



Paper Document Shredders





Paper Document Shredders

Why shred paper documents?

In comparison with most other data media, information on paper documents can usually be read by anyone without specific reading instruments. This can be private, business or confidential information. When a document becomes obsolete or is not needed any more, the contained data shall or have to be rendered unreadable properly to comply with applicable data security regulations. Shredding is the preferred and proven method for secure paper document destruction.

Which technology is used best for shredding?

There are various technologies from single- up to four-shaft-designs available with low and high rotational speed. For proper shredding, sufficient motor power, carefully adapted knife geometries and specially selected knife qualities are required. High throughput requirements or fully automated shredding processes can be met by dual or triple stage shredding systems. JBF offers **DataCut** machines with proven dual shaft technology and low r.p.m. for a smooth shredding process and limitation of spark generation and heat-build-up for **standard security requirements up to 3,200 kg/h throughput**. For high and paramount security requirements, JBF offers a line of fast spinning single-shaft disintegrators with sizing screens. These can be combined with a dual shaft shredder and magnet separator for processing of **up to 900 kg/h complete ring binders in security level P7** according to DIN 66399.

Which shred sizes are required?

Depending on data contained, different regulations may apply. For private and commercial data DIN 66399 gives advice on required destruction levels P1 up to P7, depending on the applicable security level. Governmental institutions, armed forces and central intelligence have specific standards (NSA, NATO-SDIP, CPNI, DIPCOG,...). When selecting your shred size please note that with decreasing particle sizes the shredder becomes more expensive, the throughput rate decreases and above level P4 the paper cannot be recycled anymore and in many countries is regarded and charged as special waste at disposal.

What else is important for a complete paper shredding plant?

Usually shredding will increase the volume of the paper. For volume reduction JBF is prepared to offer specially modified baling presses or compacting skips to handle the tiny paper shreds in an automated manner. Based on our wide experience in such applications JBF will ensure that only proven solutions with required or recommended accessories are suggested to you. For special applications like banknote destruction JBF is prepared to offer suitable briquetting presses for ultimate compaction as well.

Rugged and proven feed and discharge conveyor belts or air systems are available for transport of the material to and from the shredders. When supplied with drawings of your building, JBF will prepare a proposal for the shredder and individually adapted conveying media and submit 2D and 3D drawings to you for further discussion.

Tipping devices allow for convenient emptying of data collecting bins. The JBF tipper can be adapted to the commonly used bins, is equipped with a safety fence with door and will tip the bin step-by-step onto the conveyor to the shredder, whereas an ultrasonic sensor will ensure to not overfill the conveyor.

To comply with existing regulations, JBF is prepared to deliver a range of dust extractors to provide for clean air in the shredding room.

All JBF machines are delivered fully wired. Where cable-disconnects are necessary for transport, these are executed with plugs, so that even non-electricians can do the install themselves. Also within the machines there are plug-connections where reasonable, like at the main drives of the cutting units, so that these can be disassembled for repair by mechanics without involving electrical specialists.

JBF is prepared to design and deliver your customized shredding system as a one-stop-shop. Let us have your inquiry and we'll take care for all the interfaces and take the responsibility for the whole system.



JBF DC 42/35

Important Features

- CEKON CEE 32A plug for connection to the power supply by non-electricians
- Slim design to fit through standard office doors
- Compliant with DIN 66399 security level P2 or P3 (depending on selected knives)
- Accepts stacks of up to 160 pages of DIN A4 paper 70 g/m²
- Processes up to approx. 250 to 300 kg paper documents per hour
- Handles small amounts of other data media like CD's, DVD's, floppy discs

Intended Range of Application

This machine was designed for operation directly in the administration of companies or banks. With its relatively small footprint it provides for sufficient performance for continuous disposal of paper documents and other data media. Installed in a van or truck it can be used for low volume mobile shredding services.

Technical Data

Power supply	V / Hz	400V / 50Hz / 3Ph (other voltages and frequencies available upon request)	
Motor power	kW	5.5	
Working width	mm	420	
Knife width	mm	6 x 50 or 11.8 x 55	
Machine dimensions	mm	approx. 1,810 x 835* x 1,700 mm	*1,840 mm with door open
Machine weight	kg	600	
Collecting bin volume	litre	240	



Subject to change without prior notice
All values are approximate



JBF DC 50/43

Important Features

- CEKON CEE 32A plug for connection to the power supply by non-electricians
- Slim design to fit through standard office doors
- Compliant with DIN 66399 security level P2 or P3 (depending on selected knives)
- Accepts stacks of up to 600 pages of DIN A4 paper 70 g/m²
- Processes up to approx. 500 kg paper documents per hour
- Handles small amounts of other data media like CD's, DVD's, floppy discs

Intended Range of Application

This machine was designed for operation directly in the administration of companies or banks. With its relatively small footprint it provides for sufficient performance for continuous disposal of paper documents and other data media. Installed in a van or truck it can be used for medium volume mobile shredding services.

Technical Data

Power supply	V / Hz	400V / 50Hz / 3Ph (other voltages and frequencies available upon request)
Motor power	kW	9.2
Working width	mm	500
Knife width	mm	11.8 x 55 or 6 x 50
Machine dimensions	mm	approx. 2,380 x 920* x 1,850 mm *approx. 1,550 mm with door open
Machine weight	kg	850
Collecting bin volume	litre	525



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JBF DC 50/43 DD

Important Features

- CEKON CEE 32A plug for connection to the power supply by non-electricians
- Compliant with DIN 66399 security level P2
- **DirectDrive** concept eliminates chain related problems (tensioning, greasing, breaking)
- Accepts stacks of up to 650 pages of DIN A4 paper 70 g/m²
- Processes up to approx. 800 kg paper documents per hour
- Handles small amounts of other data media like CD's, DVD's, floppy discs

Intended Range of Application

This machine was designed for operation directly in the large administration of companies or banks. With its relatively small footprint it provides for sufficient performance for continuous disposal of paper documents and other data media. Installed in a truck it can be used for high volume mobile shredding services.

Technical Data

Power supply	V / Hz	400V / 50Hz / 3Ph (other voltages and frequencies available upon request)	
Motor power	kW	9.2	
Working width	mm	500	
Knife width	mm	11,8 x 55	
Machine dimensions	mm	approx.. 2,330 x 1,290* x 1,650 mm	*1,965 mm with door open
Machine weight	kg	850	
Collecting bin volume	litre	525	



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All values are approximate



JBF DC 50/40

Important Features

- CEKON CEE 32A plug for connection to the power supply by non-electricians
- Compliant with DIN 66399 security level P2
- Optional feed conveyor provides for convenient feeding of large amounts of documents
- Accepts stacks of up to 650 pages of DIN A4 paper 70 g/m²
- Processes up to approx. 500 kg paper documents per hour
- Handles small amounts of other data media like CD's, DVD's, floppy discs

Intended Range of Application

This machine was designed for operation directly in the large administration of companies or banks. With its relatively small footprint it provides for sufficient performance for continuous disposal of paper documents and other data media. Installed in a truck it can be used for high volume mobile shredding services.

Technical Data

Power supply	V / Hz	400V / 50Hz / 3Ph (other voltages and frequencies available upon request)
Motor power	kW	9.2
Working width	mm	460
Knife width	mm	11,8 x 55
Machine dimensions	mm	approx. 3,600 x 1,505* x 2,155 mm *approx.. 2,455 mm with door open
Machine weight	kg	approx. 1,240 kg shredder plus 350 kg feed conveyor
Collecting bin volume	litre	525



Subject to change without prior notice
All values are approximate



JBF DC 50/55

Important Features

- CEKON CEE 32A plug for connection to the power supply by non-electricians
- Compliant with DIN 66399 security level P2
- Optional feed conveyor provides for convenient feeding of large amounts of documents
- Cutting shafts assembled from segments, which can be exchanged separately when damaged
- Accepts stacks of up to 650 pages of DIN A4 paper 70 g/m²
- Processes up to approx. 800 kg paper documents per hour
- Handles small amounts of other data media like CD's, DVD's, floppy discs

Intended Range of Application

This machine was designed for operation directly in the administration of companies or banks. With its relatively small footprint it provides for sufficient performance for continuous disposal of paper documents and other data media. Installed in a truck it can be used for high volume mobile shredding services.

Technical Data

Power supply	V / Hz	400V / 50Hz / 3Ph (other voltages and frequencies available upon request)
Motor power	kW	9.2
Working width	mm	500
Knife width	mm	11,8 x 55
Machine dimensions	mm	approx. 2,090 x 1,160 x 2,350 mm
Machine weight	kg	approx. 1,750
Collecting bin volume	litre	525



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All values are approximate



JBF DC + DCM 600 / 800 / 1000

Important Features

- Direct connection of power supply to terminals by customer's electrician
- Compliant with DIN 66399 security level P3 (DC + DCM 600) or P2 (DC + DCM 800 + 1000)
- Standard feed conveyor provides for convenient feeding of large amounts of documents
- Combination of a rugged primary shredder and a security shredder for creation of small particles
- DCM machines feature a magnetic separator for automatic separation of ferrous magnetic metals ahead the security shredder
- Handles thick computer printout lists and complete ring binders (suggested for DCM machines only)
- Processes up to approx. 600 / 800 / 1,000 kg paper documents per hour
- Handles small amounts of other data media like CD's, DVD's, floppy discs

Intended Range of Application

This machine was designed for operation directly in the administration of large companies or banks and for recyclers and shredding service providers. With its Siemens S7-1200 PLC with color touch panel it provides for automated destruction of large amounts of documents with only little human intervention. Installed on a trailer it can be used for ultra-high volume mobile shredding services.

Technical Data		DC / DCM 600	DC / DCM 800	DC / DCM 1000
<u>Primary shredder:</u>				
Motor power	kW	7.5	9.2	2 x 7.5
Working width	mm	380	380	380
Knife width	mm	30	30	30
<u>Secondary shredder:</u>				
Motor power	kW	9.2		
Working width	mm	500	500	500
Knife width	mm	6 x 50 or 12 x 55	12 x 55	12 x 55
Throughput capacity	kg/h	up to approx. 600	up to approx. 850	up to approx. 1,000
<u>Complete machine:</u>				
Power supply	V / Hz	400V / 50Hz / 3Ph (other voltages and frequencies available upon request)		
Machine weight	kg	up to approx. 5,260		

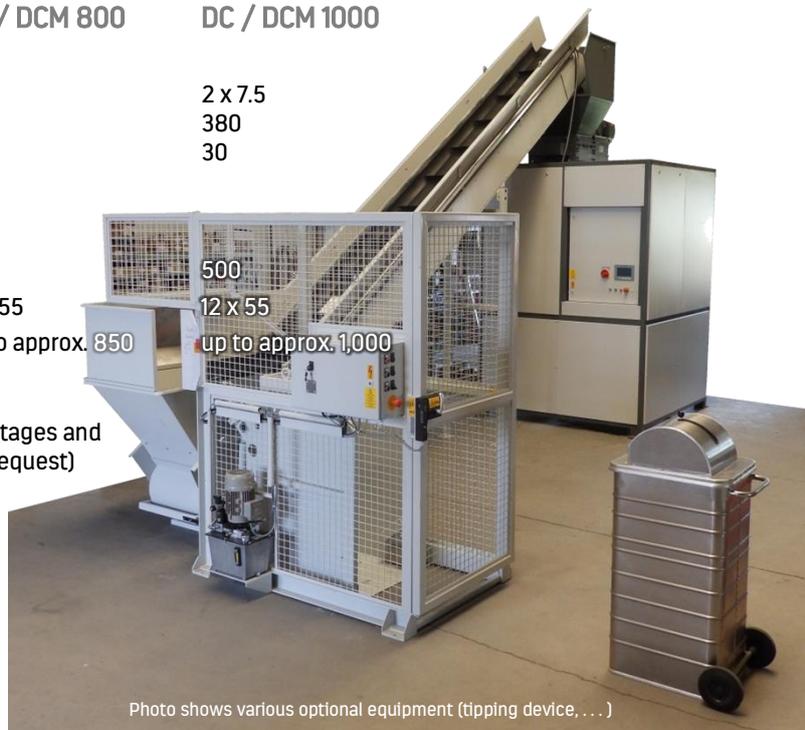


Photo shows various optional equipment (tipping device, ...)

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All values are approximate



JBF DC + DCM 2000 / 2500

Important Features

- Direct connection of power supply to terminals by customer's electrician
- Compliant with DIN 66399 security level P2
- Standard feed conveyor provides for convenient feeding of large amounts of documents
- Combination of a rugged primary shredder and a security shredder for creation of small particles
- DCM machines feature a magnetic separator for automatic separation of ferrous magnetic metals ahead the security shredder
- Cutting shafts assembled from segments, which can be exchanged separately when damaged
- Handles thick computer printout lists and complete ring binders (suggested for DCM machines only)
- Processes up to approx. 2,000 / 3,200 kg paper documents per hour
- Handles other data media like CD's, DVD's, floppy discs
- A bypass allows to only pre-shred the material, activation within seconds via touch panel

Intended Range of Application

This machine was designed for operation directly in the administration of large companies or banks and for recyclers and shredding service providers. With its Siemens S7-1200 PLC with color touch panel it provides for automated destruction of large amounts of documents with only little human intervention. Installed on a trailer it can be used for ultra-high volume mobile shredding services.

Technical Data		DC / DCM 2000	DC / DCM 2500
Primary shredder:			
Motor power	kW	2 x 9.2	2 x 15
Working width	mm	700	700
Knife width	mm	40	40
Secondary shredder:			
Motor power	kW	2 x 9.2	2 x 11
Working width	mm	730	880
Knife width	mm	12 x 55	12 x 55
Throughput capacity	kg/h	up to approx. 2,100	up to 3,200
Complete machine:			
Power supply	V / Hz	400V / 50Hz / 3Ph (other voltages and frequencies available upon request)	
Machine weight	kg	up to approx. 8,000	



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JBF Disintegrator Range

Important Features

- Cutting unit incorporates a fast spinning rotor with straight knives, which can be re-grinded many times
- An exchangeable sizing screen allows to change the security level within a few minutes time by the operator
- Depending on the mesh size of the screen, DIN 66399 security levels P7, F4, O6, T7 and E5 can be reached
- An air system is required to evacuate the granule from the cutting chamber, providing for clean air as an extra benefit
- Sound levels exceed 100 dBA and require ear protection or sound enclosures
- When combined with a DCM-machine, they can handle thick computer printout lists and complete ring binders
- Handle besides paper all kind of plastic data media like CD's, DVD's, floppy discs, X-Ray films, smart cards, topping foil, indent ribbon, OVD-foil, key tape...

Intended Range of Application

This machine range was designed for top-secure data destruction applications at central intelligence, military, governmental authorities, smart card manufacturing sites, security printing plants and the like. With specially adapted knives destruction of electronic media like FLASH drives is possible as well.

Technical Data

		DIS 23/15	DIS 41/20	DIS 41/26	DIS 45/30	DIS 60/30	DIS 100/60
Motor power	kW	4.0	7.5	11.0	30.0	30.0	75.0
Working width	mm	230	410	410	450	600	1,000
Rotor diameter	mm	150	200	260	300	300	600
Machine weight	kg	230	615	770	2,400	2,600	7,200
Throughput capacity P7	kg/h	40	130	210	260	350	930

Complete machine:

Power supply	V / Hz	400V / 50Hz / 3Ph (other voltages and frequencies available upon request)
Screen mesh	mm	20 mm down to 2 mm



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JBF Plant Engineering

Your one-stop-shop for complete shredding plants

Based on successfully completed projects of the past decades, JBF can draw upon a range of proven and matching conveying, storage and compacting solutions to expand the pure shredder to a complete shredding plant. Some of the offered components are specially modified as per JBF's experience to handle the tiny paper shreds without troubles. Thus, the customer can buy the complete plant from a single source with JBF being responsible for all electrical and mechanical interfaces within the plant. The available components include amongst others:

- Conveyor belts for feeding and discharge of shredding material to and from the shredders
- Sorting conveyors
- Air systems for transport of tiny shreds
- Dust extractors
- Channel baling presses for compaction of large quantities of shreds to marketable bales
- Dumpsters for space saving and convenient collection and compaction of smaller paper quantities outside of the building
- Briquetting presses for very sensitive materials in the security printing industry
- Tilting devices for convenient emptying of collecting bins





The JBF Group

JBF is a family-owned business located in Southern Germany with over 40 years of history. 60 employees develop and manufacture at two sites with together 13,000 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 centres, 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.



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