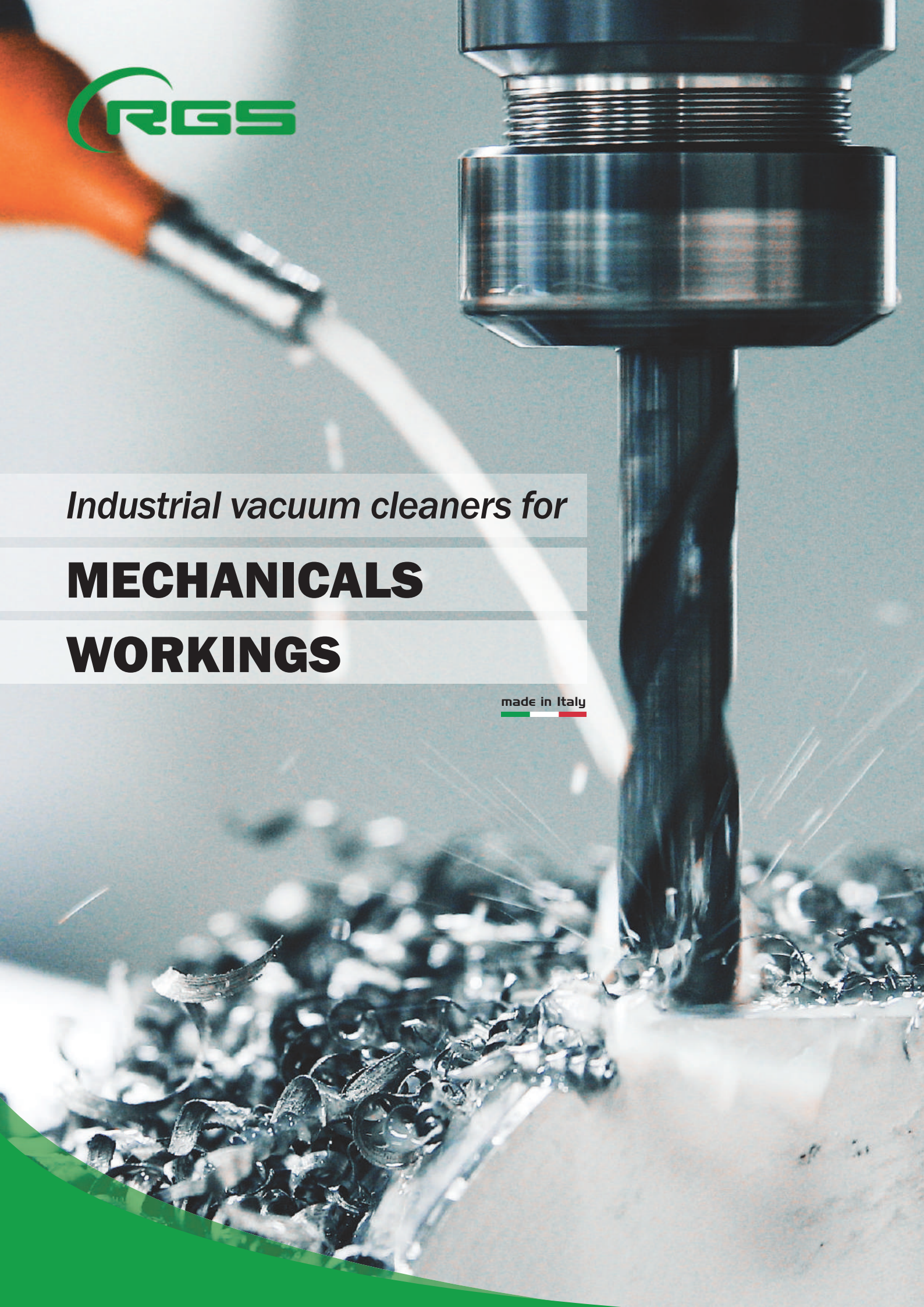


Industrial vacuum cleaners for

MECHANICALS WORKINGS

made in Italy

A full range for cleaning machine tools

Suction chips, oil and emulsions, separate solids from liquids, filter sludge deposits and reuse the sucked fluid by putting it back directly into the machine tools: to meet these needs, have been designed the models of vacuum cleaner **series OIL**.

Thanks to the use of the best available technologies supported by a robust and reliable construction, as well as by a consolidated experience in the field, **OIL models are the ideal solution for emptying and cleaning the tanks of machine tools**, allowing considerable savings in time and expensive liquid.

The use of industrial vacuum cleaners OIL series allows to **reduce by 80% the time used** for the normal cleaning and the restoration of numerical control working centers.

1 OIL SERIES - suction of chips and liquids

- chips
- liquid

2 OIL SERIES - unloading of chips and liquids

- chips
- liquid

The OIL series

The industrial vacuum cleaners of the **OIL series** are specific for the **extraction of oils mixed with shavings and metal particles**, and for the **filtration of the emulsified oil**.
Created to suck, separate and recover the solid parts with the ability to discharge the clean oil through an ejection system.

When the liquid inside the container reaches the maximum level, the suction is automatically stopped and by means of the expulsion system it is possible to empty the container.
The collected chips remain inside a filter basket, while the liquid part can be simultaneously expelled.

The range of products consists of models with *single-phase motor* and more capacious versions with *three-phase motor*.

I = *with reverse flow*
P = *with independent pump*
IMEC = *with mechanical float*

ONE103OIL

A104OIL

A204OIL-IMEC
A204OIL-I/P
A207OIL-P

A407OIL-P
A615OIL-P

ONE1030IL

Compact and handy single-phase industrial vacuum cleaner, suitable to be placed alongside even the smallest machining centers, equipped with **3 powerful single-phase motors with independent starting** thanks to which it is possible to always obtain the right suction power.

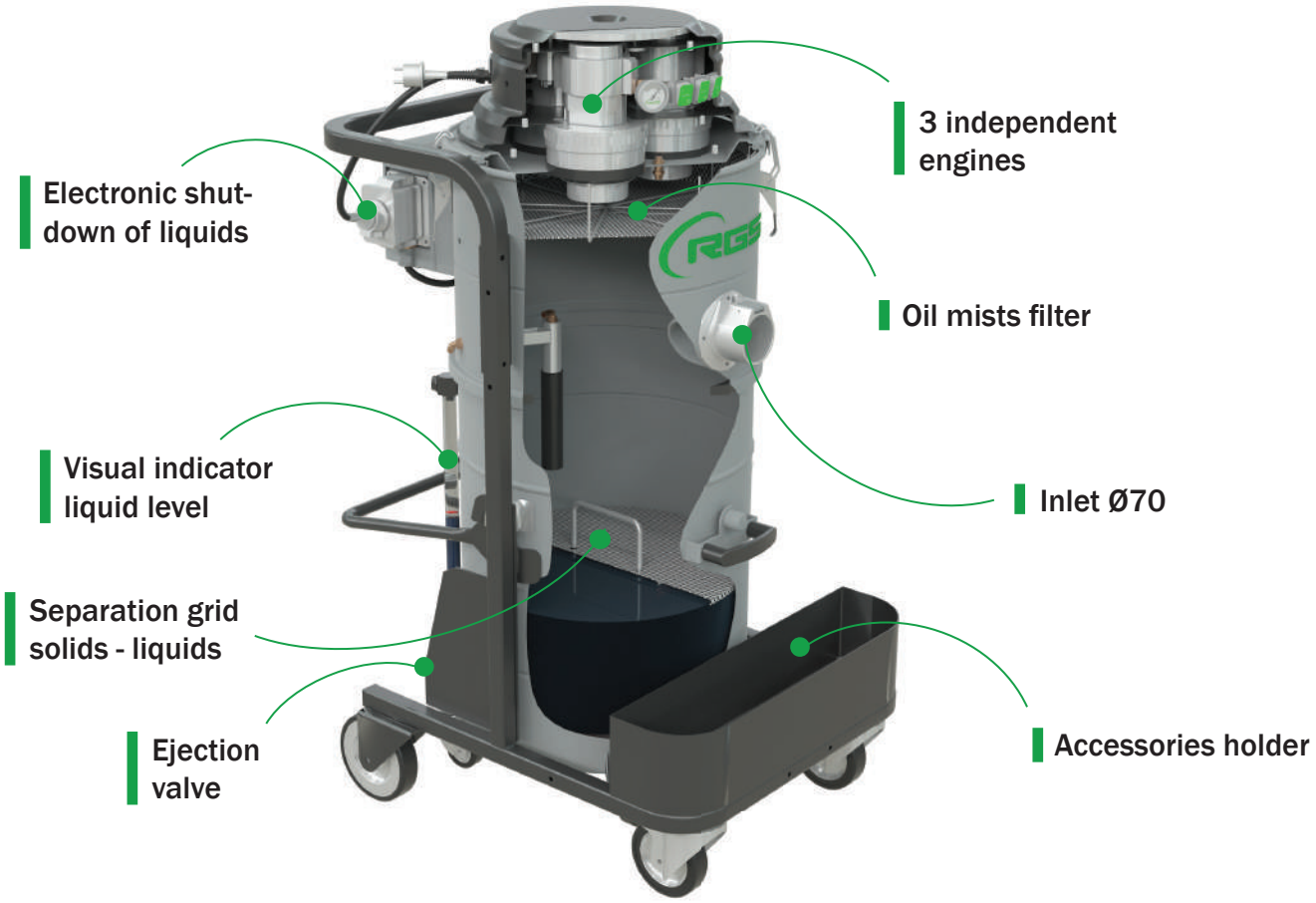
The automatic liquid stop system allows you to always suck the right amount of liquid **ensuring the safety of the workers and simplifying operations**, while the discharge of the sucked fluid is simply made by acting on the tap valve on the bottom of the barrel.

Technical data

Legend	Unit	ONE1030IL
Tension	V	1~ 230-400V/50Hz
Power	kW	3.3
Depression max	mbar	210
Air flow max	m^3/h	510
Standard liquid discharge system	-	Ball valve
Liquid capacity *	L	100
Solid capacity *	L	40
Liquid shutdown	-	Electric
Inlet suction	mm	70
Filter	-	Oil mists
Noise level	dB(A)	75
Size	cm	78x64x120h
Weight	kg	62
Protection	IP	44

** not at the same time*

The details that make the difference



Advantages

> **Compact and versatile** single-phase vacuum cleaner
> **Practical handle** for easy transport
> Suitable for **the suction of liquids and solids**
> **Detachable tank** for easy emptying
> **Accessories holder** to always have them at hand
> **Reduction of machine downtime up to 80%**

A1040IL

Industrial three-phase vacuum cleaner, compact and versatile, **suitable to operate for long periods** even in the most demanding applications. It has the same basic characteristics as the ONE1030IL, but differs for the type of vacuum pump and for the discharge system of liquids.

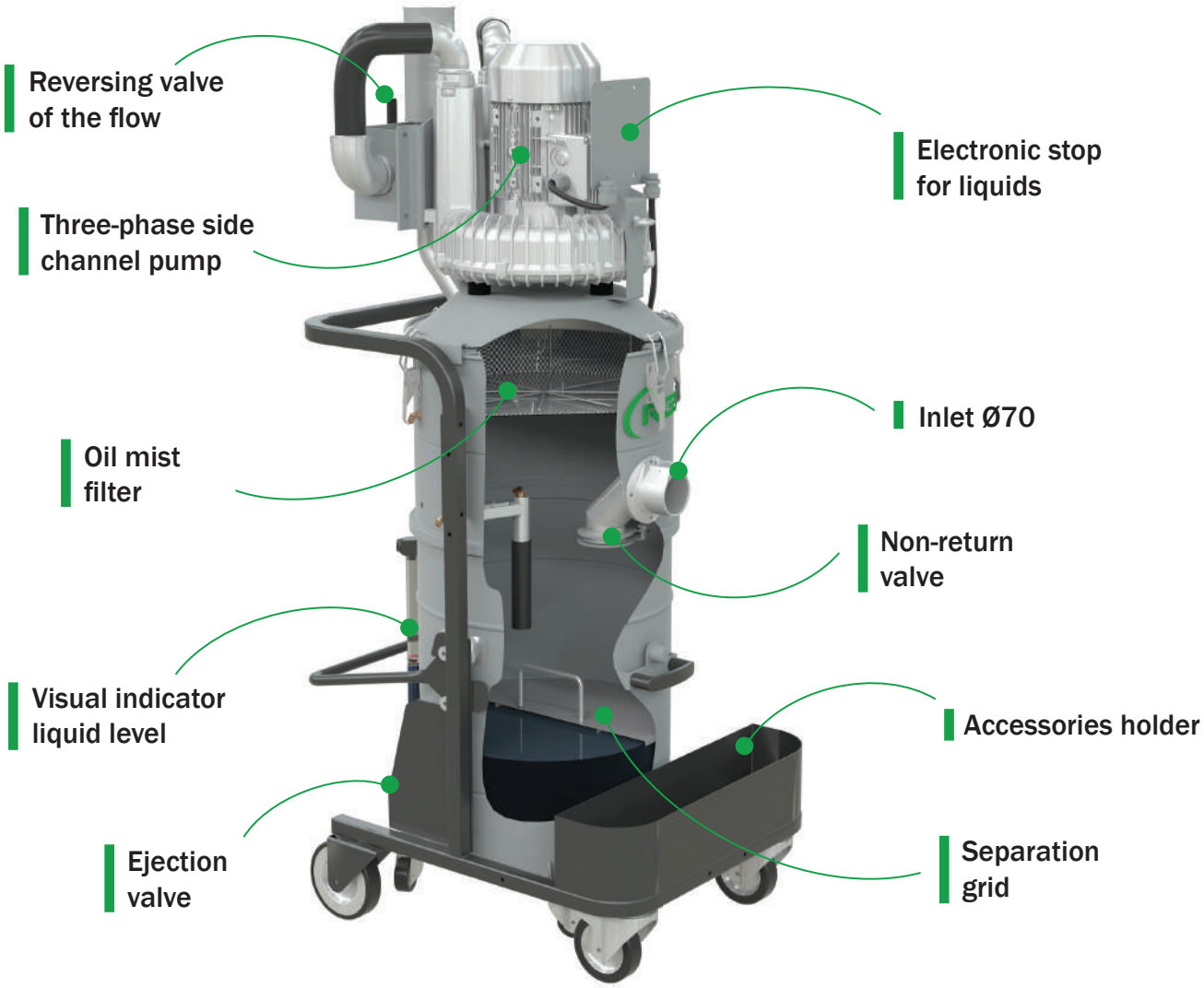
Equipped with three-phase vacuum pump, automatic liquid stop system and reverse flow valve. The latter device allows you to take advantage of the air blown by the pump, to push the liquid sucked out of the container ensuring high flow rates and head even without the use of a secondary ejection pump.

Technical data

Legend	Unit	A1040IL
Tension	V	3~ 230-400V/50Hz
Power	kW	3
Depression max	mbar	300
Air flow max	m^3/h	320
Standard liquid discharge system	-	Reverse flow
Liquid capacity *	L	100
Solid capacity *	L	40
Liquid shutdown	-	Electric
Inlet suction	mm	70
Filter	-	Oil mists
Noise level	dB(A)	75
Dimensions	cm	78x64x160h
Weight	kg	115
Protection	IP	55

** not at the same time*

The details that make the difference



Advantages

> Vacuum cleaner with **three-phase motor** suitable for heavy-duty and continuous use
> **Practical handle** for easy transport
> Suitable for the **suction of liquids and solids simultaneously**
> **Accessories holder** to always have them at hand
> **Detachable tank** for a practical emptying of the sucked solids
> **Flow inversion system** for the expulsion of the sucked liquid

A2040IL-IMEC | A2040IL-I/P | A2070IL-P

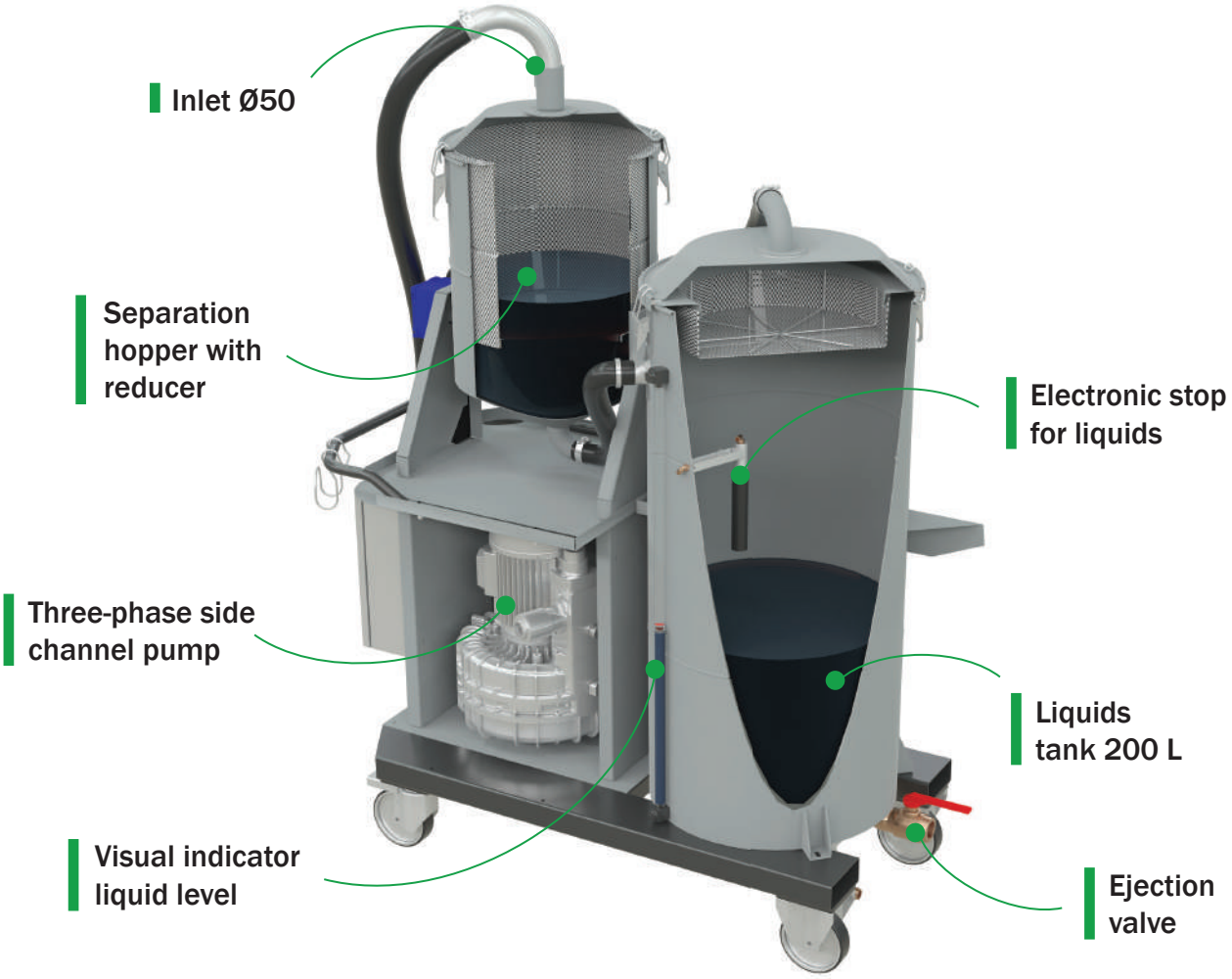
Industrial three-phase vacuum cleaner suitable **to operate for long periods** even in the most demanding applications. Equipped with a three-phase side channel pump enclosed in protective casing, it is particularly compact with a useful capacity of 200L of liquid containment. In addition, the vacuum cleaner is equipped with flow reverse valve and a raised chip container tilting through a special maneuver reducer.

- It is also available in ***P version, with independent expulsion pump***. This version allows to suck, separate, filter and expel the liquid simultaneously.
- Additionally, the ***high suction head version*** is available, suitable for neat cut oil and solid sludge residues.
- Possibility of operation with **automatic liquid discharge** (OPT).

Technical data

Legend	Unit	A2040IL-IMEC A2040IL-I	A2040IL-P	A2070IL-P
Voltage	V	3~ 230-400V/50HZ	3~ 230-400V/50HZ	3~ 400-690V/50HZ
Power	kW	3	3 + 0.55	5.5 + 0.55
Depression max	mbar	300	300	450
Air flow max	m^3/h	310	310	310
Flow rate of liquid ejection pump (with water)	L/min	170	200	200
Standard liquid discharge system	-	Flow inverter	With independent pump	With independent pump
Liquid capacity	L	200	200	200
Solid capacity	L	60	60	60
Liquid shutdown	-	Electric	Electric	Electric
Inlet suction	mm	50	50	50
Noise level	dB(A)	74	74	75
Dimensions	cm	151x65x180h	151x65x180h	151x65x180h
Weight	kg	200	210	240
Protection	IP	55	55	55

The details that make the difference



Advantages

> Vacuum cleaner with three-phase motor suitable for continuous use and without maintenance
> Compact machine with **200 L tank for liquid**
> Chip emptying facilitated by **tilting system the collection container** equipped with a reducer
> **Flow inversion system for the expulsion** of the sucked liquid (version I)
> **Automatic by-pass emptying system** with independent centrifuge pump (P version)
> Possibility to suck, filter and expel the liquid simultaneously

A4070IL-P | A6150IL-P

Three-phase industrial vacuum cleaner suitable to **operate for long periods** even in the most demanding applications, suitable for bigger machining centers or to be used for multiple stations. Equipped with three-phase side channel vacuum pump enclosed in protective casing, it is particularly compact with a useful capacity of 400L and 600L liquid containment.

In addition, the vacuum cleaner is equipped with a **independent centrifugal pump** and a raised chip container tilting through a special maneuver reducer.

Technical Data

Legend	Unit	A4070IL-P	A6150IL-P
Voltage	V	3~ 400-690V/50Hz	3~ 400-690/50Hz
Power	kW	5.5 + 0.55	12.5 (11+1.50)
Depression max	mbar	450	500
Air flow max	m^3/h	310	520
Flow rate of liquid ejection pump (with water)	L/min	230	400
Standard liquid discharge system	-	With independent pump	With independent pump
Liquid capacity	L	400	600
Solid capacity	L	60	60
Liquid shutdown	-	Electric	Electric
Inlet suction	mm	50	50
Filter	-	Oil mists	Oil mists
Noise level	dB(A)	75	76
Dimensions	cm	135x70x200h	150x75x215h
Weight	kg	350	480
Protection	IP	55	55

Advantages

> Three-phase vacuum cleaner with asynchronous motor suitable for continuous use and maintenance-free
> **High-power motor** with high negative pressure to suck also the thicker sludge
> **400 L and 600L liquid tank**
> Chip emptying facilitated by the tilting **system of the collection hopper** equipped with a reducer
> **Automatic by-pass emptying system** with pump independent centrifuge (P version)

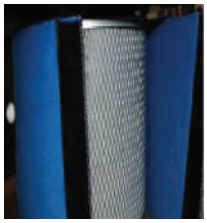
The vacuum cleaners of the **OIL series** can be equipped with a **wide range of accessories** to make the work of the operator easy, light and safe and be able to meet the various needs that require the **suction of lubricating oils and shavings.**

Filters

- 100 micron nylon filter for shavings collection basket
- 200 micron nylon filter for shavings collection basket
- 300 micron nylon filter for shavings collection basket

Nylon filter

- Coalescence filter septum



Filtering septum for coalescence

Accessories

- **ACCESSORIES SET FOR OIL EXTRACTION BY MACHINE TOOLS**

Other RGS solutions

VACUUM CLEANERS

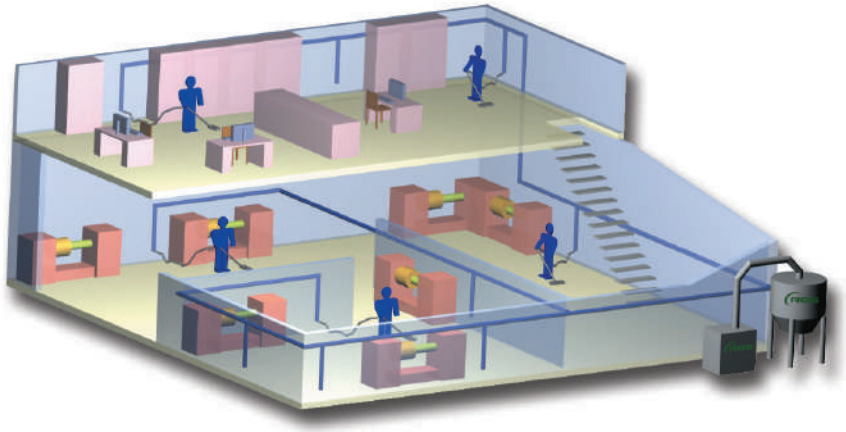
RGS Vacuum Systems offers a wide range of industrial vacuum cleaners of **various powers and capacities**: single-phase, three-phase and compressed air industrial vacuum cleaners.
There are also specific models for the **suction of oils and shavings**, others for applications **in the food and pharmaceutical industry** as well as **special machines** made to meet the needs of the customer.

PNEUMATIC CONVEYORS

Pneumatic conveyors systems for powders and granules for all industrial sectors with **customization** options.

Thanks to a long experience in the sector, it is possible to create and design the most suitable and economical conveying system to solve customer problems, according to the type of product and the needs of the sector.

CENTRALIZED SYSTEMS



RGS Vacuum Systems offers a wide range of components for the realization of **centralized suction systems** (such as *suction units, collection silos, pre-separators, components for the duct, control systems*) and **centralized ventilation systems** (such as *dust collectors, electro-fans, mobile arms, control cabinets and duct components*).

All products can be made of painted steel, stainless steel and **ATEX version** according to the needs of the customer and the application sector.

RGS services

Design and production of customized products

Quick call maintenance service

Preventive maintenance agreements

Additions and revamping to current regulation on installed plants

RGS VACUUM SYSTEMS USA

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