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*professional people*





Giancarlo Ruffo

It all started 40 years ago by a visionary insight of Giancarlo Ruffo in a small warehouse, in San Giovanni Lupatoto, in the province of Verona, where the first models of floor care machines were hand-crafted. With the cleaning segment still at its infancy, futuristic products from COMAC (Acronym for construction machinery) created a "niche" in the European Market. With a prime strategy of providing the best quality products to its users and tagging itself with "professional people" COMAC advanced in

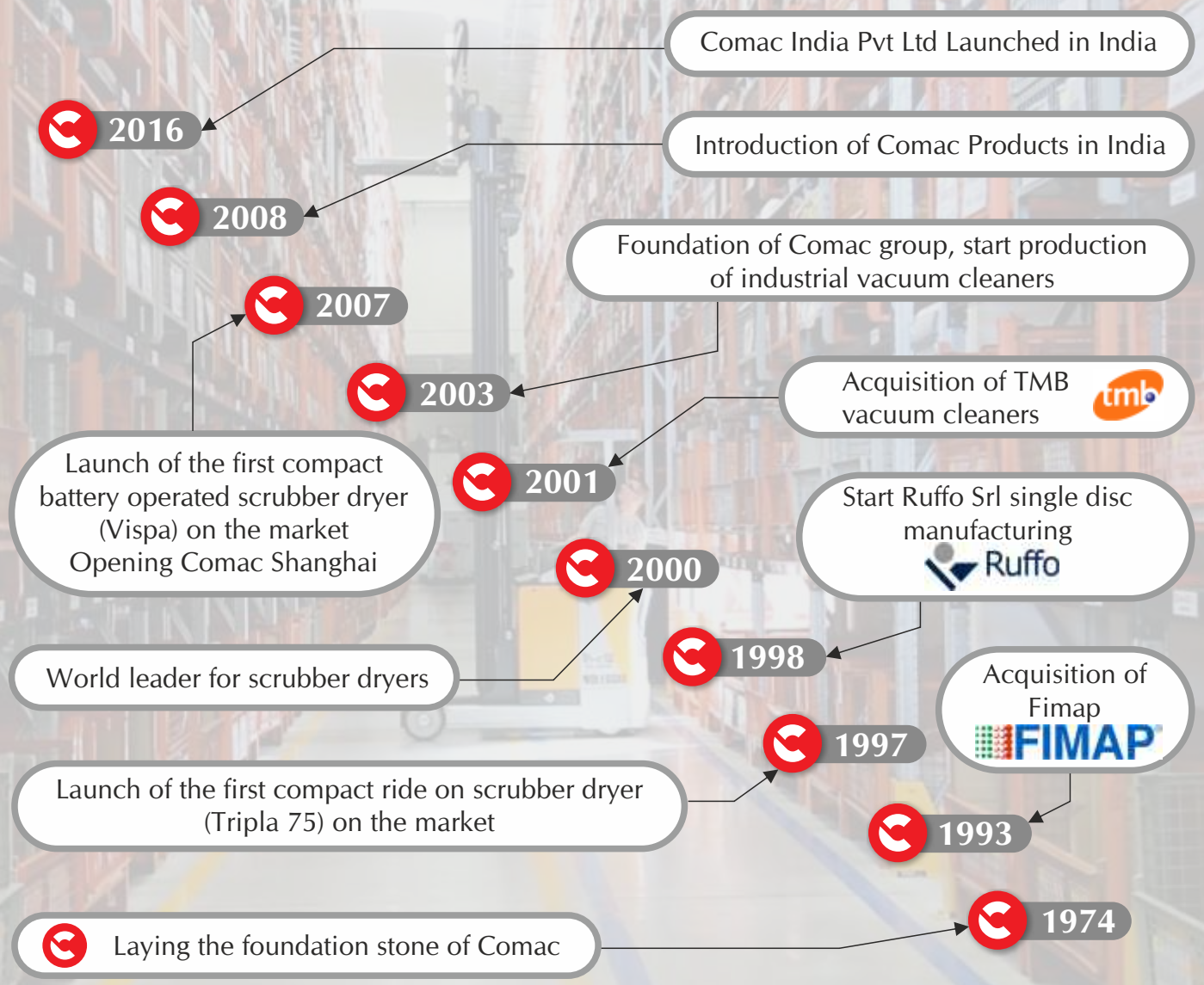
every segment of the cleaning industry with its innovative and technologically advanced products. Advancing itself from floor care products such as walk behind and ride on Scrubber Dryers, its product portfolio added industrial vacuums and the sweeper range too.

2003-04 saw the emergence of COMAC as a "group of companies" with the merger of Comac, Fimap, Tmb, Ruffo and Cofirent. A new "network of companies" - both vibrant and vital - united by a common philosophy oriented to professional cleaning services was formally created, capable of putting together a strong heritage of experience, entrepreneurship and innovative willingness.

New design, optimisation of volumes, silence and ease of use became musts for the development of Comac products. In an increasingly demanding market, the company decided to invest on new projects in order to renew the entire line of scrubbing machines with the aim to reduce costs and consumption while respecting mankind and the environment. **Comac introduced its products to the Indian market 10 years ago and since then they have been present in every commercial and industrial segment of the country.** You will find COMAC cleaning machines in many International Airports of the country, Railway & Metro stations, major core industries, Steel, Cement, Power, Automobile Plant, Hospitality Chain, Corporate Offices etc to keep their premises clean and hygienic.

COMAC India is committed to play active part in shaping the future of India as a CLEAN GREEN nation.

“Cleaning has been our passion for 40 years”





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# Floor Care





## Walk-behind Scrubber Dryers



State of the art cleaning machines that scrub, dry and sanitize in one pass making it suitable for medium areas for both maintenance and in-depth cleaning. It is extensively used at hotels, hospitals, offices, service stations, recreational facilities, educational institution, contract cleaning etc.

- Ergonomic design for user comfort
- Maximum cleaning reach- highly maneuverable
- Increased Productivity-Value for money
- Superior suction motor & squeegee blades for perfect drying



**VISPA 35 E/B**



Ergonomic handle bar



Easy storage and transport



Easy to remove. Easy to Empty and Clean

An extremely maneuverable scrubbing machine with 50 cms width -Is suitable for most areas which needs maintenance cleaning. Especially suitable for cleaning in environments like sales points, car repair shops, gyms & hospitals. Its extremely low noise levels make it especially suitable for cleaning community areas such as gyms & hospitals or public & private medical institutions

They stand out in their segment thanks to:

- the complete range of models
- the category-leading performance
- the tank capacity
- the silence, which offers high work comfort
- the reliability
- the ease of use
- the innovative design
- limited operating costs



**ABILA 50 E/B**



Squeegee fitted with two wheels for better stability



Single brush with a practical brush coupling system



Easily accessible water filling inlet with filter system



Built-in battery charger on request



Large & easily accessible battery compartment



	<b>VISPA 35 E / B</b>	<b>ABILA 50 E / B</b>
Scrubbing width (mm)	350	500
Brush dia (mm)	1x350	1x500
Brush Pressure (kg)	18/20	20
Productivity rate (sqm/h)	1050 sqm/h	1750 sqm/h
Solution tank (ltrs)	8 ltrs	33 ltrs
Recovery tank (ltrs)	10 ltrs	40 ltrs
Brush speed (rpm)	140	240/140
Voltage (V)	230/12	230/24
Operating Weight-w/o Batteries (Kg)	45	70
Battery [in B version] (Ah)	12 V/65	24 V/100
Dimensions in mm (LxHxW) (mm)	620x1050x440	1226x960x455



## Walk-behind Scrubber Dryers



Simpla 50 is a higher capacity scrubbing machine with 50 cm working width. This machine's user friendliness is the result of high technological content. It is suitable for maintenance and deep cleaning of large areas where the utmost discretion is required during cleaning operations.

They stand out in their segment thanks to:

- their robustness • their manoeuvrability • the silence which offers high work comfort • the reliability • the ease of use • the innovative design
- limited operating costs



Adjustable handle having all controls on it making it highly user friendly machine



HDPE tanks which is shock resistant and acid resistant. Removable recovery tank for easier maintenance and for battery ventilation during charging

### SIMPLA 50 E/B

The CM 551 E/B scrubbing machine is designed to carry out daily maintenance operations as fast as possible. It is:

- Easy to fill • Easy to empty • Easy to clean and sanitize • It's technical and design devices makes the machine extremely reliable and efficient • Provided with key for switching on the machine which restricts from unauthorized persons operating the machine • Provided with level Indication tube for monitoring the solution level in the solution tank • Comes with parking brakes • Provided with HOUR METER for monitoring the machine usage time



### CM 551 E/B



Powerful insulation suction motor for lower noise level and better cooling.



Manoeuvrability and gradual working speed adjustment. Excellent ergonomics and visibility.



Mechanical parking and service brake



Efficient design enabling complete drainage in quick time



Thanks to a pedal the scrubbing head can be raised very easily and without effort



Bigger tank capacity, solution level indicator



	SIMPLA 50 E/B	CM 551 E/B
Scrubbing width (mm)	510	510
Brush dia (mm)	1x510	1x510
Brush Pressure (kg)	25-30	30-40
Productivity rate (sqm/h)	1785 sqm/h	2040 sqm/h
Solution tank (ltrs)	50 ltrs	60 ltrs
Recovery tank (ltrs)	55 ltrs	65 ltrs
Brush speed (rpm)	250	210
Voltage (V)	230/24	230/24
Operating Weight-w/o Batteries (Kg)	86	150
Battery [in B version] (Ah)	24 V/100	24 V/100 (In B version)
Dimensions in mm (LxHxW) (mm)	1080x980x555	1418x1039x530

## Compact Ride-on Scrubber Dryers



**INNOVA 55 B**

Innova 55 B is a ride on scrubbing machine with automatic traction, available in battery version with single disc brush of 56 cm working width. Thanks to its very compact dimensions, the machine is able to replace a traditional walk behind scrubbing machine in maintenance cleaning of floors. Indeed, with the same investment intended for a walk behind model it is possible to have Innova 55 B that is more user-friendly and faster in cleaning operations. The reduced dimensions and the driving wheel of automotive inspiration give to this model the needed maneuverability to perform in small spaces, going very easily around obstacles to complete cleaning operations in shorter time than a walk behind scrubber with a considerable saving on cleaning costs.



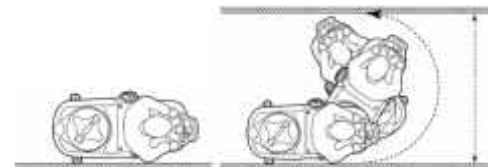
Quick Filling of the solution tank



**Design:** The lower footboard and access from both sides make it safer and more practical



All the components are protected inside the machine unite. This means less risk of breaking in case of accidental impact, avoiding additional repair costs and ensuring a longer working life.



Cleans perfectly along walls without any need for manual cleaning operations. Minimum aisle turn 1540 mm.



It can be used in small and cluttered environments where usually a walk behind scrubbing machine is used, but it is more comfortable and faster



The elements requiring daily maintenance can easily be identified by their yellow colour. At the end of work shift the operator can quickly see which parts need sanitising, without wasting any time. This increases machine efficiency and keeps its value high.



**INNOVA 55 B**

INNOVA 55 B	
Working width (mm)	560
Brushes ø (No.) (mm)	560(1)
Brushes pressure(kg)	30
Brushes (rpm)	140
Squeegee width (mm)	705/800
Solution tank (Ltr)	65
Recovery tank (Ltr)	75
Productivity @max fwd speed(m <sup>2</sup> /h)	3000
Brush motor (V/W)	24/400
Suction motor (V/W)	24/310
Traction motor (V/W)	24/300
Forward speed (km/h)	0-5
Batteries (V/Ah)	24/100
Operating Weight (w/o Batteries) (kg)	110
Dimensions (LxHxW) (mm)	1265x1030x600



## Professional Ride-on Scrubber Dryers



**TRIPLA 85 B**

Tripla 85 B is a Battery driven Ride-On Scrubbing machine with a working width of 85 cm. It is suitable for maintenance cleaning of surfaces upto 5100 sqm per hour and is one of the most safe, productive & user-friendly Scrubbing machine.

- Low centre of gravity for optimum stability. Capable of ramp gradients upto 18%
- Automatic swing-in of the brush head when accidentally impacted
- Automatic squeegee uncoupling when accidentally impacted
- Best manoeuvrability even in narrow spaces thanks to tight turning diameter
- Easy & complete tank sanitizing



Equipped with "ECO" DEVICE that guarantees a very low acoustic pressure level, allowing to perform in highly noise-sensitive environments such as nursing homes and hospitals.



Thanks to the optimization of energy consumptions Tripla 85 can be used for up to four non-stop working hours.



Equipped with easy and intuitive working program selector that allows to choose the selection of four pre-set working programs: Transfer, Drying, Scrubbing/Drying



Automatic swing-in of the brush head and squeegee uncoupling when accidentally impacted avoiding to damage the machine or the environment.



Option to store additional mops or chemical cans in the machine



Foot lever to adjust brush deck pressure from 30 Kg up to 60 Kg to suit the level of cleaning



Squeegee with double swinging movement to dry also on very narrow bends



**TRIPLA 85 B**

TRIPLA 85 B	
Working width (mm)	850
Brushes ø (No.) (mm)	430(2)
Brushes pressure(kg)	30-60
Brushes (rpm)	170
Squeegee width (mm)	1085
Solution tank (Ltr)	110
Recovery tank (Ltr)	125
Productivity @max fwd speed(m <sup>2</sup> /h)	5100
Brush motor (V/W)	24/450(2)
Suction motor (V/W)	24/310
Traction motor (V/W)	24/400
Forward speed (km/h)	0-6
Batteries (V/Ah)	24/225
Operating Weight (w/o Batteries) (kg)	223
Dimensions (LxHxW) (mm)	1495x1320x680





## Professional Ride-on Scrubber Dryers

Optima 85 B is a ride on scrubbing machine with a robust design, suitable for working in different environments, both commercial and industrial, ensuring excellent performances, even for the deep cleaning of various hard floors such as warehouses, logistic centers or finer surfaces such as in shopping malls.

Comfort and complete control over the machine ensured by the operator position and easy controls, enhance the results during the operations. The big tanks capacity increases working autonomy while quiet operations allow to perform also in daytime without disturbing the people around: such features guarantee great efficiency and productivity.



**OPTIMA 85 B**



User friendly control panel with working program selector, forward / backward gear selector and emergency button



Double vacuum motor as standard



New dosing system with button controls (optional)



Simple cleaning of suction filter and recovery tank



Automatic electrobrake



**OPTIMA 85 B**

OPTIMA 85 B	
Working width (mm)	850
Brushes ø (No.) (mm)	430(2)
Brushes pressure(kg)	85
Brushes (rpm)	140
Squeegee width (mm)	1120
Solution tank (Ltr)	160
Recovery tank (Ltr)	160
Productivity @max fwd speed(m <sup>2</sup> /h)	5525
Brush motor (V/W)	24/500(2)
Suction motor (V/W)	24/320(2)
Traction motor (V/W)	24/1000
Forward speed (km/h)	0-6.5
Batteries (V/Ah)	24/320(1)
Operating Weight (w/o Batteries) (kg)	320
Dimensions (LxHxW) (mm)	1777x1265x892



# Heavy Duty Ride-on Scrubber Dryers



Heavy-Duty Scrubbing machine for maximum productivity and low life cycle costs. Suitable for the maintenance and deep cleaning of medium- and large-size work, industrial and service spaces. Thanks to the adjustment of the pressure up to 100 kg, Ultra 100 B is suitable for the cleaning of very heavy dirt.

The machine has been designed to make the operator's job as comfortable as possible and to be extremely user-friendly even for unskilled staff. Ultra 85/100 can boast excellent low-noise levels thanks to the suction motor fitted inside a double-wall tank made of insulating polyethylene. Its step-through design ensures excellent accessibility to the driver's seat from either sides as well as excellent operating safety.

Ultra 85/100 is born with: A device to reduce speed when going round a bend; When traction stops so do the brushes and the supply of water; Acoustic alarm when reversing; Clean water level pilot light; Electronic float for the recovery tank.



**ULTRA 85/100 B**



Brushes pressure up to 150 Kg (max)



The new CDS Comac Dosing System is available on request (optional) Comac water and detergent dosing system. Separation of the two liquids is regulated by two separate selectors which means you can always work with the right amount of solution. By using this device production is increased and work costs can be controlled.



The suction motor has been designed to be fitted behind a double wall cover to ensure sound insulation. In this way, noise levels are considerably reduced and cleaning operations are made extremely silent. For the most demanding customer, the suction head has been designed to accommodate also an additional suction motor which can be supplied as optional extra.



Reduced squeegee dimensions, as wide as the machine, but thanks to "V" shaped splash guards and to suction, efficient drying even on bends is guaranteed.



Ultra 85/100 B - Thanks to a system developed by Comac, the squeegee can be rotated by the operator till the horizontal position. This ensures a perfect cleaning of the squeegee rubbers and an excellent constant drying



Thorough cleaning of the recovery tank, thanks to the large-diameter discharge outlet. An additional discharge hose is also provided for inconveniently located drain traps that are hard to reach



	ULTRA 85B	ULTRA 100B
Working width (mm)	850	1000
Disc brushes ø (No.) (mm)	430(2)	510(2)
Brushes pressure (kg)	130(max)	150
Brushes rpm	180	180
Productivity @ max fwd speed (m <sup>2</sup> /h)	5525	6500
Squeegee width (mm)	1115	1265
Solution tank (Ltr)	200	200
Recovery tank (Ltr)	215	215
Brush motor (V/W)	36/1500	36/2000
Suction motor (V/W)	36/670	36/670
Traction motor (V/W)	36/1500	36/1500
Suction vacuum (mbar)	190	190
Drive Power (V/Ah)	36/360	36/360
Forward speed (km/h)	0-6.5	0-6.5
Operating Weight (w/o Batteries) (kg)	535	556
Dimensions (LxHxW) (mm)	1965x1560x895	1965x1560x1045



# Industrial Ride-on Scrubber Dryers



**C 130 D/B**

The most robust battery/diesel operated heavy duty scrubber drier which is suitable for the cleaning of large industrial and commercial areas, railway stations and airports.

The machine has 4 counter-rotating brushes to effectively scrub the floor with an adjustable pressure up to 180 kg, and one cylindrical brush to convey dirt into the removable hopper. Double cleaning action all along the 130 cm working width is thus ensured. Despite its large size, the machine is maneuverable and user-friendly and is equipped with electronic check control system.



Removing the squeegee rubbers is very easy. Use a hammer to gently tap the hinged couplings to open them and pull out the squeegee rubbers.



The driver's seat has been designed to ensure the utmost comfort. Controls are all grouped on the instrument panel for easy use. Thanks to an electronic system, the machine is extremely user-friendly and highly automated so that all components can be constantly checked by means of a specially designed check panel.



Dirt is collected into a special hopper by the cylindrical brush. Hopper emptying is very simple. Just pull it out laterally from the bottom of the machine and it slides out along the guides.



C130 Diesel - Radiator with blowing fan



The tanks can hold up to 360 litres of detergent solution. They can be emptied through the hose at the bottom on the back of the machine. Filling up and cleaning are easily performed through the large openings on top of the machine



The headlights kit grants excellent visibility and driver safety in irregularly-shaped and poorly lit spaces as well as during night shifts



Easy access to the suction motor by simply removing the protection cover



C 130 D/B	
Working width (mm)	1300
Disc brushes ø (No.) (mm)	345(4)
Brushes pressure (kg)	130-180
Brushes rpm	220
Productivity @ max fwd speed (m <sup>2</sup> /h)	7800
Squeegee width (mm)	1460
Solution tank (Ltr)	360
Recovery tank (Ltr)	380
Brush motor (V/W)	36/1125
Suction motor (V/W)	36/1170
Traction motor (V/W)	36/2000
Suction vacuum (mbar)	221
Drive Power	20 Kw Diesel-3 Cly / 36V/720Ah
Forward speed (km/h)	0-6
Operating Weight (w/o Batteries) (kg)	840/840
Dimensions (LxHxW) (mm)	2250x1880x1340



# Minimono Series



MINIMONO ES153 B

Introducing state-of-the-art scrubbing machines for Hard-to-reach areas in your workplace. These are ideal machines to clean staircases, washrooms, ledges, Laboratories, walls, and many more places with similar challenges. Its light weight brings in operator's comfort and ensures speed of operation, thus enhancing productivity.

**ES 153 E/B:** Equipped with a long handle, this mini scrubber could work efficiently on stairs and under furniture. It is available in Electric and Battery versions which provides options to the user / buyer.

**ES 155:** A Light weighted handheld version, useful to scrub vertical surfaces and tricky areas like washrooms and walls. This is available in Electric version.

**Standard Accessories:** ES 153 comes with the brush and water tank (and battery with charger in case of battery version) and ES 155 comes with the Brush.

**Optional Accessories:** All the machines could have optional accessories like tynex brushes for hard applications, special brushes for scrubbing vertical surfaces and skirtings, pads and pad holders for light polishing activities.



Pad Plateau Pimples Tampico Brush Tynex Brush Angle Brush Nylon Nylon Brush Slice Nylon Brush Angle Brush Tynex Velcro Tank 2.5 ltrs Articulation



	ES 155	ES 153 Electric	ES 153 Battery
Power (W)	60	60	60
Rotation Speed (Trs/min)	300	300	300
Brush Pressure (g/cm <sup>2</sup> )	15 - 22	19 - 28	32 - 48
Voltage (V)	220-240	220-240	12
Frequency	50-60	50-60	-
Type of plug	EUR	EUR	Battery 7.2A
Cable Length (M)	10	10	-
Diameter (mm)	150	150	150
Theoretical performance (m <sup>2</sup> /h)	25	45	45
Sound pressure level (dB)	55	55	55
Dimensions Lxwxh (cm)	43x15x24	43x15x105	43x15x105
Weight (kg)	3.8	4.8	4.6
Weight (kg)	-	-	with battery 8.2



# Single Disc Scrubbers



Comac produces a complete range of single disc machines ideal for the restoration, in-depth cleaning or mirror-like polishing of floors. These are highly reliable and polyvalent professional single disc machines with a range of accessories to resolve more specific cleaning challenges.

Depending on the type of work, one can choose between low, medium and high speed models with belt, nylon and steel gearbox drive of varying weights and with different motor powers.

The features which make these machines unique are:

- Hollow Aluminium Handle for operator comfort
- Operational safety features
- Unique Tank which couples as bucket
- Motor Power highest in class



Mega 43



Innovative bucket type tank



Nylon gear (Mini 33 & Mega 43) for long life, high reliability and quiet operation



Controlled weight distribution for good balance so that use without causing operator fatigue is ensured

The UHS 1500 is a high speed single disc machine or burnishing machine suitable for all dry restoration and polishing tasks.

- Exceptional balancing system
- Special transportation wheels
- Quiet operation



UHS 1500



Gas spring assisted system which ensures disc pressure on the floor is kept constant regardless of the drive handle position. In this way the surface does not get burned or damaged



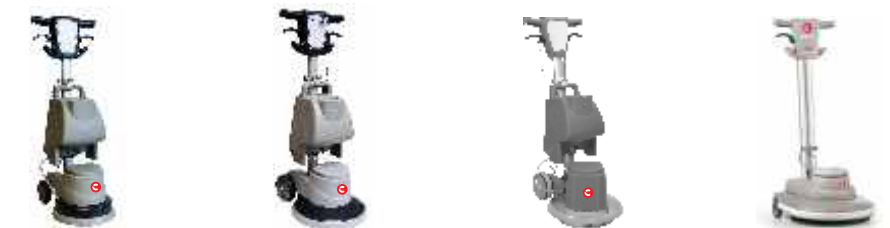
Very powerful, heavy-duty motor with rpm adjustment according to the machine strain



For easy transport, just tilt the machine back on the rear wheels and push it



Locking system



	Mini 33	Mega 43	CM 43 Duo	UHS 1500
Working Width	330 mm	430 mm	430 mm	500 mm
Net Weight (Without Tank)	33 kg	40 kg	40 kg	36 kg
Brush Speed	155 rpm	155 rpm	180/400 rpm	1500 rpm
Transmission	Gear Box	Gear Box	Belt Drive	Direct Motor
Voltage	230 V	230 V	230 V	230 V
Frequency	50 Hz	50 Hz	50 Hz	50 Hz
Motor	1100 W	1100 W	1100/1400 W	1100 W
Protection Grade	IPX4	IPX4	IPX4	IPX4
Cable Length	15 m	15 m	15 m	15 m
Dimensions in mm(LxWxH)	515x370x1155	567x450x1200	562x450x1201	647x542x1210



# Heavy Duty Scrubbers



TOR 43 is a new concept single disc machine recommended for heavy duty works. It has an orbital movement that enhances the performances of a regular single disc machine. The high frequency oscillations get stability and manoeuvrability even with a weight of 65 Kg (without accessories). Moreover, the particular orbital movement makes its use very easy for any operator, that has not necessary to be endowed with distinctive physical strength, reducing also training time.



TOR is suitable for heavy duty cleaning, stripping, crystallization, polishing and honing of marble, stone, cement and wood floors



Energy consumption is remarkably reduced and allows to work also where the available electrical power is not very high

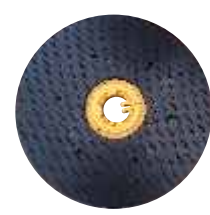
**TOR 43**

Standard accessories for Mega and Mini series : • Brush • Pad Holder • 15 Ltr Tank

Optional accessories for Mega and Mini series : • Shampoo Brush • Scrubbing / Polishing Pads (made in Italy)



Scrubbing Brush



Pad Holder



For Shampooing Carpets



Abrasive Bristles

Wide range of Pads



Green Pad (For Stripping)



Red Pad (For Polishing)



White Pad (For Buffing)



Cream Pads (For Burnishing)



47-years old company producing a wide range of quality abrasive products and floor pads for the diverse needs of the world of professional cleaning and construction.



	Mega 50+	TOR 43
Working Width	500 mm	430 mm
Net Weight (Without Tank)	43 kg	65 kg
Brush Speed	155 rpm	1400(Oscillation/Min)
Transmission	Gear Box	Direct Drive
Voltage	230 V	230 V
Frequency	50 Hz	50 Hz
Motor	1800 W	1100W
Protection Grade	IPX4	IPX4
Cable Length	15 m	15 m
Dimensions in mm(LxWxH)	644x523x1200	700 x 493 x 1200

**Mega 50+**





# Sweepers





# Sweepers



**CS 65 A**

Compact walk behind sweepers offer extremely maneuverable cleaning of small to medium sized area for indoor and outdoor use. It is three times faster than conventional manual sweeping, Highly efficient than conventional broom, Saves time, labour and running cost.



Adjustable side brush for corner cleaning

Hand operated knob to adjust cylindrical brush pressure



Easy maintenance of machine without use of any tool

The CS50 sweeping machine is suitable for the cleaning of small indoor areas or highly cluttered medium-to-large spaces. The machine can be battery- or petrol-powered and has a 65 cm working width (including the side brush).

- The handle bar grip, made of comfortable plastic material, makes operation of control levers extremely easy.
- The panel filter, with its large filtering surface, retains dust particles very effectively
- The front and side flaps play an important role in avoiding raising dust during operation.
- The sturdiness of the CS50 means it can be used on irregular surfaces without problems.



**CS 50 H/B**



The easily replaceable 2.5 sq. m panel filter and the electric filter shaker (optional) facilitate operations even in very dusty environments. Dirt is directly transported into a robust and lightweight dirt hopper for easy effectiveness.



It is indispensable when cleaning up corners and along walls. In case of very dusty floors, to avoid raising dust, the brush may be lifted up, stopping its rotation.

It allows consumption savings and greater safety, as the brush only rotates when the machine is working.



	<b>CS 65 A</b>	<b>CS 50 H</b>	<b>CS 50 B</b>
Central brush width(mm)	460	500	500
Working width(with side brush) (mm)	700	650	650
Number of side brushes / ø mm	1/280	1/380	1/380
Productivity @ max fwd speed (m <sup>2</sup> /hr)	1500	2600	2600
Forward speed(km/hr)	0-2.5	0-4	0-4
Debris hopper capacity (Ltr)	45	40	40
Drive Power	Manual	3Hp (Honda)	12V / 100 AH
Filter Shaker	–	Mechanical	Mechanical
Filter surface area(m <sup>2</sup> )	–	2.5	2.5
Weight (W/O batteries) (kg)	29	70	67
Dimensions(LxHxW) (mm)	540x900x320	1430x1000x660	1430x1000x660



# Sweepers



**CS 60 B**

## CS 60 B

This ride-on sweeper machine is suitable for the cleaning of small indoor areas or highly cluttered medium-to-large spaces. It is robust, compact and electrically-powered, which makes it particularly recommended for all applications where you need to combine work speed with manageability in indoor environments.



The waste hopper can be removed from the back for easy emptying.



Front flap lift for the collection of bulky waste

## CS 700 H/B

Cs700 B-H are ride-on sweeping machines with automatic traction, powered by battery or petrol engine, with a 70 cm working width (central brush). The versions with internal combustion engine (CS700 H) are equipped with a complete hydraulic system and have no electronic cards. This means increased reliability when working in particularly dirty conditions.



The central broom and side brushes may easily be replaced without using tools



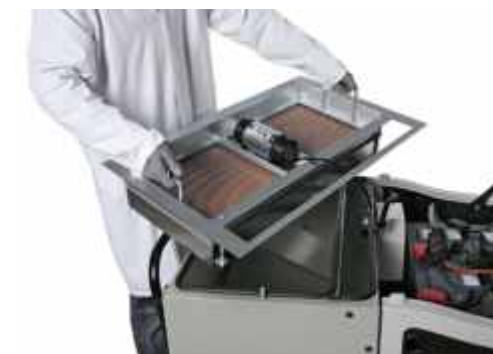
User-friendly control panel- To start working straight away, just turn the key and begin



Flap lifting device, activated by a pedal, making it easier to pick up coarse dirt



**CS 700 H/B**



Equipped with pocket filter that allows excellent filtering results even in environments where the presence of fine dust is very high.



	CS 60 B	CS 700 H/B
Central brush width(mm)	600	700
Working width(with side brush) (mm)	800	850
Number of side brushes / ø mm	1/400	1-2/400
Productivity @ max fwd speed (m <sup>2</sup> /hr)	4000	6300
Forward speed(km/hr)	0-5	0-6
Debris hopper capacity (Ltr)	65	90
Drive Power	24V / 100 AH	5.5Hp (Honda)/24V/225Ah
Filter Shaker	Electrical	Electrical
Filter surface area(m <sup>2</sup> )	3.2	5
Weight (W/O batteries) (kg)	160	297
Dimensions(LxHxW) (mm)	1280x1280x750	1600x1310x1080



# Heavy Duty Ride-on Sweepers



**CS 80 D/B**

Sweepers CS 80/110 /120- fully hydraulic ride sweepers for heavy duty applications They are suitable for cleaning the most resistant dirt on outdoor and indoor surfaces such as those of department stores, squares and car parks . They are available with a battery or a diesel engine with a work-track of 112 cm (Cs80), 142 cm (CS110) or 150 cm (CS 120) with 1 side brush.

To guarantee maximum driving comfort for the operator at all times and maximum reliability, all the main functions are hydraulic:

- Traction
- Lifting and emptying the rubbish container
- Rotating the brushes
- Vacuuming dust



The fabric bag filter, with a large filtering surface, is long-lasting and enables excellent results, even in environments with a high level of fine dust. The filter is easy to remove, without using any tool, in order to be cleaned up.



The front box for collecting dirt is lifted by a 2-piston hydraulic system operated by the handy control where the driver sits. Suction is operated by a hydraulic motor. Discharge height: 1.4 m



The central brush is the floating type and self-adjusts to keep in contact with the ground all the time



The machines are fitted with an innovative instrument panel, like the one you would find in a car, with instant display of all the functions. The innovative steering wheel has been designed to make driving extremely comfortable



The sweeping machines have been designed to ensure comfortable driving conditions for the operator. They have been studied in every detail: the driver's seat can be accessed from both sides and the elegant instrument panel allows the operator to have the situation always under control.



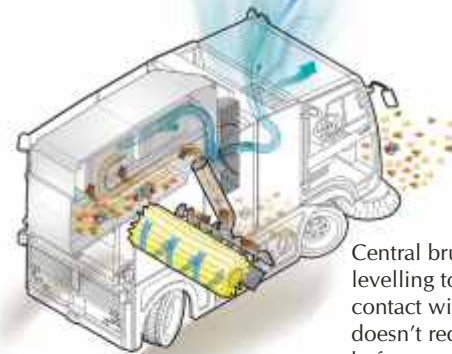
	<b>CS 80 D/B</b>	<b>CS 110 D/B</b>	<b>CS 120 D/B</b>
Central brush width (mm)	800	1100	1200
Working width + 1 side brushes (mm)	1120	1420	1550
Working width + 2 side brushes (mm)	1440	1740	1850
Number of side brushes/ø mm	1-2 / 500	1-2/500	1-2/500
Productivity@max Fwd Speed (m <sup>2</sup> /hr)	12960 / 12240	15660 / 14790	15725 / 12950
Forward speed (km/hr)	0-9 / 0-8.5	0-9 / 0-8.5	0-8.5 / 0-7
Drive Power Engine version	11HP Lombardini(1 Cyl)	20HP Perkins(3 Cly)	28HP Perkins(3 Cly)
Drive Power Battery (V/Ah) version	36/320	36/480	36/640
Dumping height (mm)	1400	1400	1400
Debris hopper capacity (Ltr)	370	485	600
Filter surface area (m <sup>2</sup> )	7	8	11
Weight (kg)	730 / 700	820 / 750	1100 / 990
Dimensions (LxHxW) (mm)	2020x1430x1130	2020x1430x1430	2330x1720x1510



# Integrated Sweeper - CS 140



CS 140 is a road sweeping machine which has been created to revolutionize urban and Industrial hygiene with exclusive Twin action technology. The twin action combines the performance of two machines in one single compact machine, thus providing two actions in one solution and ensuring maximum quality results. Roads, parking lots and large squares are currently cleaned using mechanical or suction collection machines. **The exclusive “Twin Action system”, designed and patented by Comac, combines the strength of mechanical action to collect larger waste and the efficiency of the suction action for finer dust to provide excellent results, reducing water consumption and facilitating use even in the most difficult conditions.**



Central brush is floating and self levelling to maintain constant contact with the ground. It doesn't require any setting before or during work.



Comac CS140 “Twin Action” road sweeper combines in a single machine the performances of two sweepers, combining two actions in one solution with the best cleaning quality.



**MOTOR :** Perkins Industrial Open Power motor with displacement of 4400 cc provides 100 HP (75 kW) at just 2000 rpm. It has been specifically developed for continue applications and low fuel consumption: this engine is particularly suitable for heavy and continuous work, even for prolonged daily work cycles.

- **SUCTION :** Suction turbine, powered by an hydraulic motor, can supply up to 14000 m<sup>3</sup>/h air flow and is adjustable to three suction levels, to be able to adapt performances as necessary.
- **DELIVERY AUGERS :** The screws are made of two steel shafts, both with a spiral which, hydraulically driven, rotate on the same axis.
- The augers are able to collect and reduce the volume of debris of various sizes. A safety system intervenes in case of very large waste from reversing the direction of their rotation.
- **CLOTH DUST FILTER :** The filter assembly has a surface of 50 m<sup>2</sup> and is equipped with two shakers for its cleaning; therefore ordinary maintenance is almost zero.
- **WASTE HOPPER :** Rear waste hopper, with its large capacity (2000 liters with filter, 3500 liters without filter) is lifted by two hydraulic pistons.



**DRIVING CABIN :** The interior has been designed to ensure maximum comfort and safety of the operator.



		CS 140
Working width with central brush	mm	1400
Working width with two side brushes	mm	2220
Central cylindrical brush diameter	mm	600
Side disc brushes diameter	mm	700
Waste hopper capacity (gross)	ltr	3500
Max. hopper dumping height	mm	1800
Air flow	m <sup>3</sup> /h	14000
Filter surface	m <sup>2</sup>	50
Suction motor power	kW	45
Engine		Perkins
Fuel		Diesel
Power	HP/kW	100/75
Motor revolutions	Rpm	2000
Length	mm	4580
Machine width	mm	1755
Machine height during work	mm	2500
Turning radius	mm	4250
Fuel tank capacity	ltr	105
Water tank capacity (optional)	ltr	200



# Commercial Vacuum Cleaners





# Carpet and Upholstery Cleaners



## Upright Carpet Cleaner Range

The CUV 18 is a professional upright vacuum cleaner with working width of 45 cm. with its exclusive design it offers technological solutions that improve efficiency and comfort during use. It boasts of :

- Excellent stability and manoeuvrability due to low centre of gravity
- Adjustable brush height to suit the surface to be cleaned by means of a practical selector knob



**CUV18**



Brush maintenance without tools. Cusp shaped brush to carry soil towards the area where suction is greatest. Aluminium bearing support



Automatic cut off if brush is clogged. Uncoupling pedal with safety clutch



Full dust bag warning light. 5-stage filtering: 2 in the bag, 1 on the motor and 2 supplementary stages. Possibility of using a HEPA filter



**Extract P 25**



A very powerful, multifunctional & versatile injection and extraction machine. It can also be used for wet & dry vacuuming.

- High capacity tank allows a quick and continuative use.
- Compact professional & versatile design
- Detachable motor with protection filter
- Wide range of standard accessories for excellent cleaning.



**Carpet**



Carpet is the ideal machine for washing tapestries and carpets which uses the exclusive foam system and high-efficiency suction system.

- The dense and compact foam is dispensed through a brush or a large carpet brush which simultaneously allows adequate mechanical action intensifying the cleaning effect.
- The subsequent suction completely removes the product leaving an almost dry fabric.
- 20 Ltr capacity of the detergent solution tank ensures a very long autonomy.
- Recovery tank is equipped with the efficient AIR STOP filter which cuts down even the smallest residual foam flakes, preserving the integrity of the suction motor.



	<b>CUV18</b>	<b>EXTRACT P 25</b>	<b>CARPET</b>
Voltage	230V/50 Hz	230V/50 Hz	230V/50 Hz
Power	900 W	1100 W	1650 W
No. of Motors	2	1	2
Airflow	49 ltr/sec	50 ltr/sec	59 Ltr/sec
Suction Power	23 kPa	22 kPa	25 kPa
Waste storage capacity	4.5 ltr	25 ltr	20 ltr
Dimensions cm (LWH)	-	40x40x65	72x34x64
Detergent Capacity	-	8 ltr	18 ltr
Pump Pressure	-	4 atm	4 atm
Weight	8.1 Kg	8 Kg	18 Kg
Brush speed	4500 rpm	-	-
Working width	45 cm	-	-



## Commercial Dry Vacuum Cleaners



The specialised solution for picking up all dry debris and dusts. Equipped with paper bags for easy collection and disposal. Ergonomic design and sturdy body enables it to be used on all commercial and professional applications. There are possible options available for filtration like paper bag, dust bag and HEPA filter.

Unique Features:

- Triple Filtration System
- High visibility, 15-meter Cordset
- Fast Changing Cordset System
- Warning Lamp to indicate 'Bag Full'
- Foot ON/OFF Switch
- Option to connect Electro Brush
- Accessories Holder
- Ergonomic Carrying Handle
- Active Charcoal & HEPA Cartridge Filter (Optional)



PICCOLO INOX



FV9 is a backpack vacuum cleaner very comfortable and handy to use. It can clean areas where conventional vacuum cleaners cannot be used such as buses, airplane cabs, trains or cinemas and theaters.

FV9 is very comfortable to be carried, thanks to its low weight, ergonomic shape and padded shoulders. The convenient tool belt help to make cleaning even easier, since all the accessories are within easy reach.

- **It is lightweight and ergonomic:** with adjustable padded shoulders and tool belt
- **It is handy:** thanks to the 360° swivel hose
- **It is efficient:** with 4 filter system
- **It is comfortable:** the 15 m cable guarantees a large working radius
- **It is effective:** equipped with a set of nozzles to meet any kind of need



FV 9



	PICCOLO INOX	FV 9
Power Supply	230 V / 50 Hz	230 V / 50 Hz
Rated power	1400 W	1200 W
Air Flow	50 ltr/s	32 ltr/s
Vacuum	29 kPa	21 kPa
Dust bag / tank capacity	15 ltr	4 ltr
Weight	7.5 kg	5.8 kg
Dimensions mm (LxWxH)	340x410x350	251x226x571
Cable Length	15 m	15 m



## Commercial Wet & Dry Vacuum Cleaners



High-performance wet and dry vacuum cleaners, thanks to ametek motors and high-capacity tanks. They are suited for picking liquid and light dust, with high degree of sturdiness and mobility.

- Ergonomic design with a sturdy frame
- Excellent suction capacity
- Ametek motor for high quality performance
- Twin motor option(ZW 77SS)
- SS body for usage endurance
- Low maintenance costs
- Wide range of accessories



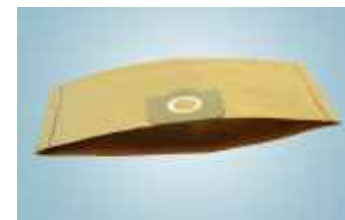
Sponge filter

Permanent cloth filter

A wide range of accessories



An additional nylon filter is available for vacuuming particularly thick liquids.



All models can be used with or without a recovery bag. (Optional)



The barrel rotation system facilitates emptying operations (Optional).



A high-efficiency HEPA filter can be fitted upon request.



	ZW 20 SS	ZW 35 SS	ZW 77 SS
Voltage	230V/50 Hz	230V/50 Hz	230V/50 Hz
Power	1350 W	1350 W	2700 W
Motor	Ametek	Ametek	Ametek
No. of Motor	1	1	2
Airflow	54 ltr/sec	54 ltr/sec	108 ltr/sec
Suction Power	22 kPa	22 kPa	22 kPa
Tank Volume	20 ltr	35 ltr	77 ltr
Dimensions cm (LxWxH)	36x36x57	36x36x76	51x60x95
Weight (kg)	7.5	9	20

**ZW 77 SS**



# Industrial Vacuum Cleaners





# Industrial Vacuum Cleaners



Single-phase powerful and versatile dry vacuum cleaner with 50 Ltr tank capacity for specific light to medium duty dust/debris pick up.

- Thanks to their compact size, they are extremely easy to handle, whilst tanks equipped with wheels and a handle facilitate emptying operations.
- The filtration system fitted as standard consists of a 13,000 sq.cm.
- L-Class filter, whilst M- or H-Class filters can be fitted for specific applications.



The external filter shaker facilitates filter cleaning operations with no need to open the appliance



The Cyclonic cone in stainless steel fitted as standard prevents the dust from settling on the filter and blocking it

## PRO SHAKER



Filter Shaker



Star Filter



HEPA Filter (Optional)

## M Series

High performance heavy duty single phase vacuum cleaners for multi-utility where the application demands greater suction & airflow. Ergonomic, robust & top performing design which ensures value for money & time.

- Large filter surface area of 1.95 sq mtr
- Electronic floats for absolute safety(optional)
- Optional Filters (M, H & antistatic) available
- HEPA filter available as an option
- Suitable for removal of microdusts



## M 100 T



All models can be fitted with a mechanical or electrical float



Handy accessory holder trolley with pivoting front wheels with brakes



The external filter shaker facilitates filter cleaning operations with no need to open the appliance 48



	PRO SHAKER	M 402	M 1003	M 100 T
Voltage	230V/50 Hz	230V/50 Hz	230V/50 Hz	230V/50 Hz
Power	3000 W	2200 W	3300 W	2200 W
Airflow	102 ltr/sec	108 ltr/sec	162 ltr/sec	83.3 Ltr/sec
Suction Power	29 kPa	22 kPa	22 kPa	30 kPa
Tank Capacity	50 ltr	40 ltr	100 ltr	100 ltr
Filtering surface	1.3 sq.m	1.95 sq.m	1.95 sq.m	1.95 sq.m
Dimension in mm (LxWxH)	600x620x1360	510x750x1240	660x920x1590	660x920x1720
Weight	37 kg	60 kg	86 kg	103 kg



# Industrial Three Phase Vacuum Cleaners



Powerful three phase industrial vacuum cleaners for applications requiring frequent movement in reduced spaces. Reliable and designed for continuous heavy duty use, they are recommended for tough tasks in several industrial sectors such as ceramics, chemical, mechanical and textile, etc. Ideal for vacuuming dust particulate and wharf chippings of whatever nature and liquids of any density.

- Fitted with a powerful turbine producing excellent suction
- Is equipped with a radial filter for high grade filtration
- Filters on request—Class M, H, Antistatic, Heatproof
- Powerful suction excellent vacuuming of the dust
- External manual filter shaker



70-50 mm iron reducer



Turbine silencer



Removable Cyclone Cone

**TRI 30 SS**



The external filter shaker facilitates filter cleaning operations with no need to open the appliance



The tank can be easily inserted thanks to a dedicated mechanism



Turbine lift handle for T 100 T



**T 100 T**



A metal turbine protection shield can be fitted upon request, as well as a vacuum gauge to check filter cleanness in real time(T 100 T)



All models can be fitted with a mechanical or electrical float.



Motor with Turbine



	<b>TRI 30 SS</b>	<b>T 100 T</b>	<b>T 75 S</b>
Voltage	440 V	440 V	440 V
Power	2900 W	2900 W	5500 W
Turbine No.	1	1	1
Suction Power	32 kPa	32 kPa	42 kPa
Air Flow	97 L/sec	97 L/sec	102 ltr/sec
Tank Capacity	50 ltr	100 ltr	100 ltr
Filtering Surface	1.3 sq.m	1.95 sq.m	1.95 sq.mtr
Dimensions (mm) LxWxH	610x1200x1330	660x920x1720	660x1240x1610
Weight	87 kg	103 kg	150 kg



# Industrial Three Phase Vacuum Cleaners



**T 60 TSP**

Powerful three phase industrial vacuum cleaner for applications requiring high degree of suction like picking up fine dust particles i.e. cement which tends to clog filter in very short time. These vacuums are highly ergonomic and extremely safe in most demanding applications.

- Very powerful suction
- Standard cartridge filter ensures high degree of filtration
- Pneumatic filter shaker
- Stainless steel tank, optional antistatic filters
- Easy maintenance



A 12,000 sq.cm. cartridge filter and a metal protection shield provide a superb filtering system



In order to clean the appliance, the user does not need to switch off the appliance - he/she only needs to action a lever and a pneumatic system thoroughly cleans the filter cartridge.



**T 100 T ATEX 22**

This is ATEX certified vacuum cleaner for use in areas where the maximum operating safety is required. It has been designed to work on dust with a potentially low explosion risk (potentially explosive areas classified as Zone 22).

They can therefore be used for cleaning ovens, in the chemical / pharmaceutical sector, mills, etc.



The tank can be uncoupled by means of a handle. Once uncoupled, the tank can be easily moved thanks to its four pivoting wheels.



Electrostatic charges are earthed by means of large diameter copper wires.

Wide range of optional accessories



	<b>T 60 TSP</b>	<b>T 100 T ATEX 22</b>
Voltage	440 V	440 V
Power	2900 W	2900 W
Turbine No.	1	1
Suction Power	32 kPa	32 kPa
Air Flow	97 ltr/sec	97 ltr/sec
Tank Capacity	60 ltr	100 ltr
Filtering Surface	1.95 sq.mtr	1.95 sq.mtr
Dimensions (mm) LxWxH	660x1240x1610	660x920x1720
Weight	105 kg	103



## Customized Cleaning Solutions For Core Industries

Cement, Power, Steel, Foundry, Ceramic, Glass, Ship Building, Mining ...

### Truck Mounted Units



This blue range can be used in any environment where cleaning or transport of considerable quantity of dusty, granular, liquid or muddy material in incorporated containers or in silos or forkable pre-separators of 1 or more m<sup>3</sup> is required.

Containers of various shapes and sizes, practical and efficient, all fitted with extremely high performance cyclones. Used with our large-scale suction systems they permit the collection of various materials with relative handling and emptying through the opening on the bottom or the lateral chute. Pre-separaters are available in sizes from 0.5 to 2m<sup>3</sup>.

The creation of a centralized suction system certainly has many advantages:

- Recovering materials within the production cycle.
- Transferring the material to a predefined collection point to then dispose of them in big bags or put them back into the production cycle.
- Keeping the production lines clean and efficient, thereby reducing maintenance costs.
- Improving the quality of the environment, reducing the risk of accident.



### Series S Big Vacuums

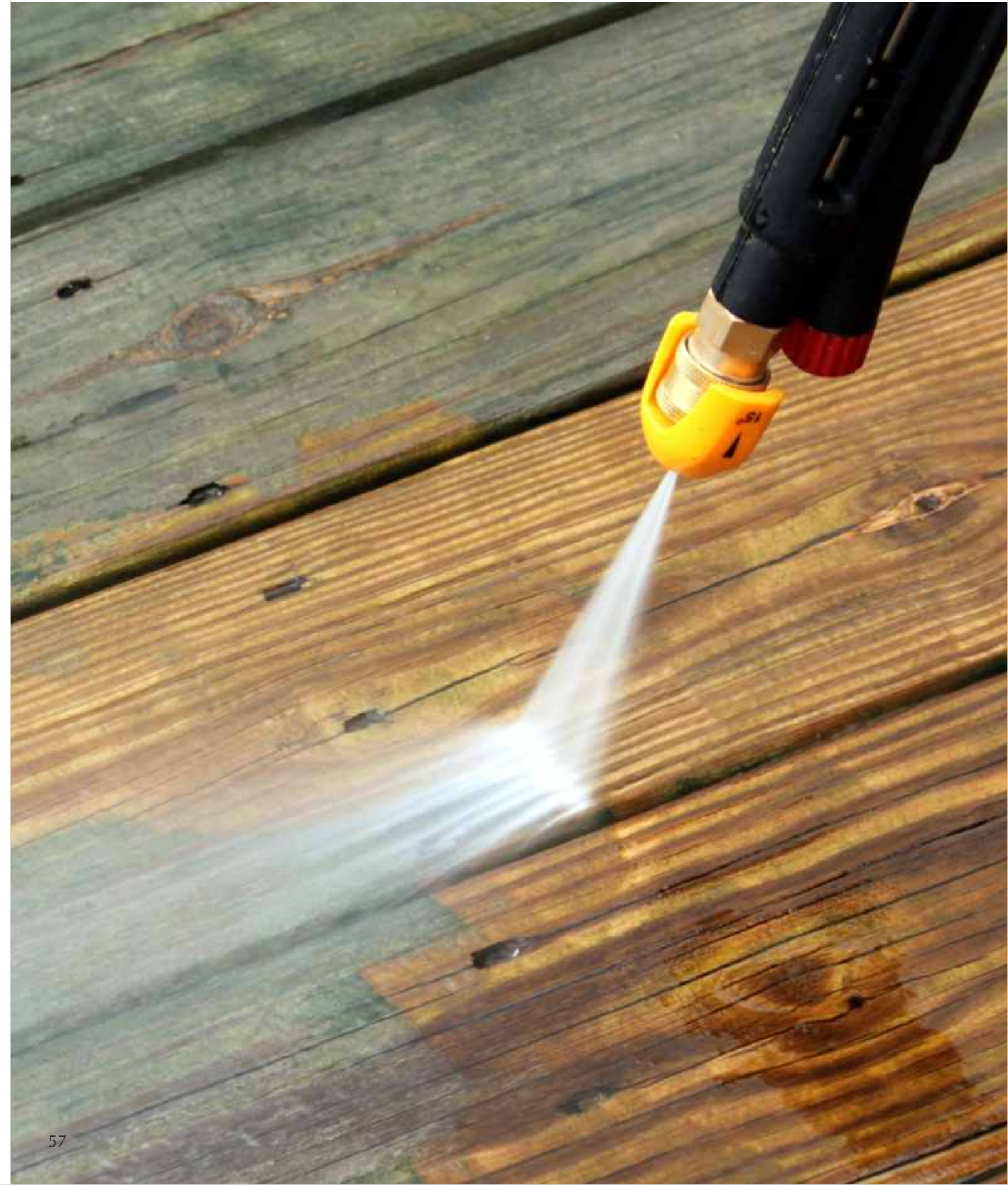


### Fixed Vacuum Systems





# Steam & High Pressure Washers





## Steam Cleaners

A new Compact yet advance machine adding value to the Sanitizer/ Steam Cleaner range beautifully justifying the Sanitization Process. It is effective in reducing microbial contamination and achieves 99.9% reduction of pathogens and reduce other organisms to a minimal acceptable level.

Machine is economical to use and process is non-toxic, non-corrosive.

It works on the principle of Physical Sanitization i.e. through thermal energy in form of Steam (above 150° C temp.). A major advantage of the heat is its ability to penetrate into small cracks and crevices.



**DIAMANT INOX**

**Key features:**

- Boiler capacity: 0.7 lt.
- Boiler power 2650 W
- Stainless steel body
- Continuous refill.



Compact, handy, powerful with "extraction cleaning" allows you to automatically add the detergent during the cleaning phase.

**Key features:**

- Steam cleaning with hot water or cleaning agent
- Wet and dry
- Carriage equipped with pivoting wheel with brake
- Modular construction
- Control panel with manometer and level indicator lights



**VC 6000**



	DIAMANT INOX	VC 6000
Maximum power	2650 watts	3400 watts
Boiler capacity	0.7 ltr	3 ltr
Boiler Pressure	6 Bar	8 Bar
Steam Temperature	158°C	169°C
Water tank Capacity	2 ltr	5 ltr
Voltage	230 Volts	230 Volts
Cable length	4.5 mtr	4.5 mtr
Time Before Start	4.5 Min	5 Min
Vacuum Motor	-	1200 W



# Single Phase High Pressure Cleaners



A wide range single phase high pressure washers suitable for washing purposes like cleaning in Washrooms, parking lots, automobile workshops, overhead tank cleaning and many more.



**KL Extra 1600**

- Vertical structure, designed for maximum ergonomics and ease of use
- Comet electrical pump with three axial pistons arranged vertically with pump at the bottom and an all-metal construction without any plastic used for the structural components.
- Brass pump head
- EASY-START device
- TotalStop device
- Motor thermal cut-out
- Quick water intake fitting



Easy-to-fit accessories    Hose reel at the back    Easy to handle thanks to the big wheels    Additional handle for lifting



**KA 3200 Classic**

- Compact size for storing and practical to use thanks to its vertical design
- Simple to transport horizontally in the car
- Comet Pump with brass head
- Pressure gauge
- Integrated professional pressure unloader valve
- EASY-START device on single-phase models
- Total-Stop device
- Rotary switch
- Regulated low-pressure detergent suction
- Motor thermal cut-out



Adjustable detergent suction device from an external tank with filter    4 ltr detergent tank, easily removed    15 m hose reel. Practical handle and stop device (optional)

## OPTIONAL ACCESSORIES



	KL Extra 1600	KA 3200 Classic	K 250 11/160M
Phase	1	1	1
Voltage/Frequency (V/Hz)	230/50	230/50	230/50
Pressure (Bar)	150	150	160
RPM	2800	2800	1400
Water Flow (Ltr/hr)	480	600	660
Absorbed Power (kW)	2.3	2.9	3.3
Detergent Tank (Ltr)	0.35	4	3.5
Fuel Tank (ltr)	-	-	-
Weight (kg)	13	36	37
Dimensions (LxWxH) cm	31x30.8x82	44x42x94	52x43x93



# Three Phase High Pressure Cleaners



Three phase powerful high pressure washers ranging from 180-230 bar pressure suitable for heavy duty applications.

### K 250

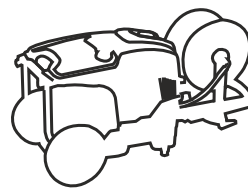
- Sturdy injection-moulded plastic casing
- Handy lance and gun storage
- Handle with supports for the power cable and delivery hose
- Easy maintenance by simply removing the front casing
- Big wheels (220 mm Ø) for easy movement up and down steps and over uneven ground
- Removable detergent tank with level that can be seen externally
- Detergent adjustment with filter
- Regulated low-pressure detergent suction
- Pressure gauge
- Integrated professional pressure unloader valve
- TotalStop
- Self-priming pumps with EASY-START device on single-phase models
- Rotary switch
- Motor thermal cut-out
- Hose reel available on request



**K 250 11/210T**



Can be used vertically



Can be used horizontally



**K 901 TS 21/180**

### K 901 TS 21/180

- Heavy duty structure with stainless steel cover
- Handy and secure housing of the hose reel (when applicable)
- Readily serviceable brass suction filter
- Pressure gauge
- Highly professional pressure unloader valve with external bypass
- Timed TotalStop
- Exclusive pump-motor coupling system for intensive use
- Contactor On - Off Switch
- Motor thermal cut-out



Big pneumatic wheels (320 mm Ø)



Brass inlet water filter



**K Premium 9.15**

### K Premium 9.15

- Easy maintenance by simply removing the front casing and taking the electrical pump unit out
- Big wheels (220 mm Ø); easy to handle also up and down steps and over uneven ground
- Extractable 3.5 litre detergent tank with level that can be seen externally. Fitted with filter, adjustment knob and an external tank suction system
- Pump with two oil sight glasses, external level viewer and brass pump head
- Flanged professional pressure unloader valve
- Timed TotalStop
- Rotary switch
- Electrical panel with contactor and thermal relay
- Motor thermal cut-out



Pressure unloader valve with a large and practical knob



Pump with two oil sight glasses and external level viewer



Well balanced for easy handling



	K 250 11/210T	K 901 TS 21/180	K Premium 9.15
Phase	3	3	3
Voltage/Frequency (V/Hz)	400/50	400/50	400/50
Pressure (Bar)	210	180	230
RPM	1400	1400	1400
Water Flow (Ltr/hr)	660	660	900
Absorbed Power (kW)	5.2	7.3	7.3
Detergent Tank (Ltr)	3.5	-	3.5
Fuel Tank (ltr)	-	-	-
Weight (kg)	44	70	58
Dimensions (LxWxH) cm	52x43x93	90x62x84	63x59x96



# Engine Operated High Pressure Cleaners



In places where availability of power supply is an issue the engine operated high pressure washers will offer the perfect solution. Equipped with Diesel (Yanmar) and Petrol (Honda) engines, which gives enhanced autonomy for the machines.

### FDX 2 13/180 P

- Honda GX series engine
- No engine-oil safety device (oil-alert)
- Comet self-priming triplex pumps, 3 ceramic pistons, brass pump head, bronze conrods
- Regulated low-pressure detergent suction
- Readily serviceable suction filter
- Professional unloader valve



**FDX 2 13/180 (Petrol)**



Easy to handle up and down steps and over uneven ground



Well balanced for easy handling

### FDX PRO 15/150D

- With 4 wheels of which 2 castors
- Yanmar L70 engine
- Regulated low-pressure detergent suction
- Readily serviceable brass suction filter
- Water suction from external tank option (self-priming pumps)



**FDX PRO 15/150 (Diesel)**



Easy handling thanks to the big pneumatic wheels



	FDX 2 13/180P	FDX PRO 15/150D
Drive	Combustion Engine	Combustion Engine
Type	5.5 HP Honda GX200	7.5 HP Yanmar L 70
Pressure (Bar)	180	150
RPM	3400	1560
Water Flow (Ltr/hr)	780	900
Absorbed Power (kW)	4.5	5.6
Detergent Tank (Ltr)	-	-
Fuel Tank (ltr)	5.3	3.5
Weight (kg)	34	69
Dimensions (LxWxH) cm	67x55x89	116x62x71



# Hot & Cold High Pressure Cleaners



To address to sticky and persistent dirt like grease and oil in kitchen and workshops. Hot & cold high pressure cleaners would be the most suitable. With a diesel fired boiler this could deliver water at 90°C which could be used in hospitals as a sanitizing method also.



**KD 2 300**

**KD 2 300**

- Fuel tank with level floater and fill up filter
- Regulated low-pressure detergent suction
- Direct water suction with readily serviceable suction filter
- Pressure regulation
- TotalStop device
- Pressure gauge
- EASY-START device
- Delayed burner start
- Safety valve
- Contactor
- Motor protected with a thermal relay
- Rotary On-Off switch
- Temperature setting thermostat
- "No fuel" indicator



Big rubber wheels (250 mm ø)



Motor pump unit with Comet AXR pump, unloader valve and brass pump head



Steam Lance



**KE Premium Plus 15/200**

**KE Premium Plus 15/200**

- Fuel tank with level floater and fill up filter
- Regulated low-pressure detergent suction
- Readily serviceable suction filter
- Professional pressure unloader valve with external bypass
- Self Priming pumps
- Timed Total Stop
- Pressure gauge
- Safety valve
- Boiler thermal protection
- Delayed burner start
- Low voltage control panel
- Contactor
- Motor protected with a thermal relay
- Rotary On-Off switch
- Temperature setting thermostat
- "No fuel" indicator
- "Machine switched on" indicator



Big solid wheels (260 mm ø)



Highly professional motor pump unit with patented coupling between motor with double bearing and the Comet RW Premium pump with 3 integral ceramic pistons and brass pump head. External bypass valve



Separate boiler fan unit



	<b>KD 2 300</b>	<b>KE Premium Plus 15/200</b>
Phase	1	3
Voltage/Frequency (V/Hz)	230/50	400/50
Pressure (Bar)	140	200
RPM	2800	1400
Water Flow (Ltr/hr)	600	900
Absorbed Power (kW)	3	7
Detergent Tank (Ltr)	13	13
Fuel Tank (ltr)	13	13
Weight (kg)	90	130
Dimensions (LxWxH) cm	90x71x86	103x71x86
Outlet Max Temp. (°C)	110	110



# Janitorial Tool & Cleaning Agents





## Professional Cleaning Equipments

Comac India presents an exclusive range of Manual cleaning tools to cover all the aspects of cleaning at a workplace. Based on a proven Italian design these products are modular and could be customized as per the requirement of the cleaning. A “reinforced” moulding technique gives the adequate strength to the products even in harsh conditions. The body is made up of polypropylene and the metal part is Rilsan Coated, which resists the corrosive action of the water and chemicals thus providing longevity to the equipment.

### Rilsan Coated Professional Cleaning Equipments

Rilsan is a natural product (powder) from the “ricinus” plant (tree) and can be applied in two different ways :

- 1) By spraying (electrostatic system)  
Coating applied: 90-120 micron
- 2) By dipping. Coating applied: 300-400 micron

We follow Dipping method which has following benefits :

- 1) Rustproof
- 2) Smooth & pore-free
- 3) Weather resitant
- 4) Durable
- 5) Maintenance-free

### Professional Training Programmes

Comac offers a variety of training programs on professional cleaning equipments not only for internal team but customers and channel partners as well. These programs cover the functional and technical aspect of this range, which are conducted at Comac Academy of Cleaning Science in Delhi and other cities. These programs, aimed at enhancing knowledge and expertise of our esteemed customers on highly sophisticated and user friendly range, clearly indicates the advantage Comac has over competition.

### Partner with leaders in Professional Cleaning equipments

VDM is an Italy based company operating in the field of cleaning since 1980. It manufactures professional cleaning equipments, exclusively designed by its R&D department, in its factory in Arese (Milan). VDM was the first company to introduce rilsan coating as rustproof protection on a complete line of trolleys & manufacture stainless steel trolleys.



### GIPSY – Multi Purpose Set



Window Bucket for Gipsy, 6 ltr capacity



This part can be detached and used as a stool for cleaning non reachable areas like ceilings and walls



### Micro Fibre Cloth

### Bucket Trolleys



MAC 50 R + P



SKY 2.25

### Service Carts



Ideabase 6 PL



MX 303

### Hotel Line



Capri 2



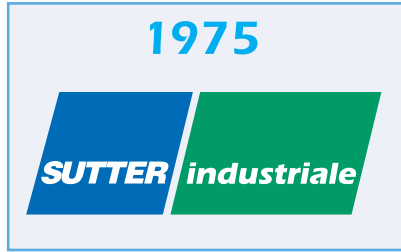
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# All Purpose Cleaners



## Partnering the best



**SUTTER** was founded in Switzerland in 1858. Today it consists of a group of Companies that design, produce and market top quality chemical products for the clean maintenance of every kind of room and environment. The companies, located in several countries across two continents, cater to both the "professional" and the "consumer" markets.

**1858** Adolf Sutter Establishes the company Krauss-Sutter for the production of vinegar apples in Oberhofen / Munchwilen, in the Swiss canton of Thurgau.

**1965** Sutter introduction in the professional cleaning market with **SUTTER TASKI** brand launch.

**1975** creation of "Sutter Industriale" brand, which became "Sutter professional" in 1996.

**1980** International development start up (Spain, Portugal, Argentina) and moving of headquarters and production facilities from Genoa to Borbera.

**2004** Start-up of Procter & Gamble and Sutter professional alliance for the distribution of professional products in Italy, Spain and Portugal.

**2011** Launch of professional chemical range for the Indian market.



### WOOD CARE



SPLENDI LEGNO

### BATHROOM



WC REIN



KLAR

### FLOOR CARE



METEOR PARQUET



CRIS

### DEGREASER



6000



CLEANER 2000

### HAND CARE



LOTION CREAM ECOLABEL

### DESCALER



DAL



DECALC

### CARPET CARE



INI-MOK



DRY MOK







# Training and Skill Development

## @ YOUR SERVICE

- *Minimum Downtime-with Experienced Technical Support*
- *Prompt Complaint Response- Through dedicated Call Centre*
- *Spares Back-up- Proactive deliverance of spares and consumables*
- *Equipment Life cycle support: AMC & CMC, refurbishing for a 'second life'*
- *Ease of contact: Tollfree number 18001039164*
- *Anytime anywhere: Nation-wide network*

PROVIDING INTERACTIVE USER PLATFORM  
[www.comacindia.com](http://www.comacindia.com)







“CONNECTING  
CLEAN INDIA”



**Comac India Private Limited**

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*professional people*