



design
welding
fabrication
finishing

Bespoke Fabrications



Process Equipment

centrifugal sifters
lump breakers
double cone blenders
ribbon mixers
fluidizing paddle mixers



Bespoke Fabrications

Habrotek offer in house manufacturing of sheet metal and fabrications.

We have highly skilled workforce using the latest techniques to ensure the highest quality at competitive pricing.

We can manufacture to your drawings or be your one-stop shop, from concept through to design and manufacture one off items to batch quantities.

Fabrications can be supplied in 304L (1.4301), or 316L (1.4404) stainless steel, mild steel and aluminium.

We can offer the following services:

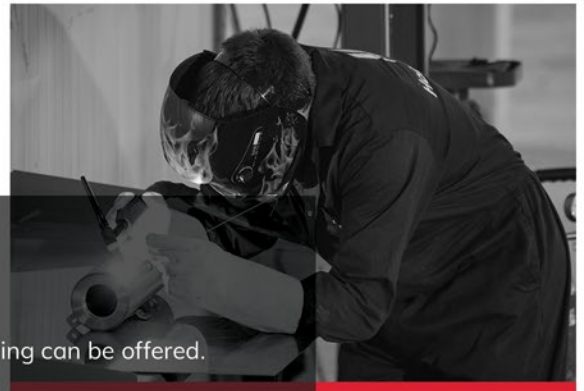
DESIGN

Using state of the art AUTODESK Inventor, (3D) or mechanical desktop, (2D) we can design bespoke fabrications or equipment to meet your requirements.



WELDING

TIG, MIG processes, coded welding can be offered.



FABRICATION / SHEET METAL

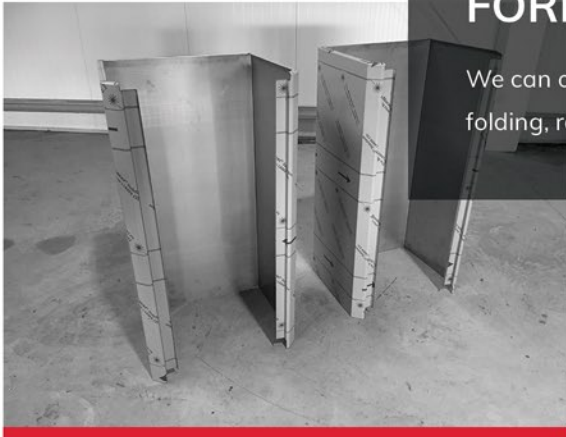
We can offer a wide range of high quality fabrications, from light or heavy fabrications to pipework fabrications which is carried out to our quality management system and qualified fabricators, welds and fitters.

FINISHING

Bead blast, Grit finish or mechanical and electro polishing, powder coating.



more services like:



FORMING

We can offer a wide range of forming service such as folding, rolling and tube bending.

CUTTING

We can cut tubes or various sections with our semi-automatic bandsaw to cutting sheets with a CNC guillotine.

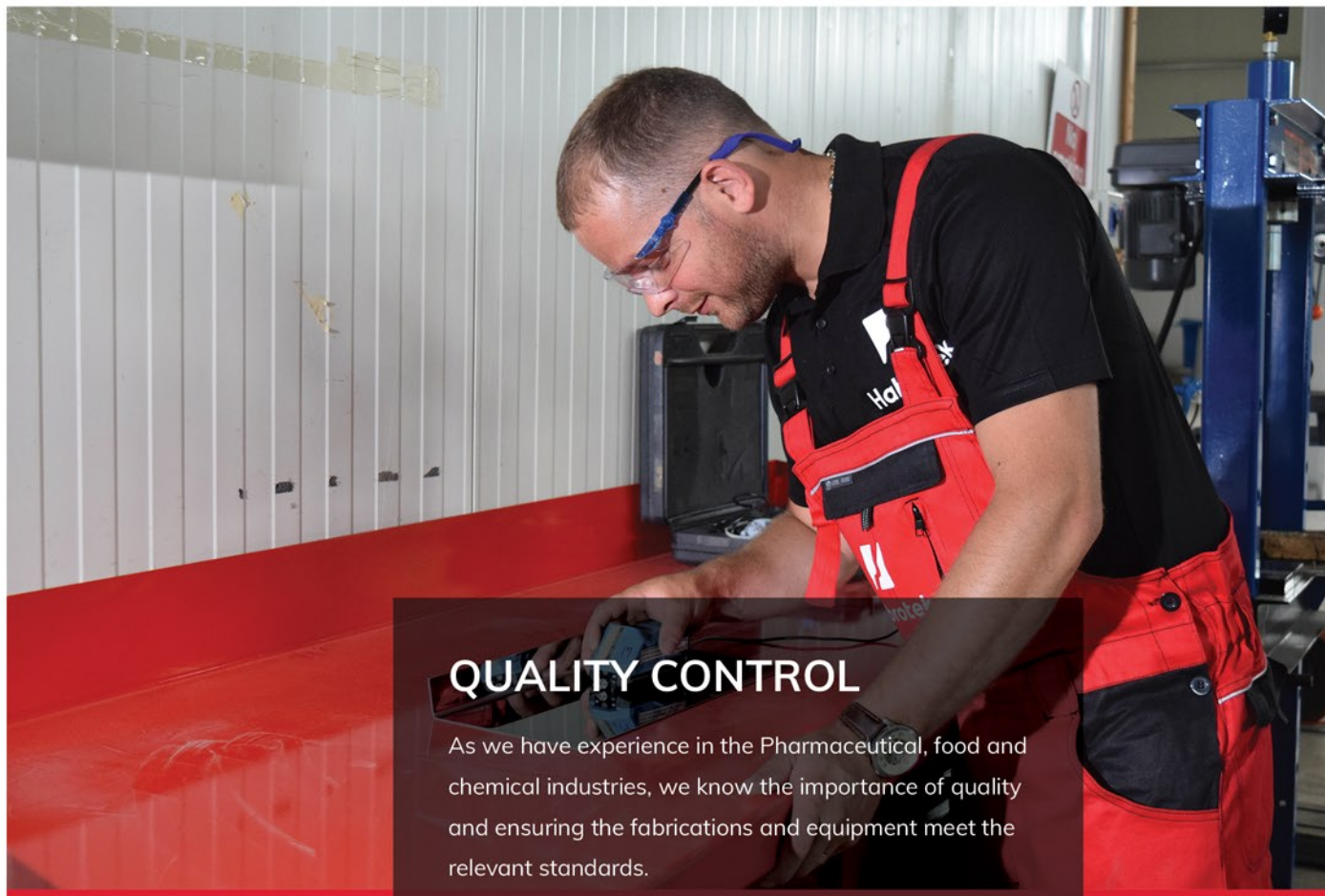


ASSEMBLY

We know the importance of ensuring that fabrications / equipment is assembled and fully tested before it leaves our factory, we can offer the following services:

- Full Assembly
- Piping and cabling
- Factory acceptance test, (FAT)
- Dismantling and packing

and last but not least:



QUALITY CONTROL

As we have experience in the Pharmaceutical, food and chemical industries, we know the importance of quality and ensuring the fabrications and equipment meet the relevant standards.

Below are some of the documentation we can offer with the fabrications / equipment which is an important part of the complete package.

Surface finish certificate, Material certificate to 3.1, Certificate of conformity, Pressure certificate, Factory acceptance test protocol, (FAT), Site acceptance test protocol, (SAT), Installation qualification Protocol, (IQ) , Operational qualification Protocol, (OQ).

Process Equipment >

CENTRIFUGAL SIFTER

Advantages

- Easy to clean
- No vibration
- Quick screen change over, wedge wire, nylon, woven wire, perforated plate
- High capacity with a small foot print
- Screen can be rotated in-situ for inspection
- Process scalability from lab to production



Typical Applications

- Check sieving, (policing) of flour, spices, sugar, almost any powder or granulated material
- De-agglomeration
- Scalping
- De-dusting of material
- Dry and wet applications
- De watering / liquid removal
- De-lumping dried fruit
- Inline sifting (for vacuum or pressure systems)
- Sieving below FIBC, Silos, Sacktip unit, Mixer / Blender

Overview

Our range of cantilever centrifugal sifters are designed with no vibration, dust tight connections.

The paddle assembly rotates at high speed causing a centrifugal action, powder passes through the static screen and any oversize particles is rejected to the oversize end chute.

The cantilever design has no bearing or seal at the oversize end, which allows quick change over of the screen.

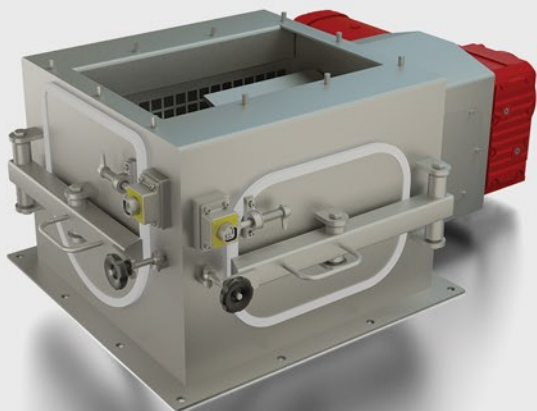
Our sifters can meet European and US standards and are suitable for the Pharmaceutical, Dairy, Food and Chemical Industries. Due to the hygienic and robust design, the sifters require low maintenance and comply with the latest Machinery and ATEX Directives.

Many sizes of sifters are available to sieve from a few kgs to many tons per hour.

The sifters can be supplied in 304L (1.4301), 316L (1.4404) stainless steel, exotic metals and mild steel.

NO VIBRATION!

LUMP BREAKER



Advantages

- Easy to clean
- No vibration
- Robust design
- Quick changeover of screen
- Minimal heat and dust generation
- Process scalability from lab to production
- Selection of beaters and screens are available for various applications
- No tools required when inspecting or cleaning down

Overview

Our range of lump breakers are robust design, running at slow speed to crush / break up lumps of material from 200mm diameter down to below 2mm.

The range of lump breakers can handle throughput rates of hundreds of kilos per hour to tons per hour.

The product is fed from the top and our specially designed beater pushes the product to the screen, which wedges / crushes the material against the screen until it falls through the screen apertures.

The lump breaker can be supplied with square, round or conidur / raised lip screens.

Due to the hygienic design and easy access doors, the machine is ideal for quick turnaround if screens are needed to be changed or different products are being processed.

The lump breakers can be supplied in 304L (1.4301), 316L (1.4404) stainless steel, exotic metals and mild steel.



Typical Applications

- De-agglomeration of compacted hygroscopic materials
- De-agglomeration of sugar from FIBC (super sacks) or sacks
- Pre breaking of material before another process, i.e. milling or mixing / blending
- De-lumping dried fruit
- Installed below FIBC (super sacks), IBC, silos, sacktip units, belt conveyors, screw conveyors.

EASY TO CLEAN!

DOUBLE CONE BLENDER

Advantages

- Easy to clean
- No vibration
- Total discharge with minimal dusting inside the blender
- Process scalability from lab to production



Typical Applications

- Blending of API and Pharmaceutical powders
- Blending of abrasive powders, (metal powders)
- Blending of tea
- Blending of detergents
- Nutraceuticals
- Herbs
- Chemical powders
- Vitamin and minerals
- Tobacco

Overview

Our range of Double Cone Blenders are ideal for blending powders, granules and fragile materials due to the slow rotating of the blender double cones.

The upper and lower cones have different angles which improves the blending action, with lower cone having the steepest angle which aids product flow when discharging.

The standard batch range from 5 to 15,000 working litres, but special versions are available to meet clients requirements on request.

The double cone blenders can meet European and US standards and are suitable for the Pharmaceutical, Dairy, Food and Chemical Industries.

Due to the hygienic and robust design, the Double Cone Blenders require low maintenance and comply with the latest Machinery and ATEX Directives.

The Double Cone Blenders can be supplied in 304L (1.4301), 316L (1.4404) stainless steel, exotic metals, mild steel.

LOW ENERGY CONSUMPTION!

FLUIDIZING PADDLE MIXER



Advantages

- Easy to clean
- Low energy consumption, kW / ton
- Quick mixing times
- Process scalability from lab to production
- Low cv, (coefficient of variation values)

Overview

Our range of fluidizing paddle mixers are designed for high speed mixing but gentle action at the same time.

The mixer has an agitator shaft with inner and outer paddles which run at high speed and fluidizes the product within the mixing chamber.

The standard batch range from 5 to 20,000 working litres, but special versions are available to meet clients requirements on request.

The fluidizing paddle mixers can meet European and US standards and are suitable for the Pharmaceutical, Dairy, Food and Chemical Industries.

Due to the hygienic and robust design, the fluidizing paddle mixers require low maintenance and comply with the latest Machinery and ATEX Directives.

The fluidizing paddle mixer can be supplied in 304L (1.4301), 316L (1.4404) stainless steel, exotic metals, mild steel.



Typical Applications

- Mixing of API and Pharmaceutical powders
- Spice mixes
- Cake mixes
- Cereal mixes
- Nutraceuticals
- Detergent mixes
- Pigments
- Chemical powders
- Vitamin and minerals
- Pet food

QUICK MIXING TIMES!

RIBBON MIXER

Advantages

- Easy to clean
- Low energy consumption, kW / ton.
- Quick mixing times
- Process scalability from lab to production
- Low cv, (coefficient of variation values)
- Versatile range of mixers to handle dry or damp powders, pastes and slurries.



Typical Applications

- Mixing of API and Pharmaceutical powders
- Spice mixes
- Cement mix
- Cereal mixes
- Nutraceuticals
- Detergent mixes
- Chemical powders
- Vitamin and minerals

Overview

Our range of ribbon mixers are designed for quick mixing, but gentle action at the same time.

The mixer has an agitator shaft with inner and outer spirals, which gives good mixing action.

The standard batch range from 5 to 20,000 working litres, but special versions are available to meet clients requirements on request.

The ribbon mixers can meet European and US standards and are suitable for the Pharmaceutical, Dairy, Food and Chemical Industries.

Due to the hygienic and robust design, the ribbon mixers require low maintenance and comply with the latest Machinery and ATEX Directives.

The ribbon mixer can be supplied in 304L (1.4301), 316L (1.4404) stainless steel, exotic metals, mild steel.

VERSATILE MIXER!



Spares

Habrotek offer aftersales services, onsite support and spare parts for our own equipment and others.

Below are examples of some of the spare parts we can offer:

- Wedge wire screens
- Nylon screens
- Woven wire screens
- Perforated plates
- Cones
- Seals
- Magnetic detachable seals
- FDA compliant seals
- O rings
- Bearings

Test Centre

Habrotek test centre has a wide range of test equipment.

Inhouse trials with fully documented reports are sent free of charge and trials can either be witnessed or we can send a video.

From the results, we can make a full assessment and tailor the process equipment to suit your application needs.



Habrotek

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