



**PRO
TECH**



SANDBLASTING MACHINES AND ACCESSORIES



CP 24 M C



CP 24 PV 06 C

PROTECH'S SANBLASTING MACHINES



- PROTECH's sandblasting machines and their under pressure tanks are manufactured and tested at our factory in Settimo Milanese according to the European norms 97/23/CE PED with European Certification N. 1131
- The manufacture is carried out placing the upper part concave towards the inside. In this way, all sandblasting machines do not need a hopper and therefore, for similar capacities, the charging level is lower.
- Every tank is equipped with hand hole to aid internal inspection and highly sensitive valve for tank closure.
- Every machine or equipment is equipped with coupler points to carry out the lifting in the correct way and is supplied with instruction handbook for the use and maintenance.
- PROTECH's sandblasting machines which are supplied equipped with the control and security devices (such as vacuum blasting machines, complete blasting cabins with pressure system and sandblasting machines mod. SC, SCX, SM, SMS, SME e SMES) have **CE** marking according to the EUROPEAN DIRECTIVE OF MACHINES 98/37/CE and are also supplied with relative Conformity Declaration.
- The supplied machines which have to be finished with control and security devices (such as mod. SCF, CM and CMX) have **CE** marking and relative Conformity Declaration referred only to 97/23/CE PED.
- All sandblasting machines with **CE** marking, according to the European Directive of Machine 98/37/CE, are equipped with pneumatic remote control device to start and stop the sandblasting cycle, with aluminium handle-valve complete with security, locking system and, with sheathed double hose to avoid eventual accidental starting.

RECYCLING SANDERS

The recycling sanders have been studied and are built to carry out localized operations of sandblasting and cleaning of surface without dispersing dust and abrasive.

The main fields of application are the following:

- sandblasting of welds and cylinders
- cleaning and polishing of stainless steel manufactures and of dies directly onto machine, without disassembling from their seat
- cleaning and execution of written and decorum, on marble, glass, crystal, wood, steel, ABS etc. surfaces

The range has machines available with different performance and power.

If you need the specific technical details, please ask for the complete catalogue.

MOD. SC-SCX

Pneumatically operated remote control sandblasting machines, they are supplied equipped with aluminium handle-valve with security, locking system and m.20 (m.5 for Mod. SCX24 and m.10 for Mod. SC24 - SCX60 - SCX120 - SCX200) of sheathed double hose for remote control. Sandblasting machines Mod. SC220 and SC280 are equipped with abrasive metering valve mod. PRV. This valve is adjusted by hand wheel system and controlled by a pneumatic impulse, which determines when is opened or closed in line with the starting and stopping of the working cycle. The range SCX, fitted out with tanks of litres 24-60-120-200, is also available complete with blast hose, nozzle and sandblasting mask.

SC-SCX

Pneumatically operated remote control sanders

Part. Number	Model	Part. Number	Model	Capacity	Project pressure	Dimensions		
						Height	O.D.	Weight
40602400	SC 24	40502400	SCX 24	Lt. 24	8,4 bar	785 mm	315 mm	43 Kg.
40606000	SC 60	40506000	SCX 60	Lt. 60	7,84 bar	995 mm	450 mm	76 Kg.
40612000	SC 120	40512000	SCX 120	Lt. 120	7,84 bar	1225 mm	510 mm	100 Kg.
40620000	SC 200	40520000	SCX 200	Lt. 200	7,84 bar	1385 mm	600 mm	130 Kg.
40622000	SC 220	---	---	Lt. 220	11,76 bar	1500 mm	600 mm	150 Kg.
40628000	SC 280	---	---	Lt. 280	10,50 bar	1615 mm	640 mm	190 Kg.

MACHINES FOR RESTORATION

The sanders for restoration are equipped with remote control and with a sophisticated system for working pressure and abrasive or inert regulation. The machines for restoration are designed for working at pressure from 0,5 to 8 bar, using inerts or abrasive with also the finest sizes.

If you need the specific technical details, please ask for the complete catalogue.

Part. Number	Model	Capacity	Project pressure	Dimensions	Weight
45002400	softclean SMS24VR Micrajjet	Lt. 24	8,4 bar	850 x 610 x H = 1280 mm	75 Kg.
40500800	8	Lt. 8	8,8 bar	520 x 625 x H = 1100 mm	29 Kg.
40500900	Micrajjet 8 VR	Lt. 8	8,8 bar	520 x 625 x H = 1100 mm	30 Kg.

SM

Sabbiatrici modulari

MOD. SM-SMS MOD.SME-SMES Patented sanders equipped with dual pneumatic or electric remote control, to measure. This range of sanders is prearranged for applying several kits to improve their performances. Ask for the full catalogue containing the technical specifications and list of accessories.

EXAMPLES OF SANDBLASTING MACHINES



Mod. SC



Mod. SCX
complete

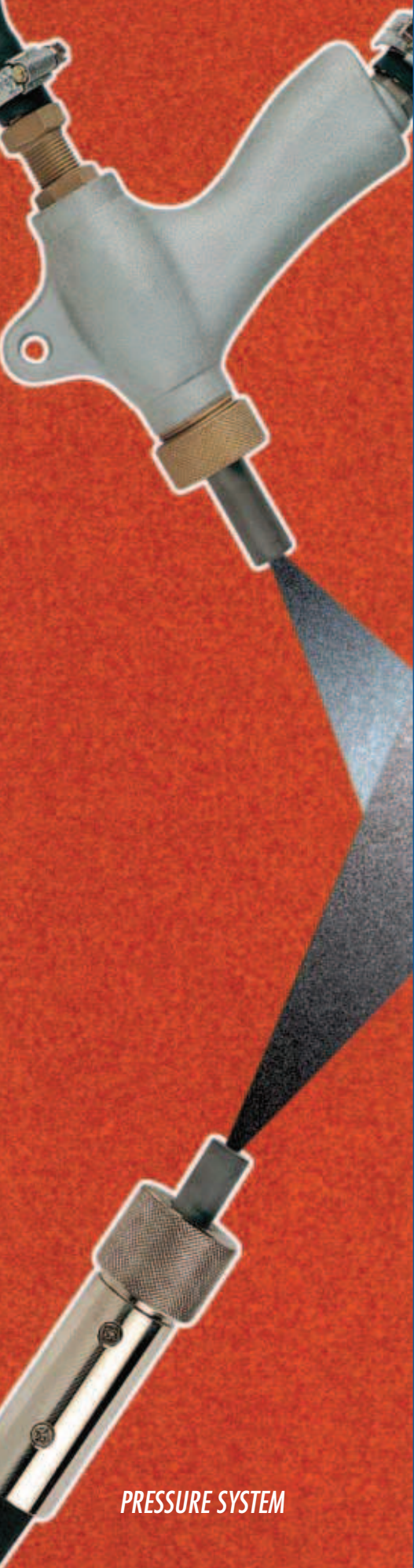


Mod.
MICRAJET 8 VR



Mod. SMS

INJECTION SYSTEM



PRESSURE SYSTEM

SHOTBLASTING CABINS WITH PRESSURE SYSTEM



Even if shotblasting cabins with pressure system have an initial cost bigger than cabin with injection system, they give, with the same compressed air consumption, the following advantages:

- higher working yield using the same type of abrasive
- possibility of regulating the pressure and the quantity of blasted abrasive
- possibility of using metal abrasive (if it is possible on that surface) instead of alluminium oxide. This allows a consequent, considerable wear and tear reduction of the abrasive and some parts of some equipments which come in contact with the abrasive
- Possibility of carrying out a better separation of used abrasive

Normally, a complete cabin working with pressure system is composed of:

- CABIN equipped with security stops on doors for access into the cabin internal or extractable rotary table, prearrangement for pneumatic connection and pressure reducer for the sander, prearrangement for the pneumatic and electric connection for the filter.
- SANDER (pressure system) to blast the chosen abrasive
- CYCLONE to separate the recovered abrasive
- FILTER to treat the dusty air
- KIT HIGH HEAD to generate the necessary vacuum which allows the recovery and separation of abrasive and dust inside the cabin.

Shotblasting cabins with internal rotary table

Model	Working dimensions	Rotary table	Overall dimensions	Weigh
LC/2TR/PR	mm 1100x850x750h	Ø 700	mm 1200x950x1800h	300 Kg.
LC/3TR/PR	mm 1500x1200x900h	Ø 950	mm 1600x1300x1900h	400 Kg.

Shotblasting cabins with extractable rotary table

Model	Working dimensions	Rotary table	Overall dimensions	Weigh
LC/2TE/PR	mm 1100x1100x900h	Ø 900	mm 2200x1100x1900h	450 Kg.
LC/3TE/PR	mm 1500x1200x900h	Ø 950	mm 3000x1300x2050h	510 Kg.

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SANDBLASTING MACHINES AND EQUIPMENTS APPLICABLE ON SHOTBLASTING CABINS WITH INJECTION SYSTEM

It is possible to purchase components for conversion of an existing cabin working with injection system. This conversion improves also the visibility into the cabin. In this case we will supply all the necessary to carry out easily the conversion.

Components and equipments for shotblasting cabins

Part. Number	Model	Supply	Overall dimensions	Weight
46802400	sander SCF24	pneumatic	Ø mm 600x805h	40 Kg.
46806000	sander SCF60	pneumatic	Ø mm 600x850h	73 Kg.
46850800	cyclone CF8	Three phase electric 50Hz-380v	mm 900x700x1420h	100 Kg.
46845001	cyclone CRS	----	mm 950x650x1400h	90 Kg.
46845000	cyclone CRO	pneumatic (vibrating sieve)	mm 950x650x1550h	100 Kg.
Cartridge filter FF11C with polyamide or polyester cartridge		pneumatic and mono phase electric 50Hz-200/24v	mm 950x650x1400h	90 Kg.
46890830	Hight head kit HDK11	Three phase electric 50Hz-380v	Ø mm 700x550h	30 Kg.



UNIONS



Hose couplings	
	Part. Number
Ø E25 fil. 1"	53001025
Ø E40 fil. 1½"	53001040
Ø E45 fil. 1½"	53001045
Ø E48 fil. 1½"	53001048
Ø E54 fil. 1½"	53001054

Express fitting unions		
		Part. Number
3/8"	M	53032002
1/2"	M	53032003
3/4"	M	53032004
1"	M	53032005
3/8"	F	53032502
1/2"	F	53032503
3/4"	F	53032504
1"	F	53032505
1 1/4"	F	53032506

Express fitting unions with nipple	
	Part. Number
Ø 13	53033013
Ø 16	53033016
Ø 19	53033019
Ø 25	53033025
Ø 32	53033032

Hose clamps	
	Part. Number
E 22 - E 29	53041022
E 28 - E 34	53041028
E 32 - E 40	53041032
E 39 - E 49	53041039
E 48 - E 60	53041048
E 60 - E 76	53041060

Nozzle holders without ring nut			
For nozzles	Version	For hose	Part. Number
I = 80-150	fil./threaded	E 40	53003040
I = 80-150	fil./threaded	E 45	53003045
I = 80-150	fil./threaded	E 48	53003048
I = 80-150	fil./threaded	E 54	53003054

Rapid union	
	Part. Number
Fil. 1½"	53031007

Ring nut locking nozzles		
Threaded	Aperture	Part. Number
1"	18	53005018
1½"	26	53005026
1½"	31	53005031

Joints	
	Part. Number
Per tubo E 25	53009025
Per tubo E 40	53009040
Per tubo E 45	53009045
Per tubo E 48	53009048
Per tubo E 54	53009054
Per tubo E 82	53009082

Hose adapters	
	Part. Number
E 45 - E 40	53009532
E 48 - E 40	53009542
E 54 - E 40	53009552
E 48 - E 45	53009543
E 54 - E 45	53009553
E 54 - E 48	53009554

With cylindrical aperture for light work				Consumption				
				Compressed air consumption l./min.		Abrasive consumption Kg./hr		
Aperture	Lenght	Assembly	Part. Number	at 6 bar	at 7 bar	Silica sand	Shot	Corundum
1,5 mm	20 mm	core only	51202001	130	150	16	45	20
3 mm	20 mm	core only	51202003	470	550	55	140	65
4 mm	40 mm	»	51204004	850	950	95	230	110
5 mm	40 mm	»	51204005	1300	1500	150	370	175
6 mm	40 mm	»	51204006	2300	2700	270	670	300
7 mm	40 mm	»	51204007	3750	4000	400	975	470
8 mm	40 mm	»	51204008	4300	4650	470	1150	535
10 mm	40 mm	»	51204010	5200	6000	600	1500	700
4 mm	40 mm	flanged	51004004	850	950	95	230	110
5 mm	40 mm	»	51004005	1300	1500	150	370	175
6 mm	40 mm	»	51004006	2300	2700	270	670	300
7 mm	40 mm	»	51004007	3750	4000	400	975	470
8 mm	40 mm	»	51004008	4300	4650	470	1150	535
10 mm	40 mm	»	51004010	5200	6000	600	1500	700

With Venturi aperture for medium work				Consumption				
				Compressed air consumption l./min.		Abrasive consumption kg./hr		
Aperture	Lenght	Assembly	Part. Number	at 6 bar	at 7 bar	Silica sand	Shot	Corundum
6 mm	70 mm	flanged	51007006	2600	3000	300	700	355
7 mm	70 mm	»	51007007	4200	4600	470	1050	545
8 mm	70 mm	»	51007008	4800	5200	500	1200	600
10 mm	70 mm	»	51007010	5800	6600	670	1550	790
12 mm	70 mm	»	51007012	6500	7500	750	1700	870
6 mm	80 mm	1.1/4"M threaded	51008006	2600	3000	300	700	355
7 mm	80 mm	»	51008007	4200	4600	470	1050	545
8 mm	80 mm	»	51008008	4800	5200	500	1200	600
10 mm	80 mm	»	51008010	5800	6600	670	1550	790
12 mm	80 mm	»	51008012	6500	7500	750	1700	870

With Venturi aperture for heavy work				Consumption				
				Compressed air consumption l./min.		Abrasive consumption kg./hr		
Aperture	Lenght	Assembly	Part. Number	at 6 bar	at 7 bar	Silica sand	Shot	Corundum
8 mm	150 mm	1.1/4"M threaded	51015058	5000	5400	535	1350	625
10 mm	150 mm	1.1/4"M threaded	51015060	6200	7000	700	1750	830
8 mm	150 mm	fil. ghibli	51015088	5000	5400	535	1350	625
10 mm	150 mm	spiral threaded	51015090	6200	7000	700	1750	830
8 mm	150 mm	flanged	51015008	5000	5400	535	1350	625
10 mm	150 mm	flanged	51015010	6200	7000	700	1750	830



CYLINDRICAL NOZZLES

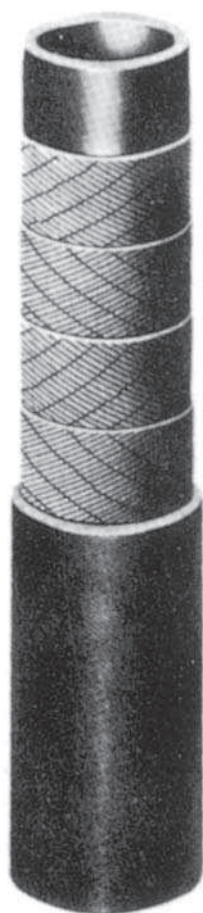


VENTURI NOZZLES



VENTURI NOZZLES





HOSES



BLAST HOSES

These are suitable for any type of abrasive (sand, metal grit, etc.) and have a thick internal layer of black smooth rubber that is highly resistant to abrasion. This layer is reinforced with high strength synthetic fabric. The particular mix chosen also eliminates problems of static electricity. The outer cover, in black rubber with canvas design, is resistant to atmospheric corrosion.

Tubi per abrasivo		
Ø x Øe	Mt. / Lengths m.	Cod. Art. Part. Number
13 x 21	5-10-20-40	51582100
13 x 25	5-10-20-40	51582500
25 x 40	10-20-40	51584000
30 x 45	20-40	51584500
32 x 48	20-40	51584800
35 x 54	40	51585400
60 x 82	10-20	51588200

COMPRESSED AIR HOSES

The inside layer is smooth black rubber that is resistant to mineral oil mists. The hoses are reinforced with high strength synthetic fabrics and have an external coating of black rubber that is resistant to atmospheric corrosion.

Compressed air hoses		
Ø x Øe	Lengths m.	Part. Number
6 x 14	To measure	51551400
6 x 14		51531400
10 x 17		51511700
13 x 23		51532300
16 x 26		51532600
19 x 30		51533000
25 x 39		51533900
32 x 48		51534800
38 x 54		51535400
50 x 69		51536900

MOISTURE TRAPS TYPE LABYRINTH AND WITH CERAMIC FILTERING ELEMENT

They trap the condensate created by compressed air. Type labyrinth is mod. CT50 and is equipped with bearing feet on the floor. The other models will be assembled directly on sander and they can be equipped with ceramic filter element.

Moisture trap				
Filter body	Code number	Filter element	Code number	Flow rating l/min
CT 50	47535000	=	=	5000
CSP002	56521002	Q 022	56525022Q	2200
CSP004	56521004	Q 045	56525045Q	4500
060	56501050	Q 072	56525072Q	7200

KIT FOR PNEUMATIC REMOTE CONTROL

This kit consists of all necessary for the assembling on sander. To avoid eventual accidental starting, the remote control is given by a pneumatic circuit equipped with double hose. This kit is also supplied equipped with aluminium handlevalve complete with security, locking system and m. 20 sheathed double hose (m. 10 for sander lt. 24).

Kit for pneumatic remote control	
Sanders capacity	Part. Number
lt. 24	49560206
lt 60/120/200	49560606
lt. 220	49562206
lt. 280	49562806





SAFETY EQUIPMENT



HOOD MOD. RC4 (part. n. 52000400) Guard for operator, according to the **CE** normatives, consists of a hood with front part in leather and the rear part in canvas down to the shoulders, moulded rubber mask and filter.

The mask is equipped with harness with moulded polyethylene nape-stool and exhaust valve. The 100x140 mm. glass gives excellent view, is easy to replace from the inside and is placed on a polycarbonate protection.



COMPLETE HELMET MOD. ACS952 (part. n. 52059002) Guard for operator, according to the **CE** normatives, consists of moulded in rigid resistant ABS, impermeable jacket down to waist, corrugated pipes, silencer filter and air flow controller complete with safety fast coupling prearranged for connection to the compressed air network. The helmet is equipped with harness which adapts easily to the form of head, two exhaust valves and connection for the air supply.

The mm. 100x140 glass gives excellent view and is easy to replace if necessary, is placed on a polycarbonate protection and is ventilated by a constant flow of air to prevent fogging. To aid manoeuvrability, the flow controller is fitted to a belt and is equipped with whistle alarm system which enters upon function when the air flow goes under the minimum, for any reason.



COMPLETE HOOD MOD. ACS951 (part. n. 52026001) Guard for operator, according to the **CE** normatives, consists of a hood with front part in polyurethane and the rear part in canvas down to the waist, corrugated pipe, silencer filter and air flow controller complete with safety fast coupling prearranged for connection to the compressed air network. The moulded rubber mask adapts easily to the form of the face and is equipped with two exhaust valves and connection for the air supply. The 65 mm. diameter glasses are easily interchanged, are placed on a polycarbonate protection and are ventilated by a constant flow of air to prevent fogging. To aid manoeuvrability, the flow controller is fitted to a belt and is equipped with whistle alarm system which enters upon function when the air flow goes under the minimum, for any reason.

• PROTECH S.R.L. was established in 1982 and its managing and productive staff derives from other companies manufacturers of sandblasting machines, machines in general for treatment of surfaces and free-jet shot-blasting plants. Always in the forefront, Protech, nowadays, manufactures the tanks for blasting machines tested according the EUROPEAN NORMS 97/23/CE PED whit EUROPEAN CERTIFICATION N. 1131. Therefore the firm can boast of a pluriannual, engineering, commercial and manufacturing experience and a particular knowledge of all problems concerning free-spray sandblasting. The machines, are manufactured at the factory located in Settimo Milanese (Mi). PROTECH S.R.L., leader in the Italian market, manufactures and sells more than 900 machines per year and is able to give assistance to its customers through more than 150 sales points located in Italy, Europe, North Africa and Middle East.



**EXAMPLE OF SPECIAL SANDBLASTING
MACHINES BUILT ON
SPECIFIC REQUEST OF CUSTOMER**

