



# ADDITIVE MANUFACTURING INDUSTRIAL VACUUMS



# WHY USE AN INDUSTRIAL VACUUM?

Industrial vacuum cleaners are meticulously engineered to meet the demanding requirements of the modern manufacturing industry. With a focus on efficiency, safety, and sustainability, these advanced machines play a vital role in collecting unused powder during various additive manufacturing processes.



## CLEAN AND REUSE



**FAST AND EFFICIENT CLEANING**  
of the printer and its surroundings



**UNUSED POWDER RECOVERY**  
for cost-saving on repurchase



**PREVENT EXPLOSION RISKS**  
safety systems engineered to neutralize explosive powders



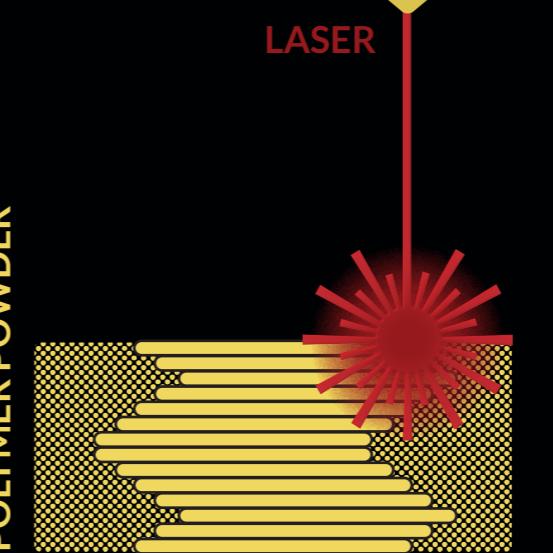
# POWDER BED FUSION SOLUTIONS



## FOR POLYMERS

### SLS

SELECTIVE  
LASER  
SINTERING

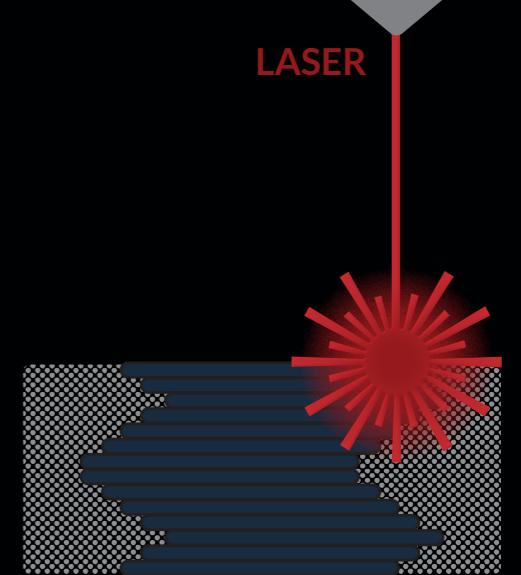


POLYMER POWDER

## FOR METALS

### SLM

SELECTIVE  
LASER  
MELTING



METAL POWDER

# HOW TO CHOOSE



P13821 | P13935 | P13936

P11827

A2100

A115 | A221 | A165 | A231



A2160

A2220 | A2225

A1096

A1103

	CYCLON PRESEPARATOR	INERT PRESEPARATOR	M H PRO ACD	FOX	M45 H ACD INERT	ECOBULL H ACD INERT	DF 22	DF 40
POLYMER OR METAL POWDER RECOVERY								
METAL POWDER INERTIZATION								
POST-PROCESSING CLEANING								

# HOW TO CHOOSE POWDER RECOVERY

3D printing powders are expensive ingredients. By collecting them in suitable equipment, such as stainless steel containers, it becomes possible to reuse the powders after an appropriate sieving process that filters out the recoverable particles.



## FOX Z20/22



## M H PRO ACD



## CYCLON PRE-SEPARATOR

Compact and robust powder-coated steel pre-separator is a game-changer for industries seeking to optimize their cleaning processes. By effectively separating all the debris from the airflow and collecting up to 95% of dust prior to reach the main filter of the vacuum cleaner.

- Convenient collection of fine powders
- Maximum flexibility of use of the dust extraction system

### AVAILABLE IN 3 SIZES



**EXTEND THE  
LONGEVITY OF THE  
VACUUM CLEANER'S  
MAIN FILTER**

ADDITIONAL MANUFACTURING INDUSTRIAL VACUUMS

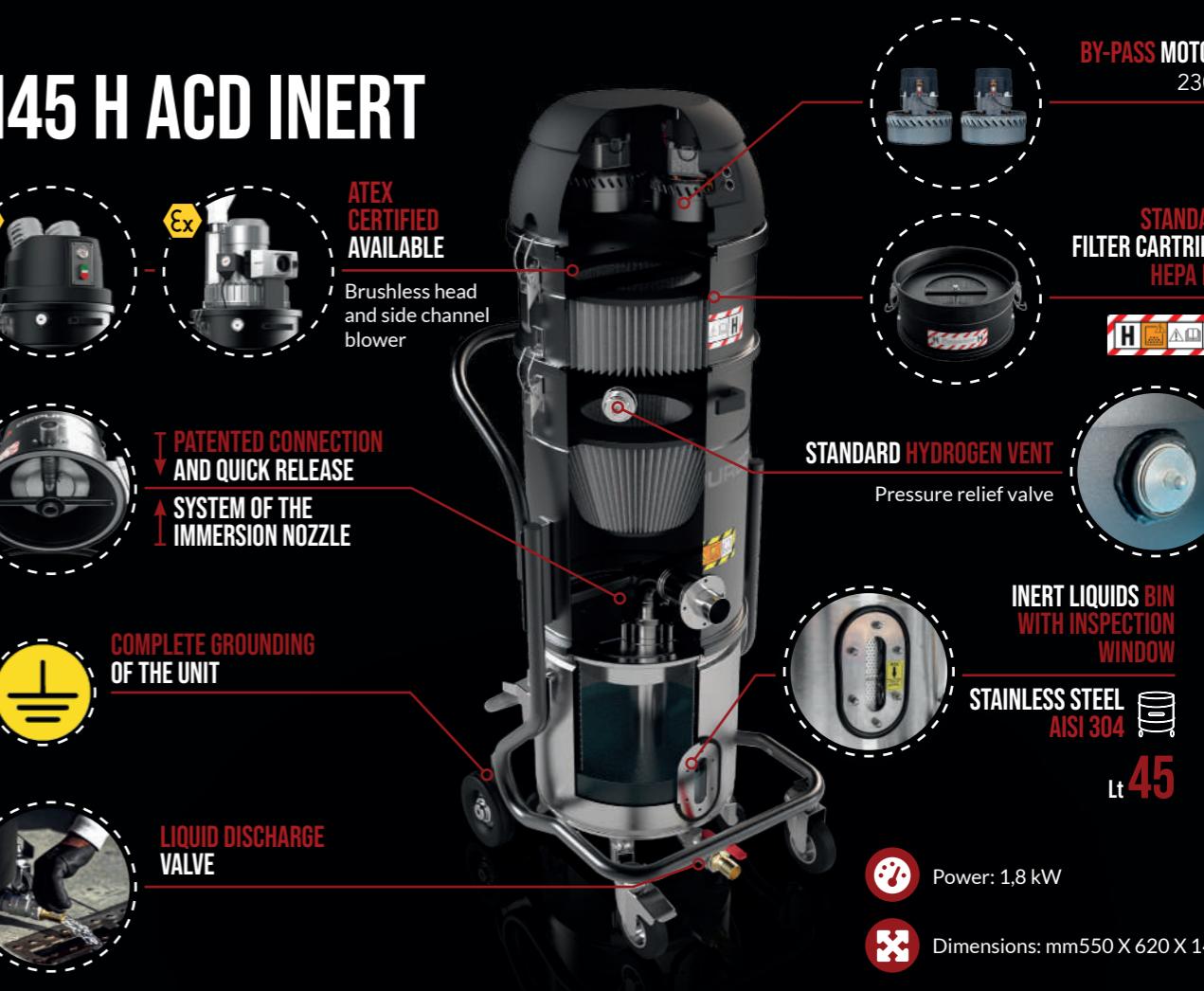
# HOW TO CHOOSE POWDER INERTIZATION

Unused powder inside the 3D powder bed fusion printer must be vacuumed safely with appropriate equipment to avoid explosion. Depureco developed a sophisticated collection system that immerses the collected powder into an inert liquid, eliminating any risk of explosion and allowing safe disposal of the now inert powder.

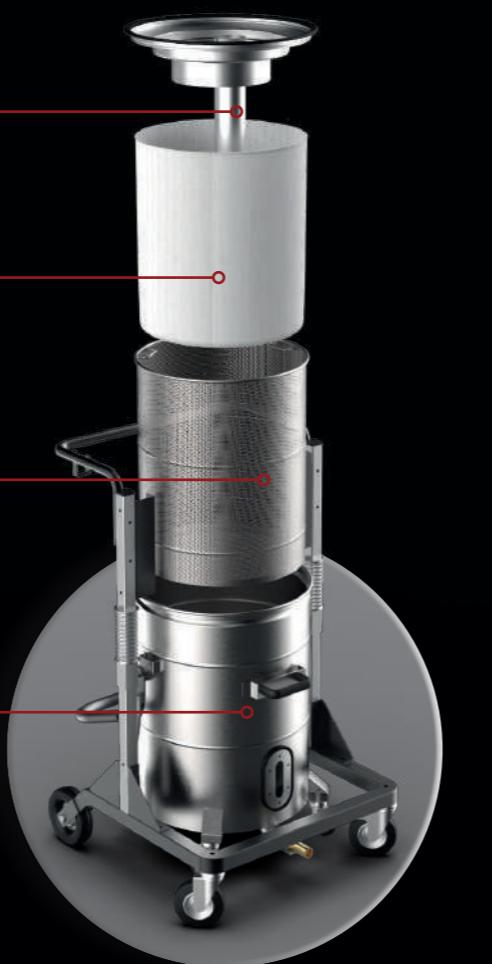
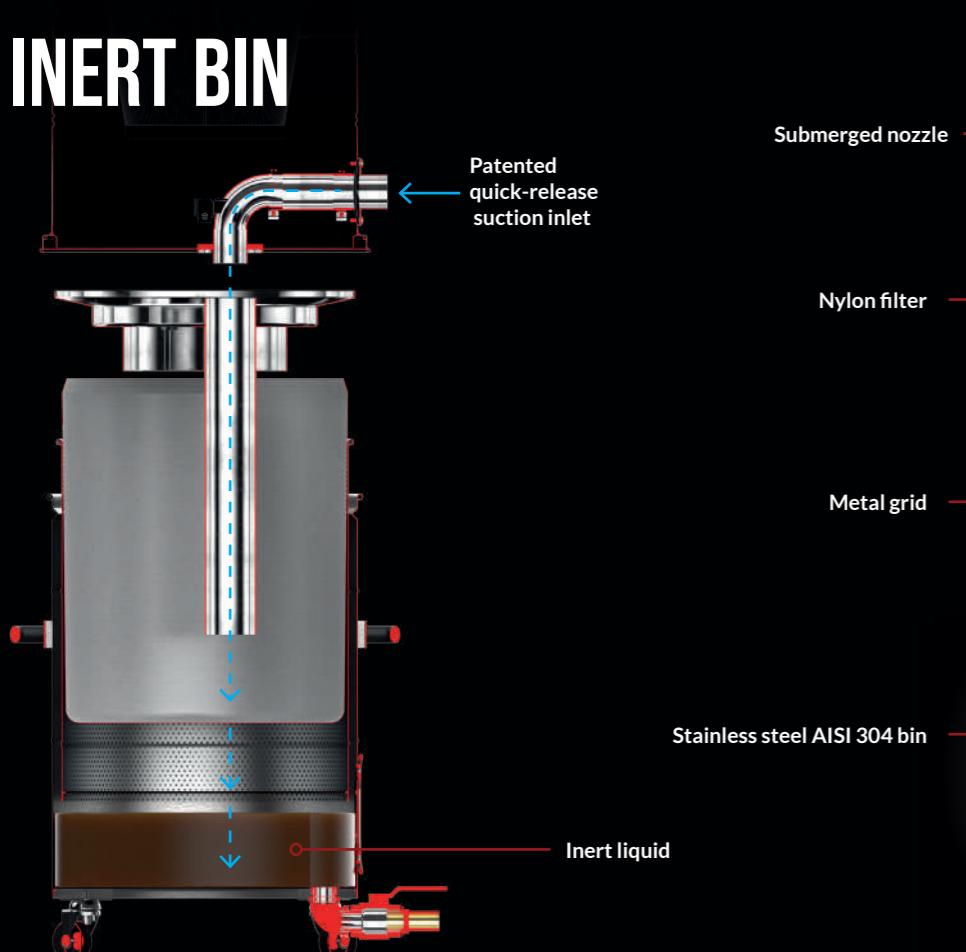


METAL  
POWDER

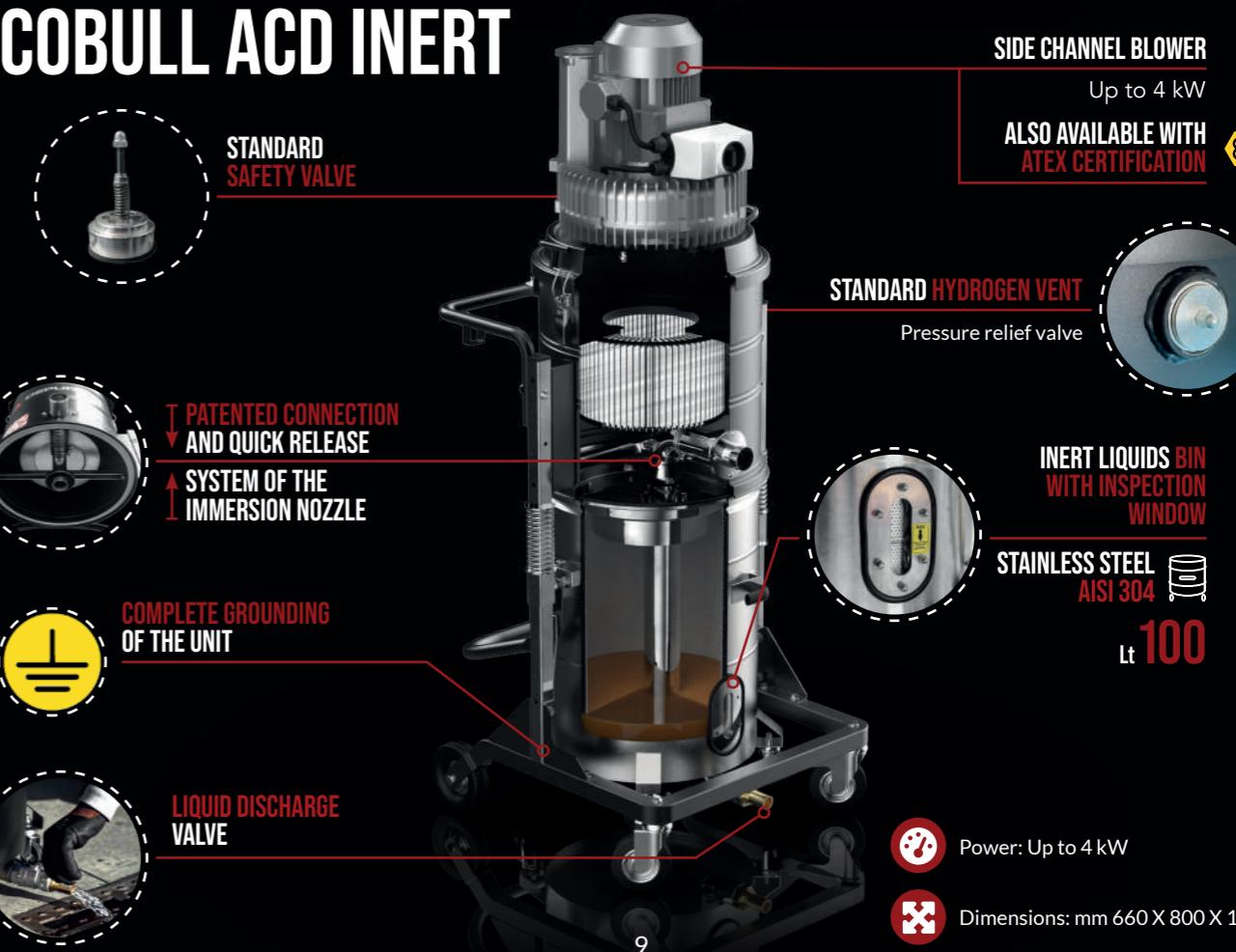
## M45 H ACD INERT



## INERT BIN



## ECOBULL ACD INERT

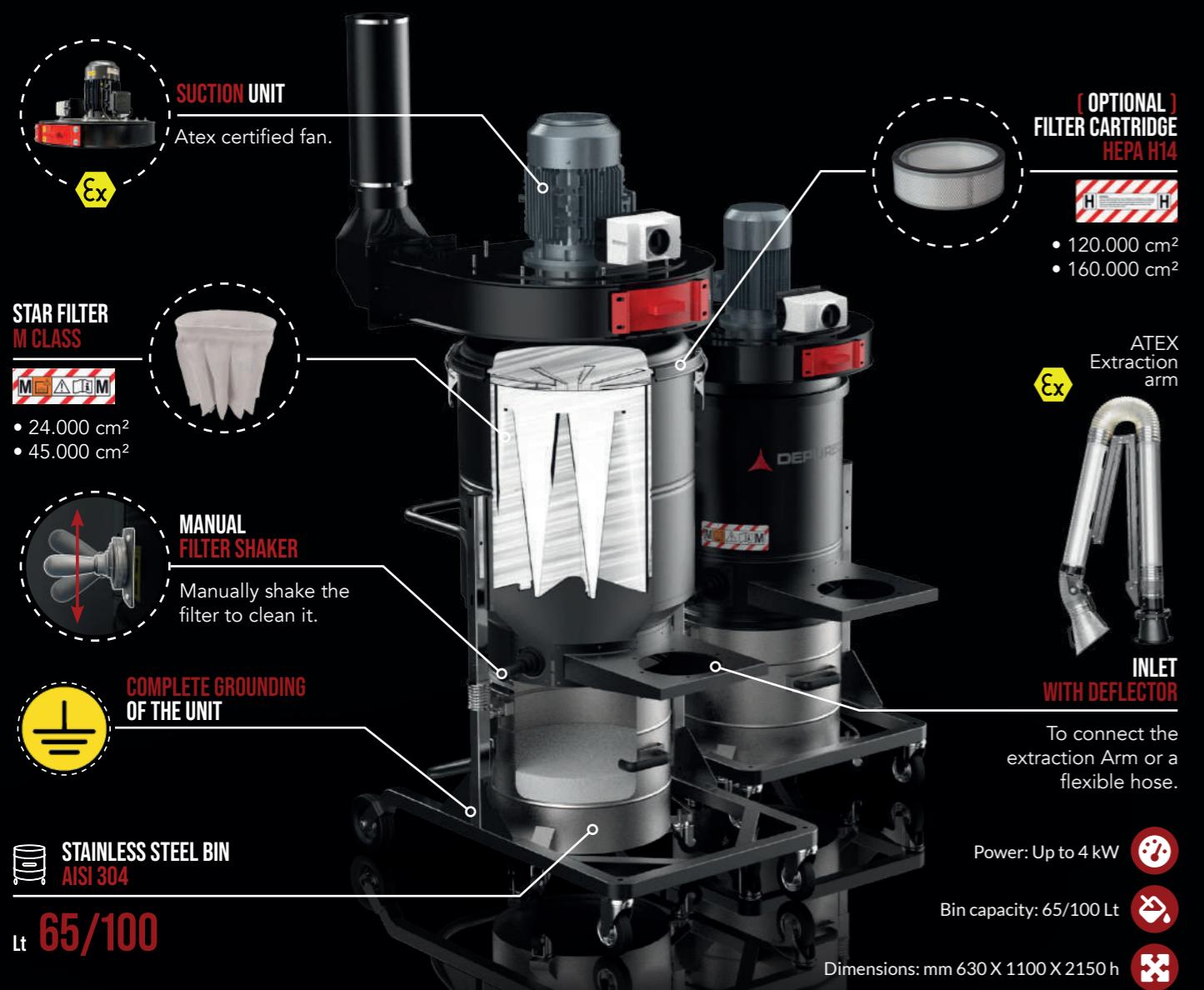


# HOW TO CHOOSE POST-PROCESSING

Dust collectors play a crucial role in post-processing, offering an effective solution to clean printed parts and significantly enhance the overall quality of the final products.



## DF 22 + DF 40



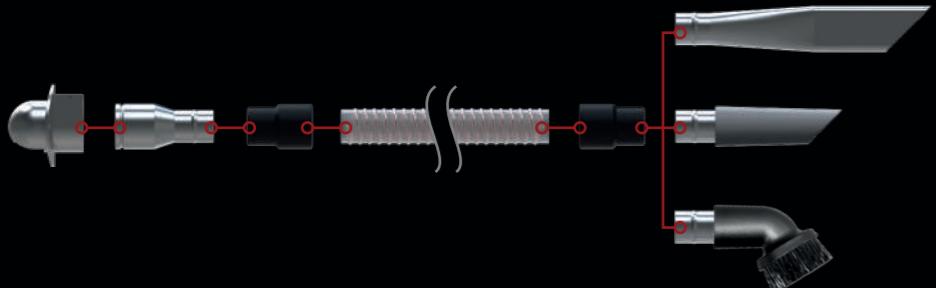
# HOW TO CHOOSE CENTRALIZED VACUUM SYSTEMS

Optimize the cleaning and maintenance of multiple 3D printers by utilizing centralized vacuum systems, efficiently collecting debris in one container. Simplify post-processing tasks, enhance productivity, and maintain a cleaner work environment effortlessly.



# ACCESSORIES

# TECHNICAL DATA



## INTUITIVE ACCESSORIES CONNECTIONS

### ACCESSORIES KIT



P13641 40 mm  
P12378 50 mm

Antistatic Starter kit



P13642 40 mm  
P12377 50 mm

Antistatic kit Pro

### CONNECTIONS



P12302 40/50 mm  
P12301 40/50 mm

Rubber sleeve for "EVA" hoses  
Rubber sleeve for "PUR" hoses



P12334/100 100 mm  
P12334 160 mm

Connection for ATEX extraction arm

### FINAL ACCESSORIES



P11841/40 40 mm  
P11841/50 50 mm

"PUR" conductive hose



P12316 40 mm  
P12317 50 mm

"EVA" conductive hose



P00299 40 mm  
P00301 50 mm

Antistatic Flat pipe



P13600/EX 40 mm

PVC Flat pipe



P10475 40 mm  
P10415 50 mm

Antistatic rubber conic nozzle



P00640/A 40 mm  
P00649 50 mm

"S" Handgrip for floor brush



P11495 40 mm  
P11496 50 mm

Antistatic brush with brass bristles

Technical data	Units	M PRO ACD	FOX	M45 HACD INERT	ECOBULL HACD INERT M   T
ATEX marking		ACD	II 1/3D Ex htc IIIC T140°C Da/Dc	ACD	ACD
Code		A2100	A115   A221   A165   A231	A2160	A2220   A2225
Motor type		X2 By-Pass motors	Side Channel Blower	X2 By-Pass motors	Side Channel Blower
Power	kW	2,6	2,2 - 4 - 5,5 - 7,5	2,6	1,8 - 3
Voltage   Frequency	V   Hz	230   50-60	400   50-60	230   50-60	230 - 400   50-60
IP   Insulation class		54   F	---	54   F	55   F
Continuous vacuum	mBar	250	200 - 230 - 240 - 280	250	230
Max air flow	m³/h	380	320 - 450 - 550 - 550	380	240 - 340
Overpressure valve		---	Included	Included	Included
Suction inlet	Ø mm	50	80	50	50
Capacity	Lt	45	100	45	65/100
Liquid filter		---	---	Polypropylene 150µ	Polypropylene 150µ
Powder separation		---	---	Metal grid	Metal grid
Spark trap filter		---	---	Metal mesh filter	Metal mesh filter
Discharge valve		---	---	Included	Included
Dimensions	mm	516 X 545 X 1250 h	660 X 1200 X 1510 h	550 X 620	660 X 800 X 1630 h
Weight	Kg	38	142 - 257 - 177 - 242	1400	95 - 120
<b>Primary filter</b>					
Type - Polyester		M Class Antistatic filter	M Class Antistatic filter	M Class Cartridge	---
Filtering surface	cm²	6.000	24.000	35.000	---
<b>Secondary filter</b>					
Type - Glass fiber		H14 cartridge	H14 cartridge	H14 conical cartridge	H13 conical cartridge
Filtering surface	cm²	22.000	28.000	22.000	35.000

Technical data	Units	DF 22 Z22	DF 40 Z22	Technical data	Units	CYCLONIC PRESEPARATOR	INERT PRESEPARATOR
ATEX marking		II 3GDExh tc IIIB T140°C GcDc		Code		P13821   P13935   P13936	P11827
Code		A1096	A1103	Overpressure valve		---	Included
Motor type		Electric fan	Electric fan	Suction inlet	Ø mm	50	50
Power	kW - HP	2,2 - 3	4 - 5,5	Capacity	Lt	45   65   100	100
Voltage   Frequency	V   Hz	400   50-60	400   50-60	Liquid filter		Polypropylene 150µ	Metal grid
IP   Insulation class		55   F	55   F	Powder separation		---	Metal mesh filter
Max vacuum	mBar	352   350   350	370   340   270	Spark trap filter		---	Included
Static depression	mBar	340   320   280	300   270   200	Discharge valve		---	---
Max air flow	m³/h	800   1000   1400	1500   2100   2700				
Suction inlet	Ø mm	^ 100   120   150 ^	^ 150   180   200 ^				
Capacity	Lt	65/100	65/100				
Dimensions	mm	660 X 800 X 1630 h	630 X 1100 X 2150 h				
Weight	Kg	80	145				
<b>Primary filter</b>							
Type - Polyester		M Class Antistatic star filter					
Filtering surface	cm²	24.000	45.000				
<b>Optional filter</b>							
Type - Glass fiber		H13 conical cartridge	H13 conical cartridge				
Filtering surface	cm²	120.000	160.000				

## ATEX CERTIFIED VARIANTS



Explore our wide range of opportunities to increase your business

# DEPURECO SOLUTIONS FOR METALWORKING INDUSTRY

## B. ADDITIVE MANUFACTURING

Industrial Vacuum Systems are essential for post-processing operations and maintenance, ensuring high-quality production and reducing the risk of equipment damage.

## A. CNC ROOM

Industrial Vacuum Systems for CNC machinery applications, providing efficient and reliable removal of oil, coolant and oil mists to maintain optimal operating and environment conditions, extending the lifespan of the equipment.

## D. SANDBLASTING

Solutions providing efficient recovery of sand or steel grit, improving safety and effectiveness of the processes.

## C. METALWORKING

Highly efficient, large collection and cost-effective solutions for keeping workspaces clean and safe.

## G. WAREHOUSE

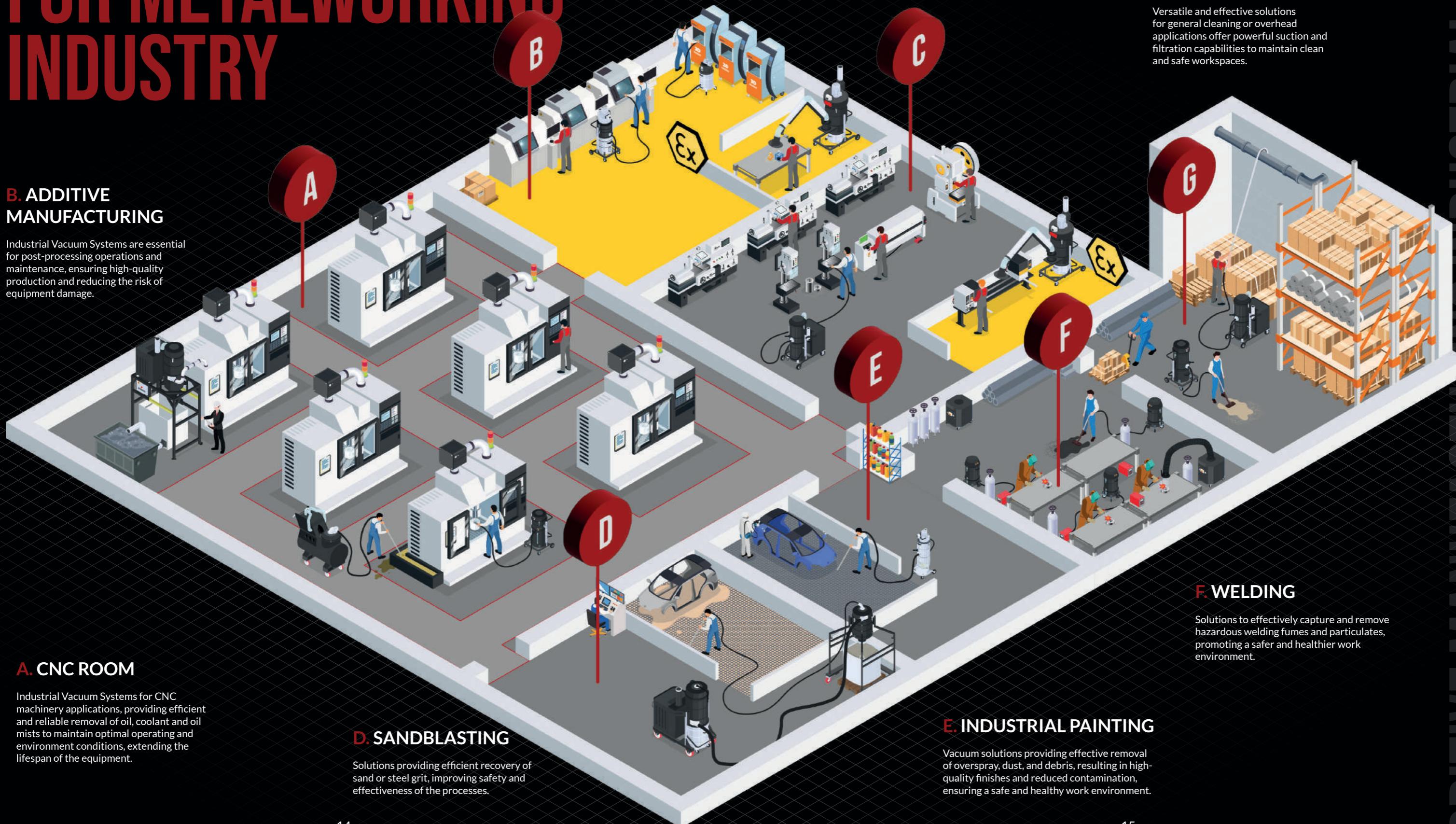
Versatile and effective solutions for general cleaning or overhead applications offer powerful suction and filtration capabilities to maintain clean and safe workspaces.

## F. WELDING

Solutions to effectively capture and remove hazardous welding fumes and particulates, promoting a safer and healthier work environment.

## E. INDUSTRIAL PAINTING

Vacuum solutions providing effective removal of overspray, dust, and debris, resulting in high-quality finishes and reduced contamination, ensuring a safe and healthy work environment.





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