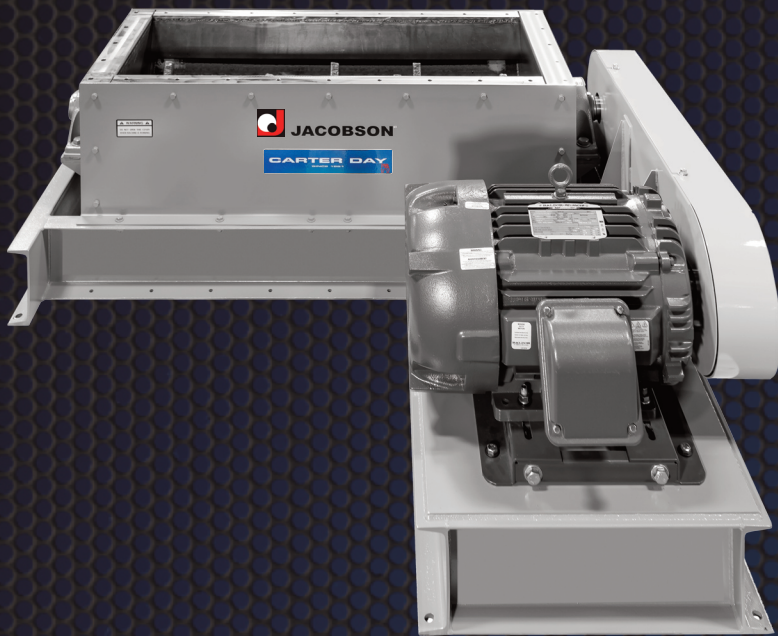


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FULL NELSON CRUSHER



The single rotor “Full Nelson” Crusher (FNC) is commonly used in the Cement Industry for general lumpbreaking of Cement Powder Agglomerates.

The Full Nelson Crusher features a single rotor with hard-facing applied to both top & side surfaces of the delumping teeth. The unit features a Split Grid option that allows the grid to be removed WITHOUT removing the ductwork above or below the unit. The bolted on side panels are easily unbolted to access the split grid for easy removal from each side. The top surface of the grid is hard-faced as well.

This unit is designed to break up cement powder agglomerates that are formed due to moisture absorption during storage, improving consistency of finished mixed cement products.

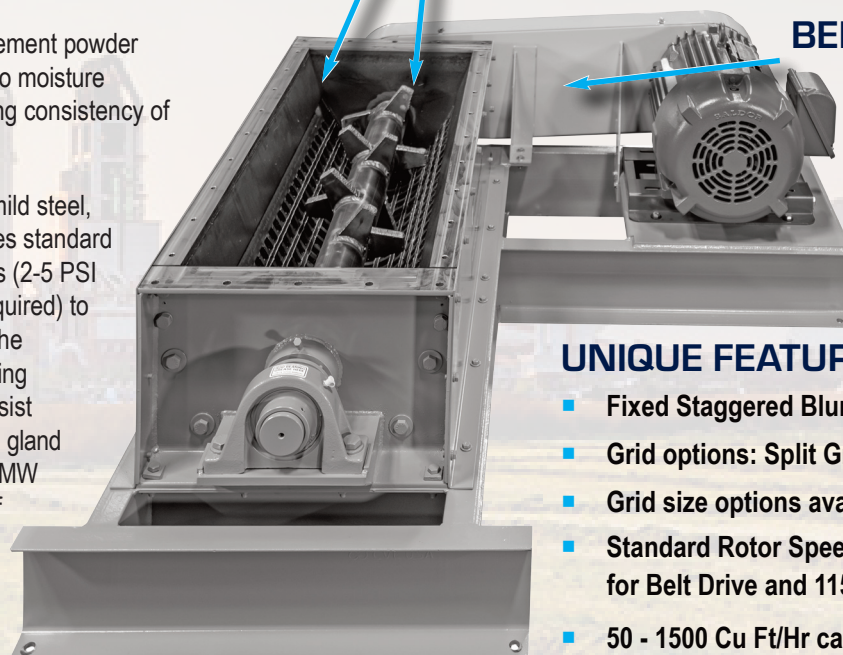
Construction material options are mild steel, 304L SS & 316L SS. The unit comes standard with Air Purge Packing Gland Seals (2-5 PSI customer provided dry clean air required) to assist with keeping product out of the bearings, keeping it within the grinding chamber. In situations where air assist isn't available, the air purge packing gland seal is modified by removing the UHMW Seal and adding an additional row of Garlock packing.

This unit WILL NOT break up/crush any types of rocks or finished/hard cement products.

HARDFACED GRID & ROTOR/TEETH

- Hardfacing welded to grid & rotor/teeth, made out of mild steel, to reduce abrasive wear and extend service life.
- Bolt on side panels easily removed for quick access/removal of grid.

BELT DRIVEN



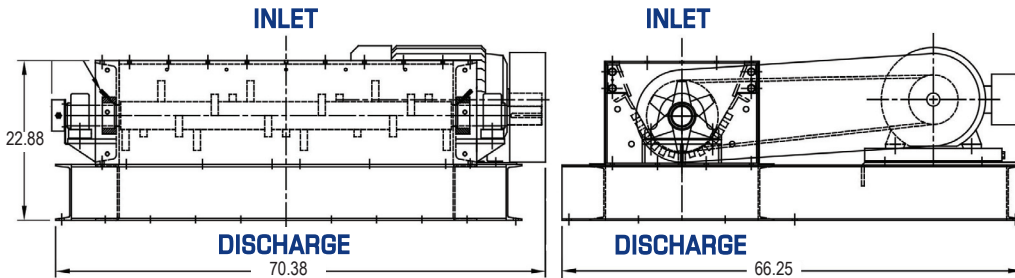
UNIQUE FEATURES

- Fixed Staggered Blunt Rotor/Teeth
- Grid options: Split Grid and Solid Grid
- Grid size options available from 3/8” to 1 1/2”
- Standard Rotor Speeds are 700 rpm for Belt Drive and 1150 rpm for Direct Drive
- 50 - 1500 Cu Ft/Hr capacity of cement powder depending on grid size selected

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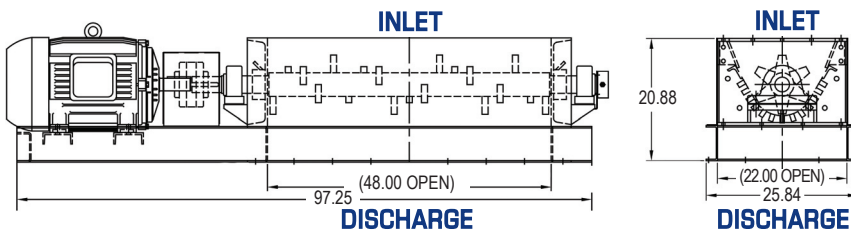
The single rotor "Full Nelson" Crusher (FNC) features optional Belt or Direct Drive depending on customer installation requirements.

BELT DRIVE FULL CRUSHER



CEMENT CHART	
ACTUAL PARAMETERS WITH ESTIMATED CAPACITIES	
Bulk Density (lbs. /ft ³)	90-100
Lump Percent (%)	2 to 3
Moisture Percent (%)	Under 1
Grid Type	Split

DIRECT DRIVE CRUSHER



Unit Model #	* Grid Size	Rate Tons/Hour	**Feeding Method
1548	.375 or (3/8")	500	Choke Fed
1434	.375 or (3/8")	330	Choke Fed
1526	.375 or (3/8")	270	Choke Fed
1422	.375 or (3/8")	215	Choke Fed
1416	.375 or (3/8")	155	Choke Fed

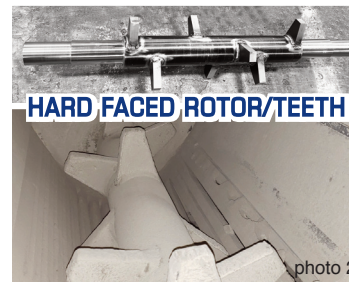
The Full Nelson Crusher installed between the two cement powder silo's in this application (photo 1). The cement powder is top fed (photo 3) into the Full Nelson Crusher one silo at a time to break up cement powder agglomerates before being loaded into the cement truck. In this specific application the customer chose to mount a dust collection system (photo 3), provided by others. A dust collector is not required for the Carter Day, Full Nelson Crusher standard operation.



photo 1

DUST COLLECTION SYSTEM

(provided by others, not required by Carter Day)



HARD FACED ROTOR/TEETH

photo 2



TOP FED

photo 3

CARTER DAY FULL NELSON CRUSHER

(Installed between the two cement powder silo's)

MATERIALS OF CONSTRUCTION

Full Nelson Crushers are fabricated out of carbon steel or stainless steel plating. The interior creates an uninterrupted free-flowing design. Air purge packing gland seals are standard on all machines. Bearings are outboard and separated from the sealing area, reducing product contamination, dust collection and premature wear on bearings.

TIME-SAVING GRID OPTION

Our bolt on side panels, with optional split grid feature, can easily be removed in minutes, during shut downs, for maintenance or replacement of parts. This eliminates the hassle and need for lengthy disassembling of duct work to access the interior of the crusher.

CARTER DAY INTERNATIONAL

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