

Granulex™ hammer mill DFZP

PITSTOP – Maintenance

Genuine Bühler
spare parts for
longer life cycles.

Grain Processing
Customer Service



The Granulex hammer mill DFZP from Bühler has been designed with maximum uptime and minimum manpower requirement in mind. Whether a change of application or maintenance of the machine is involved – the focus is always on rapidity and convenience.

A consistently high capacity is crucial for your business success. In order to avoid a drop in capacity or even an interruption of production, Bühler experts recommend you to carry out regular maintenance and to keep a local stock of the most important parts at your site.

If requested, experienced Bühler service technicians will perform the inspection and maintenance jobs listed.

Advantages

- Prevention of downtimes thanks to wear parts availability ex stock at your local site
- Reduction of unpredictable outages thanks to scheduled maintenance
- Preservation of the value of your machine thanks to preventive maintenance
- Control over all the important items at a glance for quick and efficient handling of jobs

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PITSTOP – Maintenance routine

Preventive maintenance of DFZP	Remarks	Part number	Daily	Weekly	Monthly	Annually / 2000h
Empty gravity separator and magnetic separator of the feeder			•			
Check machine for vibrations and unusual noises	Incorrect hammer configuration and the use of half-worn hammers together with new ones will generate dangerous vibrations plus unbalance		•			
Check condition of the hammers; if necessary, turn or replace them. Replace hammers whose bores have been worn out due to excessive vibrations	Never replace just individual hammers, but always the entire set at a time Change the direction of rotation of the motor every 12h	DFZC-50148-010		•		
Check screens for wear and if necessary replace them		See list of wear parts		•		
Clean the machine surface				•		
Check the feed roll and the feeder for wear and damage					•	
Check wear panels (2 units), wear plates (5 units), and hammer holding bars for wear and if necessary replace them	Wear plate assembly Wear panel Holding bar	DFZP-10544-001 DFZP-80036-810 DFZP-80088-810			•	
Check the seal of the magnetic gate		DFZP-10370-001			•	
Check the seal of the sliding door		DFZP-10418-001			•	
Check the coupling star for wear and if necessary replace it		UXN -50041-803			•	
Check the safety interlock of the door	It must not be possible to open the sliding door while the motor is running				•	
Check the pneumatic system for leakage	Check hoses, quick-action vents, valves				•	
Check the electrical installations for damage						•
Check the rotor for wear	A high content of foreign matter (e.g. sand) will increase rotor wear					•
Oil the bare parts						•
Lubricate the feed roll bearings						•
Relubricate the main rotor bearings (approx. 70g)	The self-aligning ball bearings are factory-filled with a grease volume lasting for approx. 2000 service hours. Relubricate the bearings during operation using a grease gun					•

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PITSTOP – Wear parts

Wear parts for coarse and fine grinding	Part number	Qty per machine	Interval	Product throughput	Remarks	Qty
Wear panel assembly	DFZP-80036-810	2	1 ... 5 years		Upper section	
Wear plate assembly	DFZP-10535-001	2	6 ... 12 months		Upper section	
Wear plate assembly	DFZP-10535-001	3	2 ... 5 months		Machine frame	
Seal	DFZP-10418-001	2	1 ... 2 years		Seal for sliding door	
Foam rubber seal	DFZP-10370-001	1	1 ... 2 years		Seal for magnet gate	
Gear rim 95 Shore A	UXN -50041-803	1	1 ... 2 years		Drive	
Washer D13/24x2.5	UNN -14000-009	42			6 units each for wear panel, wear plate	
Locknut M12	UNN -12016-007	42				

Wear parts for fine grinding	Part number	Qty per machine	Interval	Product throughput	Remarks	Qty
Fine-hole screen D=0.4mm	DFZP-10398-001	4		1000 ... 1500 t	Dependent upon the product and contamination	
Fine-hole screen D=0.5mm	DFZP-10399-001	4		1000 ... 1500 t		
Fine-hole screen D=0.6mm	DFZP-10400-001	4		1000 ... 1500 t		
Fine-hole screen D=0.8mm	DFZP-10401-001	4		1000 ... 1500 t		
Fine-hole screen D=1.0mm	DFZP-10402-001	4		1000 ... 1500 t		
Fine-hole screen D=1.25mm	DFZP-10403-001	4		1000 ... 1500 t		
Fine-hole screen D=1.5mm	DFZP-10404-001	4		1000 ... 1500 t		
Hammer 165x60x6:2 L 33	DFZP-10681-001	276		9'000 ... 35'000 t		
Hammer 165x60x6:2 L 33	DFZP-10714-001	276		14'000 ... 50'000 t	„Longlife“ Hammer	
Holding bar	DFZP-80088-810	24	12 months			

Wear parts for coarse grinding	Part number	Qty per machine	Interval	Product throughput	Remarks	Qty
Round-hole screen D 1.25	DFZP-10391-001	4		6000 ... 20'000 t		
Round-hole screen D 1.5	DFZP-10392-001	4		6000 ... 20'000 t		
Round-hole screen D 2	DFZP-10393-001	4		6000 ... 20'000 t		
Round-hole screen D 2.5	DFZP-10394-001	4		6000 ... 20'000 t		
Round-hole screen D 3	DFZP-10395-001	4		6000 ... 20'000 t		
Round-hole screen D 3.5	DFZP-10319-001	4		6000 ... 20'000 t		
Round-hole screen D 4	DFZP-10255-010	4		6000 ... 20'000 t		
Round-hole screen D 5	DFZP-10256-010	4		6000 ... 20'000 t		
Round-hole screen D 6	DFZP-10257-010	4		6000 ... 20'000 t		
Round-hole screen D 7	DFZP-10390-001	4		6000 ... 20'000 t		
Round-hole screen D 8	DFZP-10397-001	4		6000 ... 20'000 t		
Hammer 165x60x6:2 L 33	DFZP-10681-001	144		9'000 ... 35'000 t		
Hammer 165x60x6:2 L 33	DFZP-10714-001	144		14'000 ... 50'000 t	„Longlife“ Hammer	
Holding bar	DFZP-80088-810	12	12 months			
Insert	DFZP-10371-001	12	12 months			

The intervals specified for wear parts are approximate values. Wear depends greatly on the product processed and contamination in the product such as sand. The intervals refer to 8-hour, 5-day operation.

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PITSTOP – Critical wear parts / Options / Accessories

Critical spare parts	Part number	Recommended stocks	Location of installation	Qty
Fixed ring FRB D 200 x 21	UNN -40004-168	2	Rotor bearings	
Shut-off lid ASNH 522-619	UNN -44035-416	1	Rotor bearings	
Four-lip seal D 100	UNN -44035-730	4	Rotor bearings	
Ball bearing D100/200X38/63	UNN -56003-017	1	Rotor bearings	
Retaining ring	UXN -14027-013	2	Holder for holding bar	
Inductive proximity switch	UNE -26310-131	1	Feeder	
Receptacle M12x1 with cable 5m	UXE -24002-010	1	Feeder	
Interlocking protection for M12	UXE -24002-150	1	Feeder	

Options		Qty per machine		Qty
Temperature sensor	UXE -26551-021	3	Temperature monitoring system for grinding chamber and main bearings	
Temperature controller 100...240VAC	UXE -36113-042	1		
Temperature controller 24VDC/AC	UXE -36113-053	1		
Vibration sensor	UXE -26709-012	1	Vibration detector	
Cable L = 10000	UXE -26709-022	1	Cable for vibration sensor	
Capacitive proximity switch	UNE -26350-001	1	Upper & lower hopper levels	

Accessories		Remarks	Qty
Rotor brake assembly	DFZP-80059-810	Rotor brake for hammer removal	
Blade	DFZP-80058-810	Blade for hammer removal	
Lever	DFZP-10431-001	Tool for removing holding bars	
Outlet cover	DFZP-10527-001	Wooden outlet cover	

Request for quotation	
Machine number (please always specify)	
Company	
Name / first name	
Street / No.	
Post code / place / country	
Phone	
E-mail	
Place / date	
Signed	
Remarks	

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