as one push the trigger down and it stops running as the trigger is released.

For the sake of safety, put it on hanger or on a soft flat pad when not in use. 5. This tool can cause the ejection of particles at chipping or demolishing work, hence the

2-3 Replace and adjusting

There is no user serviceable part inside this tool. Please send the tool to a qualified personnel or our service section to repair or/and replace worn parts.

3. Maintenance

3-1 Lubrication

Before connecting the hose, apply 4 or 5 drops of SAE #10 spindle oil at the air inlet. Use of a thicker oil can lead to reduced performance or malfunction. If a thicker oil is used by accident, wipe it away immediately. Also, every 3 or 4 hours of operation, oiling is necessary.

3-2 Storage

Avoid storing the tool in a location subject to high humidity. If the tool is left as it is used, the residual moisture inside the tool can cause rust. Before storing and after operation, oil the tool at the air inlet with spindle oil and run it for a short time.

3-3 Disposal

If the tool is too seriously damaged to be used anymore, drop it in a resource recycling can. Never drop it into fire.

3-4 Ordering service Parts

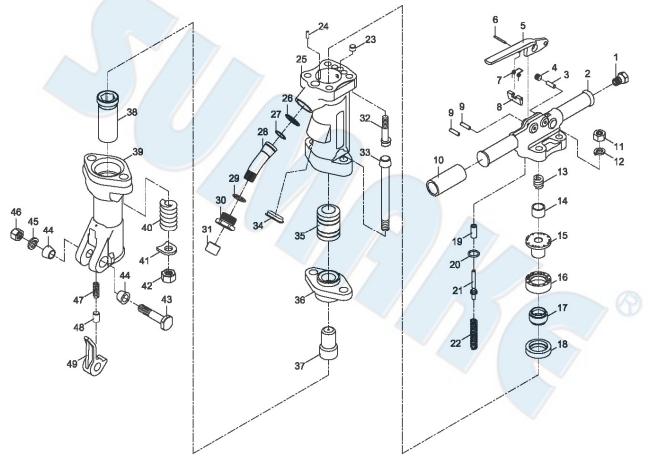
For further operational and handling information or for replacement of parts and components, contact the sale agent from whom you purchased the tool or the service division of our company. * In ordering parts and components, give each part number, name and quantity.

Warning

- 1. This tool is not insulated for coming into contact with electric power source.
- 2. It is forbidden to use this tool in explosive atmospheres and do not put any combustible material near the workpiece since it might emit sparks when working on hard material.
- 3. Check the wear of the insert tool and the retainer before operating this tool.
- **4.** Working with this tool will generate dust, depending on the material being worked on, could be harmful to the operator
- 5. This tool can cause the ejection of particles at chipping or demolishing work, hence the operator shall wear appropriate protective device and do not let other person near the work area.
- 6. The insert tool and the retainer on heavy types are exposed to heavy strains and can after a long period of use break due to fatigue.
- 7. Keep your body balance and beware of the break of the severed workpiece.
- 8. If one needs to use the free hand, although it is a source of vibration damage, we suggest place the hand by holding the tool in the part between the retainer and the grip and do not place the hand on the rear part by pushing the tool. The former posture provides the operator more balance than the latter one.
- **9.** Always disconnect the tool from the air power source when maintenance, placing any insert tool, and not in use.
- 10.Never carry the tool by hose and beware of a whipping compressed air hose.
- 11. The workpiece shall be fixed by proper device.



ST-22181(22182) 60LBS PAVING BREAKER SHANK SIZE: 1-1/8"x6 (28MM) [1-1/4"x6 (32MM)]



PARTS LIST

No.	Parts No.	Description	Q'ty	No.	Parts No.	Description	Q'ty
1	22181-01	Oil Plug	1	26	22181-26	Air Inlet Screen	1
2	22181-02	Back Head	1	27	22181-27	Air Inlet Swivel O-Ring (Ф28.5хФ2)	1
3	22181-03	Felt Oiler (Ø8.5x25L)	1	28	22181-28	Air Inlet Swivel	1
4	22181-04	Oil Control Plug (PT 1/8")	1	29	22181-29	Ο-Ring (Φ29.4xΦ3.1)	1
5	22181-05	Throttle Lever	1	30	22181-30	Air Inlet Swivel Nut	1
6	22181-06	Spring Pin (Ф4x40L)	1	31	22181-31	Rubber Grip	1
7	22181-07	Stop Lever Spring	1	32	22181-32	Back Head Bolt	4
8	22181-08	Stop Lever	1	33	22181-33	Back Head Bolt	2
9	22181-09	Throttle Lever Pin (Φ8x30L)	2	34	22181-34	Rubber Plug	1
10	22181-10	Rubber Grip	2	35	22181-35	Piston Hammer	1
11	22181-11	Back Head Bolt Nut	4	36	22181-36	Tappet Seat	1
12	22181-12	Lock Washer (5/8")	4	37	22181-37	Tappet	1
13	22181-13	Plunger Spring	1/	38	22181-38A	Front Head Bushing [ST-22181]	1
14	22181-14	Plunger	_ 1//	30	22181-38B	Front Head Bushing [ST-22182]	1
15	22181-15	Valve Guide	1	39	22181-39	Front Head	1
16	22181-16	Valve Chest	1	40	22181-40	Front Head Bolt Spring	2
17	22181-17	Automatic Valve	1	41	22181-41	Front Head Bolt Lock Washer	2
18	22181-18	Valve Seat	1	42	22181-42	Front Head Bolt Nut	2
19	22181-19	Throttle Vavle Stem Guide	1	43	22181-43	Steel Retainer Bolt	1
20	22181-20	O-Ring (Ф21.7хФ3.5)	1	44	22181-44	Steel Retainer Bolt Bushing	2
21	22181-21	Throttle Valve	1	45	22181-45	Lock Washer (3/4")	1
22	22181-22	Throttle Valve Spring	1	46	22181-46	Steel Retainer Bolt Nut (3/4"-16UNF)	1
23	22181-23	Cylinder Plug	3	47	22181-47	Steel Retainer Spring	1
24	22181-24	Valve Chest Dowel Pin (Φ1/4"x20L)	1	48	22181-48	Steel Retainer Plunger	1
25	22181-25	Cylinder	1	49	22181-49	Steel Retainer	1