

Paint stripping
and
plastic removal
technologies





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Managing Director

"It is clear that optimizing the use of materials is globally getting more and more important. This is exactly what our business is about, recycling and cleaning. Arena has become an expert in producing high quality machines for removal of all kinds of organic coatings.

Through constant research, Arena is processing its technology in such a way that quality and efficiency go hand in hand. Taking the environmental issue into account we are providing customer-oriented solutions through reliable manufacturing and flexible services.

With a committed and well trained team, Arena is playing a key role and has developed a sustainable relationship with important references worldwide."

SCIROCCO Fluidized beds



Advantages

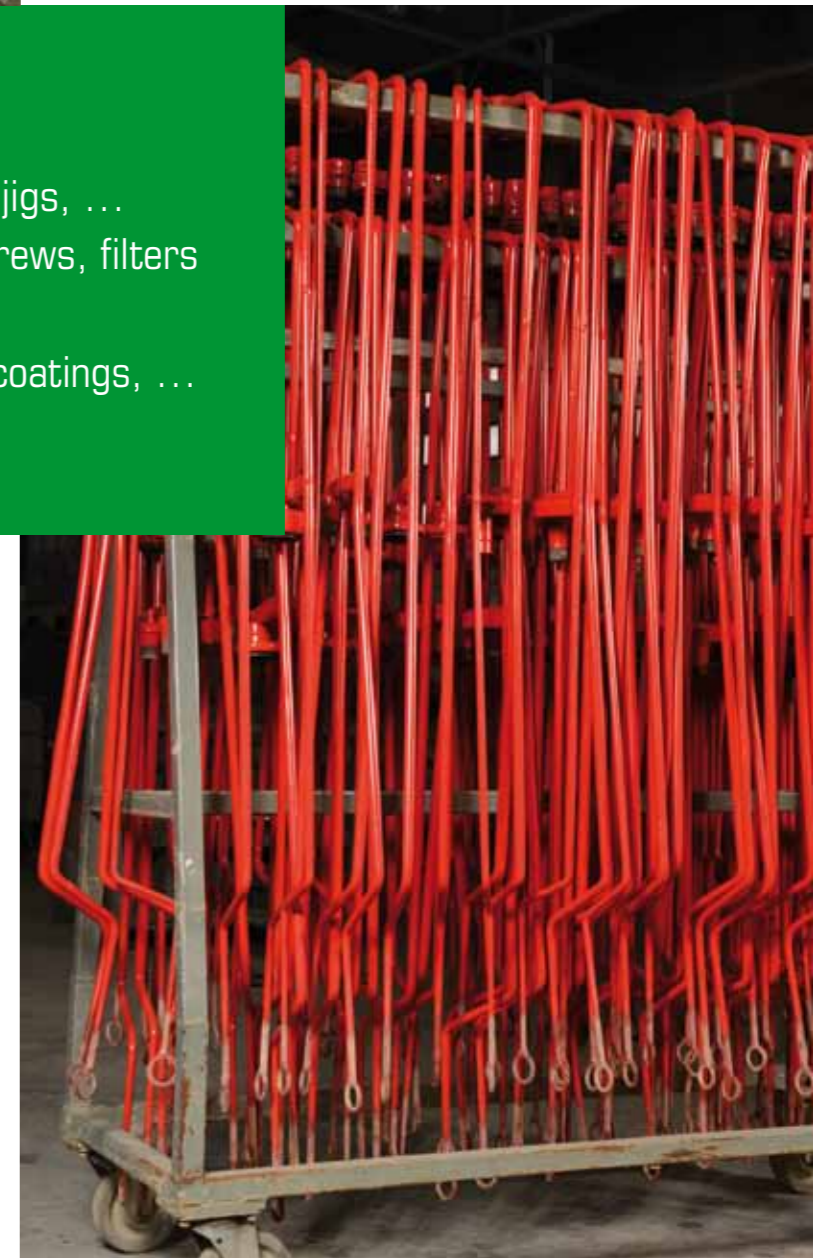
- Fast and perfect cleaning, cycle time 30-60 minutes
- Thermal process for high capacity cleaning
- Save and reliable, due to advanced loading system
- Perfect controlled homogeneous temperature



SCIROCCO systems are powerful high quality thermal cleaning systems for recycling metal objects and tools by removing organic contamination. Fluidized bed technology provides fast, save and efficient cleaning, suitable for high volume cleaning and applicable in paint stripping, plastic removal and rubber denuding. Parts are loaded in a carrier and submerged in the bubbling sand reservoir, which operates at 420–480 °C. Organic coatings are evaporated and oxidized without combustion occurring. The fluidization ensures a homogeneous temperature distribution and ensures non-deformation of the parts. Cleaning time is 30 minutes to 1 hour, depending on the type and degree of contamination. Systems are designed for 24h/d operation and are available in standard and customized sizes.

Applications:

- Paint stripping of hangers, grids, skids, jigs, ...
- Plastic removal from extruder parts, screws, filters spinnerets, nozzles...
- Removal of rubber, glue, lacquers, wax coatings, ...
- Degreasing of metal parts



DIABLO/SANTANA Pyrolysis ovens



Advantages

- User-friendly machine with pneumatic operated door
- Compact lay-out, easy to install
- Environmental friendly
- Low maintenance
- Standard equipped with after-burner



DIABLO systems are very compact pyrolysis ovens, with an accurately controlled process for cleaning of tools in a low-oxygen environment. Post combustion is integrated into the compact design. Cycling time is 1,5 to 4 hours.

SANTANA systems work according to the same principle as the Diablo but are used for larger parts.

The reactor is preheated to a chosen 'stand-by temperature' (for example 320°C) before the contaminated parts are loaded. Parts are loaded on loading trays (DIABLO) or on the loading platform (SANTANA) that completely slides out of the cleaning chamber and is easily accessible from both sides to load and unload parts. The door closes pneumatically and the cleaning cycle will keep the unit safely closed and sealed. The cleaning cycle with temperature and atmosphere control runs automatically. When the cleaning has come to an end, the parts can be unloaded. More complex multipoint cleaning cycles can be programmed to suit specific applications.

Applications:

- Plastic removal of spinnerets, screens, injection nozzles, screws, extrusion dies, breaker plates,...
- Paint stripping of hooks,...
- Cleaning of bakery plates, degreasing
- Recovery of electrical motors, transformers,...



C A S C A D A

Chemical cabins



CASCADA systems are solvent based stripping methods applied for paint stripping of plastic parts or high valuable metals such as aluminum, magnesium, bronze, brass, zinc, cast iron, etc. These are mostly 'reject parts' with painting defects that have to be cleaned in order to be able to recycle them. The chemical stripping takes place in two machines: spraying cabin (2 hours) and rinsing cabin. Passivation or after-treatment is also possible.

Applications:

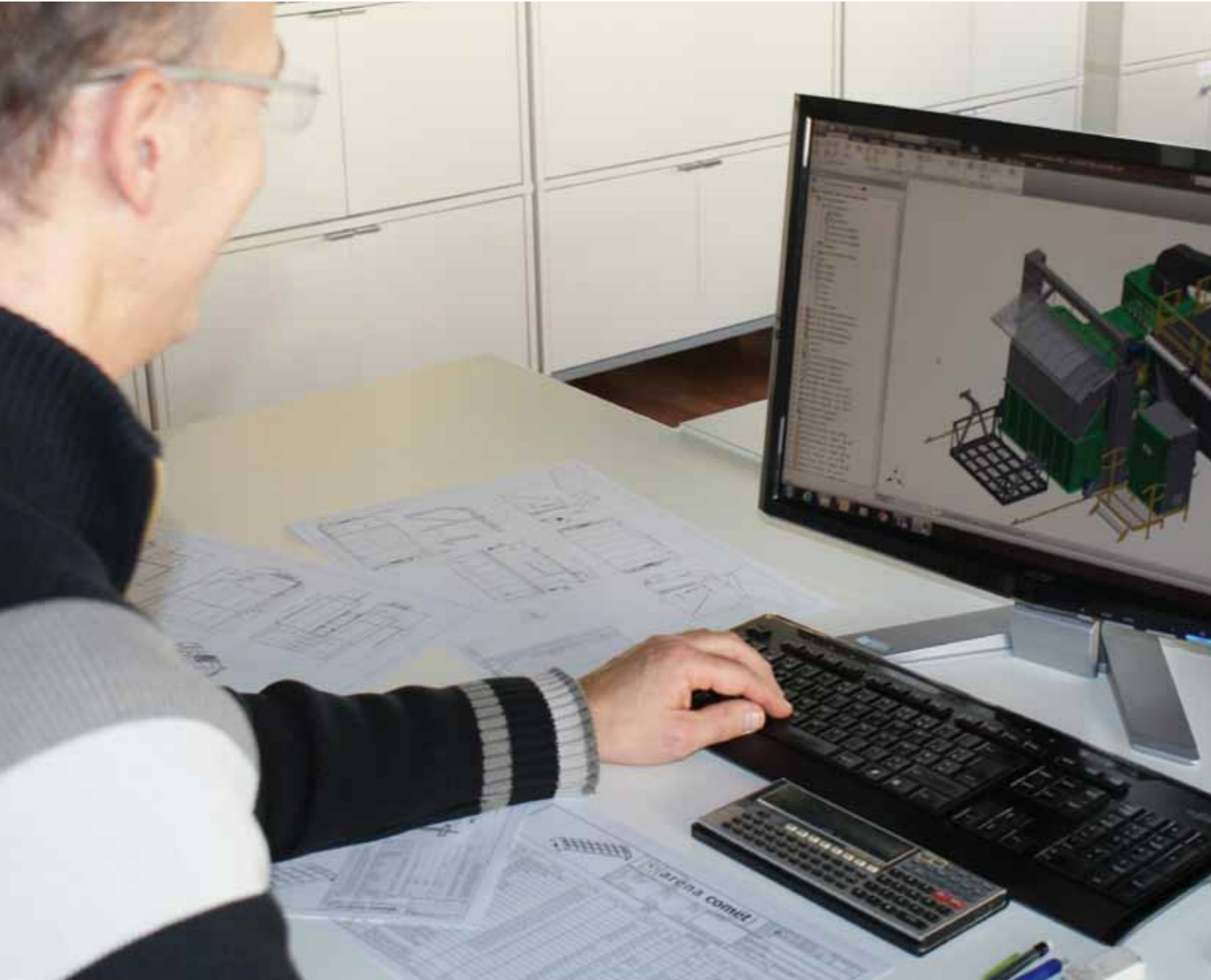
- Paint stripping of high value metal parts: wipers, profiles, aluminum wheels, ...
- Paint stripping of plastic parts, ...



Advantages

- Fast cleaning process (max. 2 hours)
- Ecologically friendly - no chlorinated chemicals used
- Recycling of costly metal parts
- Recycling of plastic parts covered with paint





Design and production

Arena has developed a large scale of machines for thermal cleaning with a constant focus on R&D to enhance the quality of their products. Our in-house design and technical department, our experience and close collaboration with the academic world enables us to deliver efficient, environmental friendly and sustainable solutions worldwide.



Services by Arena Comet

After-sales:

Arena Comet provides technical service worldwide on all types of thermal cleaning equipment.

Cleaning Service: Arena Comet developed cleaning service facilities at various locations in Europe (Service Cleaning Shop), following the latest technologies. The aim is to provide flexible and high quality cleaning solutions according to the customer's needs.

Arena Comet Group

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