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Materials Recycling for a *Sustainable* Future

CROSSFLOW X205

VERTICAL CRUSHER

WASTE MATERIALS RECYCLING MACHINE TECHNOLOGY & BIO ENERGY

Function Overview

The **Crossflow** is a high powered **crushing machine,** hosting varying crusher element configurations of blades or chains, material dependent, which rotate at highspeed, breaking apart the input material into its constituent components.

The **specially engineered crushing elements** enable long life and hence reduced downtime, resulting in the maxi-mum value being extracted from the input material with reduced wear parts and running costs. Due to the abrasive material the **Crossflow X205** is designed to process, the crushing machine has been engineered to include **Hardox** plates to resist wear and offer lower cost sacrificial parts that will reduce downtime when inevitable deep maintenance is required.

The **Crossflow** is a very **simple machine** with a basic function however, can be configured to alter the output material quality for sorting and separating technologies to follow.

There are **two modes of operation: batch and continuous.** Batch offers a loading cycle where material is loaded for a pre-set time, processed, and then ejected. During the continuous mode, material is constantly fed into the crushing chamber whilst the discharge door is held open a pre-set distance. Once material is processed as required, it will be automatically ejected. The flexible mode of operation can be adjusted to suit specific input materials and is confirmed during commissioning.

The Crossflow X205 can be utilised for various volume reduction purposes but given the nature of the crushing process, the exact dimensions of the output material cannot be guaranteed.

Application

- WEEE (Waste Electrical and Electronic Equipment)
- White Goods Crushing
- Boiler Crushing
- Refrigeration Processing

Maintenance

Daily
- General cleaning of the machine
- Lubrication - Check lubrication, fill and bleed as required
- Crushing chamber - Check, clean and empty the crushing chamber, and inspect crushing element
- Guide Rails - Inspect and clean as required

Weekly
- Machine - Clean electro motor environment
- Lubrication - Inspect lubrication of equipment
- Guide Rails - inspect and clean as required
- Steel Structure - Inspect, clean and remove dust

Monthly
- Machine - Check belt condition (replace if necessary)
- Control Cabinet - Clean the cabinet and surroundings

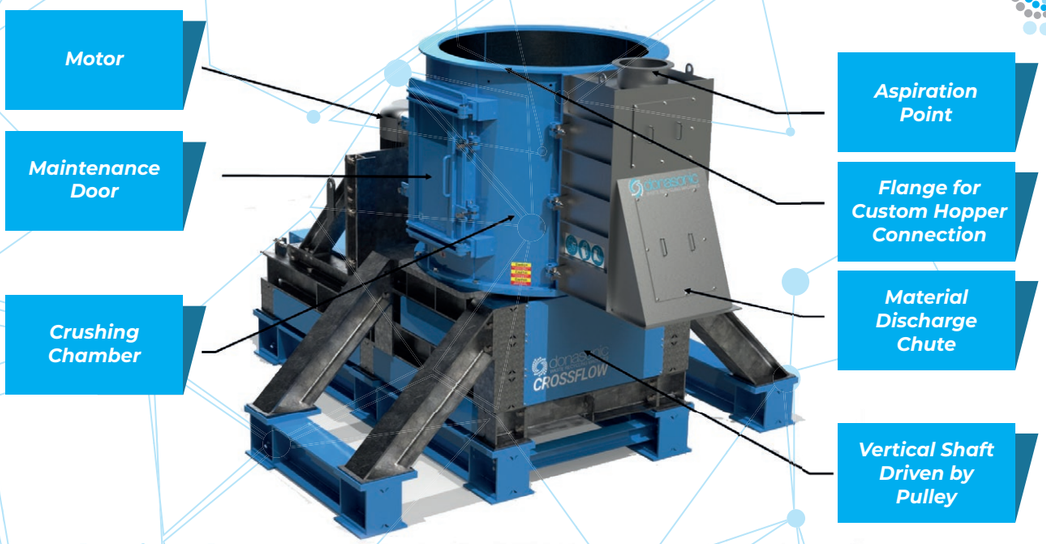
Annually
- Machine - Inspect chamber floor condition for wear (replace where necessary)
- Lubrication - Inspect lubrication of equipment
- Rotor Head - Check rotor shaft seal
- Electrical - Inspect/monitor electrical equipment and connections, record and replace any damaged cables
- Tighten screws

Wear Parts List

- Crushing Element (Chains)
- Hardox Sacrificial Wall Liner
- Pulley Belts (SPC)

Advantages

- Simple Machine
- Easy Maintenance
- Relatively Small Footprint
- Flexible Modes of Operation



Technical Data

Item	Unit	Description
Machine Dimensions (L x W x H)	mm	5,300 x 4,800 x 3,700
Total Weight	kg	Approx. 24,000 (depending on electromotor and crushing/cutting element)
Shredder Type		Vertical Crusher
Chamber Space (Ø x H)	mm	Ø 2,050 x 2,000 (Chamber Wall Thickness – 30 [mm])
Scheduled Working Times	hr/d	8/16
Drive Power	kW	1 x 250, 1 x 315 (Based on application)
Power Supply		400V, 50Hz, 3 Phase
Input Capacity	Per hr	50-60 Fridges or 5-6 t/h (WEEE—Waste Electrical and Electronic Equipment)
Material infeed		Screw conveyor / Conveyor belt / Chain conveyor
Noise Level	db(A)	Idle = <85, Full Load > 85
Structure Finish		RAL 5015, RAL 7030 & galvanised
Chassis Type		Steel I-beam welded construction, IPB280 (DIN 1025-2 / BS EN 1025-2)
No. of crushing elements		2 - 4 (Depending on Application) (8 Mounting position of the Crushing elements on the Crushing Head)
Internal wear resistance		Hardox lining
Additional internal wear plate		Hardox sacrificial wall Lining (half height)
Central Lubrication	Yes	(SKF Lincoln)
Control System		PLC control with touch screen HMI
IP Protection		IP 54
Optional Extras		Sound Proofing Cooling System - Water cooled bearings and water Jacket, Remote Control, Remote Maintenance Assistance, IIOT (Industrial Internet of Things)

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