



**WILLIBALD**






**RECYCLING TECHNOLOGY**

**SHREDDING - SCREENING - TURNING**

# Milestones

Memorable moments in our success story

- 1965**  **Founding of the company**  
 Series production of the first hop separator in Altheim
- 1970er** Market launching of the flail mulchers and stone breakers
- 1984** Development of the first shredder (mobile shredding system)
- 1986** Construction of the first compost windrow turner (TBU)
- 1990**  **Founding of J. Willibald GmbH**  
 and building of new premises at today's site in Sentenhart
- 2000** Building and opening of the Service Center in Unterbreizbach
- 2009** Market launch of the EP 5500 Shark series
- 2015**  **50 years of Willibald**  
 Presentation of the mobile screening system Flex-Star 3000
- 2020** Move to the new Logistics Center with additional 1,700 square meters, i.e. 2.000 pallet and 2,000 kanban bays



The hop separator – the beginning of our continuing success



The transformation to shredding technology



Part of the company headquarters in Sentenhart



High-performance Shark shredder in action



More warehouse space and faster part availability

# Preface

Willibald in a nutshell

Nice to see that you are interested in our family business which we are happy to introduce to you:

J. Willibald GmbH is a leading system provider in recycling and environment technology and has been producing high-performance processing machines "Made in Germany" in Sentenhart for 55 years with a staff of about 70 people. The product portfolio includes stationary and mobile shredding systems, screening machines and turners for the worldwide disposal industry as well as for biomass, wood chip and compost production. The machine program is rounded off by a wide range of spare and wear parts on stock.

Behind all this is an experienced team of highly qualified and motivated employees as well as a strong, extensive partner network with fast response times and comprehensive know-how. Our aspiration is to remain open for the customer demands and needs of tomorrow and to actively help to shape the future. Many of our customers' inspirations have already been developed to series maturity and integrated into the current machine generation.



With this company brochure, we would like to inform you about our achievements, products and services and give you new incentives for successful, future-oriented cooperation. We are looking forward to you.

With best regards from Sentenhart

Josef Willibald

Alexander Willibald



# Customer-oriented working

All pulling together

## Design and Development

The collaborative dialog with our customers lets us know their current and future requirements. From this we develop workable solutions for the users on site. Hereby, we get support from state-of-the-art CAD systems to implement all new requirements quickly and practically. This flexibility and power of innovation have always been our strong points.



## Sales and Service

We ensure optimum consulting and implementation of all customer requirements with a competent team and a modern ERP system. Our comprehensive service includes both the purchase of new machines, the procurement of replacements and the fast supply of tools, spare and expendable parts as well as the maintenance for all Willibald processing machines active in the market.



## Purchasing

Quality is of prime importance in our procurement of components, assemblies, spare and wear parts. We therefore work only with leading suppliers in Germany and Europe to ensure permanently high product quality and security of supply. We rely on a modern kanban system in the C-parts management.



## Assembly

The flexible, order-related production of all processing systems takes place on several machine-specific assembly lines. Upstream, modular pre-assembly for motors, hydraulic and shredding systems ensures the provision of all components and the consideration of all special customer-specific requirements hereby.



## Production

Central components and important function parts are produced among other things with modern CNC machining centers and laser cutting machines by experienced specialists order-related in our own company. Together with the purchased parts, they form the basis for trouble-free machine assembly and fast spare parts availability.



## Logistics

Our new Logistics Center guarantees high material availability for fast handling and delivery of all customer orders in cooperation with international logistics partners. Stay on the safe side with original Willibald parts and enjoy an increase in your performance capacity at competitive prices.



SHREDDING



SHREDDING



Massive rotor with 12 free-swinging flail tools

Three rakes, individually exchangeable

Efficiently driven by a 45 kW or 55 kW electric motor

Throughput rate for example for biogas substrate: up to 25 m³/h



## The stationary one - UZ 80

Electric stationary shredder

Robust electric shredder in compact design, especially suitable for automatic continuous operation in systems for processing different substances.

Shreds pre-crushed old wood, bark and peat as well as all compost and biogas substrate such as sugar beet, dung, grass and corn silage in no time. Combined with additional conveyor belts the whole process, including the infeed and discharge, runs by itself.



The rotor in combination with the suitable flails is the central element of every shredding system

## The compact one - MS 3000 Mini-Shark

Mobile starter shredder

The Mini-Shark is the mobile Willibald starter model. It is the ideal choice for small and medium volumes.

At the same time, the MS 3000 impresses in terms of efficiency and economy, and can reliably process a wide range of materials from green waste to compost materials to demolition wood and wooden packaging. Depending on the quality of the wood, it can be processed into reusable wood chips that are ideal for burning to produce energy.

Adjustable shredding system with reinforced flail rotor

Optionally with free-swinging flails or chopper rotor

Perkins diesel engine with 130 kW and latest emission class

Material throughput, e.g. for green material: up to 50 m³/h



Either 18 free-swinging or 12 fixed flails are used in the Mini-Shark





## The successful one - EP 5500 Shark 5

Latest machine generation in five requirement-optimized rotor versions

The high-performance shredder can process many different materials. In addition to the main area of application of composting and biomass processing, the mobile shredders are used for producing wood chips from trunk wood, waste wood and old wood.

### Version 1: 48 flails, finest results

In this modification, a rotor shreds with 48 fine flails in combination with rakes. This achieves finest material results. Version 1 is the right decision when exact fine grain is required.

### Version 2: 40 flails, robust and fine

This strong rotor version with 40 flails and more stable rakes due to the reduced number of flails enables an optimum compromise between robustness and material fineness. Version 2 is the one you want when you need decent fine grain.

### Version 3: 16 flails, the all-rounder

Here, a rotor operates with 16 powerful double flails. These are equipped with 32 quickly interchangeable tips. The universally usable Shark 5 shredding system in version 3 offers balanced good results in almost all areas of application.

### Version 4: 32 flails, the universal one

Alternatively to version 3, 32 massive single flails can be used. The Shark shredding system in version 4 offers longer life span and also good results for a number of materials to be shredded.

### Version 5: 10 tools, master of biomass processing

A rotor with 10 fixed shredder tools and variable interchangeable tip system or blades with chopping qualities ensures excellent results in the processing of biomass. An innovative safety concept against contaminants also convinces.



Also available as caterpillar, electric or stationary version

Ingenious maintenance concept:  
A lot of room for fast, reliable servicing

Material discharge by a rubber conveyor belt  
with either 3.8 or 4.5 meter discharge height

Mobile and compact: 80 km/h chassis  
at only 9.95 m transport dimension

Powerful MAN diesel engines with 353 or  
382 kW and latest exhaust gas standard

High throughput rate e.g. for bark:  
up to 230 m<sup>3</sup>/h

# The accurate one - FLEX-STAR 3000

Triple screening in perfection

The ingenious combination of high performance, precision, economy and maintenance friendliness in compact form.

The Flex-Star 3000 star-type screen is designed for the purpose of screening biomass, compost, pre-crushed old wood, bark mulch, wood chips and much more besides into three fractions (coarse/medium/fine) in just one operation, and then discharging it separately.

Even moist and sticky bulk goods which have a tendency to clog up the screen bases are screened efficiently. A material discharge belt height of around 3.80 m allows a large storage capacity under the screen, and consequently optimized wheel loader operation also. An optional wheel drive allows the screening machine to be moved as required and thus create three windrows.

Enormous infeed hopper with a capacity of 8 m<sup>3</sup> enables continuous operation at a high throughput rate

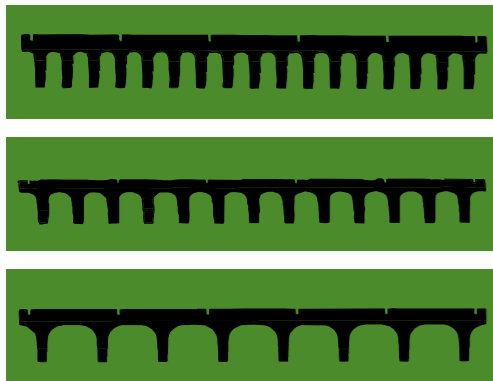
Either two or three fraction operation at the push of a button

Possibility to use the shredder and screen in combination

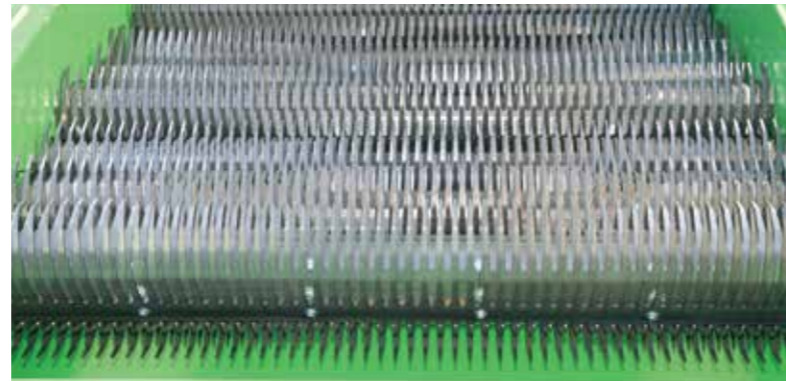
Chassis with 80 km/h road license at only 10.3 m transport length

Powerful Perkins diesel engine with 110 kW

Throughput rate of up to 200 m<sup>3</sup>/h with precise material separation



The core of the screening machine are spring steel finger bars in coarse and fine design



Modular structure - individually replaceable screen decks



## The turner - TBU 3P and TBU 3P XL

Compost turner with 3-point connection for tractors

It is useful to turn the material exactly vertically to achieve fast compost maturity and high quality of the compost. This is where the TBU 3P and TBU 3P XL compost windrow turners comes into use.

They achieve very good mixing of the material layers as well as post-shredding of pieces of wood still left in the material. The improved air circulation (re)activates micro-organisms which results in a shorter rotting time and higher quality of the compost.

The TBU 3P XL can be towed on the road at up to 25 km/h on a support axle. If you want to travel faster, you can buy a TBU-adapted trailer as an option which comes with a road license for up to 40 km/h.



Connection by sturdy powerdrive jointed shaft with overload clutch



Space-saving and easily operable compost turner

Clear view for the driver/operator because the working direction is the towing direction

Powerful milling drum processes windrow heights up to 3 m or up to 4 m with the XL version

Fast and easy replacement of the milling tools

Throughput rate with TBU 3P up to 1,000 m<sup>3</sup>/h with TBU 3P XL up to 1,500 m<sup>3</sup>/h

# SERVICE THAT CONVINCES

The customer is who counts

Competent partners and customer service for service, spare parts, repairs and technical inquiries

Additional direct support by regional field service staff in Germany, Austria and Switzerland

Three service support points for the German-speaking region with flexible inhouse and on-site maintenance as well as professional error diagnosis and repair

Worldwide sales network at regional authorized Willibald dealers and country-specific market partners

Various financing models for new machines as well as support by external leasing partners if required

Additional requirement-based machine modification and special customer requests



Detailed machine instruction and training on delivery/handover

Stockpile of hire machines and over-hauled used machines for short-term bridging of peak order periods or bottlenecks

Customer and machinist trainings as well as special dealer days for exchanging experiences and presenting new Willibald products and innovations at the company

Machine demonstrations and tests on site with the customer's own material at any time by agreement

Detailed operating instructions and part documentation per machine type available in many languages for quick information and easy maintenance as well as ordering of spare parts

Wide range of spare and wear parts for all current processing machines, screening machines and turners as well as many old machines immediately available ex-warehouse (express delivery possible)



# SUCCESSFUL TOGETHER

A strong team and every individual contributes to the overall success



See our machines in action and visit the Willibald YouTube channel.



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