SOLUTIONS
for the
FOUNDRY INDUSTRY
Shakeouts

We Make Your Work Flow
Carrier
Vibrating Equipment, Inc.
Carrier's unique capabilities have served metalcasters around the world longer than any other full line vibrating equipment manufacturer. For over 40 years, we've been recognized as the industry leader in designing and supplying foundry equipment.

Carrier pioneered the Natural Frequency principle of vibration which amplifies drive forces to maintain constant motion under heavy load demands. Advantages include LOW ENERGY USAGE and MINIMUM MAINTENANCE IN EQUIPMENT OPERATION.

NATURAL-FREQUENCY®

Our advanced techniques combined with Natural Frequency's inherent advantages are making dramatic improvements in superior quality casting production.

We combine uncommon design skills with application experience to offer QUALITY, PERFORMANCE, and COST-EFFECTIVE EQUIPMENT.

Just tell us what you want to do . . . Together, we will work out SOLUTIONS that precisely fit into your foundry operation.

OUR ENGINEERS WORK WITH YOU TO SELECT:
- PROPER SIZE
- VIBRATORY ACTION
- DECK TYPE
FOR YOUR SPECIFIC APPLICATION
CUSTOMED DESIGNED FOR YOUR CAPACITIES AND YOUR SPACE REQUIREMENTS

EFFICIENTLY SEPARATE LARGE CAPACITIES

Core knockout for engine V-blocks

Bolted decks incorporate back-drafted, self-relieving slots to prevent casting damage.
VERTICAL ACTION SHAKEOUTS

10' x 12' Natural Frequency Shakeout for large size molds accepts 40,000#

7' x 6' square Two Mass High Frequency Shakeout separates no-bake molds

Small Sizes for Lower Capacities and Special Applications

3' x 6' High Frequency Shakeout for brass casting

Single, dual, and quad decks are available to achieve optimum shakeout results
TWO MASS NATURAL-FREQUENCY SHAKEOUTS

Variable intensity control for frequent casting pattern changes and fragile castings

Pivoting frame varies unit incline and shakeout retention time

Carrier Designs include Extended Shakeout Conveyor Systems Especially Developed to Protect Casting Quality

SPECIAL BRUTE FORCE DESIGNS ARE ALSO AVAILABLE

Rugged dual-motor, high frequency
You can maximize sand separation and removal, minimize casting damage . . . and lower the cost of doing both on one machine with Carrier

**TWO MASS NATURAL FREQUENCY SHAKEOUTS**
**REDUCE HORSEPOWERS & DRIVE FORCES**

**CONVEYING TYPE**

CARRIER'S extensive SHAKEOUT LINE offers many efficient designs. Experienced foundry application engineers assist you in selection of proven components to suit your specifications.

Applications include: GREEN SAND & NO BAKE SYSTEMS, FLASK CLEANING, CORE KNOCKOUT, SHOT SEPARATION

- Vibratory exciter with counterweight motor drive
- Springs amplify drive forces & separate the drive from deck impact stress

**NON-CONVEYING TYPE - VERTICAL ACTION**

CARRIER'S ENCLOSED MOTOR DRIVES ARE EASILY ACCESSIBLE - above or below deck - free of internal gearing, chains and special lube problems.

ADJUSTABLE AMPLITUDE • OPTIONAL FREQUENCY CONTROLLER • FULL LENGTH SAND PANS OR SIDE CHUTES • SPECIAL LINERS AND HEATED SAND PANS for wet sand applications.

**Brute Force — Low Headroom Operation**

Easily removable and replaceable, bolted or clamped decks include provisions for LUMPBREAKING, ADJUSTABLE SHAKEOUT INCLINE, CASTING ORIENTATION, and SCREENS for non-ferrous applications.

Rugged, heavy-duty grizzlies  Abrasion resistant rider bars  Circular or slotted back-drafted holes
MORE "SOLUTIONS"

problems with casting damage and sand return mix?

**SOLUTION: "THE BARREL HORSE"**
Patented by Carrier and developed especially to solve these problems.

- Designed for positive conveying action and capacities required, "The Barrel Horse" has proven to:
  - thoroughly separate sand and castings while protecting casting quality
  - return a blended, homogeneous sand mix
  - all with low noise and dust levels

Sand sticking? **SOLUTION: Carrier Flex-Belt Sand Conveyor** (shown under casting cooler)

Sand carryover problems in your existing shakeout operation? **SOLUTION: Carrier Counterflow Conveyors** to separate and return carryover sand.

QUALITY EQUIPMENT FOR THE JOB YOU WANT TO DO

Carrier installed the first Natural Frequency shakeout in the early 1950's. We've learned a lot about foundries and understand your production and profit demands from your equipment investment. Our engineering and application techniques tailor the quality of multifunctional equipment to meet these demands. Noise abatement, vibration absorption and dust control are a few of the extras you can expect from Carrier to enhance foundry working environment.

OUR CAPABILITIES STRETCH ALL OVER THE WORLD.

THINK OF CARRIER WHEN YOU NEED:

- MOLD DUMP, TRANSFER, and SORTING CONVEYORS
- EXTENDED SHAKEOUT CONVEYOR SYSTEMS
- CONVENTIONAL and TUBULAR SHAKEOUTS
- CASTING ACCUMULATORS/Coolers
- RADIAL TRANSFER, SORTING CONVEYORS
- FLUID BED SAND COOLERS
- ATTRITION MILLS
- CLEANING ROOM SYSTEMS
- SCRAP CONVEYORS and FEEDERS
- FURNACE and CUPOLA FEEDERS

We'll work with you to interpret specific requirements, help you with layouts and matchups to on-line equipment.

TEST IN OUR LAB OR YOUR FOUNDRY.

STARTUP SERVICE is provided by trained area field representatives.

FACTORY SERVICE ENGINEERS and STOCK PARTS are readily available from our headquarters.