



KÄRCHER

SAFETY MEETS SUCTION.

ACD = Applied for Combustible Dust [karcher.co.uk](https://www.karcher.co.uk)

PROFESSIONAL | INDUSTRIAL VACUUM CLEANERS

DID YOU KNOW

DID YOU KNOW THAT...

90% OF DUSTS ARE COMBUSTIBLE?



Food Industry

Organic combustible dusts like: Flour, Sugar, Spices, coating, Soya Beans, Potato Flour



Wood & Paper

Processing Industry

Cork, dust of lacquered wood, sawdust, cellulose



Metal Industry

Inorganic combustible dusts like: Aluminium, Coal, Iron, Magnesium, Steel, powder coating



Plastic & Chemical Industry

Rubber, textiles, plastics, synthetic substances



Electrical Industry

Grinding dust, powder coating (e.g. extract Gold dust and fragments generated during processor recycling)

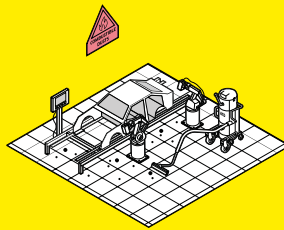
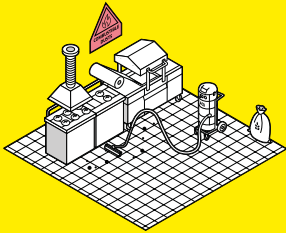


Pharmaceutical Industry

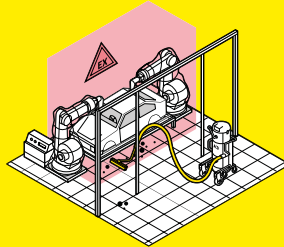
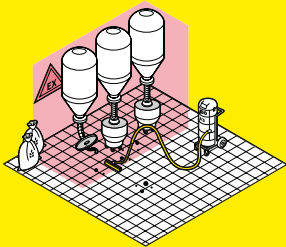
Organic dusts like parts of pills
Exception: dusts of stone and glass

ADDITIONAL INFORMATION:

Machines with ACD are for use collecting combustible dusts outside a Z22 area (pipework inside the zone), or where collecting combustible dusts in a non certified explosive area.



Suctioning of combustible dusts with ACD industrial vacuuming cleaner (also suitable for non combustible dusts).



Can also be used in Zone 22, if the ACD machine itself is positioned outside the ATEX zone. ATEX accessories may be used within Zone 22.

UK DSEAR regulations

What it is: DSEAR (Dangerous Substances and Explosive Atmospheres Regulations 2002) is a UK law that aims to protect people and workplaces from fire, explosion, and corrosion risks caused by dangerous substances. It makes sure we're taking all the necessary precautions when working with potentially dangerous substances, like the dusts we find in Zone 22 areas.

What it covers: This includes flammable liquids and gases, combustible dusts (like in Zone 22), and oxidizing agents.

Key requirements: Identify and assess risks through a risk assessment, Eliminate or control those risks (e.g., using safe equipment, ventilation), Classify hazardous areas into zones (like Zone 22), Train employees on the hazards and safe working practices.

Who identifies it: According to law a "competent person" or "a hazardous area classification expert" which means e.g. an internal health & safety instructor or an external consultant.

- ACD is therefore a broader classification, with less precise zoning compared to ATEX
- Customers asking for an ATEX vacuum but aren't working in a zoned site, ACD is just as good in terms of legally and from a safety point of view, and also saves money
- You can even use an ACD model in a Z22 area, provided the machine is out of the area but you are vacuuming inside the area with the accessories.

ACD INDUSTRIAL SOLUTIONS.

FOOD INDUSTRY

A clean work area ensures safety, health, and efficiency in the food industry. Speed, reliability, and quality cleaning performance are key to maintaining exceptional hygiene and safety standards on food production floors.

With the ACD Industrial Vacuum range and new Kärcher accessories; supply lines, cable ducts, and pipe systems can be cleaned easily and safely, accelerating production processes and achieving exceptional cleaning results.



GENERAL FOOD CLEANING

TASK: General cleaning is a major part of the cleaning tasks in the food industry. Dust emissions occur during every manufacturing process, and this dust is deposited on all surfaces.

- High filtration
- Reliable accessories allow cleaning of different work areas



OVEN CLEANING

TASK: Burnt crumbs, stubborn flour deposits – cleaning ovens in the food industry presents a unique set of challenges:

- For combustible types of dust
- Certified according to dust class M
- Anti-static equipment
- Stainless steel accessories allow cleaning of food areas



ANIMAL FOOD PRODUCTION

TASK: In animal applications, such as the production of animal feed, the substances that have to be taken up safely and cleanly are usually much higher than in the related food industry. Product processes need to be uninterrupted and large amounts of dirt picked up safely and efficiently.

- High performance
- High absorption capacity
- Equipped with plastic bags with large capacity



COFFEE PRODUCTION

TASK: Coffee production facilities present unique cleaning challenges. Dust and grounds accumulate on machinery and floors, while tight spaces and narrow aisles restrict the use of standard cleaning equipment.

- Simple, ergonomic handling
- Practical disposal
- Adaptability to tight areas



WOOD/PAPER INDUSTRY

TASK: Sawdust, swarf, and sanding dust not only pose serious health risks to workers but also create a highly combustible environment, increasing the risk of fire and explosions. Effective dust control is crucial in these settings to ensure both worker safety and operational efficiency.

- Certified according to dust class M
- Cyclone-like pre-separation system
- Ergonomic container control
- Manoeuvrable



METAL INDUSTRY

TASK: The metal processing industry, spanning diverse sectors like metallurgy, machine design, and automotive engineering, relies on highly sophisticated procedures. These processes often generate a wide array of combustible dusts, including those from aluminium, steel, magnesium, iron, coal, and powder coating.

- Certified according to dust class M
- Manual filter cleaning
- Compact construction style
- Sound reduction (71 dB(A))



PLASTICS & CHEMICAL INDUSTRY

TASK: Rubber and plastics production creates a range of potentially hazardous dusts, from fine particles to coarse fragments. These combustible dusts pose a significant risk to worker health and safety, particularly during transport and maintenance operations where they may be present in large quantities.

- Certified according to dust class H
- Cyclone-like pre-separation system
- Fitted with two very quiet fan motors (68 db(A))
- Ergonomic container control



THICKER WALL
FOR INCREASED
ROBUSTNESS



ELECTRICAL INDUSTRY

TASK: In the electronics industry and in optics, production processes generate extremely fine dusts such as grinding dust and powder coating. These combustible dusts are capable of damaging components and posing health risks to workers, so must be vacuumed away directly as the process runs.

- Certified according to dust class H
- Anti-static equipment
- Stainless steel USP
- Manual pull-and-clean filter cleaning



PHARMACEUTICAL INDUSTRY

TASK: Vacuuming production residues from tablets, medicines (vitamins, oestrogens, etc.)

- Certified according to dust class H
- Manual pull-and-clean filter cleaning
- Durable, robust, compact and mobile



KÄRCHER

makes a difference

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