

Your recycling needs. Our grinding solutions.



Your recycling needs.



Enthusiasm
for our products



Attention to customer
detail



Technical knowledge
and design team



Effective partnership with
our customers, suppliers,
partners and co-operators

These features characterize TRIA identity since 60 years and have contributed to our constant growth

TRIA is a family business company established in 1954 by Mr Angelo Anceschi. Angelo's son, Mr Sergio Anceschi, joined the company in 1957 and brought an International dynamic to sales and marketing. Today third generation Anceschi's manage TRIA with their technical support teams

and staff as **a leading manufacturing company of blade granulators , conveying and grinding system of scraps** from the plastics and associated industries.

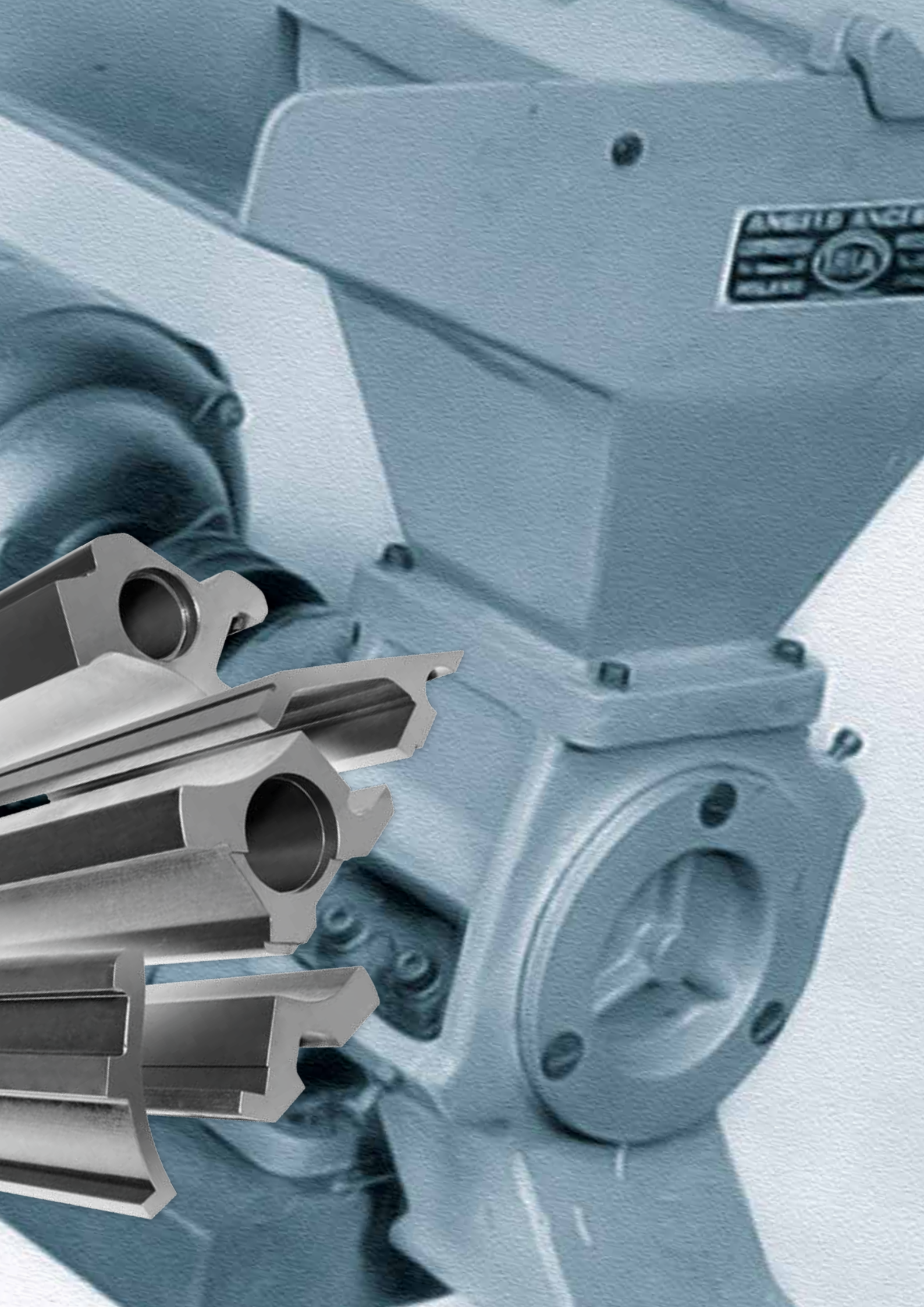
We focus on effective technical solutions to meet our customer needs to gain our growth in all markets.

TRIA vision can be summarized :

Your recycling needs. Our grinding solutions.

Our grinding solutions.







1954: In Milan, first TRIA knife-grinder designed and manufactured by Angelo Anceschi

1955: first participation at a trade show in Italy

1957: Sergio started to work along with his father Angelo increasing the product range thus entering into export markets

1975: first participation at K-show in Düsseldorf

End 80's: third generation entered the business company. Three sons Luciano, Marco & Claudio, brought new ideas and technologies and modernized the company structure

End 90's: new technological partnership with German and Japanese companies commenced

1994: two small granulators manufactured under our license in India

1998: TRIA Germany, Düsseldorf was founded

Years 2000: thank to experienced staff and managers growth of the company outside Europe flourished, managers in particular have been instrumental in management style and attitude

2000: TRIA Brazil, near San Paolo was founded, production commenced in 2003

2004: 50 years activity

2009: sales outside Europe continue to grow and exceed European sales

2010: TRIA America head quarters in Charlotte, North Carolina opened

2011: TRIA China, Shanghai was founded

2012: Branch feedback expanded and enhanced their technical and engineering capacity



You & Tria

TRIA provide cost effective technical solutions for in line and off line grinding, improving knowledge in technologies: injection, blow molding, extrusion, film, thermoforming and post consumer



Our long established partnership with primary line manufactures maximize innovative performance



Our branches, TRIA America, TRIA Brazil, TRIA China and TRIA Germany follow their own markets for sales, after sales, spares, know how in offering technical solutions and some manufacturing

Over 70.000 systems installed in 65 countries world-wide underline our high standards in manufacturing and design



R&D, Marketing operations, grinding chamber manufacture, large grinders and systems are all based in Milan headquarter

3% of turnover is annually invested in our product research and development. Established relationships with universities and consulting societies ensure regular updates on both technologies and materials



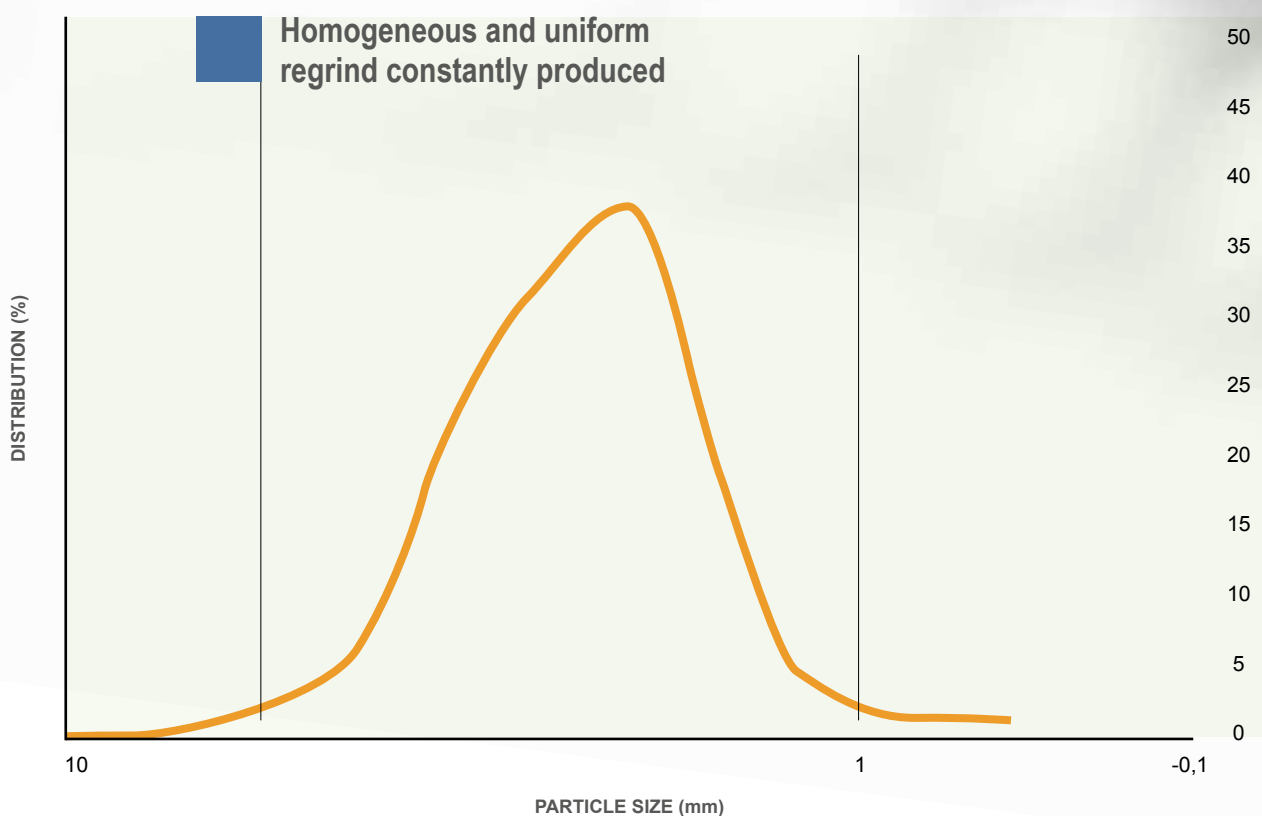
REGRIND MATERIAL QUALITY

Screen surface area approximately 50% of the rotor circumference optimizes granulate discharge



Bench blade setting jig maintains correct gap between fix and rotary blades

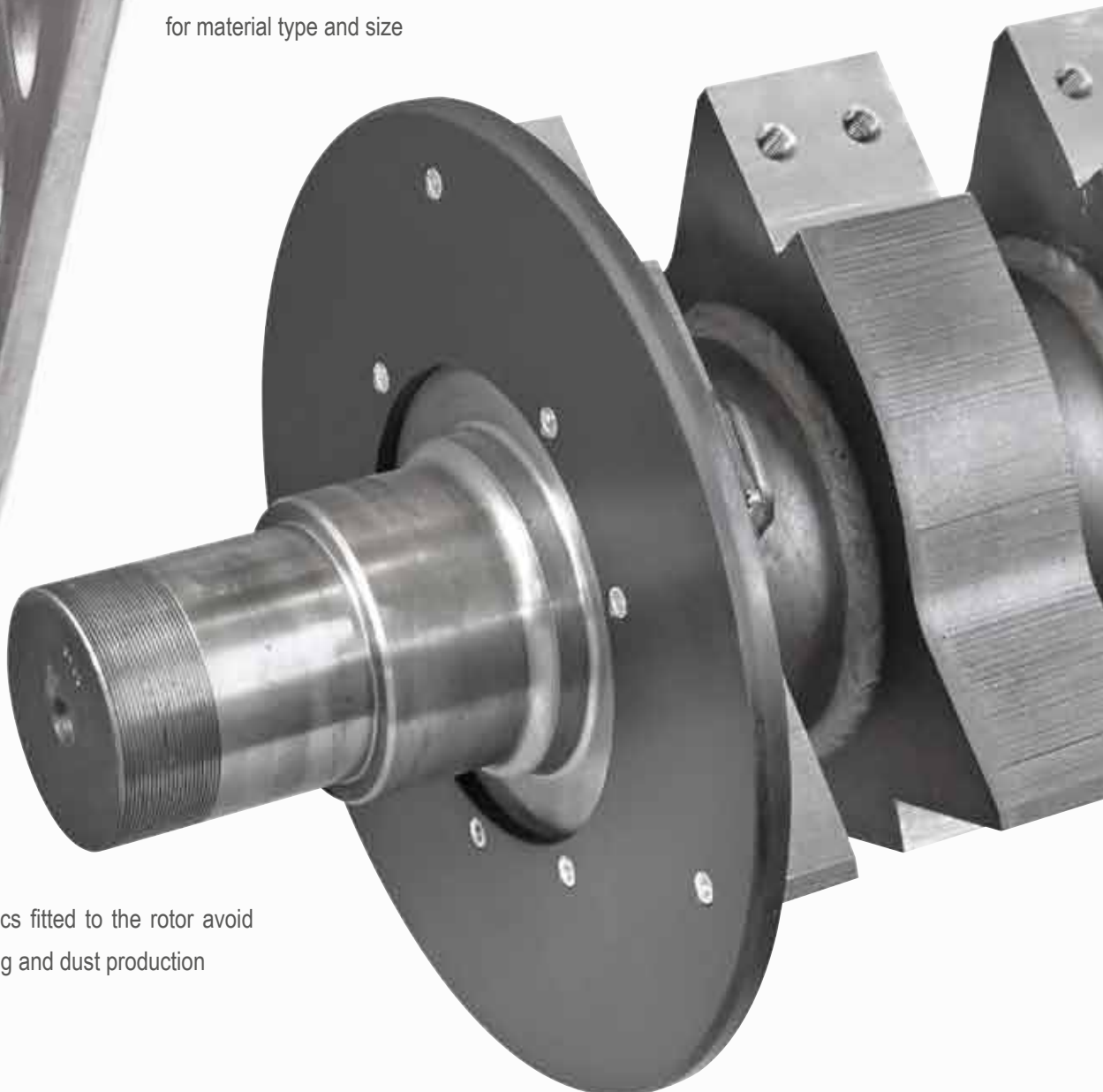
Lower dust, fines and angel hair



Mechanical and physical properties of plastics unchanged



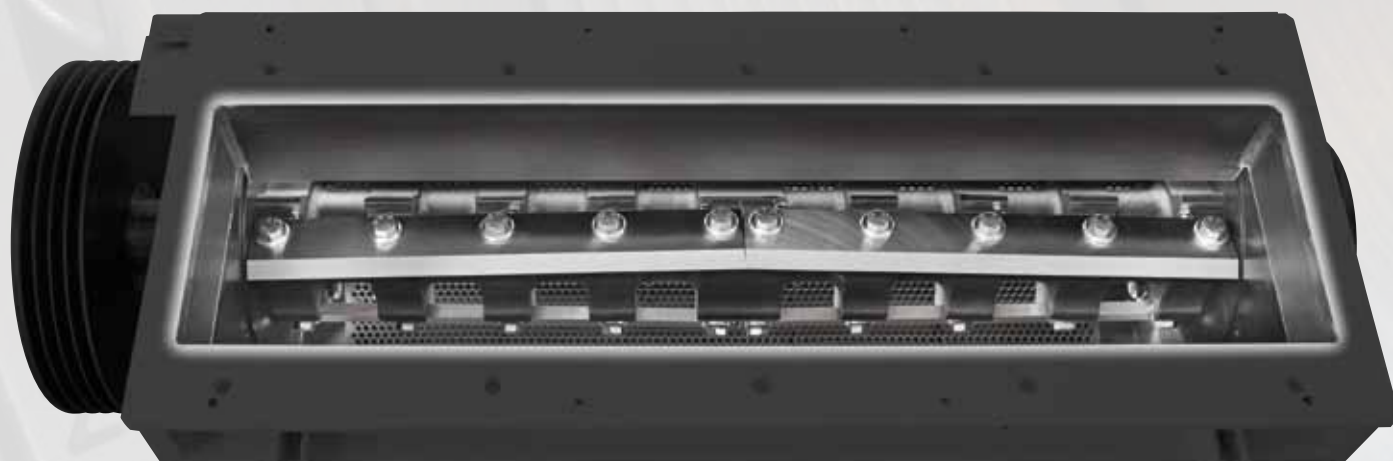
Grinding chamber manufactured and designed to meet the customer demand for material type and size



Rotary discs fitted to the rotor avoid overheating and dust production



Arrow angle and cutting edge,
blades setting to reduce cutting
stress



Double roller rotor bearings installed
by torque wrench to ensure free
and perfect rotor revolution

Transmission design gives lower
inertia thus allows minimum
speed reduction



Only 10% of installed power consumed during non productive operation, remaining power available for plastics scrap grinding



Lowest running cost expressed in kWh/kg available on the market



Reaction power $\cos\phi$ reduced to minimum thus having a direct impact on hourly energy cost

Rotor and fly wheel combination designed to minimize shaft torsional waving



EASY OF OPERATION AND MAINTENANCE

Easy tool free access to screen, hopper, grinding chamber on most models



Openings, access distance and safety sensors engineered and installed according to CE standards

Adjustment of knives and counterknives via a bench jig

Automatic lifting and opening devices, sensors for monitoring and opening, fly wheel brake to give safe blade change



Advanced
engineering design

Reduced maintenance
frequency and down time

Safety of operator during use
and maintenance

Fly-wheel and pulley installed
by expansion bushes



Grinding chamber structure is bolted
for ease of changing a single part or side



EFFICIENT SOLUTIONS

From the 80's enhanced attention to technical solution
for in line recovery for all technologies

Systems supplied to meet all health and safety
requirements and standards



Diverse production range of machines for
recovery of scraps of varying size and weight



Complete transport system, de-powdering,
air filtering, storage and dosing units
for regrind material



Reliability through
running time

Return on investment specific
to each application

Maintenance frequency according
to production line down time



Side discs, antiwear chamber and
water cooling of cutting chamber

INJECTION

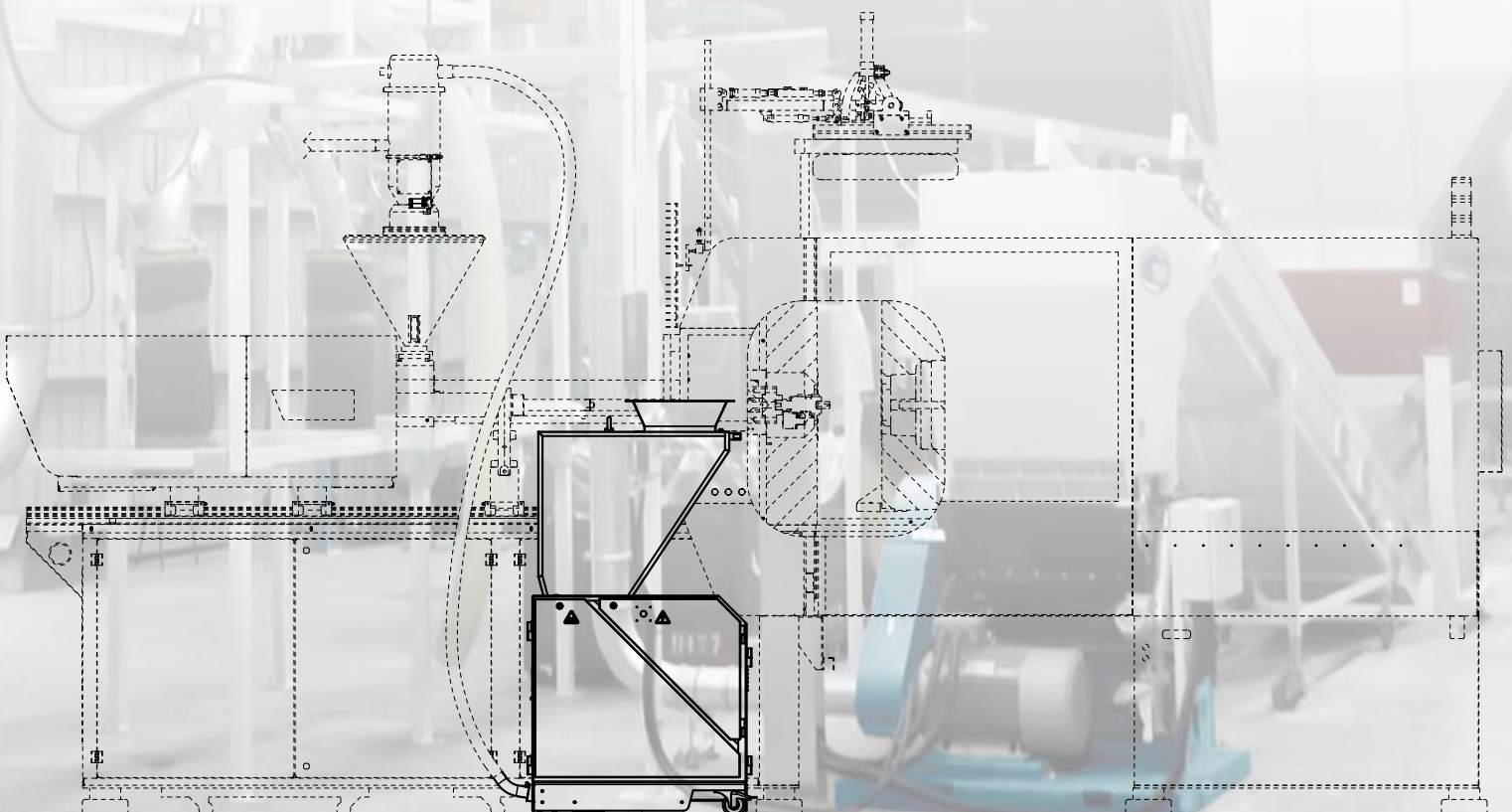
Dedicated grinders:
mini, MAXI, JM, JMC, SMGL



**Granulator for IMM up to 200 m/Tons,
in line runners to 150°C, cold scraps**

**Grinding of all plastics, from TPU
to PA6.6, filled with glass up to 25%**

**Optimal in-feed of the regrind material
into dosing and feeding system**



BLOW MOLDING

Dedicated grinders:

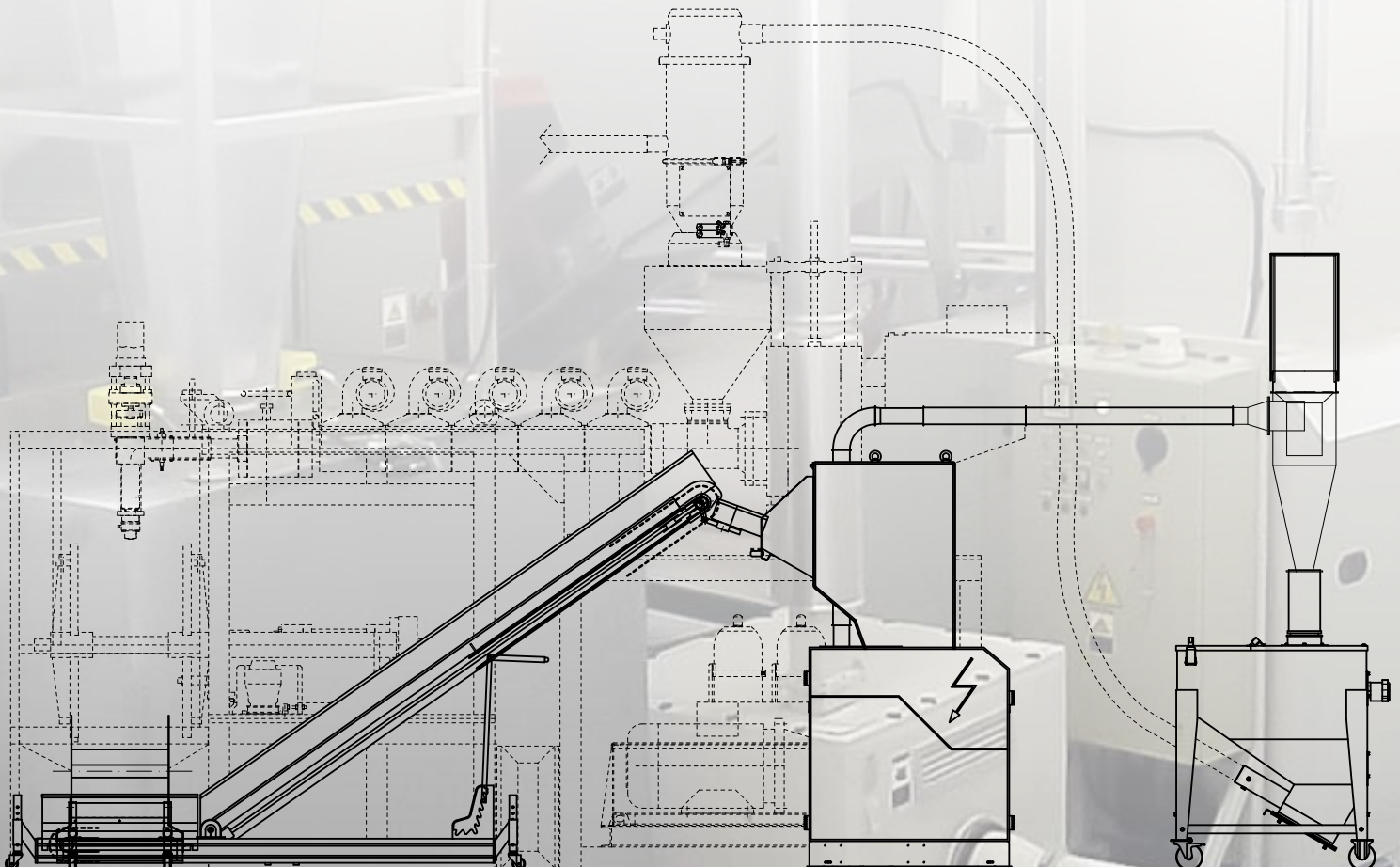
BM, SB



In line grinding of pieces from blow molding and runners to 180°C

Granulators for tanks and jerry cans to 200 litre, coex fuel tanks 15kg, IBC, without pre cutting

13.000 bottles /h of 1l ground at start up, without fly-back



EXTRUSION

Dedicated grinders:

XT, TRK, TPL

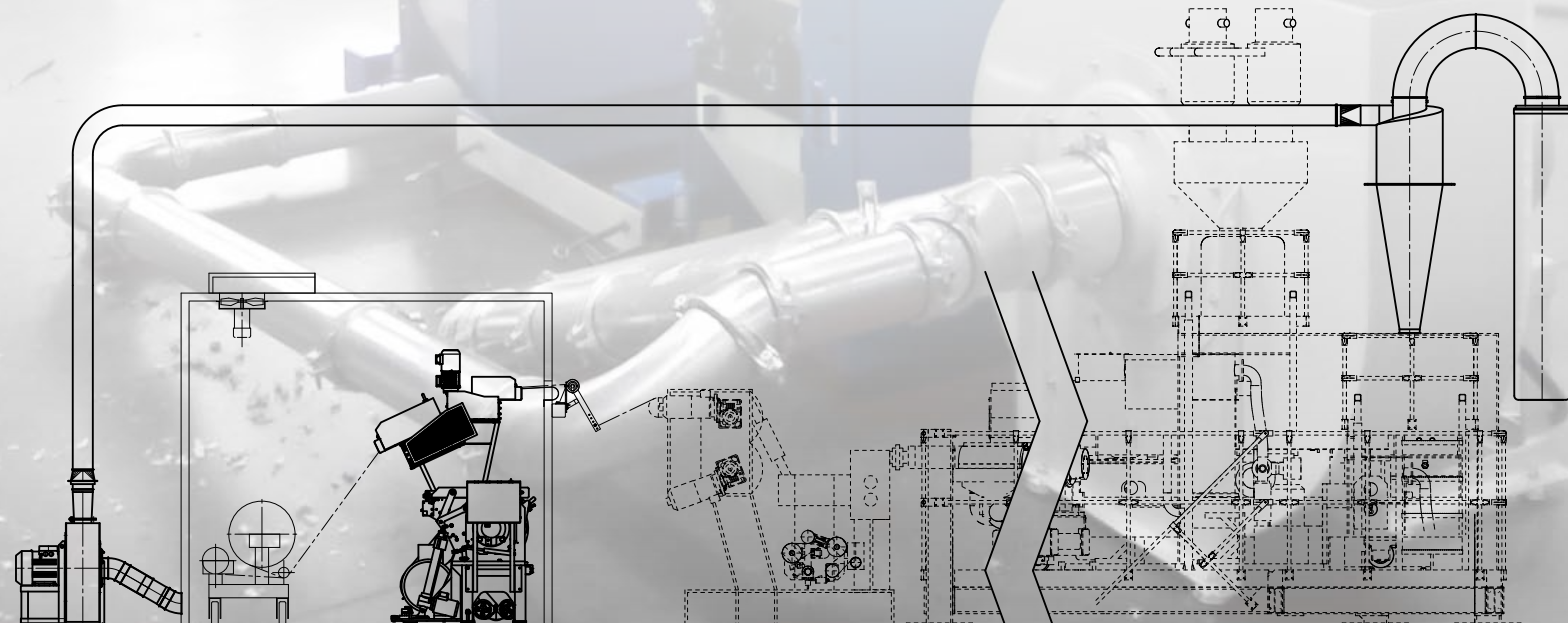


Manual feeding at 1,5 m from ground of sheets, pipes and profiles 6 m long

Single and double traction groups with pneumatic dancing arms and inverter ensures steady feed of edge trim/s (up to 100m/min) and constant tension with the production machine

Grinding chamber with 3, 5 or 7 rotary blades, for processing all resins PLA ABS EPS PET and all products, expanded, honeycomb, full and deep sheets

Special applications for custom systems, cutting devices, injectors and infeed rollers, unwinders and special coating



FILM

Dedicated grinders:
XT, GR, CR

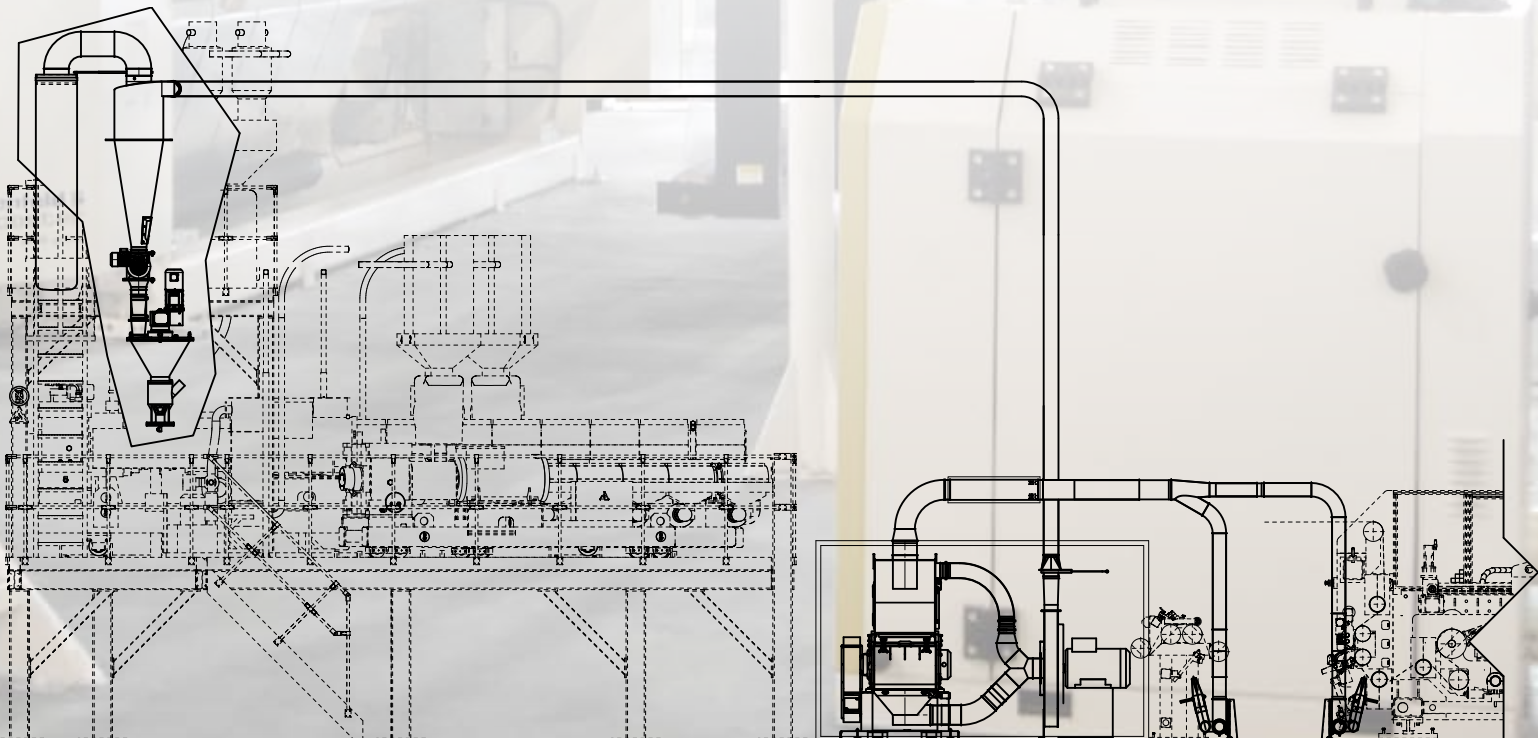


Inline recovery of edge trims CPP and
LLDPE up to 1000m/min and 600kg/h

High density of flake, up to 150g/dm^3 , gives
ease of feed back to the production machine

Complete system from edge
trim intake to extruder throat
or storage container

Inline recovery of edge trims
BOPP PET PA up to 450m/min,
line break to 6,000kg/h



THERMOFORMING

Dedicated grinders:

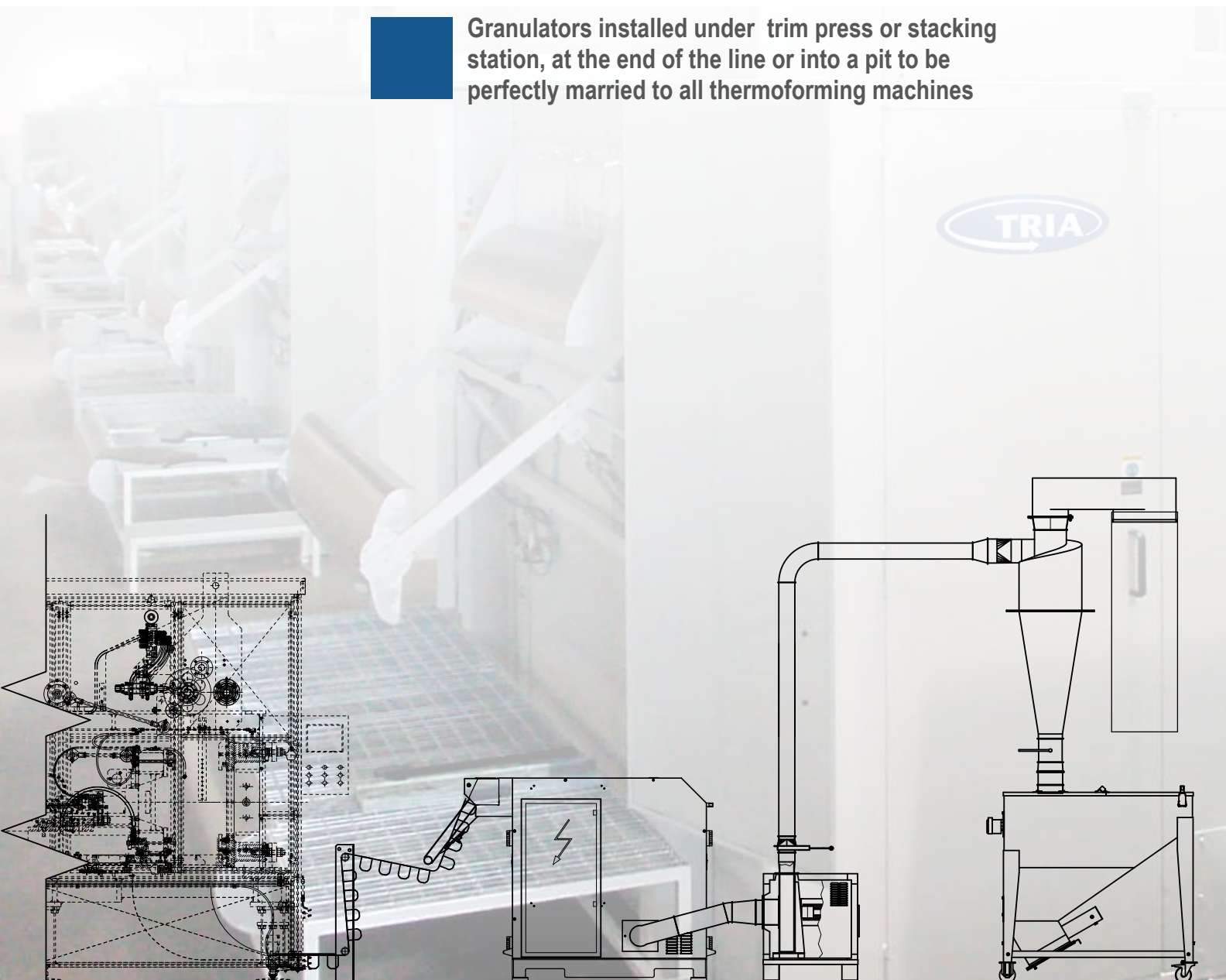
TF, TP, TR



Grinders cater for 100 to 4,500kg/hr; For start up of full sheet, sheet with product attached and skeletal waste

Sheet width from 0,5 to 1,9mt, products height to 250 mm and thickness to 3 mm

Granulators installed under trim press or stacking station, at the end of the line or into a pit to be perfectly married to all thermoforming machines



CENTRALIZED SYSTEM AND POST CONSUMER

Dedicated grinders:

XT, GR, SP, SN

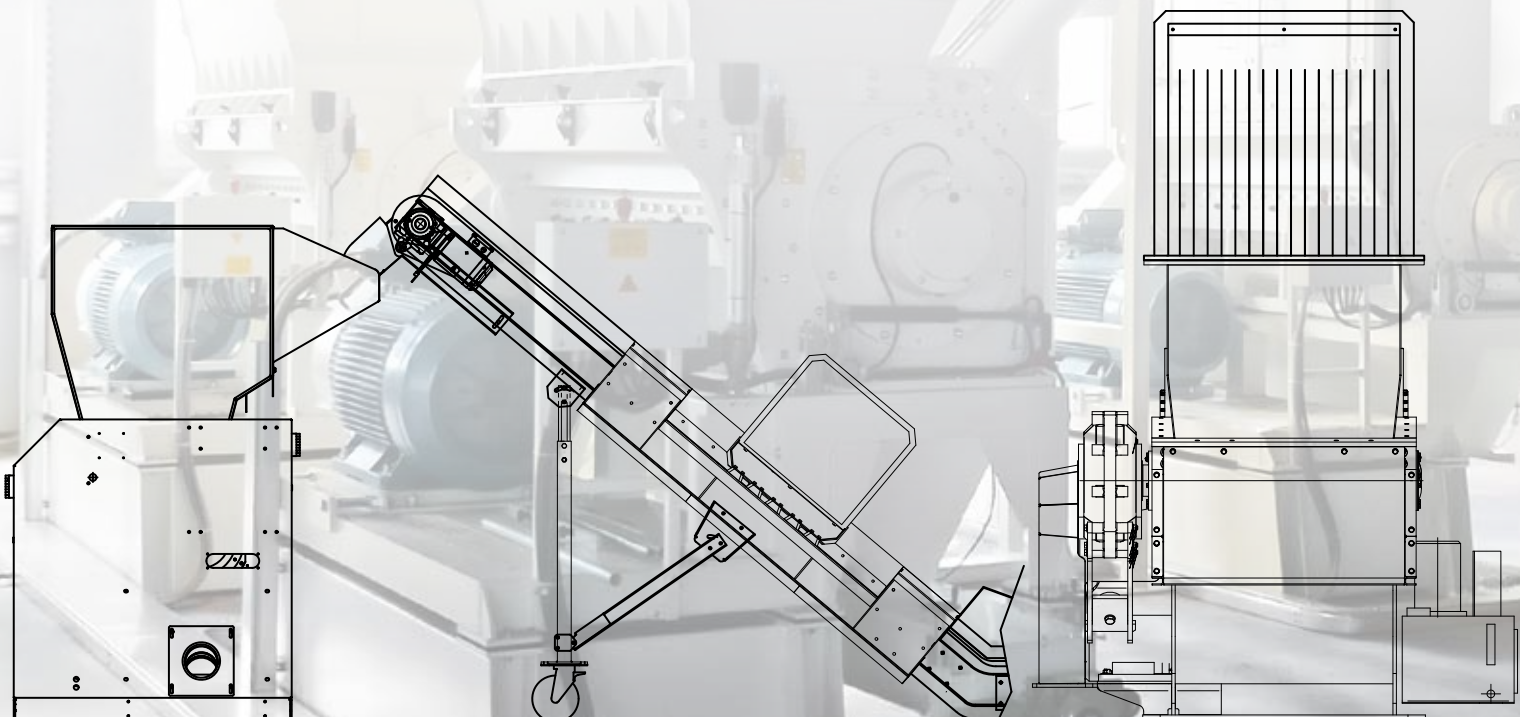


Components in anti-wear steel
for mineral and glass filled
material up to 70%

Forged rotors suitable for wet grinding of post
consumer scraps , agricultural film and PET bottles

Wide range of dust separation
and air filtering systems

Low operating costs thanks to single or second
step grinding systems with shredder, automatic
loading systems





Your recycling needs.



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Our grinding solutions.

TRIA



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