IBIX
SPECIAL CLEANING

OPERATOR'S GUIDE

The operation of the IBIX system is simple,

It consists of 3 parts which we analyze in the following slides

PRESSURE REGULATOR

the pressure varies from 0.2 (3 psi) to 8 bar (130 psi)

turn the regulator clockwise to increase the pressure,

turn the regulator anti-clockwise to decrease the pressure

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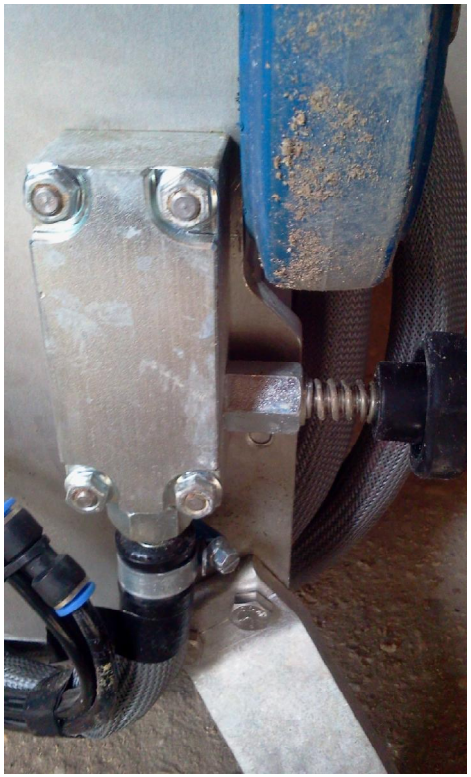
MEDIA FLOW ADJUSTMENT

turn the knob clockwise to shut off the flow of cleaning media,

turn the knob anti-clockwise to increase the flow of cleaning media

Start with the flow control (abrasive) valve fully closed and then to get the proper adjustment, turn the knob of the media screw until you start seeing the media coming out

at this point, turn the knob anticlockwise half a turn and the adjustment will be optimal



WATER REGULATOR

Simply open the water flow to achieve the correct spray mist to knock down the dust. With minimum water flow adjustment, you will use 25 liters of water per hour

To wash surfaces after cleaning, fully open the water regulator and shut off the media flow.

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MEDIA GUIDE

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BAKING SODA

STONE

It is used to clean non-porous stones and leave the surface shiny and without any abrasion (scratch)

Shiny marble - Shiny granite - Etc ……

WARNING:

IF BAKING SODA IS USED ON POROUSE STONES DON'T FORGET THAT IT'S A SALT AND THAT IF IT'S ABSORBED BY THE STONES , ONCE THE WATER HAS DRIED, IT WILL INCREASE ITS VOLUME 8 TIMES AND LITTERALLY EXPLODE INSIDE THE STONE

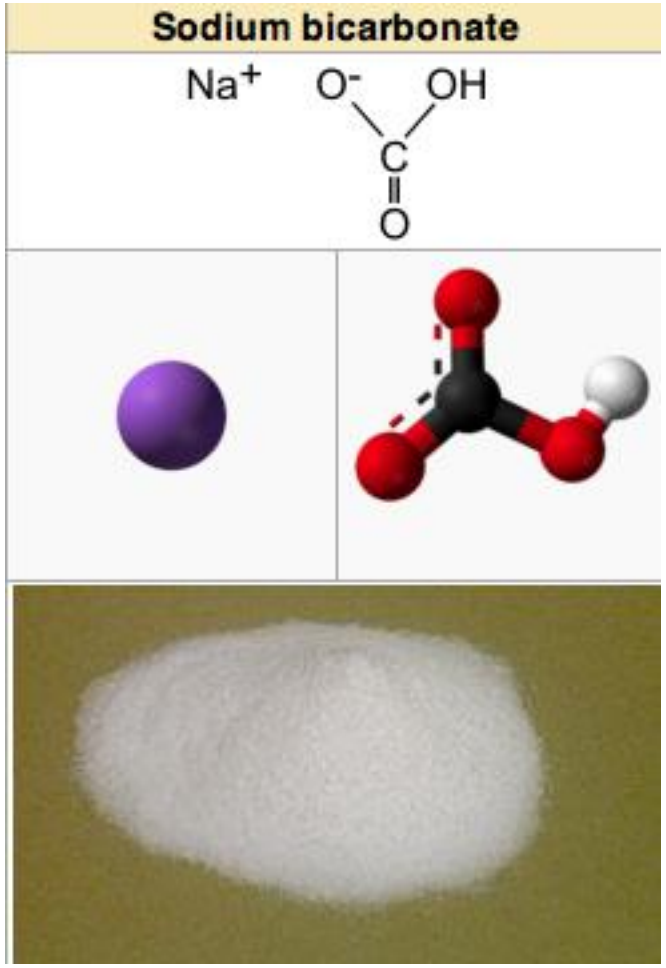
Operating range :

3-4 bars at 5 inches (20cm) distance

5-6 bars at 10 inches (40cm) distance

Consumption :1 -2.5 Kg x per square meter

used with water for the total removal of the dust.



2.5 mohs scale

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BAKING SODA

GLASSES

It is used to clean glasses from paint and oxidation in the restoration sector, leave the surface shiny and clear without any corrosion

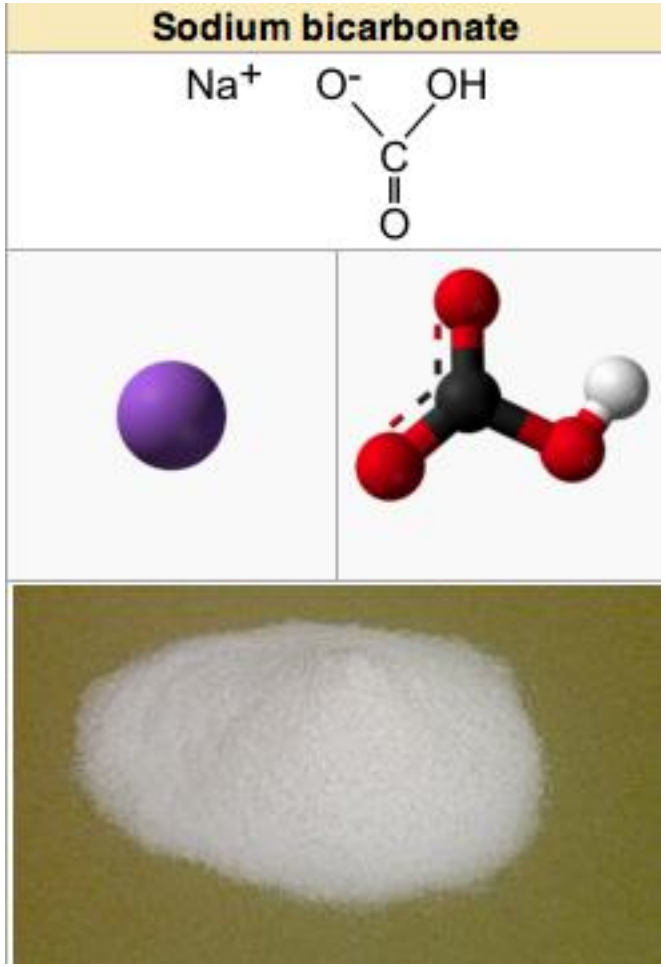
Operatin range :

Max 3 bar at 5 inches (20cm) distance

Max 4.5 bar at 10 inches (40cm) distance

Consumption: 800gr – 1.5 kg per square meter

used with water for the total removal of the dust.



2.5 mohs scale

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BAKING SODA

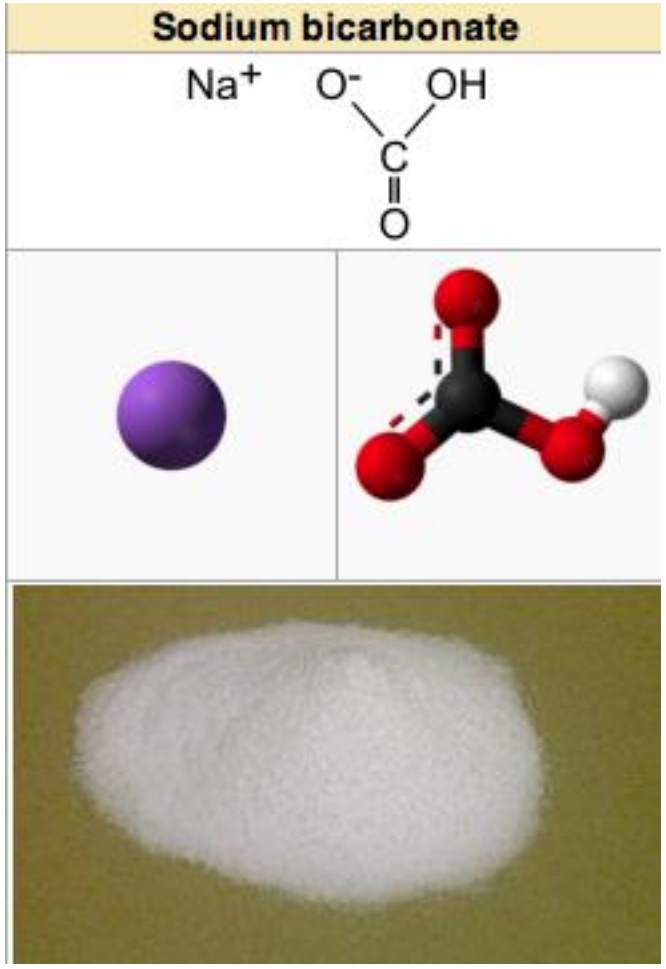
STAINLESS STEEL

It is used to remove paint and oxidation, it will leave the surface shiny and clear without any abrasion

Operating range :

7-8 bar at 5 inches (20cm) distance
Consumption : 800gr – 1.5 Kg per square meter

used with water for the total removal of the dust.



2.5 mohs scale

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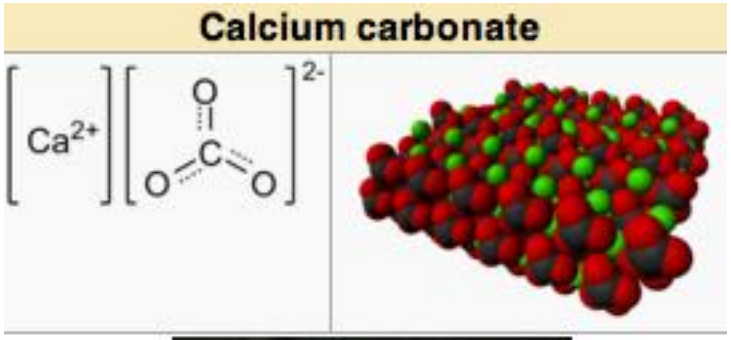
CALCIUM CARBONATE

STONES



It is used to clean dirt and paint from any kind of stone in restoration, thanks to its low hardness, it allows for a higher margin of error, which means it is more foregiving.

Use it dry for descialbo (see video) from old and ancient surfaces at low pressure

Use it with vaporized water to clean marble, tuff and sandstone to avoid dust.

Operating range :

7-8 bar at 5 inches (20cm) distance
Consumption : 1.5 – 4 Kg per square meter

3 mohs scale

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GARNET

20/ 40 mesh – 30/60 mesh

Strong – IRON
Application: To remove thick layers of paint and rust from hard surfaces

Pressure : high – 6/8 bar – working distance 20/30cm

Recommended nozzle:
High pressure 8bar (130psi)
vrk 1900 lt/min : (Ibix25) 5.5 mm (0.20 inches)
A90 670 lt/min : (Ibix9) 3 mm (0.12 inches)
Other 3000lt/min : (ibix25) 7mm (0.28 inches)

Consumption: About 2-6 Kg per square meter.

6.5/7 mohs scale

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GARNET

80 mesh - 120 mesh

Middle – STONE/BRICK/WOOD/IRON

Applications: With vaporized water for brick and stone cleaning to avoid dust
For iron and wood it is better to work in the dry mode to avoid rust on steel or any modification of the wood structure (low dust levels)
Recommended nozzle:
Medium pressure 4-6 bar (87 -116 psi)
vrk 1900lt/min : 5.5 mm (0.20 inches)
A90 670 lt/min : (Ibix9) 3 mm (0.12 inches)
Other 3000lt/min : (ibix25) 7mm (0.28 inches)
Pressure: high/medium - start at 3 bar (45 psi) at 20cm distance
Consumption: about 1.5 - 3 Kg per square meter

6.5/7 mohs scale

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GARNET

200 mesh - 350 mesh

Soft – STONE/WOOD/IRON

More dusty than other grades

Applications: graffiti removal – to clean wood and soft stone (tuff – sandstone – travertine -)
Also used for restoration of papier-mache – old paintings)

Recommended nozzle (depends of area):

Low pressure 1-3 bar (15 - 44 psi)

vrk 1900lt/min : 5,5 mm (0.20 inches)

A90 670 lt/min : (Ibix9) 3 mm (0.12 inches)

Use Venturi nozzles for a more uniform blast or clean pattern

Pressure: for restoration start at 1 bar – at 20 cm or more

Consumption: 600gr – 1,5 Kg per square meter.

6.5/7 mohs scale

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APPLICATIONS GUIDE

INDUSTRIAL APPLICATIONS

- Garnet 30/60mesh (strong surface)
  - Remove layers of rust and other strong materials.
  - Perfect preparation before painting or coating.

- Baking soda (also for applications in the food industry).
  - Remove working slags from tubes, pipes and moulds
  - Remove grease from mechanical parts without damaging rubber and stainless steel parts .

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OPERATOR'S GUIDE

BOATING

- Garnet 200mesh.
  - Remove barnacles from propellers and flaps.
- Garnet 80mesh.
  - Remove antifoulling from hulls of fiberglass and wood boats.
- Garnet 30/60mesh.
  - Remove rust and paint from metal boats.
- Baking soda.
  - To clean teak wood.
  - To clean flateble boats
  - To clean stailess steel parts like stairs and other parts.
  - To clean hull , alluminium and glass (warning: use maximum 3 bar).

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RESTORATION

- Garnet 200mesh (strong sorface)
  - To clean Murble and stone from pollution and light dirty.
  - Remove painting from strong wood (leave the surface polish).
- Garnet 120mesh (strong surfaces).
  - To clean bricks and stone from concrete and vegetable.
  - Remove painting from strong wood.
- Calcium carbonate (delicate surfaces).
  - To clean marble and stone from pollution and vegetable.
  - Soft removing layer by layer to discover painting or old decorations.
- Baking soda.
  - To clean polish surface like polish marble and granit.
  - To clean glass from oxid and painting without ruin.

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OPERATOR'S GUIDE

AUTOMOTIVE APPLICATIONS

- GARNET 200 mesh (already prepared for painting)
  - Remove paint from surface (metal or fibreglass).
  - Alloy wheel preparation before painting.
- GARNET 30/60 mesh
  - Remove rust and painting from trucks , trailers and chassis.
- BAKING SODA
  - Restoration of stainless steel parts.
  - Restoration of motor parts
  - Remove grease from motor and movement parts without ruin plastic and rubber.

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TECHNICAL INFORMATIONS

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GENERAL APPLICATIONS

SURFACE	MEDIA	PRESSION	IBIX9 SQ/MT	IBIX 25 SQ/MT	CONSUMPTION
Polish murble	Baking soda + water	5/6 bar	3-5 sqm/h	8-12 sqm/h	0,8 – 1,5 Kg
no-polish murble	Calcium carbonate Z6 + water	6/7 bar	4-7 sqm/h	10-16 sqm/h	1 - 2,5 Kg
Bricks	Garnet 80/120 mesh	4/5 bar	4-7 sqm/h	10-20 sqm/h	1,5 – 3 Kg
Travertin	Garnet 200 mesh	6 bar	5-8 sqm/h	12-18 sqm/h	1 – 2,5 Kg
Delicate travertin	Calcium carbonate Z6 + water	4/6 bar	2-4 sqm/h	8-10 sqm/h	0,8 – 1,5 kg
Tuff	Calcium carbonate Z6 + water	3 bar	1,5-3 sqm/h	3-5 sqm/h	0,8 – 2
Black stone	Baking soda + water	4/6 bar	2-4 sqm/h	7-10 sqm/h	0,8- 2,5 Kg
Removing mill stale	Garnet 80 mesh	7/8 bar	1-2,5 sqm/h	2,5-5 sqm/h	2,5 – 4 Kg
Hard stone (grsanit, etc)	Garnet 120 mesh	7/8 bar	6-10 sqm/h	12-20 sqm/h	1,5 -3,5 Kg
Removing graffiti from plastic e facete	Garnet 200/350 mesh	4bar	2-4 sqm/h	6-10 sqm/h	1 – 2,5 Kg
Strong wood (rovere, noce, ciliegio)	Garnet 80 mesh	7/8 bar	3-6 sqm/h	8-16 sqm/h	1,5 – 3 Kg
Soft wood	Garnet 120/200 mesh	4bar	1,5-3 sqm/h	4,5-10 sqm/h	1 – 2,5 Kg
Iron painted	Garnet 30-60	7/8 bar	1,5-4 sqm/h	4-9 sqm/h	2,5 – 4 Kg
Iron rusted	Garnet 30-60/80 mesh	7/8 bar	2-5 sqm/h	6-12 sqm/h	2 – 3,5 Kg
Plastic	Garnet 200 mesh	4bar	2,5-4 sqm/h	7-11 sqm/h	0,8 – 1,5 Kg
Alluminium	Glasses beads 95 micron	2 bar max	0,5-1 sqm/h	1-3 sqm/h	0,8 – 1,5 Kg
Satin glass	Garnet 80 / 200	2 bar max	0,5-1 sqm/h	1-3 sqm/h	1 – 2,5 Kg
Removing graffiti from glasses	Baking soda + water	3 bar max	1,5-3 sqm/h	3-7 sqm/h	0,5 – 1 Kg
Restauration motor parts	glasses beads 95 micron	2,5 bar	0,5-1 sqm/h	1-3 sqm/h	1,5 – 3 Kg
Removing chewing gum	Calcium carbonate Z5 + water	7/8 bar	5-9 sqm/h	10-13 sqm/h	2 – 3,5 Kg
Cleaning brass	Calcium carbonate Z6 + water	6 bar	2,5-5 sqm/h	5-13 sqm/h	2 – 4 Kg
Cleaning copper	Baking soda or Calcium carbonate + water	Soda : 4/7 bar Carbonate: 2/6 bar	1,5-3 sqm/h	3-7 sqm/h	1,5 – 3 Kg
Bucciardatura granit	Garnet 20-40 + water	8 bar	0,5-1 sqm/h	1,5 -3 sqm/h	3 – 6 Kg
Cleaning moulds	Baking soda + water	3-4 bar	----	----	1,5 – 3 Kg
Edging wood	Garnet 120/200 mesh	6-8 bar	4-6 sqm/h	6-8 sqm/h	1,5 – 2,5 Kg

IBIX SPECIAL CLEANING

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BOATING APPLICATIONS

SURFACE	MEDIA	PRESSION	IBIX9 SQ/MT	IBIX 25 SQ/MT	CONSUMPTION
Cleaning tek	Baking soda + water	5/7 bar	2-4 mq/h	7-12 mq/h	0,8 – 1,5 Kg
Cleaning crome parts	Baking soda + water	5 bar	1,5-3 mq/h	4-8 mq/h	1 – 3 Kg
Cleaning hulls	Baking soda + water	3 bar max	1-2,5 mq/h	3-8 mq/h	0,8 – 2 Kg
Anti-fouling remove	Garnet 80 mesh	7/8 bar	3,5-6 mq/h	7-14 mq/h	3 – 5 Kg
Removing barnacles from polish parts	Garnet 200 mesh	7/8 bar	2-3 mq/h	6-9 mq/h	2,5 – 4 Kg
Removing barnacles from no-polish parts	Baking soda + water	5 bar	1-2,5 mq/h	3-5 mq/h	2 – 4 Kg
Cleaning flateble boats	Baking soda + water	4 bar	1-2 mq/h	2,5-4 mq/h	6 – 8 Kg
Removing gelcoat	Samgrit	8 bar	----------	0,5-1 mq/h	10 – 14 Kg

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NOZZLE MAXIMUM RANGE

NOZZLES	IBIX 9	IBIX 25	IBIX 40	A90 - 550 lit/min	VRK 1900 lit/min	5000 lit/min	DIAM 20cm distance
1,5 cil	X	X	X	8,5 bar	9 bar	9 bar	15 mm
2,0 cil	X	X	X	8 bar	9 bar	9 bar	20 mm
2,5 cil	X	X	X	8 bar	9 bar	9 bar	25 mm
3,0 cil	X	X	X	7,5 bar	8 bar	9 bar	30 mm
3,5 cil	X	X	X	6,5 bar	8 bar	8 bar	35 mm
4,0 cil	X	X	X	6 bar	7,5 bar	8 bar	40 mm
4,5 cil	X	X	X	5,5 bar	7 bar	8 bar	40 mm
2,5 ven	X	X	X	7 bar	8 bar	9 bar	40 mm
4,0 ven	X	X	X	5 bar	7 bar	8 bar	60 mm
5,5 cil		X	X		7 bar	8 bar	60 mm
7,0 cil		X	X		5 bar	7,5 bar	75 mm
5 ven		X	X		6 bar	8 bar	75 mm
6 ven		X	X		5 bar	7,5 bar	85 mm
8 cil			X		4,5 bar	7 bar	95 mm
10 cil			X			6 bar	110 mm
12 cil			X			5,5 bar	130 mm

IBIX®
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Fact sheet on our IBIX Low Pressure micro abrasion Systems

AIR	l/min.	CFM	BAR	PSI	Tank/Pod capacity	size CU FT.	weight KG	weight LBS	Nozzle mm dia.	Mesh size B. Media	size Micron	Rate usage LBS/sq.ft	performance sq.ft /h
IBIX 9	500	17	0,2-9	3-130	9 L	0.31	13	27	3 to 5	20-350	38 - 1.8 ym	0,25 - 1	55-100
IBIX 25	1500	57	0,2-9	3-130	25 L	0.88	27	59	4 to 7	20-350	38 - 1.8 ym	0,25-1	55-100
IBIX 40	5000	185	2 to 9	30-135	40 L	1.4	57	87	10 to 12	20-200	38 - 1.5 ym	1-2.5	80-200
All units H20 compressor R-VRK 200	2000	87											

performance testing according to ISO 5167 standard. ALL units are designed for micro abrasion surfaces preperation through a special Rotational VORTEX system: steel, stainless, wood, marble, glass, concrete, masonry, stone, composite materials etc.

IBIX 9 Portable lightweight Cleaning System

Specifictaions:
Capacity – 2.4 gallons (0.32 ft³, 9 l)
Nozzles sizes – 0.1181 to 0.1969 in (3 – 5 mm)
Abrasive grain sizes – 0.001 to 0.0984 in (0.025 – 2.5 mm)
Airflow rates – 2.9 – 130 psi (0.2 to 9 bars)
Hose length – 20 ft (6 m)
Empty weight – 27 lbs (12 kg)

IBIX 25 Portable lightweight Cleaning System

Specifictaions:
Capacity – 6.6 gallons (0.88 ft³, 25 l)
Nozzles sizes – 0.1969 to 0.2756 in (5-7 mm)
Abrasive grain sizes – 0.001 to 0.0984 in (0.025 – 2.5 mm)
Airflow rates – 2.9 – 130 psi (0.2 to 9 bars)
Hose length – 30 ft (10 m)
Empty weight – 57 lbs (26 kg)

IBIX 40 Portable lightweight Cleaning System

Specifictaions:
Capacity – 10.5 gallons (40 l)
Nozzles sizes – 0.3937 to 0.4724 in (10 – 12 mm)
Abrasive grain sizes – 0.001 to 0.0984 in (0.025 – 2.5 mm)
Airflow rates 29 – 135 psi (2 to 9 bars)
Hose length – 30 ft (10 m)
Empty weight – 87 lbs (40 kg)


That's all Folks!