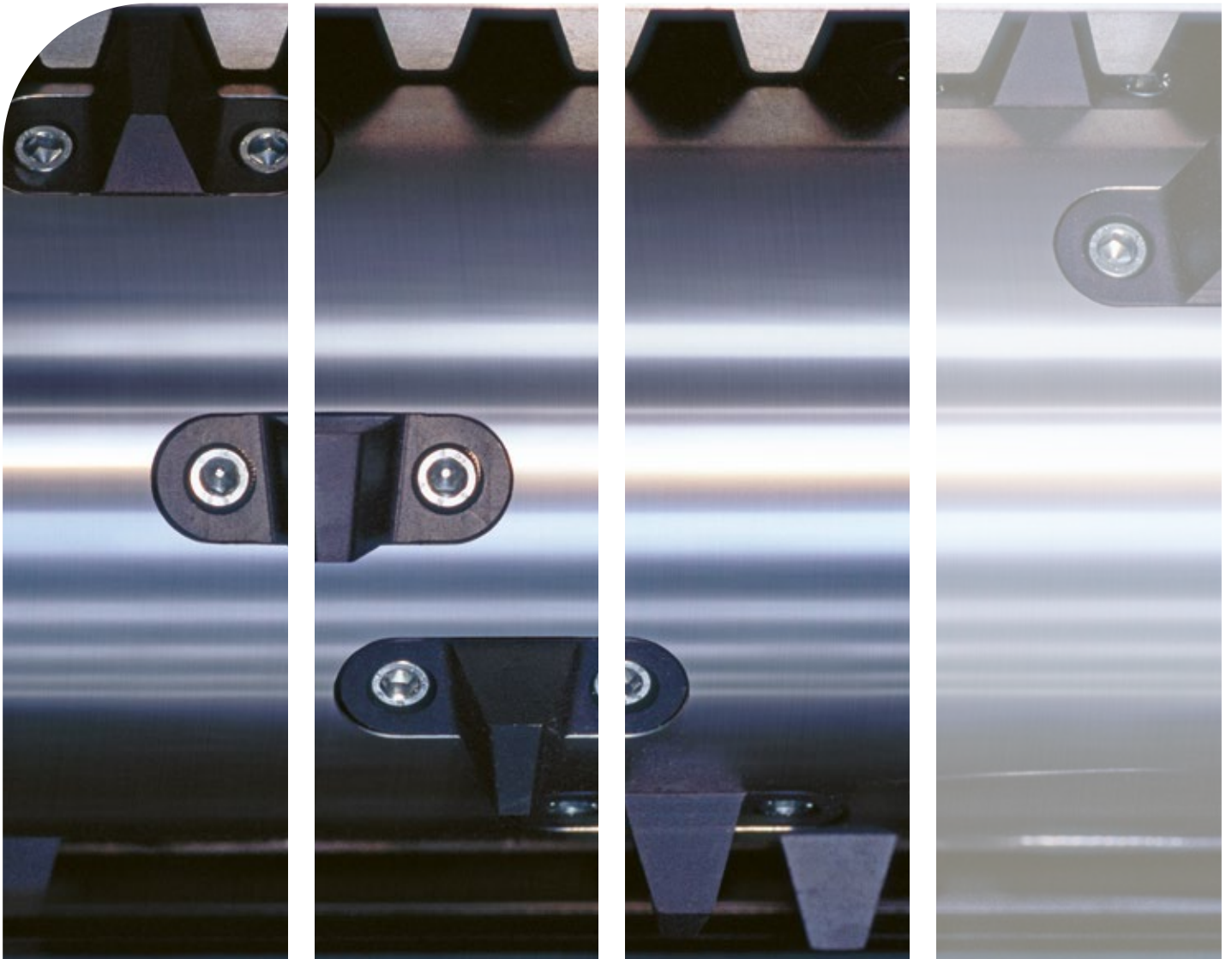


SWARF CRUSHERS

Recycle and dispose of swarf economically



SAVINGS DURING MACHINING



The reduction of the chip size simplifies, for example, the above-ground transport.

Exceptional savings potential

Solutions for swarf processing provide an exceptional potential for savings due to reduced labour costs, the re-use of valuable coolants and oils and the sales of swarf.

Swarf crushers are often the first step in swarf processing plants to ensure smooth transport. The size of the swarf is reduced and transport is thus facilitated, especially for above-ground systems.

Swarf crushers are also ideal as a standalone solution for reducing mass and the resulting transportation costs. With over 13 different models for a wide range of volume and size of the material to be processed, Mayfran can provide a system that fulfils your specific requirements exactly. All models can automatically regulate the elimination of blockages and (in some cases) eject coarse materials directly.

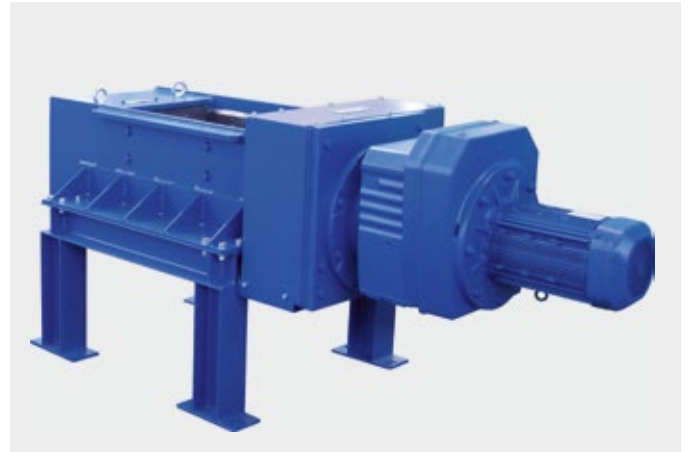
Reasons for Swarf crushing:

- Reduced transport volume, thereby lower transport costs (up to 15 % of the original volume possible)
- Preparation for use in swarf drying centrifuges for the recovery of cooling lubricants from the swarf
- Preparation for use in above-ground return pumping systems for conveying swarf and cooling lubricant
- Preparation for supplying swarf in briquetting presses

TA AND MSA SWARF CRUSHERS



TA swarf crushers



MSA swarf crushers



TA swarf crushers



MSA swarf crushers

TA swarf crusher

The Mayfran TA crusher is mainly used with cutting machine tools (such as lathes, mills, drills and machining centres).

The TA crushers are highly suited to a **stand-alone solution for one to three machine tools**, where little or no coarse material is produced.

Due to its compact design, the crusher is also particularly suited for use in above-ground machine return pump stations for transporting swarf and cooling lubricant.

Other application examples:

Swarf processing for use in swarf drying centrifuges and briquetting presses.

MSA swarf crusher

The „big brother“ of the TA series is designed for long swarf and large clumps of hard and brittle material.

Throughput rate

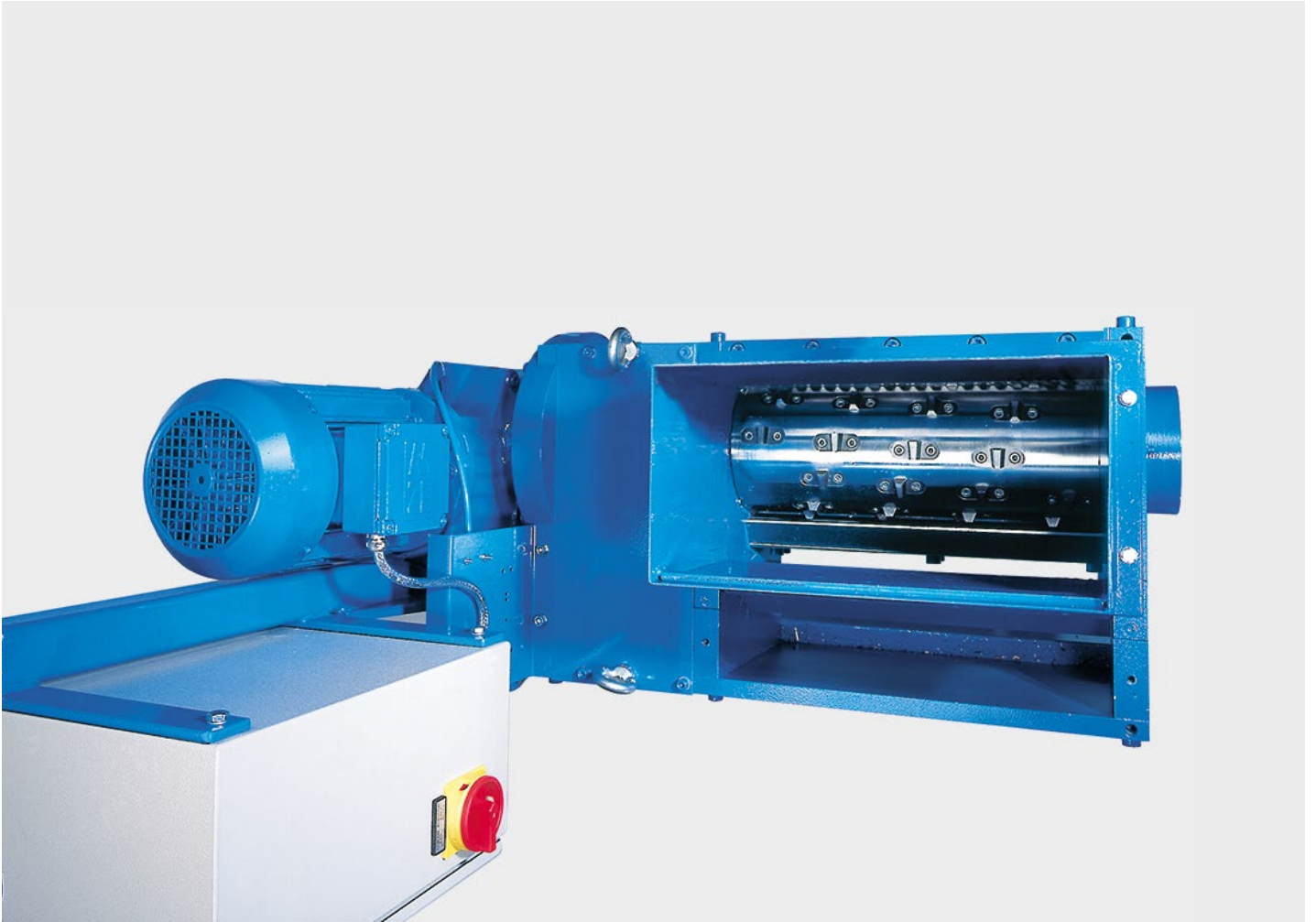
depending on sieve version:

- Steel: 70 – 450 kg/h
- Cast metal: 85 – 560 kg/h
- Aluminium: 25 – 150 kg/h

The advantages:

- Electrically operated dual-shaft crushers with automatic reverse function
- Proven, compact and robust crusher design
- Oversized bearings, shafts and couplings
- Service and repair friendly construction
- Long service life
- Easy to install
- Mountable on or in a pumping station
- Designed for hard and brittle materials
- For larger quantities that are continuously supplied

MA SWARF CRUSHERS



MA 4 swarf crusher

MA 4 swarf crusher

Thanks to its compact design and automatic discharge of coarse materials, the crusher is particularly suited for use in above-ground return pump stations for transporting swarf and cooling lubricant. The crusher is equipped with a coarse material discharge with which solid parts that cannot be crushed are automatically removed from the cutting unit.

Throughput rate

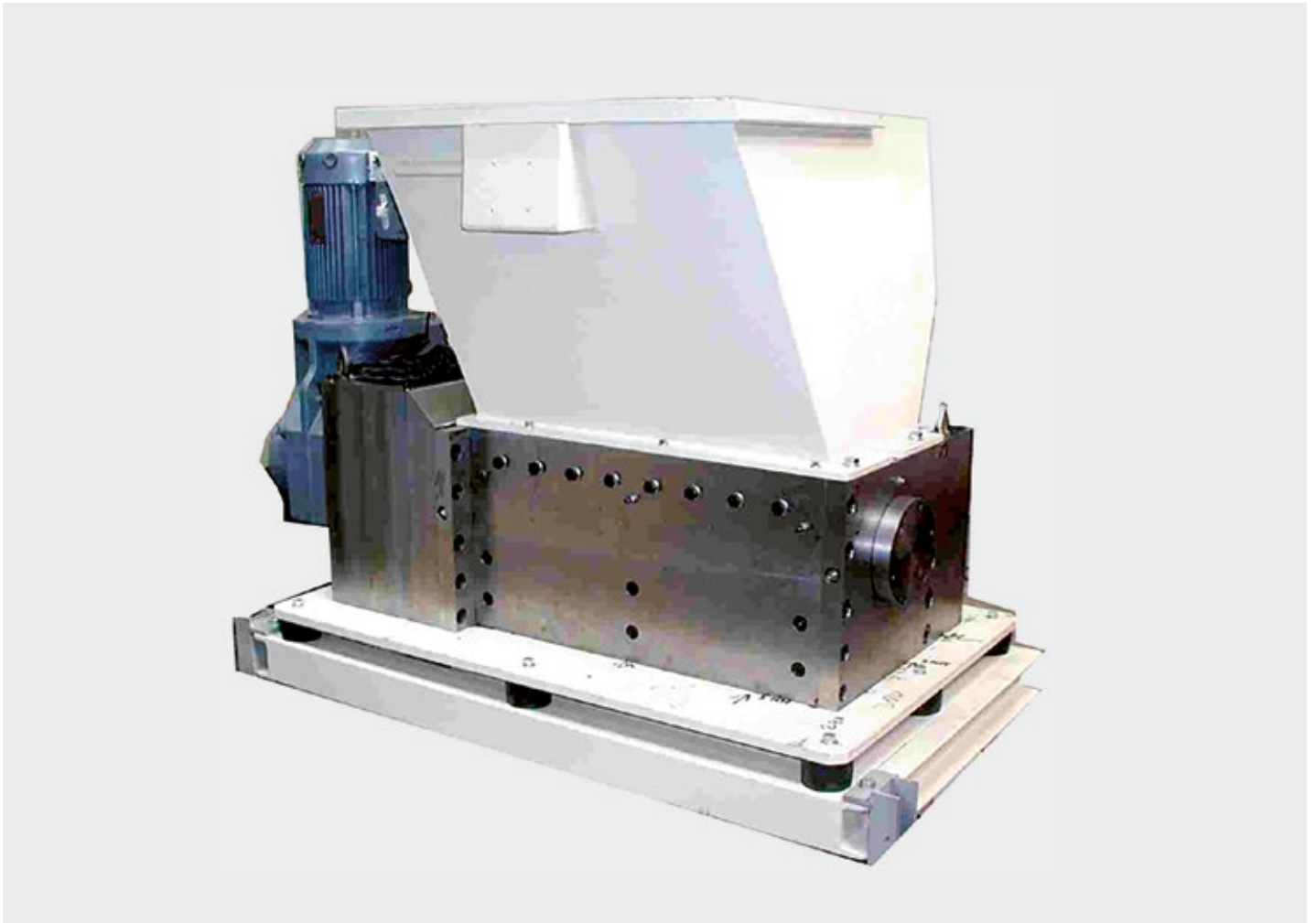
depending on sieve version:

- Steel: 75 – 240 kg/h
- Cast metal: 95 – 300 kg/h
- Aluminium: 25 – 80 kg/h

The advantages:

- Easily replaceable crusher teeth for easy maintenance
- Compact and robust design
- Durable Mayfran quality
- Automatic coarse material discharge
- Suitable for use in swarf drying centrifuges and briquetting presses.

The patented single-shaft crusher with automatic discharge of coarse materials



MA 5 swarf crusher for use with machine tools

MA 5 swarf crusher

Compact and robust design with high-quality Mayfran features. The Mayfran MA 5 crusher is mainly used with cutting machine tools (such as lathes, mills, drills and machining centres).

The MA 5 swarf crusher is usually mounted on a sectional steel frame under the swarf discharge of the machine tool. The crusher is fed from the machine through a hopper. The material can be fed using a conveyor, a chute or directly from a discharge duct of the machine.

Throughput rate:

- Steel: 240 kg/h
- Aluminium: 60 kg/h

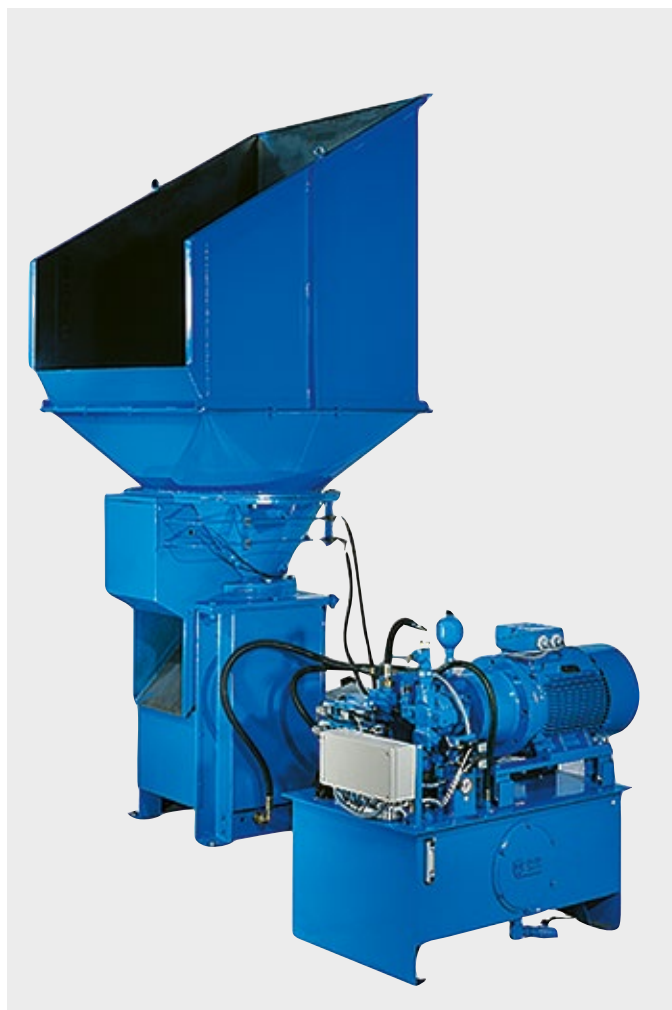
The advantages:

- Easily replaceable crusher teeth for easy maintenance
- Compact and robust design
- Durable Mayfran quality
- Automatic coarse material discharge
- Ideal for use with machine tools

VC – VERTICAL SWARF CRUSHERS



Mayfran VC swarf breakers are available in four different sizes – from 3 KW to 55 KW



VC 800 vertical swarf crusher for batchwise swarf feed

VC – vertical swarf crushers

The VC 400 – 1200 vertical crushers with automatic or hydraulically actuated coarse material flap are characterised by their robust and maintenance-friendly design. All machine parts that are subject to high loads during the crushing process are overdimensioned and designed for a long service life. The design is compact and robust with high-quality Mayfran features.

Large quantities of clustered materials can be added directly (for example, from a bucket) and processed.

The crusher with vertical grinding unit (normal or fine) is particularly suited for crushing tough materials and can be equipped with an automatic coarse material outlet.

To achieve a custom degree of fineness for the crushed swarf, a variety of milling and ripping tools are available.

Using the pneumatically operated coarse material flap, solid particles that could not be sorted out beforehand and cannot be crushed by the grinder are automatically removed.

Option:

Optionally, the VC swarf breakers are equipped with a hydraulic drive, which regulates power continuously.

Vertical crushers for central treatment systems with high capacity



VC 400 swarf crusher



VC 600 vertical swarf crusher



VC 1200 swarf crusher

Areas of application:

- Crushing large clusters of swarf
- For machine tools with conventional swarf cart
- For batch sizes up to one cubic metre
- For continuous feeding on flat-top or scraper conveyors

The advantages:

- Automatic coarse material flap
- Robust and maintenance-friendly design
- Machine parts subject to high loads are oversized
- Long service life
- Desired fineness of crushed swarf can be customised Various grinding and ripping tools are available
- Not screened or crushed solid parts are removed automatically

Throughput rate

depending on the version:

- Steel: 400 – 8.000 kg/h
- V2A stainless steel: 80 – 3.000 kg/h
- Aluminium: 100 – 2.500 kg/h

MAYFRAN PRODUCT RANGE

PRODUCTS FOR MACHINE TOOLS

- Chip conveyor
 - Slat-band chain conveyor
 - 4-inch and 6-inch conveyor
 - Roller chain conveyor
 - Magnetic conveyor
 - CleanSweep Series
- Individual filtration systems
 - Consep – Conveyor with KSS filtration
 - MFF – modular filter system
- Components
 - Refillmatic
 - High-pressure devices
 - Magnet separator
 - Oil skimmer etc.

KSS FILTRATION DEVICES

- Conveyor systems
 - Overhead and underfloor systems
 - Extraction systems
 - Loading systems
- KSS filter systems
 - Precoat filters
 - Pressure belt filters
 - Vacuum filters
 - Gravity filters
- Accessories

CHIP PROCESSING SYSTEMS

- Centrifuges Chip
- Conveyors

SCRAP TRANSPORT/ RECYCLING

- Conveyors for parts and transporting scrap
- Metal Scrap-feed conveyors

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