

WESMAN

FOUNDRY EQUIPMENT DIVISION

SAND RECLAMATION

AFFORDABLE

DON'T WAIT FOR BETTER ECONOMY because the savings you can get with reclaimed sand now from our **San-Rec-Pak™** reclamation unit will pay back the system in a short time — and the initial system cost is far less than you might guess. Recovery rates of up to 90% can drastically slash your new sand costs as well as the cost of disposal of used sand.

AND EFFECTIVE

DON'T WAIT FOR BETTER SAND QUALITY because the low residual binder levels, grain size distribution and rebondability that you require for quality castings are now possible. The **San-Rec-Pak™** comes with a fluidized bed cooler/classifier that removes unwanted fines and dust, improves grain size distribution and gives grains a rounder shape, reducing binder consumption up to 15%.

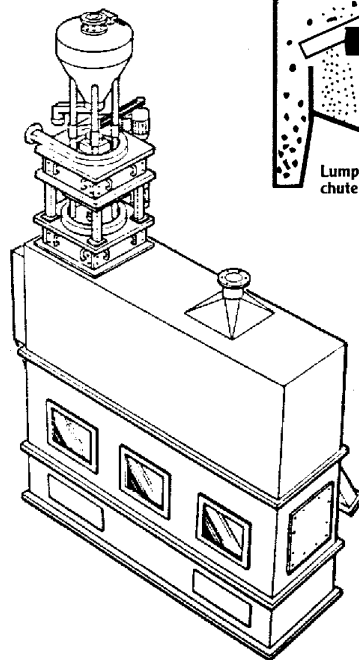
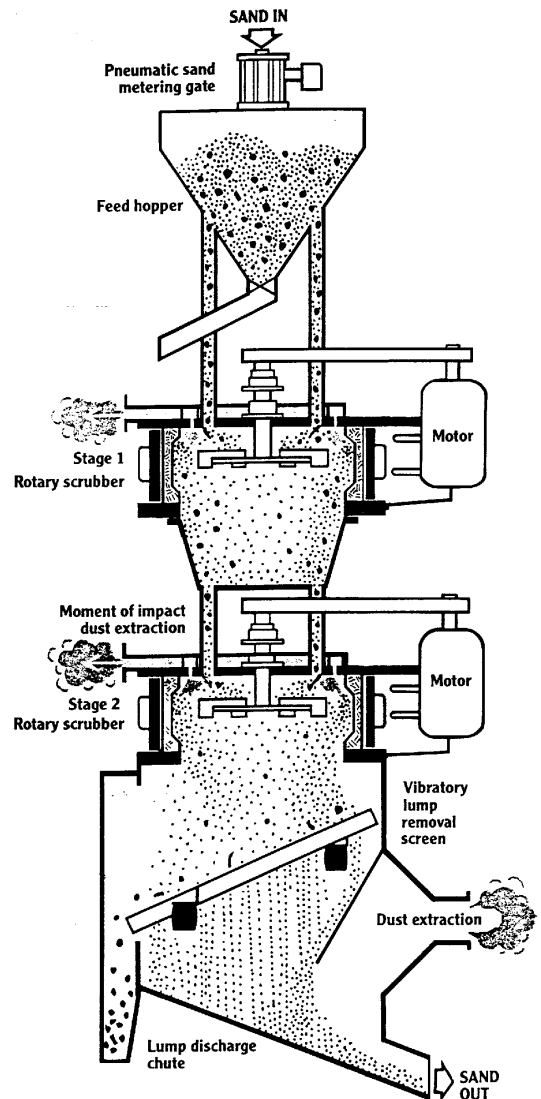
BONDED SAND

HIGHLY EFFECTIVE SAND SCRUBBING is now in your hands — Wesman Dependable Redford Carver's **San-Rec-Pak™** comes with a rotary sand scrubber which removes maximum amount of residual binder without fracturing sand grains. A moment-of-impact air curtain prevents dislodged binder particles from electrostatically reattaching to the sand grains.

RECLAMATION

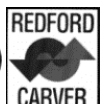
THE RESULTS SPEAK FOR THEMSELVES. Our San-Rec-Paks are already operating in foundries with excellent results, and users have successfully reclaimed and reused bonded sand. The message is clear — if you want to increase your foundry's bottomline while decreasing pollution in your environment, you need our tried and tested **San-Rec-Pak™**.

IS NOW HERE.



FOR RECLAMATION OF NO-BAKE, SHELL AND SILICATE SAND IN CAPACITIES OF 3 AND 6 TONNES PER HOUR.

Available as a turnkey plant with optional crusher, pneumatic transporters, screens and dust extraction system.



PAYBACK PERIOD CALCULATION FOR 3 MTPH WDRS SILICATE RECLAMATION SYSTEM OPERATED FOR 12 HOURS PER DAY



ACTUAL DATA FROM A STEEL FOUNDRY IN COIMBATORE FROM 1ST TO 31ST MAY 2002

BASIC PARAMETERS

Total running hours = 12 x 25 days per month	340 hours per month
Total new sand input into mold and core making system	800 MT
Quantity of sand reclaimed from system (efficiency=88%)	711 MT

TYPICAL MONTHLY OPERATING COSTS

Actual oil consumption at sand drier	6095 litres of LDO†
Cost of consumed LDO @ Rs. 15.80 per litre	Rs. 96,301
Energy consumption	11,340 kW-hour
Cost of energy consumed @ Rs. 4.50 per unit	Rs. 51,030
Manpower utilized	1360 man-hours
Manpower cost @ Rs. 80 for 8 man-hours	Rs. 13,600
TOTAL OPERATING COST	Rs. 1,60,931

TYPICAL MONTHLY MAINTENANCE COSTS

Replacement of wear parts	Rs. 6,000
Other miscellaneous maintenance costs	Rs. 1,350
TOTAL MAINTENANCE COST	Rs. 7,350

TYPICAL MONTHLY DISPOSAL AND PROCUREMENT COST SAVINGS

Cost of 711 MT of new sand @ Rs. 600 per ton	Rs. 4,26,600
Cost of disposal of 711 MT of used sand @ Rs. 300 for 4 MT	Rs. 53,325
TOTAL SAVINGS	Rs. 4,79,925
NET MONTHLY BENEFIT FROM RECLAMATION SYSTEM	Rs. 3,11,644
Total cost of reclamation package (including dryer and shakeout)	Rs. 45,00,000

PAYBACK PERIOD

▶▶ 14.4 months**

† includes consumption for drying new sand as well as used sand
** excluding depreciation and interest costs



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