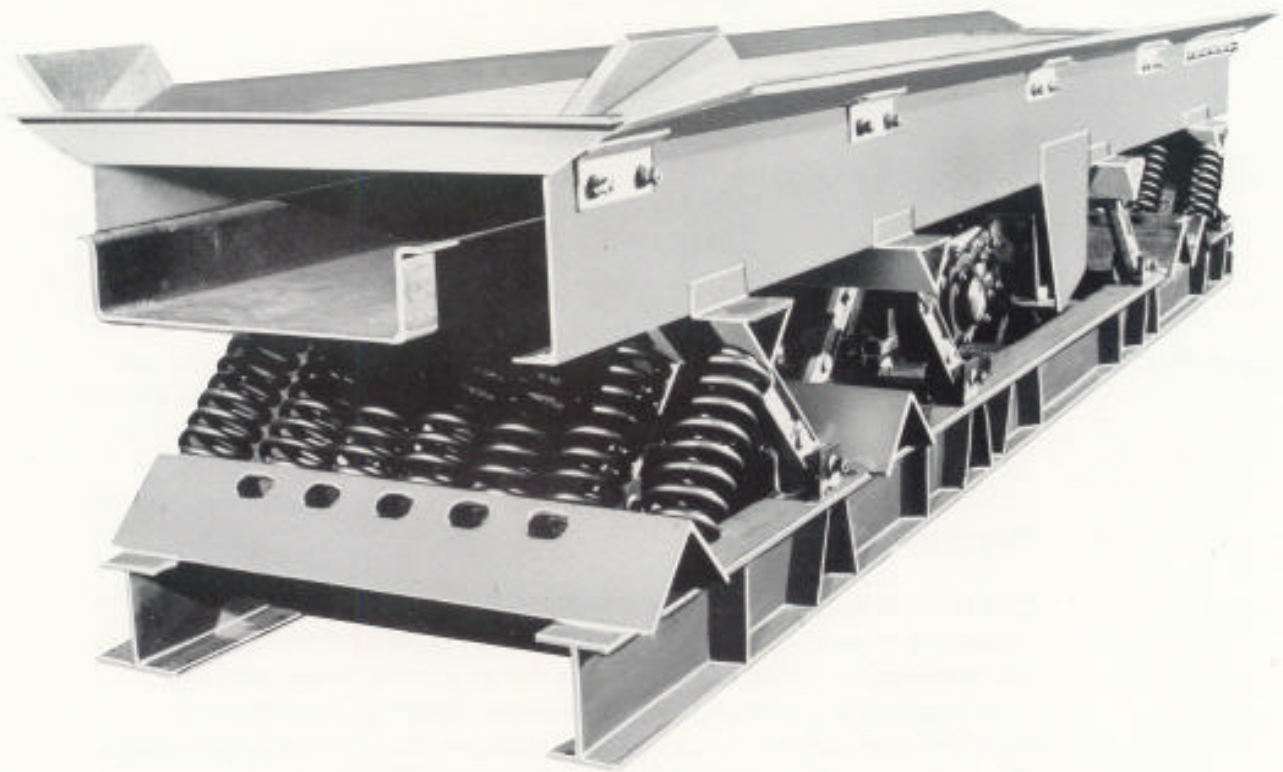


SAND & CASTING SEPARATOR

COUNTERFLOW SAND PAN



Carrier

Vibrating Equipment, Inc.

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SUBJECT: CARRIER EXTRA HEAVY-DUTY SAND AND CASTING CONVEYOR-SEPARATOR WITH COUNTERFLOW SAND PAN

MODEL: XHR 3630F ¾(1045) Casting Pan 17'6" - 7½HP
2460S ¼(1020) Sand Pan

This unique Model XHR Coil Spring Foundry Conveyor is one of three units furnished on a single order for a valve and fitting casting manufacturer. System includes a Carrier Stationary Motor Shakeout and Model HR Sand Conveyor along with this Sand and Casting Sorting Conveyor.

DESIGN	Mold Size;	24" x 36" x 30"
CONDITIONS:	Capacity:	25 TPH
	Sand Per Mold:	1950 lbs.
	Metallics Per Mold:	120 lbs.
	Casting Weight:	60 lbs. maximum
	Mold Rate:	25 molds/hour
	Moisture Content:	4.8% to 5.2%
	Temperature:	600 deg.F. Castings 300 deg.F. Sand

DESCRIPTION: Upper trough of conveyor is fabricated of ¾" thick AISI 1045 mild steel and includes a ¾" thick (1045) perforated plate. Deck is 36" wide flared to 48" wide, 3" deep, 17'6" long. Sand pan is 24" wide, 6" deep, fabricated of ¼" AISI 1020 mild steel. Unit was furnished complete with 7½ HP, 1800 rpm NEMA C Motor, sheaves, V-belts, belt guard, heavy-duty coil springs, heavy-duty rocker arm stabilizers.

CARRIER'S RUBBER COMPRESSION DRIVE on both heavy-duty conveyors is the only drive on the market today capable of withstanding the full compression on the rubber equal to the eccentricity of the shaft without over-stressing any of the structural members. Designed specifically for possible overloads and system upsets characteristic of foundry applications, Carrier's rubber compression drive starts under full product load repeatedly, without affecting the integrity of the drive and is self-limiting in overstroke due to surge loading or system upsets.

CONVEYOR APPLICATION: Fed from the Carrier Shakeout, castings and sand convey and separate. Dribble sand sifts through the perforated plate near the discharge end into the lower trough. While clean castings convey forward on the upper trough into hoppers, the sand conveys in reverse on the lower counterflow trough and is carried back into the lower pan of the shakeout, discharging to the Carrier return sand conveyor.