

orocluct



www.untha.com

Fe Cu Al Mg



Intelligent cutting system

During the shredding process it is essential to apply the full power of the motors at the exact cutting tool position where it is most needed. A **cutting force distribution system** specially developed for the S120 series can concentrate the full driving power of the four motors onto a single cutting tooth, giving it **up to 70% more cutting force.** This intelligent cutting force distribution system is made possible by a combination of special spur gears and electronic controls.

Advantage:

This system can **significantly increase throughput** when shredding materials which require significant variations in the cutting force, for example thick-walled metal components or solid paper blocks.

Low operating costs

- **Reduced tool costs** as tools can be reconditioned several times at the end of their normal life.
- Long tool life thanks to low rotational speed (5 – 35 rpm).
- **High throughput** rates at lower levels of installed driving power thanks to the intelligent cutting system.

Choice of drives

Electro-mechanical, diesel powered hydraulic or electric powered hydraulic systems can be provided depending on energy availability and your particular requirements.

Model series S120 2-shaft shredding system

For more information please visit www.untha.com



Excellent availability

- Gear box casing and shaft bearings protected by "wear screening walls" which line the cutting chamber and can be inexpensively replaced if necessary.
- Reliable spur gear drive specially developed for a long working life, extremely high torque and low rotational speed (5 – 35 rpm).
- Electronic overload protection for the cutting tools, shaft bearings and spur gears provided by Siemens SPS controls.
- Cutting tools and gear box protected by a drive with a low mass moment of inertia

 (4 small motors in place of 2 large motors).
 A
- Long life assured by the machine's robust construction.

Easy maintenance

- Easy replacement of cutting tools or wear screening walls. Short replacement times are also ensured thanks to an easily removable bearing plate (no need to dismantle the drive).)
- Fully automatic central lubrication for all lubrication points (optional).

Low emissions

- Low noise levels thanks to low rotational speed.
- Low rotor speeds also ensure low dust emission levels.





Charging possibilities

- Low charging height due to the machine's compact construction; the frame of the machine is only 700 mm high (without the feeding funnel).
- Wide charging hole

The machine can therefore be charged using a number of different systems, for example a wheel loader, segment grab or conveyor.

Applications

- AI-Mg leaders and casings
- Aluminum sections
- Electronic scrap
- Metal drums
- Paper
- Paper edge strips
- Paper waste
- Tires

NEW! Rev count regulation via frequency converter (optional)



- Ideal for shredding problematic materials
- · Rev count can be set for each individual shaft
- · Infinitely settable throughput volume via rev count control
- Reduced reversal occurrence due to optimal throughput set-up





The S120 Series...

... has been specially developed for particularly heavy use in the **coarse shredding** of such materials as **paper, metals, tires or electronic scrap**. The materials are cut into strips using the **proven two-shaft system** (also called a rotary shear).

An **UNTHA four-shaft shredder with a perforated screen** (patent number 319535) is often used down-stream of this coarse shredding process to achieve a further reduction in granule size. The combination of these two machines is particularly useful when **high through-put rates**, resistance to foreign bodies and small granule sizes are required.

Because of their **intelligent cutting force distribution** system, S120 series machines can apply up to **70% more power** to the shredding tooth. If you need to shred very bulky or awkwardly shaped material, a compression feeder provides the required through-put.



30 years of expertise More than 8,000 shredders in daily operation!

Technical data S120 2-shaft shredding system

Dimension (measurements in mm)



Туре		S120	S120
Electro-mechanic drive	[kW]	88	88
Electro-hydraulic or diesel-hydraulic drive	[kW]	110 / 160	160 / 284
Cutting chamber dimension	[mm]	1,378 x 760	1,909 x 760
Diameter of cutters	[mm]	464	464
Axial distance	[mm]	360	360
Max. torque	[Nm]	2 x 70,000	2 x 70,000
Width of cutters	[mm]	38 / 76	38 / 76
Rotational speed	[U/mm]	5 – 35	5 – 35
Weight	[t]	8	10
Throughput	[kg/h]	to 6,000	to 8,000

Distribution partner



Anton Unterwurzacher Maschinenbau GmbH

Moldanstraße 141, A-5431 Kuchl / Salzburg, Austria, Tel +43 6244 7016 0, Fax +43 6244 7016 1 untha@untha.com, **www.untha.com**



Intelligent cutting system

During the shredding process it is essential to apply the full power of the motors at the exact cutting tool position where it is most needed. A **cutting force distribution system** specially developed for the S120 series can concentrate the full driving power of the four motors onto a single cutting tooth, giving it **up to 70% more cutting force.** This intelligent cutting force distribution system is made possible by a combination of special spur gears and electronic controls.

Advantage:

This system can **significantly increase throughput** when shredding materials which require significant variations in the cutting force, for example thick-walled metal components or solid paper blocks.

Low operating costs

- **Reduced tool costs** as tools can be reconditioned several times at the end of their normal life.
- Long tool life thanks to low rotational speed (5 – 35 rpm).
- **High throughput** rates at lower levels of installed driving power thanks to the intelligent cutting system.

Choice of drives

Electro-mechanical, diesel powered hydraulic or electric powered hydraulic systems can be provided depending on energy availability and your particular requirements.

Excellent availability

- Gear box casing and shaft bearings protected by **"wear screening walls"** which line the cutting chamber and can be inexpensively replaced if necessary.
- Reliable spur gear drive specially developed for a long working life, extremely high torque and low rotational speed (5 – 35 rpm).
- Electronic overload protection for the cutting tools, shaft bearings and spur gears provided by Siemens SPS controls.
- Cutting tools and gear box protected by a drive with a low mass moment of inertia
 (4 small motors in place of 2 large motors).
- Long life assured by the machine's robust construction.

Model series S120 2-shaft shredding system

For more information please visit www.untha.com

Easy maintenance

- Easy replacement of cutting tools or wear screening walls. Short replacement times are also ensured thanks to an easily removable bearing plate (no need to dismantle the drive).)
- Fully automatic central lubrication for all lubrication points (optional).

Charging possibilities

- Low charging height due to the machine's compact construction; the frame of the machine is only 700 mm high (without the feeding funnel).
- Wide charging hole

The machine can therefore be charged using a number of different systems, for example a wheel loader, segment grab or conveyor.

Applications

- Al-Mg leaders and casings
- Aluminum sections
- Electronic scrap
- Metal drums
- Paper
- Paper edge strips
- Paper waste
- Tires

Low emissions

- Low noise levels thanks to low rotational speed.
- Low rotor speeds also ensure low dust emission levels.

NEW! Rev count regulation via frequency converter (optional)



- Ideal for shredding problematic materials
- Rev count can be set for each individual shaft
- Infinitely settable throughput volume via rev count control
- Reduced reversal occurrence due to optimal throughput set-up

