

Instruction manual & spare parts list

CS-PRO 62



CS-PRO 120

CS-PRO SERIES AIR DRIVEN CHISEL SCALERS

1. General Safety and Operation Instruction

1. Unpacking

When unpacking this product, carefully inspect for any damage that may have occurred during transit. Make sure any loose fittings, bolts, etc, are tightened before putting this product into service.

2. This product is a part of a high pressure system and the following safety precautions must be followed at all times along with any other existing safety rules.
3. Read all manuals included with this product carefully. Be thoroughly familiar with the controls and the proper use of the equipment.
4. Only persons well acquainted with these rules of safe operation should be allowed to use the air tool.

Do not exceed maximum operation pressure of the air tool (6.2BAR/90 PSI).

The air tool could explode and result in death or serious personal injury.

5. Do not exceed any pressure rating of any component in the system.
6. Disconnect the air tool from air supply before changing tools or attachments, servicing and during non-operation.
7. Always wear safety glasses during operation.
8. Do not wear loose fitting clothing, scarves, or neck ties. Loose clothing may become caught in moving parts and result serious personal injury.
9. Do not wear jewelry when operation any tool. Jewelry may become caught in moving parts and result in serious personal injury.
10. Do not depress trigger when connecting the air supply hose.
11. Always use attachments designed for use with air powered tools.
Do not use damaged or worn attachments.
12. Never trigger the tool when not applied to a work object. Attachments must be securely attached. Loose attachments can cause serious injury.
13. Protect air lines from damage or puncture.
14. Never point an air tool at oneself or any other person. Serious injury could occur.
15. Check air hoses for weak or worn condition before each use. Make sure all connections are secured.

Release all pressure from the system before attempting to install, service, relocate or performs any maintenance.

16. Keep all nuts, bolts and screws tight and ensure equipment is in safe working condition.

17. Do not put hands near or under moving parts.

18. Air Hose

It is not recommended to install a quick coupler between the hammer and leader (whip) hose. Using fittings or air hoses which are too small can create a pressure drop and reduce the power of the tool. For most of the hammers, using 9.525 mm (3/8") I.D. fittings with 6.35 mm (1/4") NPT threads are recommended. For the others hammer, using 12.7 mm (1/2") I.D. with 9.525 mm (3/8") NPT threads are recommended. Most compressors are shipped with a short, 6.35 mm (1/4") I.D. hose. For proper performance and more convenience, use a 9.525 mm (3/8") I.D. hose. Hoses longer than 15.24 m (50 feet) should have a 12.7 mm (1/2") I.D.

Never carry a tool by the hose or pull the hose to move the tool or a compressor. Keep hoses away from heat, oil and sharp edges. Replace any hose that is damaged, weak or worn.

19. Storage

The scaling hammer must be lubricated before storing. Follow the air cylinder lubrication instructions with an exception to step 4. Only run the scaling hammer for 2 to 3 seconds instead of 20 to 30 seconds because more oil needs to remain in the scaling hammer when storing.

2. Particular Safety Instruction

1. Information of Noise Level

(1)The noise level at the operator's position is about:

Model No.:	A-weighted sound pressure level (L _{pf})	A-weighted sound power level (L _w)	Uncertainty K _{WA}
CS-PRO 62	96.4(dB)	106.5(dB)	3(dB)
CS-PRO 120	97.2(dB)	107.4(dB)	3(dB)

(2)Reference standard :ISO 15744.

(3)Always wear ear protectors during operation.

2. Information of Vibration Level

Model No.:	Vibration Level (m/s ²)	Uncertainty K (m/s ²)
CS-PRO 62	18.9	0.30
CS-PRO 120	18.9	0.23

(2)Reference standard: EN 28927-10.

3. Warnings

- (1)The power tools are not generally insulated for coming into contact with electric power sources.
- (2)The power tools shall not be used in explosive atmospheres unless specially designed for that purpose.
- (3) Special precautions shall be taken when working in explosive atmospheres.
- (4) Working with a percussive tool can generate dust which, depending on the material being worked on, could be harmful to the operator.
- (5)The inserted tool on heavy types of percussive non-rotary power tools, e.g. breakers, is exposed to heavy strains and can after a long period of use break due to fatigue.
- (6) The unexpected tool movement or breakage of inserted tool may cause injuries to the lower limbs, in particular the feet.
- (7) The unsuitable postures may not allow counteracting of normal or unexpected movement of the power tool. A working position shall be adopted which remains stable in the event of a break up of the inserted tool.
- (8) Holding the inserted tool by the free hand can be a source of vibration damage.
- (9) The power tools shall be isolated from the energy source before changing the inserted tool.
- (10) Pay attention to the risk of a whipping compressed air hose.
- (11) Rest after continuous operation.

4. Instructions

- (1) On suitable postures to counteract the effects of a sudden break of the inserted tool.
- (2) Release the start and stop device in the case of an interruption of the energy supply.
- (3) Only lubricants recommended by the manufacturer shall be used.

5. Explanations Of Warning Signs Used For This Tool

		
The operator's instruction must be read before work starts	Hearing protection must be worn	Eye protection must be used or safety glasses worn

6. Application

Power tool driving a rotating spindle on which a bonded abrasive product is mounted.

7. The weight of this tools:

Model No.:	CS-PRO 62	CS-PRO 120
Weight	4.8 kg	6.5 kg

Note : If the weight of this tool exceeds 15 Kgs, the following attention shall be paid to :

- (1) Be sure that you can afford the weight.
- (2) Be sure to wear foot protection, to prevent the risk of impact due to the drop of tool.

3. Maintenance Instruction

1. Lubrication

Proper lubrication is the owner's responsibility. Failure to lubricate the air tool. Properly will dramatically shorten the life of the tool and will void the warranty.

This scaler requires lubrication before the initial use and before and after each additional use.

2. Scaler requires lubrication throughout the life of the tool and must be lubricated in two separate areas the air motor and the scaling mechanism. Follow the outlined procedures.

3. Air Motor Lubrication

The motor must be lubricated daily. An air motor cannot be oiled too often.

Disconnect the hammer from the air supply before lubricating.

1. Disconnect the scaler from the air supply.
2. Turn the hammer upside down.
3. Simultaneously (at the same time), pull the trigger and pour a teaspoon of oil in the air inlet.
Then, push the forward and reverse button in both directions.

After an air tool has been lubricated, oil will discharge through the exhaust port during the first few seconds of operation. Thus, the exhaust port must be covered with a towel before applying air pressure. Failure to cover the exhaust port can result in serious injury.

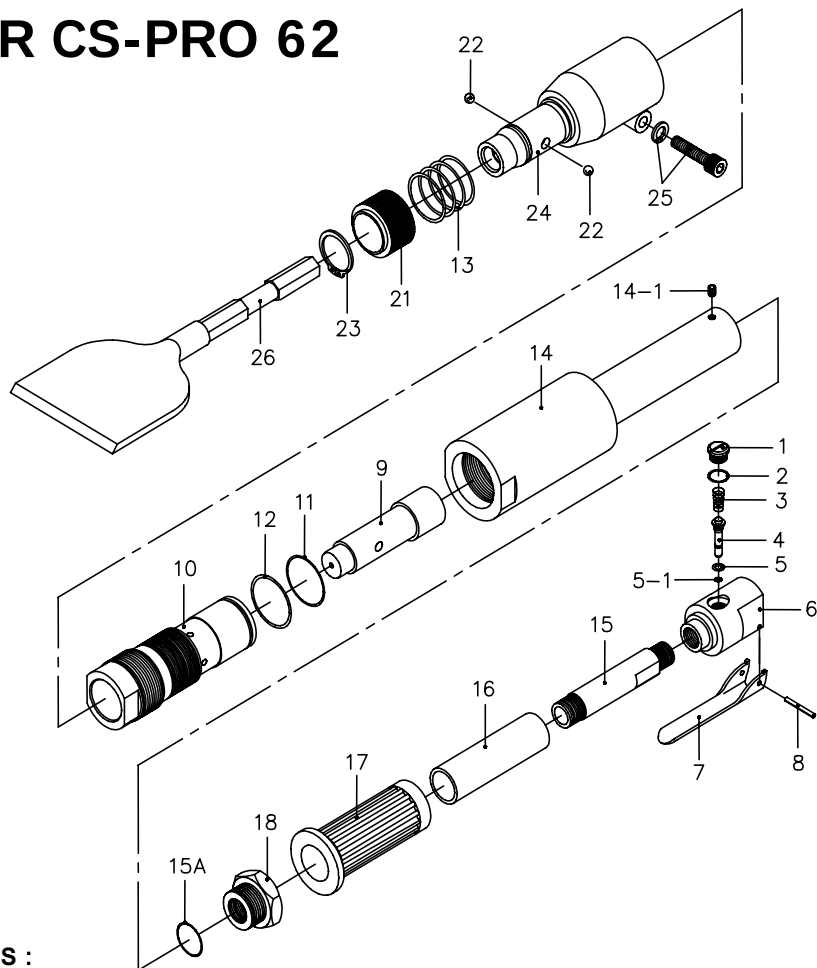
4. Connect the hammer to the air supply and cover the exhaust port with a towel.
Run the scaler, and oil will discharge from the exhaust port when air pressure is applied.
5. Scaling mechanism lubrication
The scaler should be lubricated monthly.

5.

General Troubleshooting Guide

Symptom	Possible Cause(s)	Corrective Action
Tool runs slowly or will not operate	1.Grit or gum in tool. 2.No oil in tool. 3.Low air pressure. 4.Air hose leaks. 5.Pressure drops.	1.Flush the tool with air tool oil, gum solvent, or an equal mixture of SAE # 10 motor oil and kerosene. Lubricate the tool after cleaning. 2.Lubricate the tool according to the lubrication instructions in this manual. 3.Adjust the compressor regulator to tool maximum while the tool is running free. 4.Tighten and seal hose fittings if leaks are found. 5-1.Be sure the hose is the proper size. Long hoses or tools using large volumes of air may require a hose with an I.D. of 12.7 mm (1/2") or larger depending on the total length of the hose. 5-2.Do not use a multiple number of hoses connected together with quick connect fittings. This causes additional pressure drops and reduces the tool power. Directly connect the hoses together.
Moisture blowing out of tool	1.Water in tank. 2.Water in the air lines/hoses.	1.Drain tank. (See air compressor manual). Oil tool and run until no water is evident. Oil tool again and run 1-2 seconds. 2-1.Install a water separator/filter. Note : Separators only work properly when the air passing through the separator is cool. Locate the separator/filter as far as possible from the compressor. 2-2.Install an air dryer.

UNITOR CS-PRO 62



SPECIFICATIONS :

* BLOW PER MINUTE ----- 2200
 * PISTON ----- 28.5×23.8×90
 * HOSE SIZE ----- 3/8"

* LENGTH ----- 1220 MM
 * AIR PRESSURE ----- 90 PSI
 * AIR INLET ----- 1/4" PT(NPT)

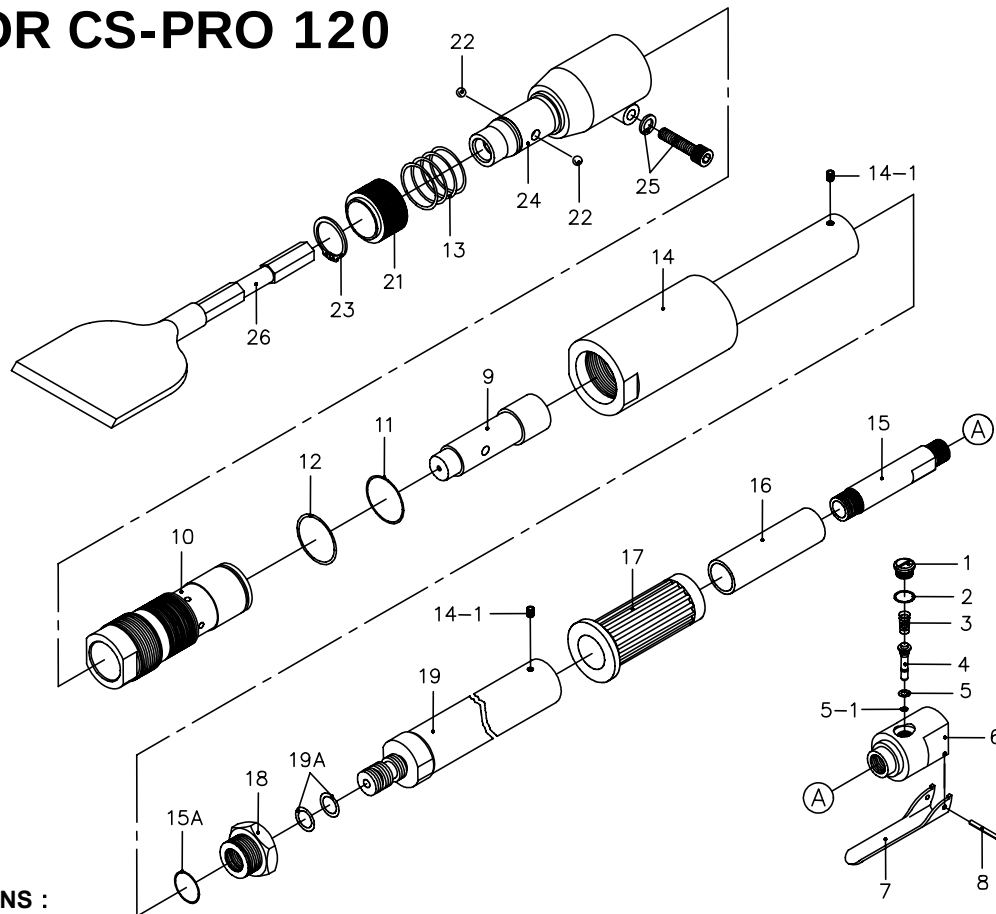
REF NO.	PARTS NO.	DESCRIPTION	Q'TY	REF NO.	PARTS NO.	DESCRIPTION	Q'TY
1	752727	VALVE CAP❷	1	15A	752741	"O" RING (d13.8×W2.4)	1
2	752728	"O" RING (d7.8×W2.4)❷	1	16	752742	HANDLE TUBE	1
3	752729	VALVE SPRING❷	1	17	752743	RUBBER HANDLE GRIP	1
4	752730	VALVE STEM❷	1	18	752744	LOCKNUT	1
5	752731	"O" RING (d4.8×W1.9)❷	1	21	752745	CHISEL COVER❶	1
5-1	752732	"O" RING (d2.4×W1.4)❷	1	22	752746	STEEL BALL (5/16)❶	2
6	752733	VALVE BODY	1	23	752747	SNAP RING (S-29)❶	1
7	752734	THROTTLE LEVER	1	24	752748	CHISEL HOLDER ASS'Y	2
8	752735	SPRING PIN (Ø3×24L)	1	25	752749	CAP SCREW (5/16"×1-1/4")	1
9	722496	PISTON	1	26	SEE BELOW	CHISEL	1
10	752736	CYLINDER	1	27	752750	CYLINDER COVER	1
11	722504	"O" RING (d11.8×W2.4)	1	28	752751	"O" RING	1
12	722512	"O" RING (d11.8×W2.4)	1	29	752752	CLAMP RING	1
13	752737	SPRING❶	1				1
14	752738	COVER ASSEMBLY	1				1
14-1	752739	SET SCREW (M5×10L)	2				
15	752740	CENTER TUBE	1				

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To get maximum performance and life of your tool, replace the whole set of parts included in the Spare part kits:

- ❶ Ball retainer overhaul kit 722488
- ❷ Throttle valve overhaul kit 722470
 - CHISEL 40MM 728808
 - CHISEL 50MM 728816
 - CHISEL 70MM 728824
 - CHISEL 100MM 728832

UNITOR CS-PRO 120



SPECIFICATIONS :

* BLOW PER MINUTE ----- 2200
 * PISTON ----- 28.5×23.8×90
 * HOSE SIZE ----- 3/8"

* LENGTH ----- 1220 MM
 * AIR PRESSURE ----- 90 PSI
 * AIR INLET ----- 1/4" PT(NPT)

REF NO.	PARTS NO.	DESCRIPTION	Q'TY	REF NO.	PARTS NO.	DESCRIPTION	Q'TY
1	752727	VALVE CAP ②	1	15A	752741	"O" RING (d13.8×W2.4)	1
2	752728	"O" RING (d7.8×W2.4) ②	1	16	752742	HANDLE TUBE	1
3	752729	VALVE SPRING ②	1	17	752743	RUBBER HANDLE GRIP	1
4	752730	VALVE STEM ②	1	18	752744	LOCKNUT	1
5	752731	"O" RING (d4.8×W1.9) ②	1	19	752753	GRIP COVER ASS'Y (600 MM)	1
5-1	752732	"O" RING (d2.4×W1.4) ②	1	19A	752754	"O" RING (d13.8×W2.4)	2
6	752733	VALVE BODY	1	21	752745	CHISEL COVER ①	1
7	752734	THROTTLE LEVER	1	22	752746	STEEL BALL (5/16) ①	2
8	752735	SPRING PIN (Ø3×24L)	1	23	752747	SNAP RING (S-29) ①	1
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11	722504	"O" RING (d11.8×W2.4)	1	26	SEE BELOW	CHISEL	1
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13	752737	SPRING ①	1	28	752751	"O" RING	1
14	752738	COVER ASSEMBLY	1	29	752752	CLAMP RING	1
14-1	752739	SET SCREW (M5×10L)	2				
15	752740	CENTER TUBE	1				

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To get maximum performance and life of your tool, replace the whole set of parts included in the Spare part kits:

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