SOLUTIONS FOR SINGLE-PASS PROCESSING OF DIFFERENT MATERIAL FLOWS
The low-speed XR class is ideally suited for single-pass processing of waste wood, with a homogeneous, defined fraction size. This shredder is characterised by a high throughput rate and 20 % more useful fraction due to the lowest fine fraction.

A waste wood package - consisting of special 4-fold usable indexable inserts and perforated screens with a chip crusher - ensures long service lives and no excess lengths in the wood chips. The internal hydraulic compression system ensures a very good intake of bulky material and a high throughput rate.

The robust construction enables all wood classes to be processed. Foreign objects can be removed quickly and easily using the for unshreddable items removal system, which keeps downtime to a minimum.

The energy-saving UNTHA Eco Drive with a water-cooled, synchronous motor ensures a particularly low energy consumption and higher efficiency compared with conventional drive variants. The wear-free direct drive reduces maintenance costs, as no belt or shaft stub is needed. The load-dependent speed control guarantees a high throughput rate.

In contrast to high-speed machines, the low-speed XR class is particularly impressive due to its low dust and noise emissions during operation.

**75 % LOWER ENERGY COSTS FOR SINGLE-PASS PROCESSING OF WASTE WOOD FOR MATERIAL OR THERMAL RECYCLING**

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**YOUR BENEFITS AT A GLANCE:**
- UNTHA Eco Drive reduces energy costs by up to 75 %
- Throughput rate of 45 t/h < 100 mm
- 20 % more useful fraction due to a low fine fraction
- Homogeneous defined fraction size
- Low-speed cutting system
- Low noise and dust emission (noise level < 80 dBA)
- Available as stationary or mobile variants
With the XR class, we offer a one-pass, flexible universal shredder mainly for small and medium-sized waste disposal companies. This is ideally suited for processing different material flows. In combination with its mobility (XR mobil-e), the shredder can be used at different locations wherever it’s currently needed.

The energy-saving UNTHA Eco Drive, with a water-cooled, synchronous motor, ensures particularly low energy consumption and higher efficiency compared with conventional drive variants. The wear-free direct drive reduces maintenance costs, as no belt or shaft stub is needed. The load-dependent speed control guarantees a high throughput rate.

In addition to its ease of maintenance and service, the XR class is particularly impressive due to its low dust and noise emissions during operation.

For different fraction sizes, the perforated screen can be changed within 30 minutes using the optional quick-change screen system.

Due to the high flexibility of this machine, you will be well-equipped to deal with future market changes. Be that in the expansion of business segments or in accepting new material flows.

**YOUR BENEFITS AT A GLANCE:**
- Maximum degree of flexibility for input material, fraction size and mobility
- Single-pass processing of different materials for a fraction size of 400 mm to 30 mm
- Homogeneous defined fraction size
- Low-speed cutting system
- Low noise and dust emission (noise level < 80 dBA)
- Low energy costs due to UNTHA Eco Drive
- Quick-change screen system for a swift and easy screen change (optional)
THE XR CLASS CAN BE INDIVIDUALLY TAILORED TO THE NEEDS OF WASTE DISPOSAL COMPANIES THAT REQUIRE SINGLE-PASS PROCESSING OF HOUSEHOLD, INDUSTRIAL AND COMMERCIAL WASTE INTO SUBSTITUTE FUELS WITH A HIGH THROUGHPUT RATE. APPLICATION-SPECIFIC SOLUTIONS CAN BE FOUND BY USING DIFFERENT CUTTING SYSTEMS.

THE SHREDDER’S ROBUST DESIGN ENABLES EVEN UNTREATED MATERIAL CONTAINING UNSHREDDABLE ITEMS TO BE PROCESSED IN ONE PASS. THESE ITEMS CAN BE REMOVED QUICKLY AND EASILY USING THE IMPURITY REMOVAL SYSTEM, WHICH KEEPS DOWNTIME TO A MINIMUM.

AN ADDITIONAL SAFETY COUPLING ALLOWS THE SHREDDER TO OPERATE AT A HIGHER ROTOR SPEED, THUS ENSURING EVEN HIGHER THROUGHPUT RATES.

YOUR BENEFITS AT A GLANCE:

➢ Single-pass processing of various materials for a high throughput rate
  ▪ Industrial and commercial waste: 25 t/h < 80 mm
  ▪ Household waste: 70 t/h < 300 mm
  ▪ Bulky waste: 30 t/h < 300 mm
➢ Robust shredder with high degree of resistance to unshreddable items
➢ Effective removal system for unshreddable items
➢ Homogeneous, defined fraction size through screen bars or a perforated screen
➢ Low-speed cutting system
➢ Low noise and dust emission (noise level < 80 dBA)
➢ Low energy costs due to UNTHA Eco Drive
➢ Easy to service and maintain

THE ENERGY-SAVING UNTHA ECO DRIVE WITH A WATER-COoled, SYNCHRONOUS MOTOR ENSURES A PARTICULARLY LOW ENERGY CONSUMPTION AND HIGHER EFFICIENCY COMPARED WITH CONVENTIONAL DRIVE VARIANTS. THE WEAR-FREE DIRECT DRIVE REDUCES MAINTENANCE COSTS, AS NO BELT OR SHAFT STUB IS NEEDED. THE LOAD-DEPENDENT SPEED CONTROL GUARANTEES A HIGH THROUGHPUT RATE.

THE XR CLASS HAS ALSO BEEN DEVELOPED FURTHER WITH REGARDS TO HOW EASY IT IS TO SERVICE AND MAINTAIN. THE CUTTING GAP CAN BE PRECISELY ADJUSTED BY THE EXTERNALLY ADJUSTABLE CUTTER BARS, THUS ONCE AGAIN ENSURING COST-EFFECTIVE SHREDDING.
The powerful XR class is perfectly suited to single-pass processing of materials that are difficult to shred, such as pulper waste, spring mattresses or rolled goods.

The high torque and the machine’s perfectly aligned cutting system enable the material to be fed directly into the machine without pre-shredding. A load-dependent speed control ensures a constant throughput rate.

The result is a homogeneous, defined granulate with very effective material disintegration to enable the product to be commercialised further. The internal hydraulic compression system ensures an optimum intake of rolled goods, bales and bulky materials.

**YOUR BENEFITS AT A GLANCE:**
- Single-pass processing of tough materials at a high throughput rate
- Amazing material separation
- Simple removal system for unshreddable items
- Optimum processing of rolled goods, bales and bulky materials
- Homogeneous, defined fraction size
- Low-speed cutting system
- Low noise and dust emission (noise level < 80 dBA)
- Low energy costs due to UNTHA Eco Drive
- Easy to service and maintain

Compared to conventional, multi-pass systems technology, the XR class can process the materials to the desired fraction size in only one pass. You will require less time and fewer personnel to operate and maintain the system, which is reflected in low personnel and maintenance costs.

The energy-saving UNTHA Eco Drive with a water-cooled, synchronous motor ensures a particularly low energy consumption and higher efficiency compared with conventional drive variants. The wear-free direct drive reduces maintenance costs, as no belt or shaft stub is needed.
TEST THE XR3000C mobil-e!

Want to test the XR mobil-e using your own waste materials? Contact us to schedule a trial.
FIRST-CLASS REFERENCES AROUND THE GLOBE

If you want to hold your own with renowned international companies, your products have to prove their worth on a daily basis. UNTHA is aware of this requirement - and that is also why more than 9,000 of our shredding systems are in use today.
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