



WILLIBALD
RECYCLING TECHNOLOGY



UZ-80

SHREDDING - SCREENING - TURNING

ELECTRIC STATIONARY SHREDDER

UZ 80

The space-saving, stationary, universal shredder UZ 80 crushes many different organic raw materials as well as all compost and smaller timber materials in no time. The main areas of application of the robust WILLIBALD electric shredder are primarily customers in the fields of composting plants, humus factories or bio-gas plants.

Its strength lies in uninterrupted, automated and continuous use. Combined with additional conveyor belts the whole process, including the infeed and discharge, runs by itself.

Application:

- Pre-crushed wood
- Compost material
- Bark
- Peat
- Pre-shredded green waste
- Post-shredding of different raw materials for bio-gas substrates. For example, sugar beet, manure, grass and corn silage
- Defibration of other organic materials

Features:

- Drive provided via 45 kW electric motor in stationary operation
- Feed opening of approx. 40x70 cm – optional hopper available
- Sturdy rotor with flail tools
- 3 rakes; individually exchangeable
- Final grain can be adjusted manually (distance rake/rotor) by a set screw

The shredding process

The heart of the processing machine is a cylindrical shredder rotor. Which is made of thick-walled steel discs welded together, between which 12 free-swinging, sickle-shaped flails operate according to the hammer-and-mill principle.

The solid flails beat the raw material against several rake-like counter-blades, arranged in a line and can avoid contaminants in order to preserve the machine.

The combination of flails and counter-blades achieves finest material results.

Available machine options:



UZ 80 with slide frame



UZ 80 with filling hopper

Individual customer requirements such as a stainless-steel version for aggressive materials are possible after examination. We look forward to your challenges.

Bio-gas substrates can be processed faster and better if they are shredded and defibered.

The inexpensive, electrically driven shredder from WILLIBALD processes a number of bio-gas raw materials. Sugar beet or grass silage can be shredded, for example, in addition to manure. The decomposition of the substrates allows better stirring properties as well as more efficient further processing in the feeding technology. Most users integrate the compact shredding system into a conveyor system to automate the processing. In combination with a PV system, the electric shredder can be operated even more economically and environmentally friendly.

UZ 80 technical data

Transport measurements	[mm]	1.540 (L) / 1.050 (W) / 950 (H)
Engine		
Manufacturer		Elektrim
Type		2Sg 225M4
Power	[kW]	45
Torque (max.)	[nM]	413
Frame: hole dimensions	[mm]	845x465
Fixing screws (6 screws)		
Total weight	[kg]	1.200
Rotor		
weight (equipped)	[kg]	330
Width	[mm]	750
Diameter	[mm]	780
Flails	[pcs]	12
Throughput rate depending on the material	[m³/h]	15 - 30
Post-shredding manually adjustable via screws.		

Subject to change. May contain dimensions and designations which do not match the standard scope of supply. May not be reprinted or reproduced without our consent.

Important: Feeder and discharge belts as well as the electrical connections must be provided by the customer.

The advantages:

- Simple, proven shredder technology
- High throughput rate with low power consumption
- Low wear
- Low running costs
- Insensitive to contaminations



Detailed view of rotor with flail tools



Robust and compact design – ideal for stationary systems



Powerful electric motor with 45 KW for throughput rates up to 30 m³/h

Ideal for bio-gas substrate processing



corn



manure



sugar beet



pre-crushed wood and many other biological materials



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HEADQUARTERS

J. Willibald GmbH
Recyclingtechnik
Bahnhofstr. 6
88639 Wald-Sentenhart
Germany

Phone: +49 (0)7578/189-0
Fax: +49 (0)7578/189-170

info@willibald-gmbh.de
www.willibald-gmbh.de

BRANCH OFFICE

Willibald service- &
maintenance center
Im Wolfsgraben 5
36414 Unterbreizbach
Germany

Phone: +49 (0)36962/514-10
Fax: +49 (0)36962/514-18

info.ubba@willibald-gmbh.de