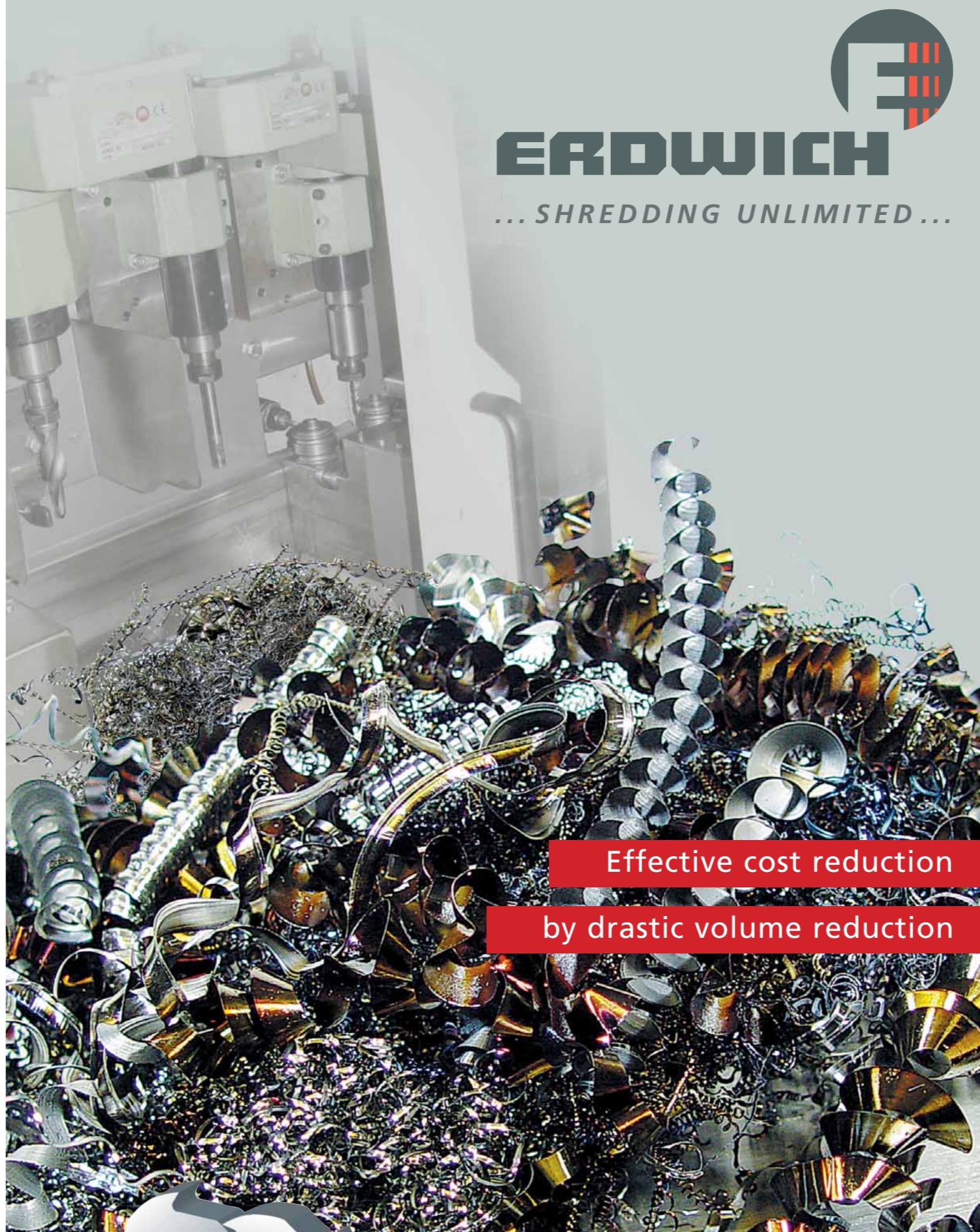




ERDWICH

... SHREDDING UNLIMITED ...



Effective cost reduction

by drastic volume reduction



ERDWICH swarf logistics

Problems with your swarf logistics? Don't worry – we are the specialist.

We know the nightmares of metal cutting: Mountains of scobs for disposal, and even worse, the specific hazards of long, spiral turning chips.

The result:

- overflowing chip containers
- injuries caused by bulky, entangled chip clews
- injuries caused by slippery floors due to dropping oils and emulsions
- costly coolant and lubricant losses
- high labour costs for internal transportation
- and... and... and



And it becomes even worse: The regulations on limiting values for residual oil getting more rigorous in the future, higher transportation costs and diminishing scrap returns.

Your problems and concerns about the annoying chips belong from now on to the past. ERDWICH ensures optimal swarf reprocessing with its swarf shredding and logistics systems widely proven at renowned customers. Custom-tailored solutions for your company – by taking advantage of the deep-rooted experience of the specialist and his worldwide proven shredding equipment.

The technical advantages of swarf shredding are obvious: Considerable volume reduction and trouble-free conveyance of swarf.



Volume reduction of swarf up to 90% – high cost reduction.

Less is more – benefit.

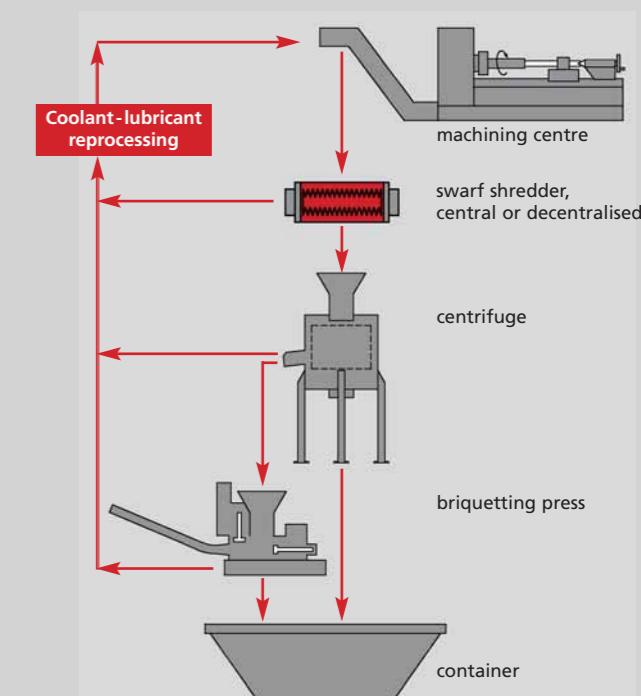
The right partner for solving your problem.

The ERDWICH Shredding technology offers competence and many years of experience in swarf reprocessing. Our widely tested and proven technology guarantees perfect system solutions for shredding, conveying, centrifuging, sieving and briquetting. Your work flow will be quicker, safer and cleaner – your costs will decrease considerably.

The core – the ERDWICH shredding equipment.

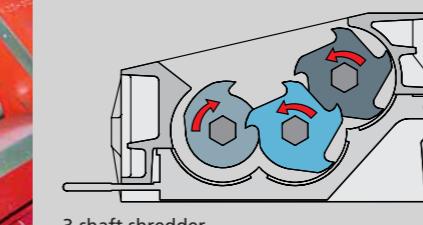
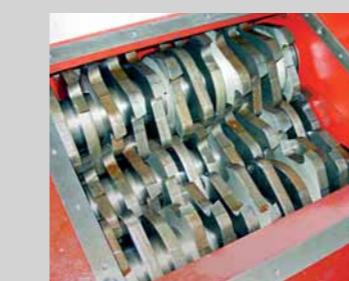
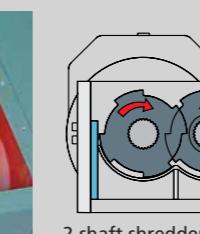
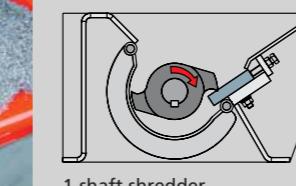
Focus of the ERDWICH swarf logistics are the solid, worldwide proven shredders. Depending on your needs, these are available in 1-, 2- or 3-shaft versions with strong, flexible drive concepts.

Process of optimal swarf reprocessing



Your benefit:

- considerable cost savings due to
 - less manpower
 - fewer swarf containers
 - smaller conveying systems
 - optimal separation, high degree of purity
 - lower consumption of coolants and lubricants
 - higher scrap return
- safe operation due to
 - reduced risk of accident
- better observation of the regulations due to
 - higher cleanliness of logistics
 - better workplace conditions
- higher productivity due to
 - trouble-free production process
 - automated logistics
 - less monitoring work and expenses
 - space saving at the production area



Small chips – huge benefits.

With ERDWICH you have the knack of your swarf.



Your problem – our challenge
Three systems – same benefits
Unique customers – unique solutions
The ERDWICH "Care" package – we can assist you

Single, decentralised or central – in any case optimal.

Your manufacturing process determines the concept.

We conceive your swarf shredding equipment completely tailored to your specific needs:

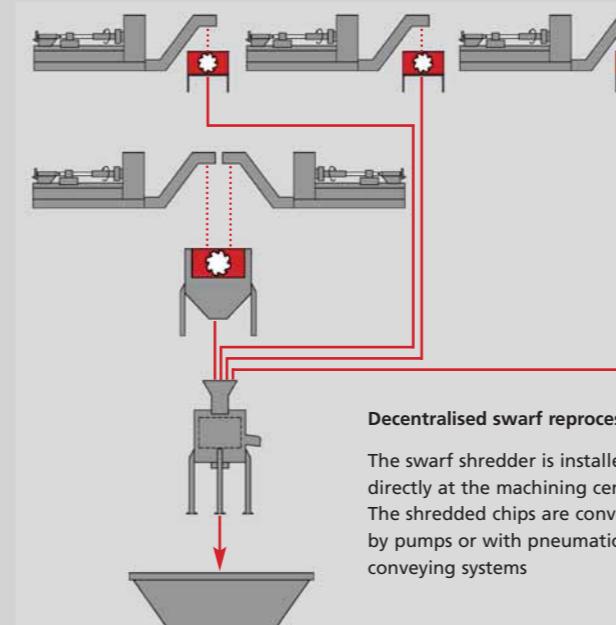
- as **single machine** directly at the machining centre
- as **installation with decentralised swarf shredding** directly at the machining centre with pump station or pneumatic transportation to the central recovery and reprocessing unit of coolants and lubricants
- or as **central recycling system** including the process steps size reduction, oil separation, sieving and briquetting

According to our experience, decentralised swarf reprocessing is the optimal technology and the cleanest concept of swarf reprocessing. Each processing machine is equipped with a shredding unit, whereby the chips are conveyed to the central recycling unit.

In the case of several processing machines installed at different premises and depending on the site conditions, a central swarf reprocessing installation is likely to be the best economic concept. The chips are collected at the processing machines and then transported on swarf trolleys to the recycling unit. This central solution does not require any modification of the existing manufacturing process.

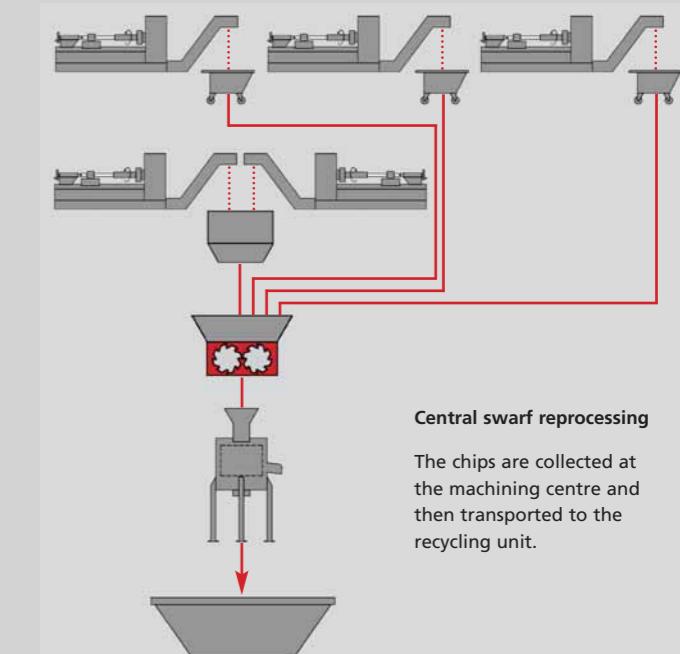


Central swarf reprocessing with swarf container feeder – double screw conveyor with bar sieve for discharge of foreign substances, 2-shaft swarf shredder and conveying system.



Decentralised swarf reprocessing

The swarf shredder is installed directly at the machining centre. The shredded chips are conveyed by pumps or with pneumatic conveying systems



Central swarf reprocessing

The chips are collected at the machining centre and then transported to the recycling unit.

Features of decentralised swarf reprocessing:

- higher process safety at the processing machine due to swarf shredding on site
- increased working safety
- higher ability for pump resp. mechanical conveyance of the chips by size reduction
- automation of the production
- no labour costs for in-plant swarf transportation



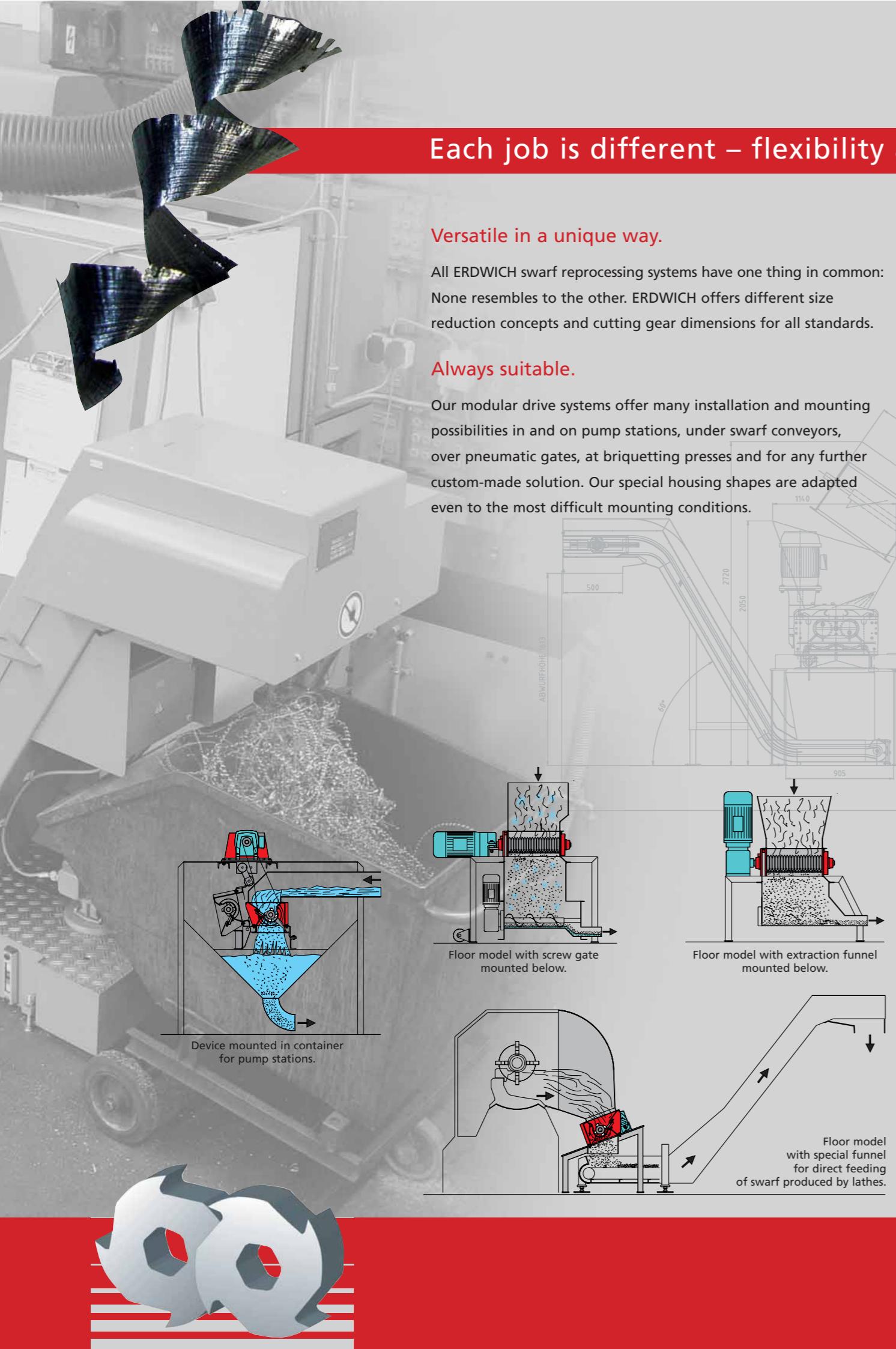
Central swarf reprocessing – 3-shaft swarf shredder with hydraulic press for avoiding pile-up.

Single-shaft swarf shredder, directly located at the machining centre.



Decentralised swarf reprocessing – 2-shaft swarf shredder with extraction funnel placed directly under the machining centre. Can be drawn out on roller rack for revision purposes.

Regardless of the solution – with ERDWICH systematically right to the goal.



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Three systems – same benefits
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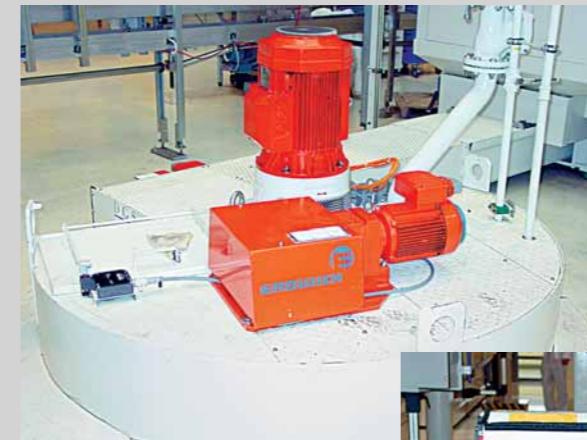
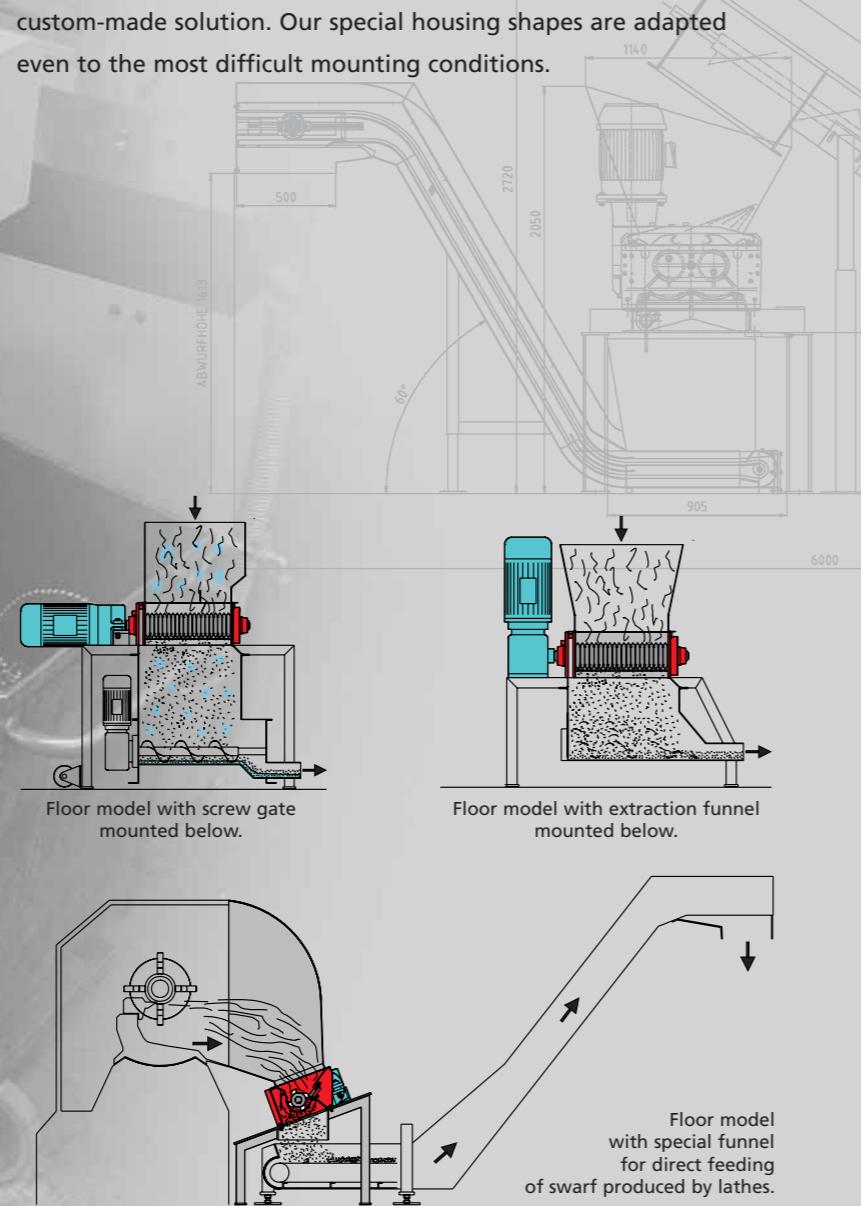
Each job is different – flexibility and close customer contact are part of our corporate philosophy.

Versatile in a unique way.

All ERDWICH swarf reprocessing systems have one thing in common:
None resembles to the other. ERDWICH offers different size reduction concepts and cutting gear dimensions for all standards.

Always suitable.

Our modular drive systems offer many installation and mounting possibilities in and on pump stations, under swarf conveyors, over pneumatic gates, at briquetting presses and for any further custom-made solution. Our special housing shapes are adapted even to the most difficult mounting conditions.



Single-shaft swarf shredder integrated in pump container.



2-shaft swarf shredder as single machine with screw extraction gate.

Our target groups

as **end users**

- automobile industry
- automobile components industry
- gear manufacturer
- engineering industry
- turneries
- all metal-processing companies producing big quantities of swarf

and as **manufacturers**

- of oil separating equipment
- of centrifuges
- of laths and machining centres
- planning departments
- of production lines, swarf reprocessing equipment

Powerful in treating any material.

The solid, compact ERDWICH precision cutting gears guarantee optimal shredding of steel, stainless steel, cast iron, aluminium, copper, brass, titanium and precious metal chips and even other materials:

- in single-, two- and three-shaft technology
- with precision working cutting systems, vibration-free, low-speed and low-noise
- individually pluggable cutter disks made of quenched and subsequently drawn special steel, can be regrounded several times for long service lives with individual knife fitting
- with different dimensions of perforated sieve for predefined chip sizes
- with unique barrier wall system for protecting the bearings under hard operation conditions
- with automatic separation of impurities
- with throughput rates of 10 up to 10,000 kg per hour depending on the production



Central swarf reprocessing with swarf container feeder – 2-shaft swarf shredder with conveying system and briquetting press.



Single-shaft swarf shredder mounted on a small pump container.

Custom-tailored solutions are ERDWICH standards.

We care – the "Care"-package!

ERDWICH is a medium size company "par Excellence": run by the owner, uncompromisingly customer-oriented, innovative, flexible, quick, reliable and friendly.

Your satisfaction requires more than a mere leading edge technology. From the first contact through to the problem-free daily use of your equipment – we care for you. Trust our "Care" package for an all embracing care and service:

The ERDWICH "Care" package:

- problem solution on a partnership basis
- test runs in testing institutions
- professional project management
- trial runs
- operation and maintenance training
- initial use support
- comprehensive technical documentation
- customer service and help line
- inspection and maintenance contracts
- machine leasing centre



If you would like to know how professional swarf logistics can contribute in your company to optimising your manufacturing processes, talk to us. Ask for our detailed information or demonstration videos.

Subject to change



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ERDWICH can hardly be superseded in terms of "Service to the Customer".