

JBF

Universal Shredder





Shredder JBF 38/54

This shredder is a heavy-duty machine for **professional use in the recycling business**. The strong and high capacity cutting unit, the optimised and powerful drive in combination with the sophisticated fully automatic function control provide for automated destruction of uniforms and huge amounts of video cassettes, carbontapes, electronic circuit boards, disks, CD-ROMs, DDS and DLT tapes at **low personnel expenses**. On a random basis also single 3.5" Hard Disk Drives can be processed on this machine. Based on a wide experience a choice of optional equipment is available to adapt the shredder in the most suitable manner to individual demands and structural realities at the installation and operation area.

The **universal cutting unit** is equipped with 30 mm wide cutters and two strong electric geared drives with total 18.4 kW performance. The shape of the cutting knives ensures thereby best possible supply of the shredding material. A high practical throughput with low wear and energy consumption is one of the features of this shredder type. The cutting unit was designed for long-term industrial use and can be re-sharpened. Rack, cutting unit and combs are especially designed for low maintenance expenses. The standard sheet steel hopper above the cutting block can be fed manually with the shredding material. The large cutting zone of approx. 380 x 540 mm provides trouble-free feeding of large amounts of shredding material. The housing of the cutting block in bolted execution, made of solid steel plates, enables most **convenient servicing** and even changing of the complete cutting shafts at low expenditures. The cutting shafts with specially designed cutters provide for a **high throughput and perfect destruction** of the material. The cutting shafts exist of single exchangeable cutters and cams and are equipped with a multiple-spline connection between cutters and shafts. This is a solid and proven solution which allows convenient dismantling for reconditioning. The cutters are made of wear resistant tool steel and are hardened to special specification. Worn cutters can be reconditioned either by the manufacturer or by the customer.

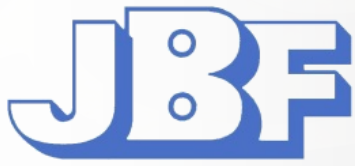
The **solid rack made of rectangle steel tube** is designed to place a standard commercial receptacle with 1,100 litre volume underneath (not included). For maximum safety the complete chassis of the machine is equipped with sheet steel covers. Two large doors with limit switch protection provide for convenient access to the collecting bin for emptying. Transportation of the complete machine to other points of use can be performed with each standard forklift or two pallet trucks.



All operation buttons and indicator lights plus the emergency-switch and main switch are combined in one central console. The main switch is lockable against misuse by a padlock. **All functions are controlled fully automatically** by a special programmed micro-computer. This includes electronic overload protection by auto-reverse-mode and automatic re-start, the torque is adjustable. Furthermore the main drives are thermos protected for maximum protection. The control cabinet is fixed to the machine and completely wired. No-voltage contacts for connection with upstream (e.g. feeding conveyor) and downstream (e.g. delivery conveyor belt, baling press,..) components are not included, but are available as extra cost options.

Production of main wearing parts by the manufacturer and a well equipped spare parts warehouse of manufactured and purchased parts ensure a **rapid supply of spare parts**, when needed. Reworking of cutting units and other components is also performed by the manufacturer directly with full control of timelines and cost, providing for **low down-times and a high, reliable availability of your machine**.





Optional Feed Conveyor

For convenient feeding of large quantities of shredding material an adequate feeding solution might be interesting. This **individually designed, very rugged conveyor** with 500 mm active width exists of an app. 4,000 mm long 33° rising section. This provides for most **convenient and economic feeding** of the different materials. **Automatic monitoring and power supply** of the

conveyor is provided for by a Cekon CEE 16A socket at the central control of the shredder for continuous Operation. The feed line of the conveyor with its mating plug is simply plugged in there. After pressing the START- button of the shredder this will start and stop the feed conveyor automatically according to the actual load level of the cutting unit. The operator simply has to put the shredding material onto the conveyor.



Further Optional Extras

Cover of the Hopper with Limit Switch

For the destruction of brittle material we recommend a **cover of the hopper**, to prevent sharp parts from being ejected out of the machine. This cover is equipped with a limit switch also for immediate stop of the machine when the cover is opened. The cover can be folded-away and is fixed with hinges.



Forced Feeder

For the destruction of bulky products we recommend to use a **manually forced feeding device** built in the hopper which presses the shredding material against the cutting cylinders for optimised processing.





JBF Group

JBF is a family-owned business located in Southern Germany with over 40 years of history. 50 employees develop and manufacture at two sites with together 11.000 m² production and storage area shredders, textile machines, winding machines, packaging machines and presses, which are sold via dealers and general agents world-wide. The group is formed by 3 companies:

- **JBF Maschinen GmbH:** since 1973 shredding machines and their plant engineering, winding machines and custom-built automation technology
- **Farger + Joosten Maschinenbau GmbH:** since 1979 "multipower"-branded pneumo-hydraulic cylinders, power-intensifiers and custom-built pressing devices
- **C + L Textilmaschinen GmbH:** since 1949 sophisticated textile machinery like reeling, balling and steaming machines for fine and course yarns plus peripheral equipment like band making and packaging machines

A very high level of vertical integration with high precision turning lathes, milling machines, machining centers, grinding and honing machines, sheet steel cutting and bending equipment, paint shop and control panel construction provide for fast reactions in production and development of series and custom-built machines.

A considerable stock of raw materials, mechanical and electrical components and geared drives enables a flexible production of made-to-order machines and fast supply of spare parts, independent from availability on the market.

Development projects with the National Textile Research Institute Hohenstein and leading pharmaceutical companies are a proof of expertise and ensure to maintain cutting edge technology.

JBF Maschinen GmbH



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