

INDUSTRIAL VACUUMS.
60 TO 100 LITRES.



columbus





JOB WELL DONE: ROBUST AND STABLE, FROM SMALL TO LARGE.

Our industrial vacuums guarantee safety and compliance with cleaning standards in even the most challenging environments.

All vacuums have a robust and stable design with galvanised steel cases, able to cope with extreme requirements. They can be configured to pick up fine, dangerous dust particles or solid materials such as coarser dust and chips.

The container capacities range from 13 to 100 litres depending on the model. The smaller, compact models can be used where power, mobility and robustness are required. In areas calling for large vacuums, the long-lasting filters have a surface area of up to 3 m² in the star filters, optimising the separation of even fine and difficult dust.

The filters are available in dust classes L, M and H (in accordance with DIN EN 60335-2-69).

Applications

All applications in construction and building cleaning, in labs and workshops and for all kinds of surface treatment, also in combination with power tools generating large amounts of dust, e.g. sanders, sand blasters, saws, polishers, CNC lathes and surface treatment machinery, removing the dust before it can spread into the air. Also in food and drink, timber, pharmaceuticals, mechanical engineering, steelworks, ceramics, agriculture, etc.

Requirements analysis

We always begin our consultation process with a comprehensive requirements analysis, which we use to create a quotation specifically to meet your requirements. We want to know every detail, whether you are planning occasional vacuuming for maintenance cleaning or continuous use with production machinery.

Apart from the area of application, we also need to know the type of dirt and the characteristics of the material to be picked up. The particle size and, if applicable, the hazard class must also be known in order to select the right vacuum and accessories. The required filtration level – L, M, H all the way up to safety disposal – also helps us decide which filter and disposal solution you need, along with the consistency of the material to be picked up – dry, damp, wet, sludgy, abrasive, corrosive or sticky.

If you need a solution for highly combustible, potentially explosive (ATEX) or noxious environments, our range includes suitable vacuums and accessories.

Original accessories

Each vacuum comes with a standard accessories kit or a professional kit to meet a huge variety of cleaning challenges.

We also offer a wide range of other optional accessories to give you the flexibility to meet your particular needs. Ask us for advice. We are always happy to come and demonstrate our products, and we can tailor just the right solution for you.

Relevant dust classes according to DIN EN 60335-2-69, Annex AA

Suitable for dry, noxious, non-combustible dusts From 1/1/05	Relevant dust classes acc. to DIN EN 60335-2-69, Annex AA	
	Dust class	Max. transmittance
With WEL > 1mg/m ³	At least L (M, H)	< 1%
With WEL < 0,1%	At least M (H)	< 0,1%
With WEL > 0,1mg/m ³	H	< 0,005%
Carcinogenic hazardous substances According to GefStoffV (German hazardous goods regulations) section 20, TRGS 905 and TRGS 906 (TRGS = German technical rules for hazardous substances)	H	< 0,005%

ATEX zoning and equipment and categories

	Zone	Occurrence of an explosive atmosphere	Equipment category
Gases, vapours, mists	0	continuously, long periods, frequently	1G
	1	occasionally	2G
	2	rarely	3G
Dusts	20	Continuously, long periods, frequently	1D
	21	occasionally	2D
	22	rarely	3D

Service

Columbus industrial vacuums are designed to be robust enough to do a great job in the most challenging conditions. You can change all consumables yourself in a matter of minutes. But if you do need to talk to our service team, you can call our hotline. Simply tell us what you need and we'll take it from there.

FOR SOLIDS AND DUSTS:

IDV 60

- ☞ To pick up solids and dusts.
- ☞ Large star filter with 2 m² surface area.
- ☞ A negative pressure indicator shows filter clogging, so you can always check that the vacuum is working properly.
- ☞ Three individually switchable bypass motors.
- ☞ Made of robust, epoxy-coated steel. Non-marking rollers and locking brake for safety and comfort while emptying.

Bypass motors

With the bypass motor, the suction air flow is not also used to cool the motor. The motor is cooled with a separate air flow. This stops the motor overheating when cleaning hot dusts for example.



Applications:
 All applications in construction and building cleaning, in laboratories and workshops, for all types of surface treatment and in food and drink, timber, pharmaceuticals.



IDV 60

L x B x H	660x650x1350 mm
Tool connection	80 mm
PVC hose	PVC 3 m/50 mm
Container volume	60 l
Filter surface area	20 000cm ²
Filter type	Star/Polyester
Filter dust class	CAT (BIA) L

ELECTRICAL DATA

Rated voltage	230 V
Rated power, total	3,45 KW
Mains cable	10 m

SUCTION MOTOR

Negative pressure, max.	2500 mm.H ₂ O
Air flow, max.	540 M ³ /h
Number of motors	3



Filter cartridge with 20,000 cm² filter surface area



Comprehensive accessories kit for IDV 60



Integrated cable holder



Manual filter shaking for long service life

FOR ALL LIQUIDS:

IWV 80

- ❶ Compact wet vacuum for many industrial applications.
- ❷ Safety cut-out when the container is full.
- ❸ Controlled emptying with drain hose.
- ❹ Two individually switchable bypass suction motors.
- ❺ Made of robust, epoxy-coated steel. Non-marking rollers and locking brake for safety and comfort while emptying.



Bypass motors

With the bypass motor, the suction air flow is not also used to cool the motor. The motor is cooled with a separate air flow. This stops the motor overheating when cleaning hot dusts for example.

Applications:
For various wet applications in
virtually all industrial sectors



Drain hose from container



Accessories kit for IWV 80



Optional rubber suction tool



Effective removal of liquids with
the floor tool

IWV 80

L x B x H	530x660x1080 mm
Tool connection	80 mm
PVC hose	PVC 3 m/40 mm
Container volume	80 l
Filter surface area	-
Filter type	Polyester cartridge
Filter dust class	-

ELECTRICAL DATA

Rated voltage	230 V
Rated power, total	2,3 KW
Mains cable	10 m

SUCTION MOTOR

Negative pressure, max.	2500 mm.H ₂ O
Air flow, max.	360 M ³ /h
Number of motors	2

SEPARATION:

IWV 40|100

- Developed for cutting and machining applications.
- Removable container with chip sieve to separate chips and liquids such as oil or coolant.
- Fast and easy disposal of the cleaned material.
- Safety cut-out when the container is full.
- A negative pressure indicator shows filter clogging, so you can always check that the vacuum is working properly.
- Drain valve on the bottom for easier emptying of the liquid container.
- Three individually switchable bypass suction motors.
- Made of robust, epoxy-coated steel. Non-marking rollers and locking brake for safety and comfort while emptying.

Bypass motors

With the bypass motor, the suction air flow is not also used to cool the motor. The motor is cooled with a separate air flow. This stops the motor overheating when cleaning hot dusts for example.



Applications:
 This industrial vacuum for oil and chips was specially developed for the particular requirements of mechanical engineering, e.g. picking up mixed materials such as metal dusts, chips and cooling lubricants. This device combines robust construction with compact dimensions, flexibility and ease of use. A useful tool in any workshop or for daily machine tool cleaning.



IWV 40|100

L x B x H	660x650x1160 mm
Tool connection	80 mm
Hose	Polyurethane 3 m/50 mm
Container volume	100 l wet/40 l solids

ELECTRICAL DATA

Rated voltage	230 V
Rated power, total	3,45 KW
Mains cable	10 m

SUCTION MOTOR

Negative pressure, max.	2500 mm.H ₂ O
Air flow, max.	360 M ³ /h
Number of motors	3



Removable sieve insert to separate liquids and metal chips



Convenient disposal of cleaned liquids through drain valve



Comprehensive accessories kit for IWV 40|100



Continuous monitoring of filter clogging with negative pressure indicator

CONTINUOUS POWER:

IDV 60 ECO

- ⌚ To pick up solids and dusts.
- ⌚ Maintenance-free three-phase motor with side channel blower, works reliably in continuous operation.
- ⌚ Large star filter with 2 m² surface area.
- ⌚ A negative pressure indicator shows filter clogging, so you can always check that the vacuum is working properly.
- ⌚ Manual filter shaking to keep suction performance high.
- ⌚ Motor protection switch cuts out the motor to protect it from current surges.
- ⌚ Available in stainless steel and with different filters as options.
- ⌚ Made of robust, epoxy-coated steel. Non-marking rollers and locking brake for safety and comfort while emptying.



Side channel blower:

All three-phase industrial vacuums have three-phase motors with side channel blower. They have a long service life, are maintenance free and designed for continuous operation. The air flow is compressed twice in the side channel blower, delivering much more suction power than a fan motor.

Applications:
All areas of agriculture, construction, machinery and mechanical engineering. Also suitable for continuous 24 hour operation.



Star filter with 20,000 cm² filter surface area



Optional stainless steel container



Professional accessories kit for IDV 60 ECO

IDV 60 ECO

L x B x H	660x650x1700 mm
Tool connection	80 mm
PVC hose	3 m/50 mm
Container volume	60 l
Filter surface area	20 000cm ²
Filter type	Stern/Tasche/Polyester
Filter dust class	CAT (BIA)

ELECTRICAL DATA

Rated voltage	400 V
Rated power, total	2,3 KW
Mains cable	10 m

SUCTION MOTOR

Negative pressure, max.	3000 mm.H ₂ O
Air flow, max.	300 M ³ /h
Number of motors	1



Manual filter shaking to keep suction performance high

THE PRO:

IDV 100

- Maintenance-free three-phase motor with side channel blower, works reliably in continuous operation.
- To pick up solids and dusts.
- 3 m² filter surface area with manual filter cleaning system.
- Available in stainless steel and with PTFE filter M class as options.
- Available in an antistatic version and ATEX protected as options.
- A negative pressure indicator shows filter clogging, so you can always check that the vacuum is working properly.
- Made of robust, epoxy-coated steel. Non-marking rollers and locking brake for safety and comfort while emptying.



Side channel blower:
All three-phase industrial vacuums have three-phase motors with side channel blower. They have a long service life, are maintenance free and designed for continuous operation. The air flow is compressed twice in the side channel blower, delivering much more suction power than a fan motor.

Applications:
 This powerful and quiet industrial vacuum with side channel blower delivers high suction performance for continuous operation in most industrial applications. Easy to use, it is available for dust classes L, M and H and can pick up dusts and solids of all kinds.



IDV 100

L x B x H	660x1160x1530 mm
Tool connection	80 mm
PVC hose	3 m/50 mm
Container volume	100 l
Filter surface area	30 000cm ²
Filter type	Star/pocket/polyester
Filter dust class	L

ELECTRICAL DATA

Rated voltage	400 V
Rated power, total	5,5 KW
Mains cable	10 m

SUCTION MOTOR

Negative pressure, max.	3000 mm.H ₂ O
Air flow, max.	550 M ³ /h
Number of motors	1



Filter cartridge with 30,000 cm² filter surface area



Large star filter made of washable polyester



Comprehensive accessories kit for IDV 100



Manual filter shaking to keep suction performance high

