

kemutec

A BRAND OF COPERION

Spare Parts and Services



» Kemutec
KEK Sifters

» Gardner
Mixers &
Blenders

» Kemutec
KEK &
PPS Mills



YOUR WORLDWIDE FOOD PROCESSING PARTNER

Our teams at Kemutec engineer and customize high quality process solutions for powders used in the food, chemicals and pharmaceuticals sectors.

Kemutec proudly became part of Coperion, a global manufacturer of bulk material handling products and systems in 2018.

Kemutec solutions include equipment for Size Classification, Screening and Size Reduction, as well as Mixing and Blending technologies. Well-known and trusted brands from the Kemutec range, include Kemutec KEK, Gardner and PPS. These brands represent decades of powder processing knowledge and on-going innovation.

KEY FOOD APPLICATIONS FOR KEMUTEC INCLUDES:

- » Flour sifting
- » Sugar grinding
- » Dairy powder densification
- » Cocoa mixing
- » Cookie rework
- » Starch densification
- » Vital wheat gluten milling
- » Potato flake milling
- » Bakery pre-mixes



HOW WE ADD EXTRA VALUE

MATERIAL TESTING

We offer material and process testing in a number of global Test and Innovation Centers. Over many years we have gathered a significant amount of expertise, which helps us optimize processes and customize the design of all Kemutec solutions, to meet our clients' requirements.

All our Test and Innovation Centers are equipped to allow for remote involvement with our customers, such as live streaming. Alternatively, you are welcome to visit and witness the testing process yourself. Videoing of all trials is also available.

ATEX COMPLIANCE

When equipment has been manufactured to meet the requirements of ATEX Directive 2014/34/EU, it is essential to keep the equipment fully maintained and serviced.

Following the maintenance schedule provided within the manual of your specific machine ensures continued compliance with ATEX directives, as well as operator and machinery safety.





OUR SPARE PARTS OFFERING

All replacement parts are manufactured to the original drawings and exact specifications making your refurbished equipment as efficient and reliable as ever.

The Kemutec aftermarket team has vast knowledge and experience in dealing with spare parts inquiries for processing equipment. Consequently, they offer advice and a wide range of replacement products and services to help end users maximize the performance, productivity and longevity of their equipment for many years to come.

EQUIPMENT SERIAL NUMBER ARCHIVE

The Kemutec aftermarket team has archived original contract files and information on the vast majority of Kemutec KEK, Gardner and PPS machines dating back to the 1980's. These archived files detail the original specifications, contract specific drawings and build materials of any individual machine or powder processing system.

To enable the aftermarket team to fully utilize this resource, please provide us with your machine's unique serial number.

**For further information or advice,
contact us on 816-891-9300,
or info@coperion.com**



SCREENING AND SIZE CLASSIFICATION

The Kemutec **KEK** Centrifugal Sifter is widely known as a high capacity powder sifter; providing unparalleled performance for classifying particle size and screening the material for contaminants.

MIXING AND BLENDING

Ribbon Mixer – For gentle blending, to high intensity batch or continuous mixing, with ingredients dispersed homogeneously.

Plow Mixer – For high speed, high shear mixing. It is ideally suited for breaking up lumps and agglomerates.

Double Cone Blender – Offers gentle tumbling, for free-flowing powders and granules. The Double Cone Blender is also versatile enough to handle delicate or heavy abrasive products.

SIZE REDUCTION

Universal Mill – High speed, one-pass fine grinding, combined with interchangeable grinding media.

Cone Mill – Grinds material to achieve a consistent size for sifting. It is very versatile and will process wet or dry product.

Kibbler – Heavy duty, coarse grinding and lump breaking mill, with controlled particle size. Easy to clean, with simple maintenance.

Air Classifier Mill – Ultra-fine grinding with controlled particle size distribution and high temperature control.



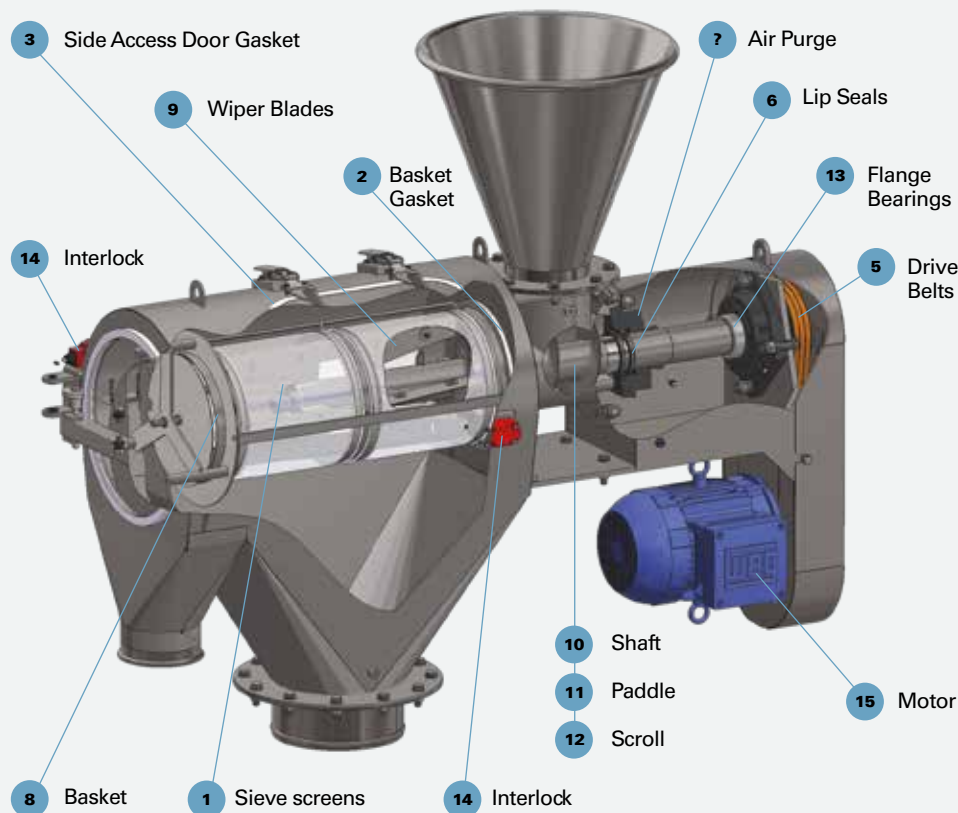
KEMUTEC KEK CENTRIFUGAL SIFTER

Centrifugal Sifters are so well built that their longevity is often taken for granted.

However, it is imperative to employ a regular service and maintenance regime to ensure unplanned breakdowns are kept to an absolute minimum. Failure to maintain these machines can result in machine failure and will significantly reduce productivity and process efficiency.

Kemutec KEK Centrifugal Sifter offers users high standards of hygiene and ease of operation. Centrifugal Sifters are applied to a diverse variety of applications and industry sectors.





KEMUTEC KEK CENTRIFUGAL SIFTER

To keep your machine in optimum condition, please refer to the following service interval guidelines in the table below.

ITEM	PART DESCRIPTION	INSPECTION INTERVAL	REPLACEMENT INTERVAL
1	Sieve sifter screen	At the start of each shift	As required
2	Basket gasket		
3	Side access door		
4	OSE door gasket		
5	Drive belt	1200 hours	Annually
6	Lip seals	570 hours	1200 hours
7	PTFE seal ring	570 hours	1200 hours
8	Basket	At the start of each shift	As required
9	Wiper blades		
10	Shaft		
11	Paddle		
12	Scroll	600 hours	13500 hours
13	Bearings		
14	Interlock		
15	Motor	Bi-annually	As required



CONSUMABLE KEMUTEC KEK SIFTER SPARE PARTS

Kemutec holds stock of most consumable spare parts such as, seals, belts, bearings, spider couplings, shafts, paddle assemblies, augers, sifter brushes, seals and wiper blades.

SIFTER SCREENS

The Sifter screen is the most critical consumable part within a Centrifugal Sifter, as it has a direct effect on the quality of the product being processed, as well as the efficiency and productivity.

Care should be taken when selecting a replacement sieve screen as changes in material and micron size will affect the capacity and performance of the machine.

Kemutec offers four types of sieve screens to suit a wide variety of applications and sifting machines. Where required the Kemutec team can offer advice on sieve selection.



Nylon mesh sifter screens



CONSUMABLE KEMUTEC KEK SIFTER SPARE PARTS

Our sewing room and rubber fabrication facilities manufacture a wide range of nylon fabric sifter screens. Where nylon screens are not applicable, wedge wire and perforated baskets are available.



Wedge wire baskets



Perforated baskets



Sifter baskets



CONSUMABLE KEMUTEC KEK SIFTER SPARE PARTS

Standard screens are manufactured in white nylon, in a range of different aperture sizes to suit a variety of applications. However, for special requirements or applications we can offer the following:

- » Nylon sifter screens with sewn seams can be used for applications requiring fine aperture sizes. In addition, they can be used instead of welded screens for oil based ingredients which can penetrate the welds
- » Stainless steel woven wire screens in a variety of aperture sizes
- » Wedge wire baskets can be used for heavy duty applications or where access for maintenance is limited
- » Woven wire basket assemblies and wedge wire baskets are available in ferritic and non-ferritic steel

FEATURES:

- » Colored nylon screens (blue). All dyes are FDA approved
- » Anti-static screens
- » All nylon sieve screens are hand-made and inspected on-site to ensure the highest product quality
- » Competitive pricing
- » Short lead times for bulk orders or one-off custom-made products
- » Stocking facility enables customers to place off the shelf orders

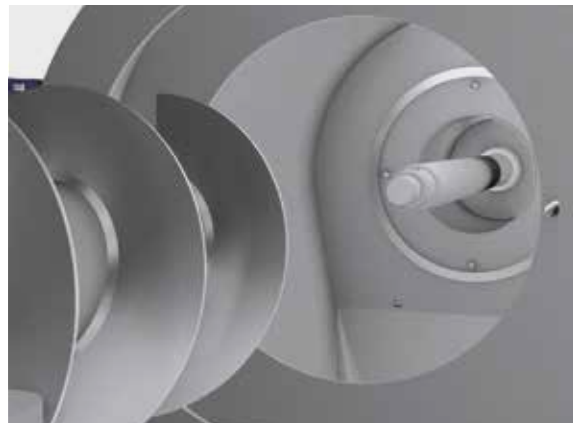


AFTERSALES SERVICE

We stock a comprehensive range of standard nylon sieve screens and in some circumstances, we can offer 24 hour emergency service. We can also produce and supply screens for other manufacturers equipment. Why not place **'blanket orders'**, so that off the shelf orders can be supplied at very short notice and be guaranteed for next day delivery?

Got an emergency with your sieving screen? We could help within 24hrs!

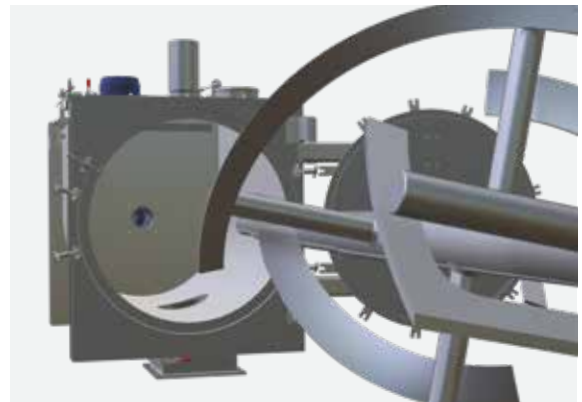
Tell us your make and model and we will strive to supply quickly.



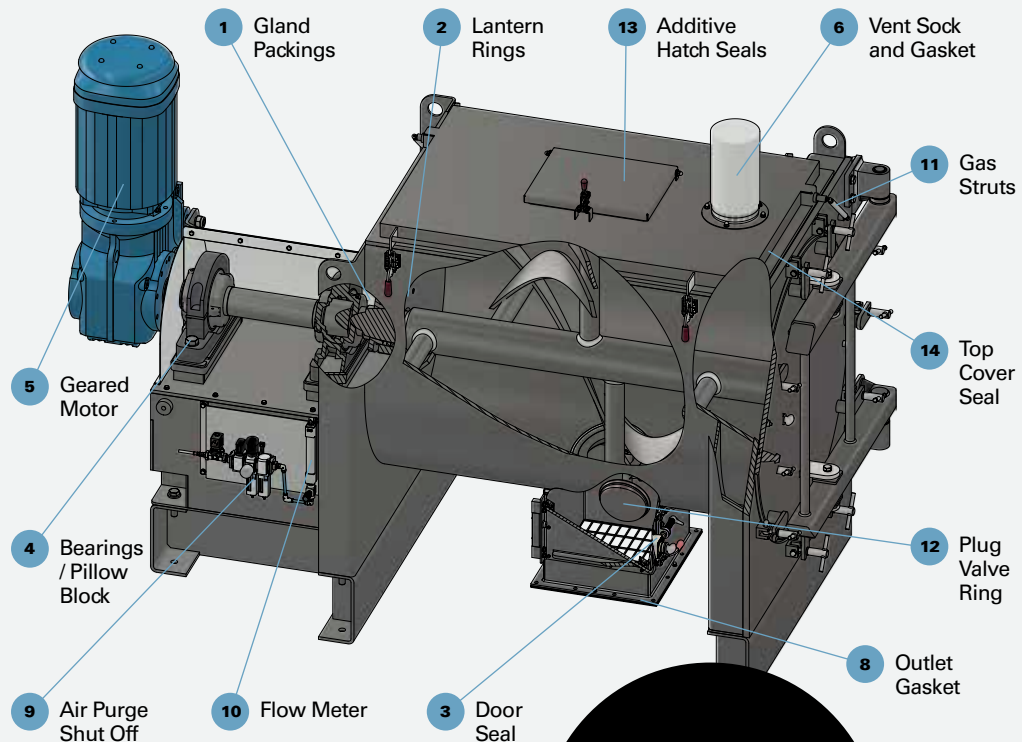


GARDNER MIXERS AND BLENDERS

Kemutec is the original equipment manufacturer of spare parts for the Gardner range of Horizontal Plow, Ribbon and Paddle Mixers and Blenders. The Gardner range of Mixers and Blenders are designed for consistent batch and continuous blending of powder and granules with capacities ranging from 50L to suit most application requirements.



Gardner Ribbon Mixer



**The Gardner
range offers
decades of
experience and
versatility**

GARDNER MIXERS

Gardner 'U' shaped Trough Mixers provide excellent mixing characteristics with ease of access for filling and cleaning. Mixers are generally available in a standard configuration, though customization is possible. Once the end plate has been removed the 316 stainless steel ribbon type agitator is easily withdrawn without disturbing the bearings and seals.

ITEM	PART DESCRIPTION	INSPECTION INTERVAL	REPLACEMENT INTERVAL
1	Gland Packing	700 hours	1400 hours
2	Lantern Rings	700 hours	1400 hours
3	Door Seal	Daily	As required
4	Bearings	700 hours	17,500 hours
5	Geared Motor	1400 hours	As required
6	Vent Sock Gasket	Daily	As required
7	Spray Nozzle Gasket	Daily	As required
8	Outlet Gasket	Daily	As required
9	Air Purge Shut Off	Daily	As required
10	Flow Meter	Daily	As required
11	Gas Strut	Daily	As required
12	Plug Valve O Ring	Daily	As required
13	Additive Hatch Seal	Daily	As required
14	Top Cover Seal	Daily	As required



GARDNER MIXERS

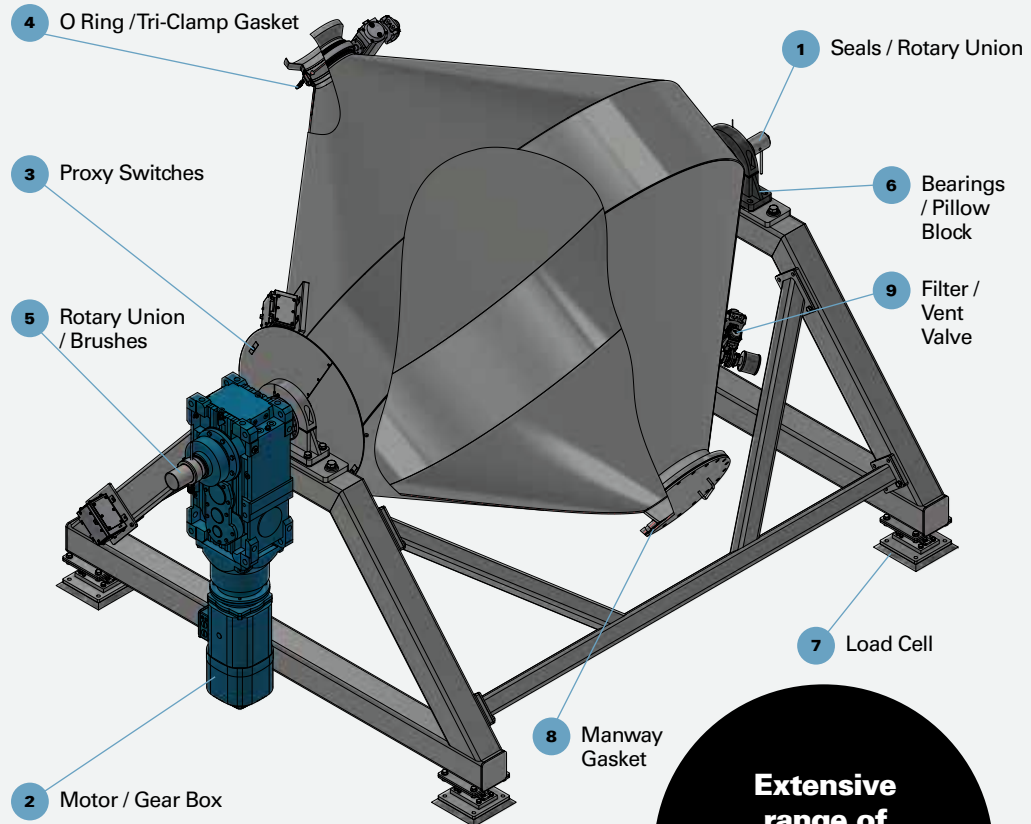
The Kemutec aftermarket team can provide everything needed to maintain the correct function of your L-Series Ribbon Mixer; from a complete replacement agitator through to gland packing for the shaft seals.

We have expert knowledge of the product and the manufacturing techniques required to meet your demanding process requirements.

Our experienced service engineers can assist in Mixer preventative maintenance as well as carry out repairs. In addition, we have extensive records of Mixers supplied over many years which allow us to provide genuine replacement parts.



Watch our Kemutec range on YouTube.



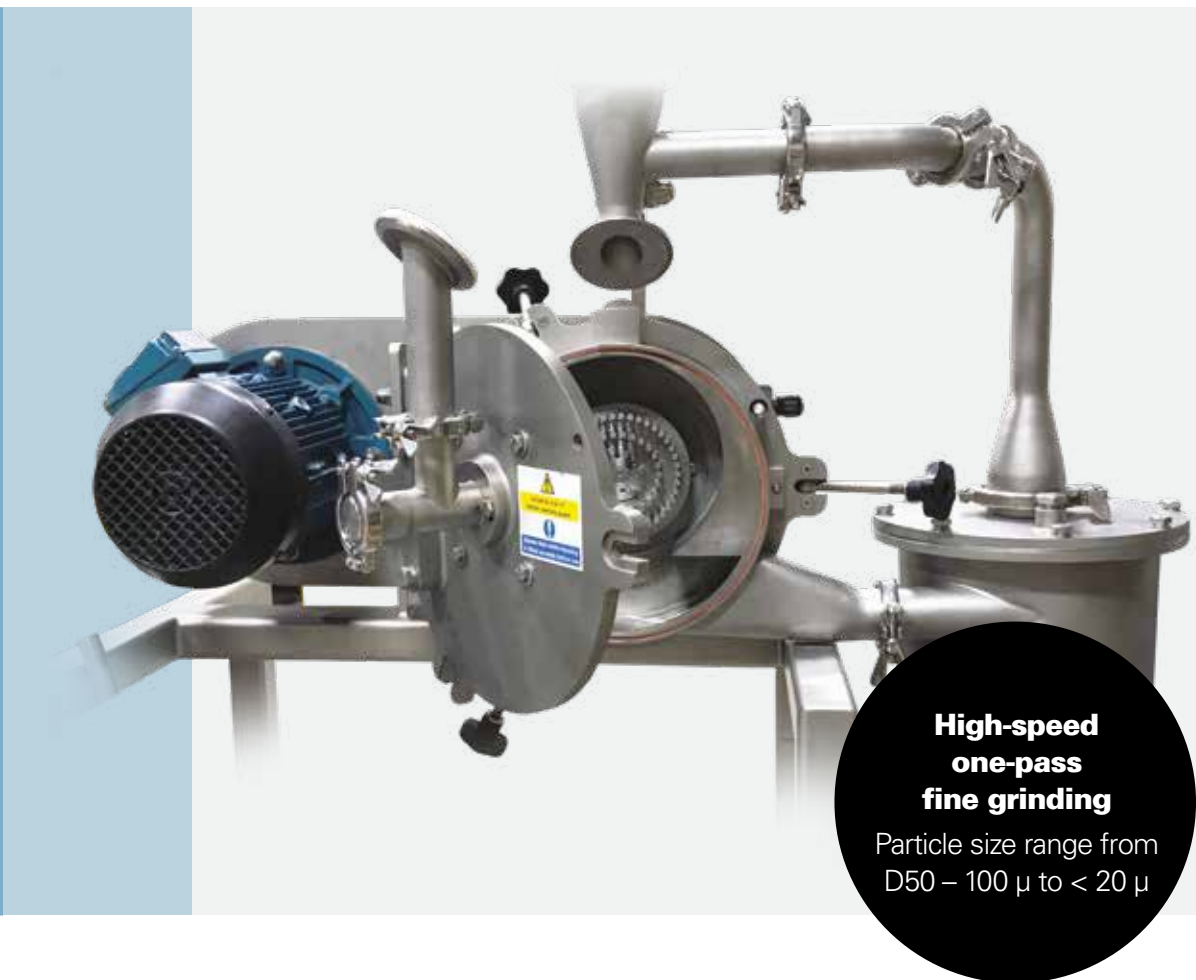
**Extensive
range of
models available
with varying
capacities**

GARDNER BLENDERS

The Gardner range of Double Cone Blenders are manufactured in a wide range of sizes from 3.2L capacity upwards. Designed to give a very gentle mixing of powders and slurries, often working for many years without the need for extensive service or repair.

The Kemutec aftermarket department can provide any spare parts or service assistance you may need to maintain the correct operation of your Blender. Generally this relates to the bearings, support journals and ancillary equipment when loading and discharging.

ITEM	PART DESCRIPTION	INSPECTION INTERVAL	REPLACEMENT INTERVAL
1	Seals / Rotary Union	Daily	As required
2	Motor / Gear Box	1200 hours	As required
3	Proxy Switches	Bi-Annually	As required
4	O Ring /Tri-Clamp Gasket	Daily	As required
5	Rotary Union / Brushes	3 Months	As required
6	Bearing Pillow Blocks	600 hours	17,500 hours
7	Load Cell	3 Months	As required
8	Manway Gasket	Daily	As required
9	Filter / Vent Valve	Daily	As required



KEMUTEC KEK UNIVERSAL MILL

Kemutec KEK Mills are designed and constructed for high performance, robustness, safety and easy maintenance.

Construction can be from a wide range of materials and can be designed to withstand pressure of up to 10 bar.

Typical grind materials up to 3 Moh hardness and 30 – 500 micron mean particle size.

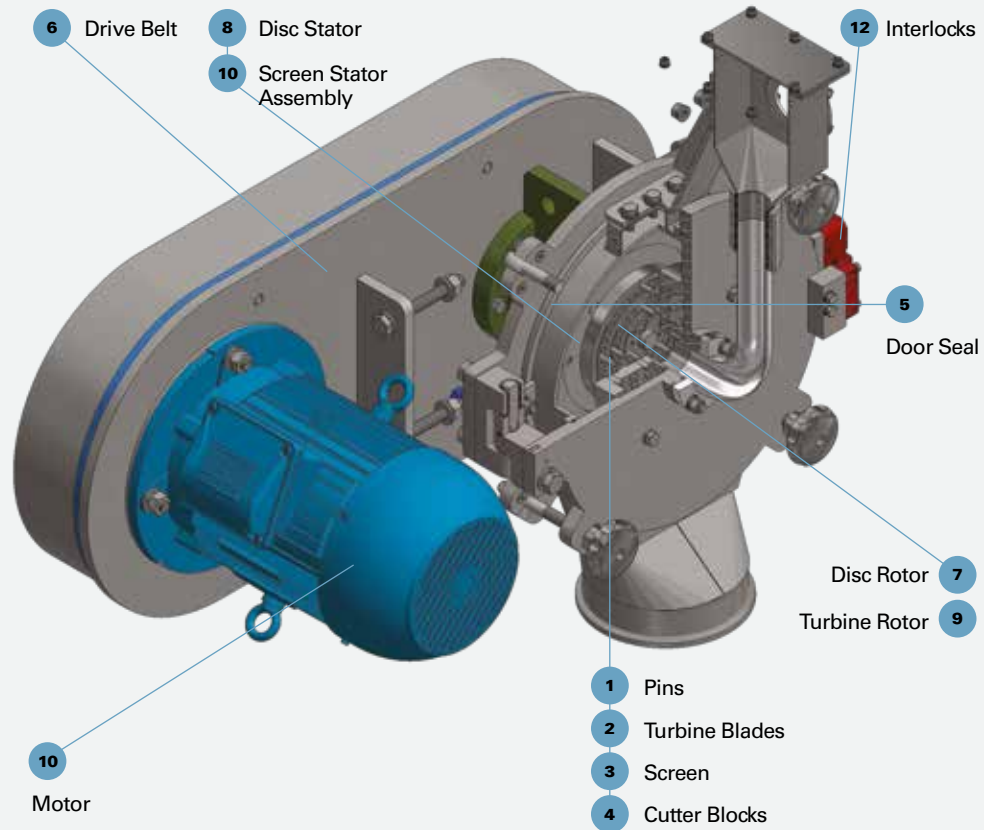
Key replacement parts include:

- » Grinding media such as pin and disc or screen and turbine which are interchangeable
- » Bearing assemblies

Kemutec maintains a stock of materials for replacement Mill screens to suit a variety of milling.

Screens are available with round, square and conidur apertures in 316L stainless steel and 430 metal detectable stainless steel.





KEMUTEC KEK UNIVERSAL MILL

To keep your machine in optimum condition, please refer to the following service interval guidelines in the table below.

ITEM	PART DESCRIPTION	INSPECTION INTERVAL	REPLACEMENT INTERVAL
1	Pins	At the start of each shift	As required
2	Turbine Blades		
3	Screen		
4	Cutter Blocks		
5	Door Seal	1200 hours	Annually
6	Drive Belt		
7	Disc Rotor	At the start of each shift	As required
8	Disc Stator		
9	Turbine Rotor		
10	Screen Stator Assembly	1000 hours	17520 hours or 2 years (whichever is sooner)
11	Bearing Assembly		
12	Interlocks	Bi-annually	As required
13	Motor		



KEMUTEC KEK UNIVERSAL MILL

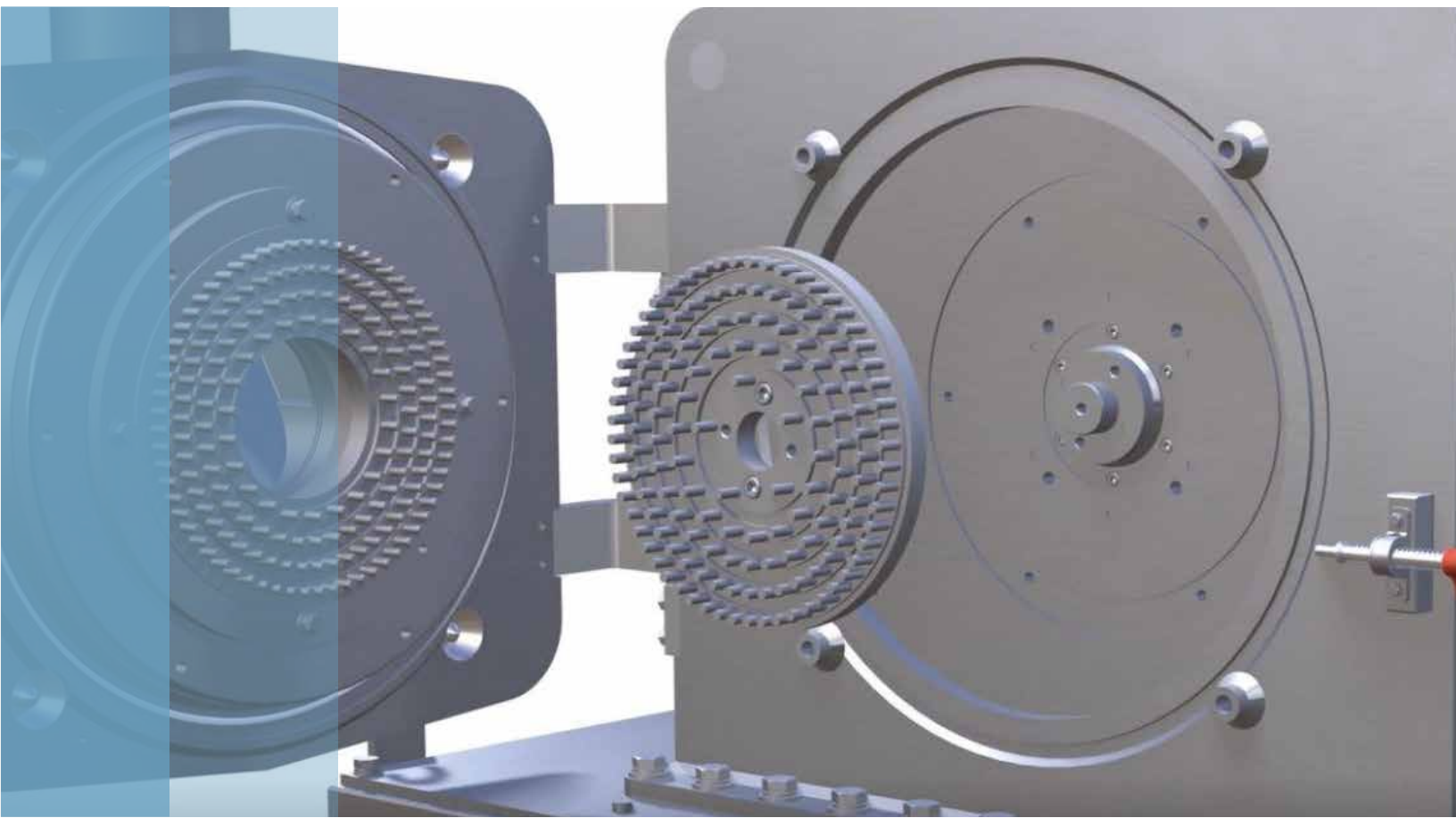
MILL PINS

Pins are the most common consumable wear parts that will require replacement within a pin and disc operated Mill. Degradation and the eventual breaking of the pins will result in machine failure. Replacing worn pins on a regular basis will help avoid any major failings and will ensure that the Mill runs for as long and efficiently as possible.



FEATURES:

- » An in-house repining service
- » Oversize replacement pins if required
- » Pins are available in various materials, shapes and sizes
- » EN16T hardened pins are offered as standard
- » Custom pins are available upon request

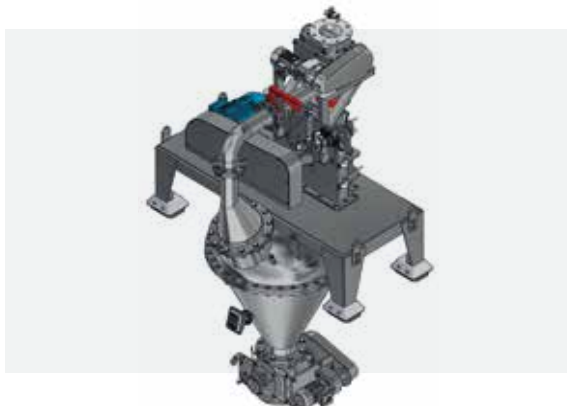


KEMUTEC KEK UNIVERSAL MILL

MILL CUTTING BLOCKS

Cutter blocks offer an additional breaking surface within the Mill; improving efficiency and performance.

Cutter blocks are available in both mild steel and stainless steel and can be hardened to EN16T and B01 standards for improved durability and longevity.



MILL ROTOR DISC AND TURBINES

Rotor disc and turbines are integral to the safe operation of any mill. These spinning parts are subject to large centrifugal forces. Therefore, it is essential that these parts are balanced to a high tolerance and are well maintained.

Out of balance rotor discs and turbines will result in bearing assembly failure due to excess stress and vibration. Eventually this will cause complete machine failure. All rotor discs and turbines supplied are dynamically balanced as standard and are available in a range of materials.

We can offer a full range of spare parts for each mill type. Just provide your serial number and we will assist.



Versatile milling capabilities

Particle size range
from D50 – 500 μ
to < 250 μ

KEMUTEC KEK CONE MILLS

Kemutec KEK Cone Mills are specifically designed to meet the needs of today's food and pharmaceutical applications.

Cone milling is a gentle, low energy method of size reduction. It is ideal for fatty, heat sensitive, sticky, moist and fragile products as well as alleviating traditional milling problems such as noise, dust and heat generation.

To ensure smooth operation of this equipment we offer planned maintenance services and hold a comprehensive range of consumable components.

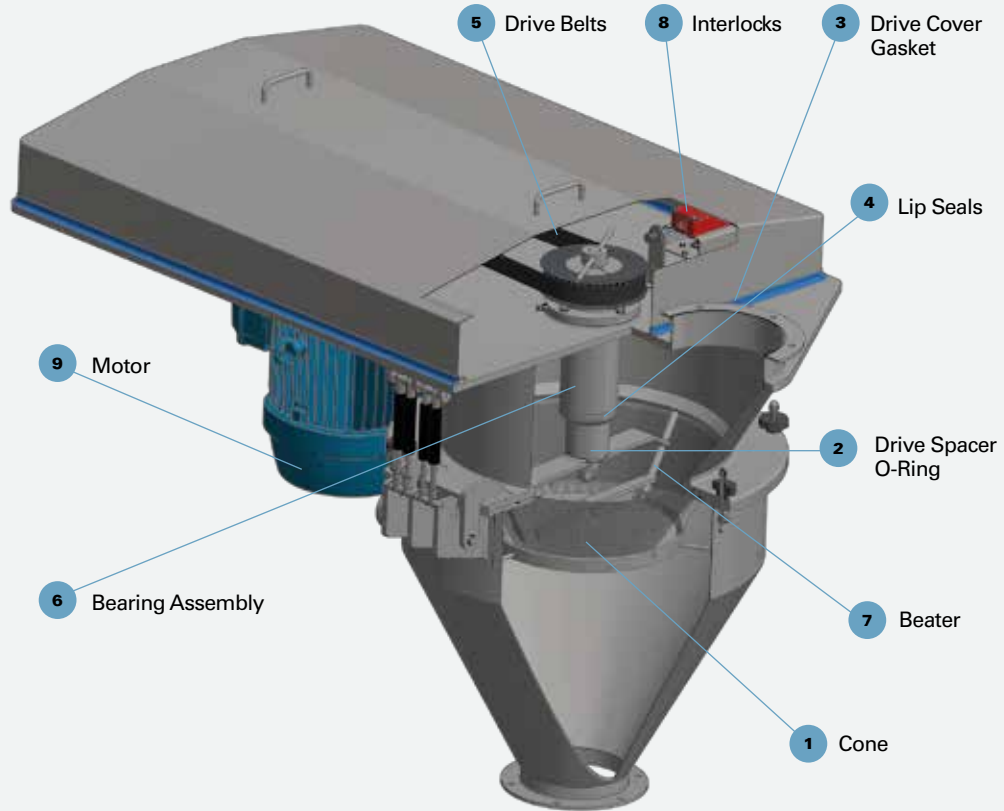
Cone Mills effectively reduce noise, dust and heat generation

Cones are produced from pre-punched profiles and constructed from 316L stainless steel in a variety of finishes including bead blast, crack and crevice free welds and mirror polished.

Cones are available with round, square and conidur apertures in 316L stainless steel and 430L metal detectable stainless steel.

Rotors and beaters are single piece components, which too can be bead blasted or mirror polished as required.

Cone Mills are often manufactured to a specific customer requirement. However, consumable parts are typically similar across the range.



KEMUTEC KEK CONE MILLS

REPLACEMENT CONES

Changing the aperture of a cone will have a direct impact on throughput and particle size distribution of the Cone Mill. The Kemutec aftermarket team is happy to give advice if required.

Over time cones will wear and flex under repetitive strain from the product and beater. Therefore, it is important to regularly inspect the cone for any cracks or breaks and if necessary, replace any damaged items as soon as possible.

ITEM	PART DESCRIPTION	INSPECTION INTERVAL	REPLACEMENT INTERVAL
1	Cone	At the start of each shift	As required
2	Drive Spacer O-Ring		
3	Drive Cover Gasket		
4	Lip Seals	600 hours	1200 hours
5	Drive Belt	1200 hours	Annually
6	Bearing Assembly	600 hours	13500 hours
7	Beater or Rotor	At the start of each shift	As required
8	Interlocks	Bi-annually	
9	Motor		



**Coarse grinding
and lump breaking**

Particle size range
150 mm to 2-3 mm

KEMUTEC KEK KIBBLER

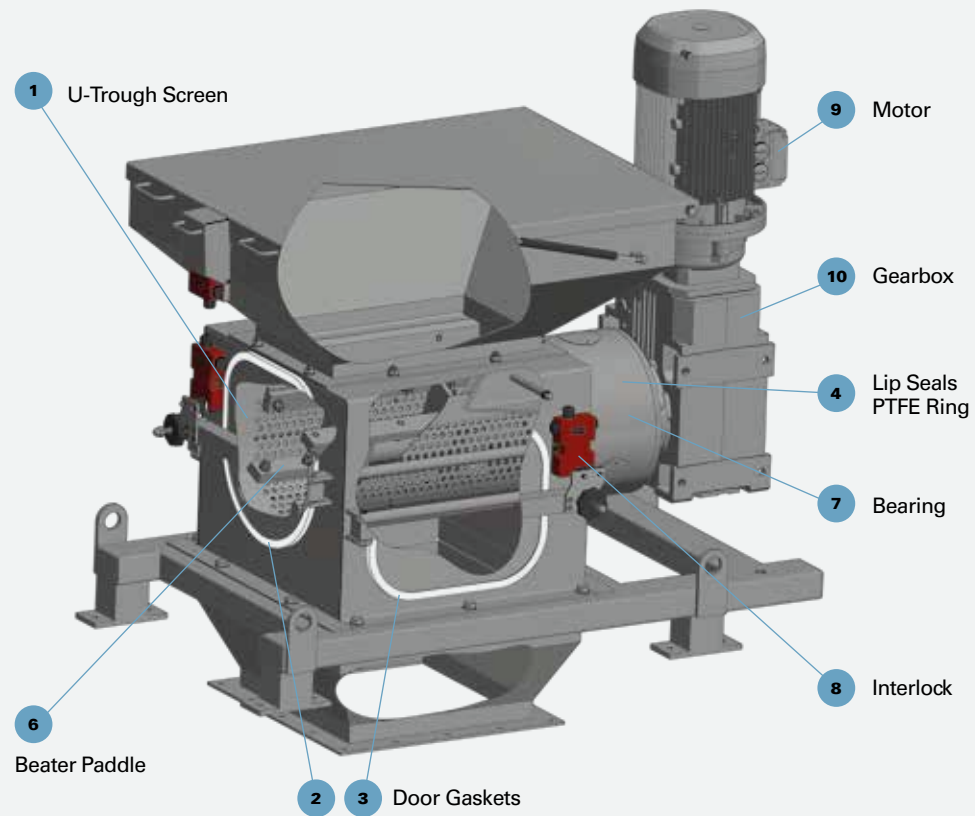
Kemutec KEK Kibbler lump-breakers are designed to work in conjunction with other Kemutec KEK Mills or as a stand-alone coarse grinding mill.

The Kibbler will accept lump material up to 150mm diameter and reduce them to 2mm – 3mm within a narrow particle size distribution and with minimal fines.

Kibbler de-lumping machines are often manufactured to a specific customer requirement. However, consumable parts are typically similar across the range.



**Robustly grind from 150mm down
to 2mm in diameter**



KEMUTEC KEK KIBBLER

We offer a wide range of working spares for Kemutec KEK Kibblers such as raised lipped screens. Conidur is varied and available in many aperture sizes. These are customized and manufactured upon request, utilizing a specialized punching technique. Beaters and bearing assemblies can also be supplied as well as all gaskets and seals.

ITEM	PART DESCRIPTION	INSPECTION INTERVAL	REPLACEMENT INTERVAL
1	Screen	At the start of each shift	As required
2	NDE Door Gasket		
3	Side Door Gasket		
4	Lip Seals	Monthly	1500 hours
5	PTFE Seal Ring		1500 hours
6	Beater	At the start of each shift	As required
7	Bearing	Monthly	17500 hours
8	Interlocks	Bi-annually	As required
9	Motor		
10	Gearbox		



**Highly controlled,
ultra-fine grinding**

Particle size range from
D50 – 20 μ to < 5 μ

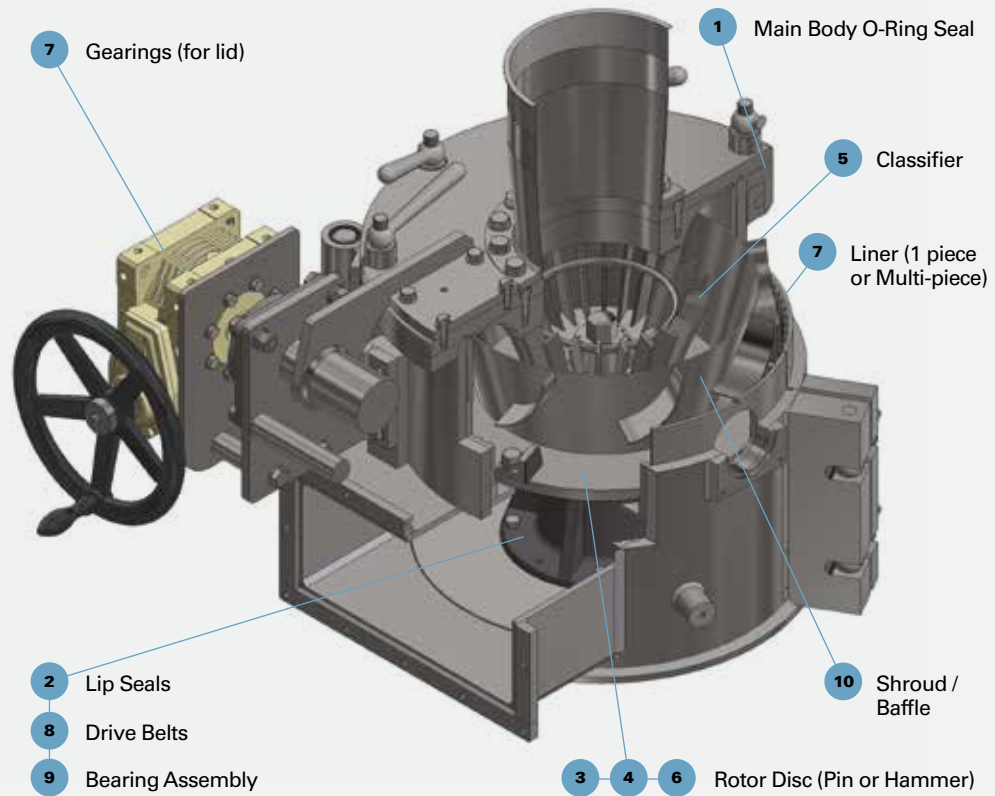
PPS AIR CLASSIFIER MILL

PPS Air Classifier Mills offer finer grinding capabilities than Universal Mills, typically grinding to an average particle size of 20 μ with greater control over particle size distribution.

Once milled, the desired material is carried out within a regulated airflow while coarse particles remain until reduced to the required size.

PPS Air Classifiers offer finer grinding with optimum control





PPS AIR CLASSIFIER MILL

Common spare parts and suggested replacement schedule.

ITEM	PART DESCRIPTION	INSPECTION INTERVAL	REPLACEMENT INTERVAL
1	Main Body O-ring seal	At the start of each shift	As required
2	Lip Seals		
3	Pins		
4	Hammers		
5	Classifier		
6	Rotor		
7	Liner (1 piece or Multi piece)		
8	Drive Belt	4500 hours	9000 hours
9	Bearing Assembly		
10	Shroud / Baffle		
11	Interlocks	Bi-annually	As required
12	Motor		
13	Gearbox		

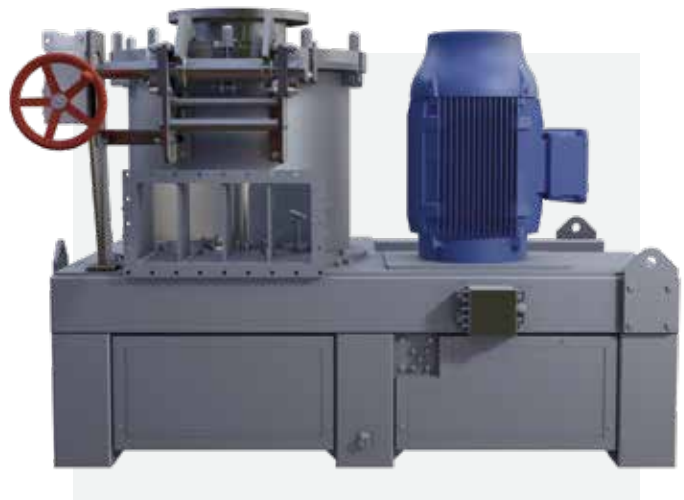


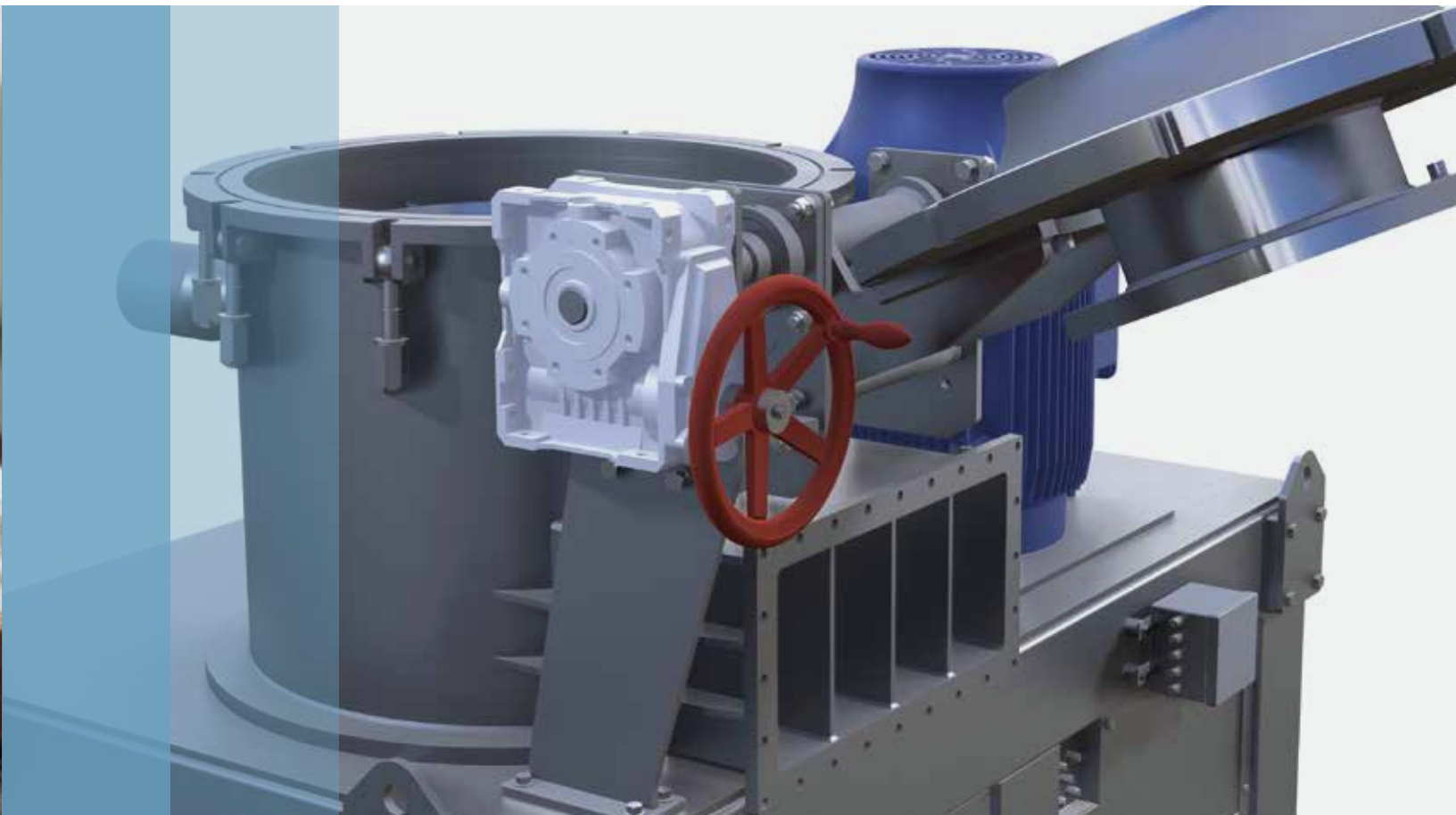
**We provide
peace of mind
through supplying
reliable parts
as the original
manufacturer**

PPS AIR CLASSIFIER MILL

The PPS range includes the compact 1CMT, the 2/3CMT, 4/5CMT, 6/7CMT, 8CMT all the way to the giant 10CMT with its 250kW main drive. The aftermarket team can provide a full set of replacement parts for the CMT range, manufactured to the original drawings and specifications, such as:

- » Replacement bearing assemblies
- » Repair and refurbish existing bearing assemblies
- » Motor and accompanying drive product replacement
- » Grinding rotors, both pin and hammer configurations
- » Grinding liners in various materials
- » Grinding hammers and pins - hammers can be available with tungsten carbide faces
- » Discharge flap valves or spare parts to suit





PPS AIR CLASSIFIER MILL

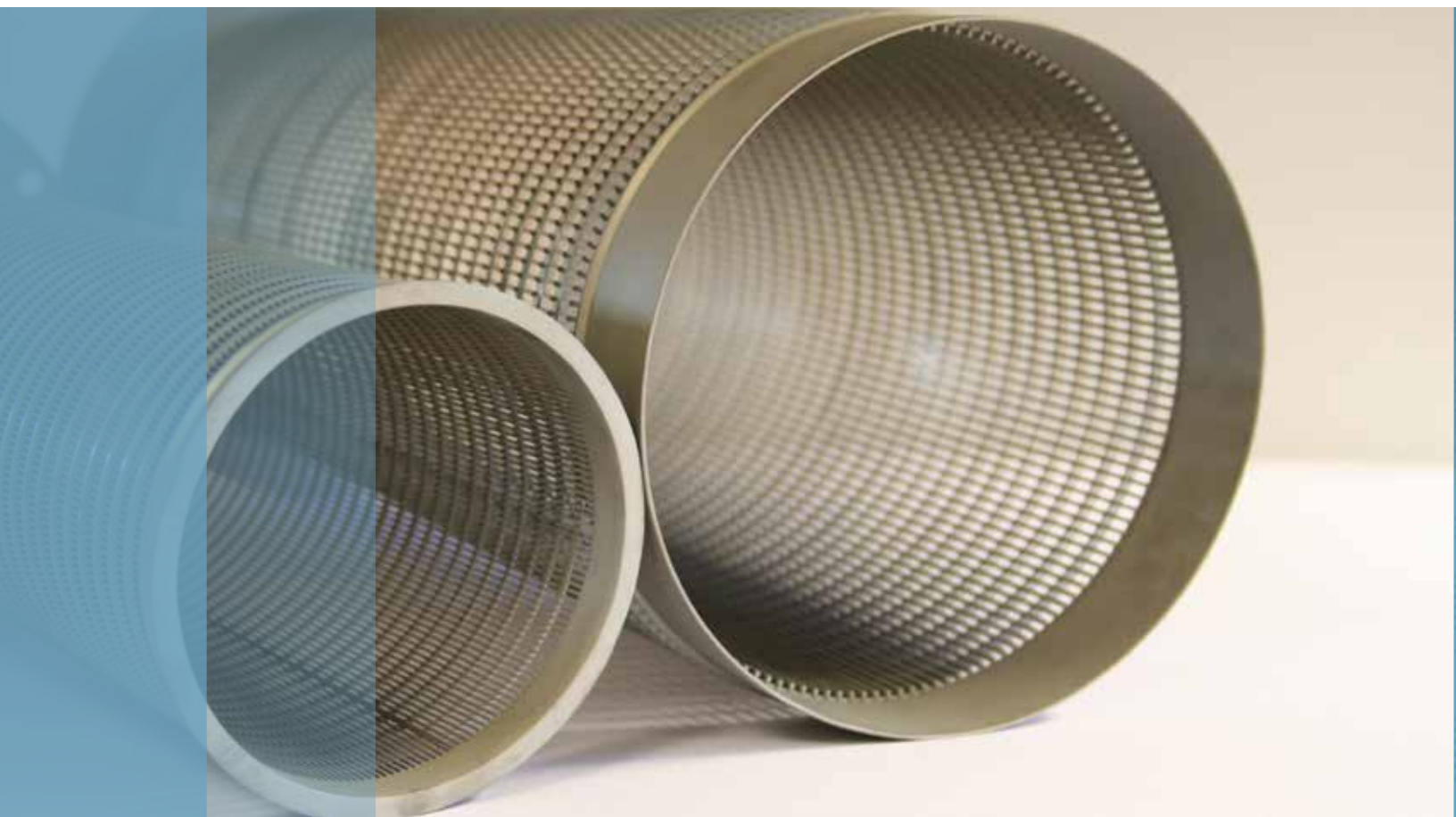
The parts offered in this document are designed for use on the machine or equipment as it was originally manufactured and does not reflect any changes or modifications that may have taken place after dispatch from our factory. If in doubt, please contact the Kemutec aftermarket department to discuss your requirement.

BENEFITS:

- » Parts from the original manufacturer
- » We do not just supply spare parts. We also understand your applications and processes, as well as the inner workings of each machine
- » We provide a warranty on our products



Rotor Discs



SEALS AND GASKETS

Responding to requests from various industries, Kemutec has developed a range of compounded metal detectable FDA approved rubber seals for process machinery.

Blue metal detectable seals and gaskets are available in flat form, as well as in extruded sections. In addition, we offer seals and gaskets in the following materials:

- » Nitrile
- » EPDM
- » Anti-Microbial
- » Gylon (PTFE)

Other materials are available upon request.



▲ TS4 Seals



ON-SITE MAINTENANCE AND BREAKDOWN SERVICES

Milling, Sifting and Mixing machines have a direct impact on the overall efficiency, productivity and performance of your facility.

Our service department offers advice and a range of on-site services to help keep your machines operating to their optimum processing capabilities. Thus, maximizing efficiency and machine longevity. In addition to providing customers with processing and service interval advice, our service engineers can often identify most problematic issues long before a machine failure occurs.





ON-SITE SERVICES AND UPGRADES

PREVENTATIVE MAINTENANCE ANNUAL SERVICE

Following recommended service intervals and a preventative maintenance schedule greatly reduces the possibility of machine failure, loss of productivity and downtime.

A full service visit report is provided upon completion by our service engineers. The report lists the genuine spare parts used, recommendations for the next service visit along with a list of the completed checks.

METAL DETECTABLE UPGRADE

Many machines were not originally designed with metal detection as a high priority. Consequently, many of the original plastic components can now be replaced with newer metal detectable components to help prevent foreign objects finding their way into the end product. To address this we offer 430 ferritic steel parts, metal detectable gaskets, seals and other metal detectable compounds.



ON-SITE SERVICES AND UPGRADES

EMERGENCY BREAKDOWN AVAILABILITY

As with any process critical machinery, it is important to keep unplanned downtime to an absolute minimum. Service engineers can be available at short notice for urgent breakdown assistance to get your machine up and running as quickly as possible.





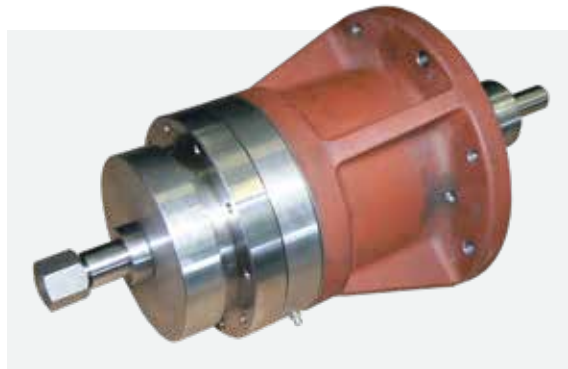
ON-SITE SERVICES AND UPGRADES

BEARING ASSEMBLIES

Kemutec offers bearing assembly servicing and refurbishment to meet each client's specific requirements.

A full repair and refurbishment service on worn bearing assemblies can include:

- » Full strip and inspection
- » Repair, recovery or replacement of components
- » Bearing journal recovery (chrome plating and regrind)
- » Full rebuild
- » Static or dynamic balancing
- » Final 'run-in' and test, complete with test report (2-8 hour 'run-in' and test)



**CHALLENGE
US TO IMPROVE
YOUR POWDER
PROCESSING
CHALLENGES!**

info@coperion.com



ON-SITE SERVICES AND UPGRADES

BEARING ASSEMBLY SERVICE BENEFITS

- » Refurbishment schedules reduce unplanned downtime to an absolute minimum
- » Refurbishment is considerably less expensive when compared to purchasing new bearing assemblies
- » Short lead times mean reduced production downtime
- » Refurbishments are carried out as per factory specifications using original parts
- » The 'run-in' and test enable immediate installation of the refurbished bearing assembly. Therefore, eradicating time needed by operators to 'run-in' the bearings themselves
- » Original spare parts and pre-run testing gives customers the confidence and peace of mind that their machine will go on serving them for many years to come

BVP-10011-EN All information is given without obligation.
All specifications are subject to change. © 2026

Your process engineering Partner

Please contact Kemutec where you will be directly
connected to an engineering expert.

kemutec
A BRAND OF COPERION

Kemutec – A Brand of Coperion
7901 NW 107th Terrace
Kansas City, MO 64153
T: +1 816-891-9300
fhn-info@coperion.com
www.coperion.com/fhn