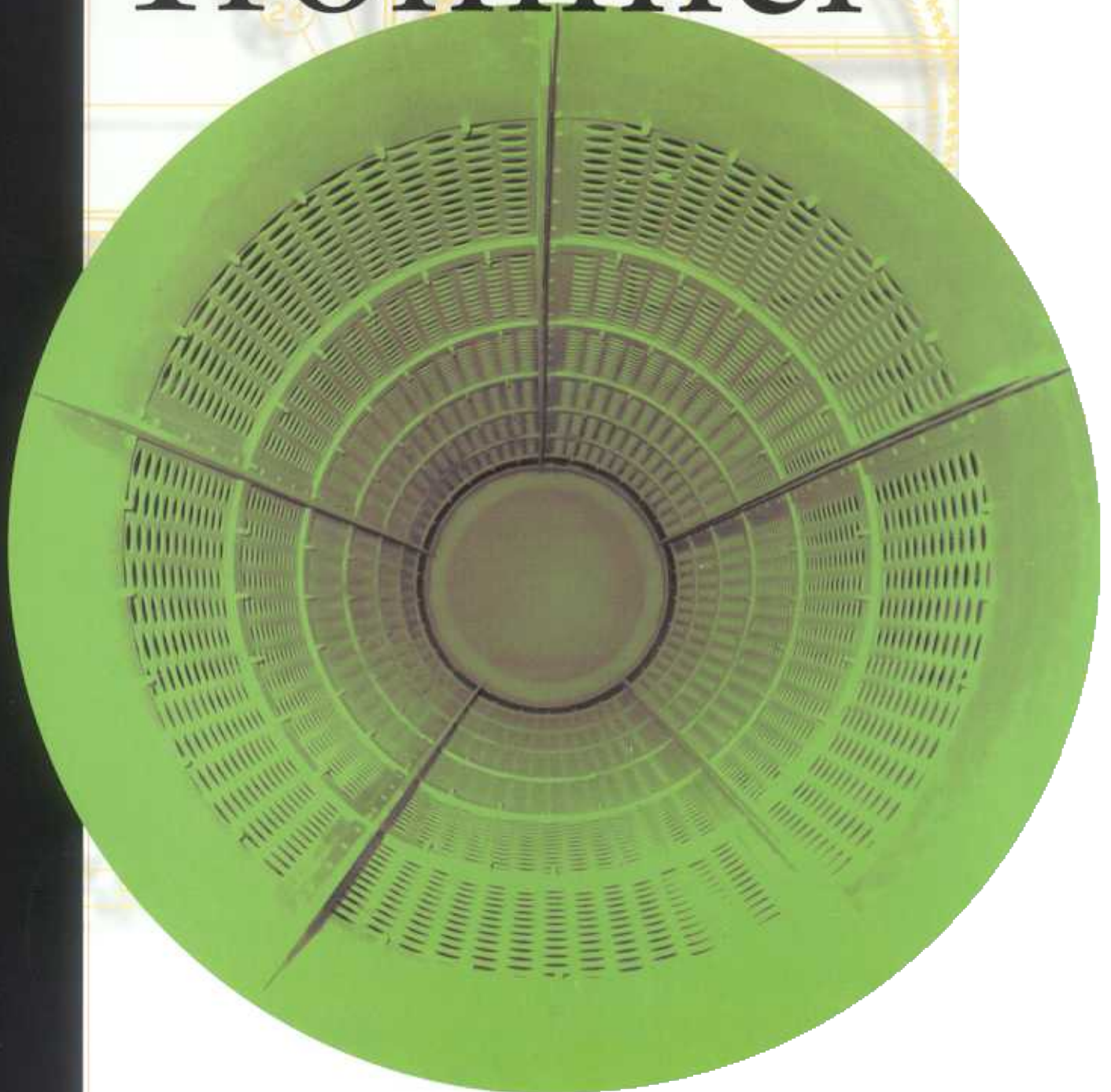




Triple/S Dynamics, Inc

Rotascreeen Trommel



Installations across the US

The
Rotascreen
Trommel is
the best
screening
machine for
resource
recovery.



The tumbling action of the Rotascreen® promotes the passage of undersize particles through the screen. Continuously rolling over the material bed, the Rotascreen opens up the mass to constantly expose the undersize materials to the screen surface. The wide-open drum propels the large, bulky oversize materials found in most waste streams out the oversize discharge. Designed without internal impediments, the clean design of the drum interior resists accumulations of sticks, wire, rags, sheet, damp fines and other materials that accumulate in screening equipment.



Triple/S Dynamics has been in the business of engineering and manufacturing processing machinery for over one-hundred years. Over the last twenty-five years, equipment for resource recovery has become a major focus of the company's commitment.

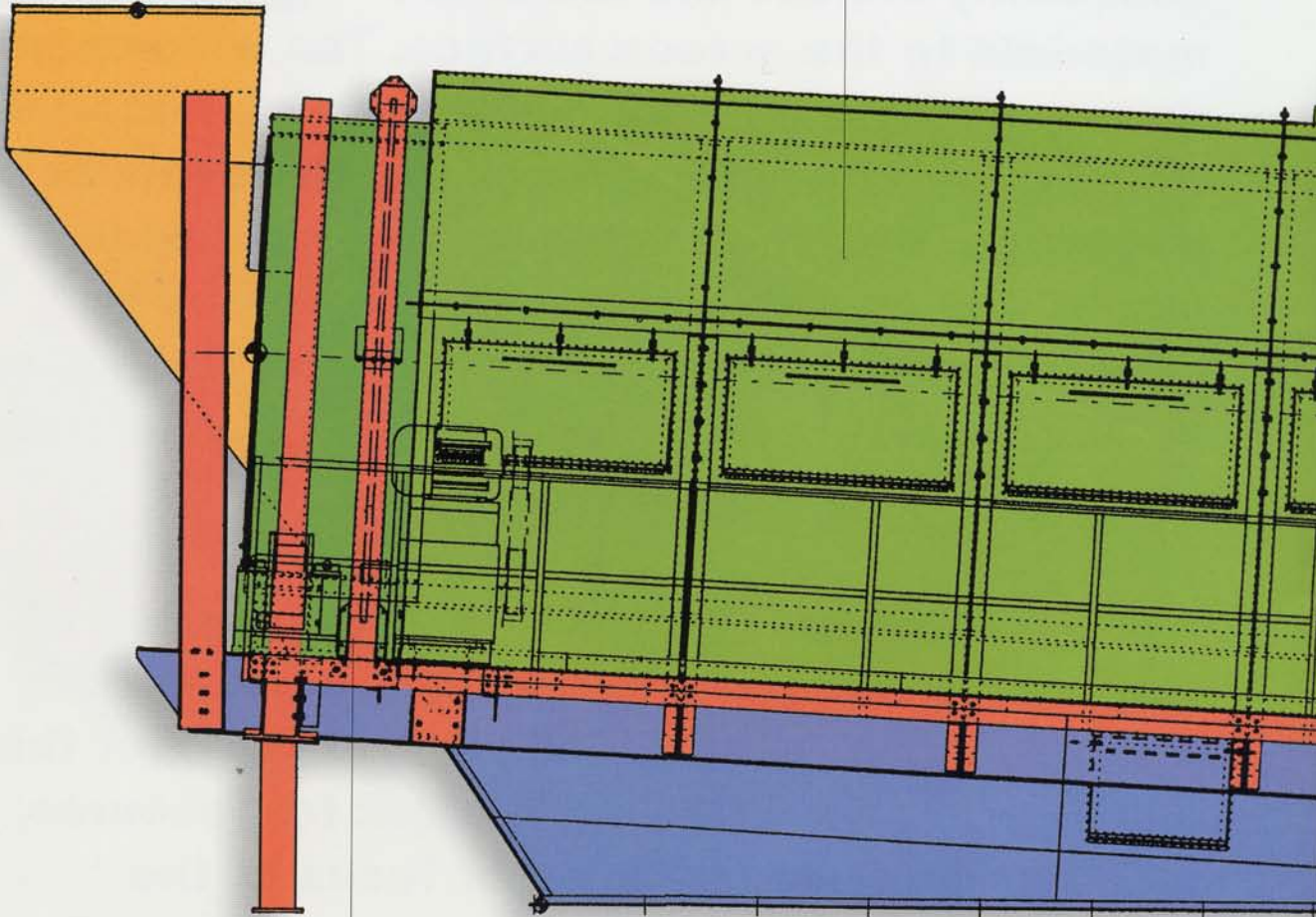


The first Rotascreen Trommel was commissioned in 1975, and since that time a broad range of applications have been satisfied with the best machine features for each purpose. With this extensive experience, Triple/S Dynamics has developed the design and manufacturing expertise to provide the best trommel for recycling.

On larger Rotascreen Trommels, the supporting tires are one-piece ring forgings machine finished and welded to the end shell of the drum. Thrust loads are carried by a hardened alloy steel thrust wheel, bearing against the vertical face of the discharge end tire.



Optional vented dust covers can be supplied for dust control.

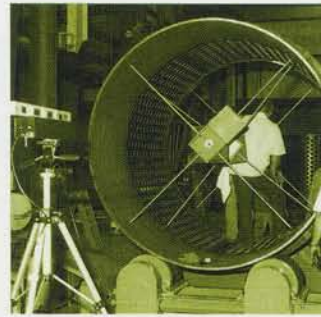


The interior of the trommel screen drum may be fitted with spikes for opening plastic bags of refuse prior to screening the contents. Lifter flights may also be specified for an improved tumbling action, and to increase the capacity of the trommel.

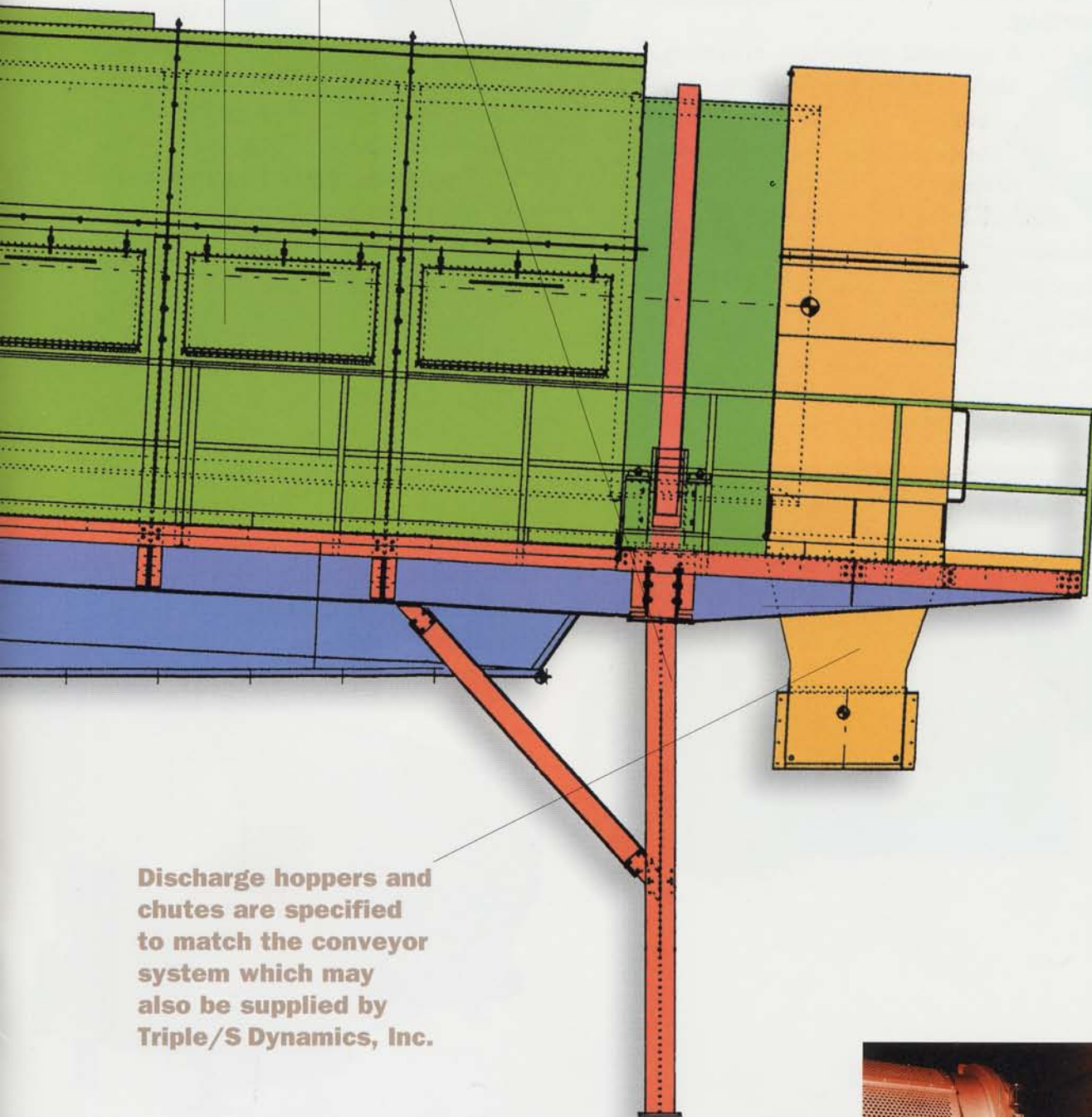


Supporting trunnions are hardened steel castings mounted in spherical roller bearings that allow precise drum rotation.

Rigid support structures, access platforms, and access doors are designed to best adapt the Rotascreen to the installation.



Laser alignment of the drum during assembly assures good balance and concentricity.



Discharge hoppers and chutes are specified to match the conveyor system which may also be supplied by Triple/S Dynamics, Inc.



Rotascreen drives include both the direct chain drive and the trunnion friction drive. Chain drives use a large main sprocket attached to the drum, and a base mounted pinion that is driven through a gearbox by an electric motor. Friction drive trolleys power the drum through the support trunnions.

Municipal Solid Waste Recycling

Fitted with two different sizes of screen aperture, the two-stage Rotascreen is used to remove large oversize for shredding or sorting.

A second, mid-size fraction may also be screened from the refuse stream to provide a concentration of co-mingled recyclables, including aluminum cans. Fine materials are screened out for landfill or for further processing- including air separation with the Triple/S Dynamics Inerts Separator which can be used to separate inorganic materials from the waste stream.



Waste to Energy



The Rotascreen is used to produce a cleaner fuel fraction. Fitted with bag opening spikes, the trommel opens the bags and screens dirt, rock, glass, and other smaller incombustible materials that add to the ash content of the fuel. Screening prior to shredding also unloads the shredder of this finer material.

Screening incinerator ash the Rotascreen will concentrate a ferrous-rich oversize fraction from incinerator ash which improves the efficiency of a subsequent magnetic separation. Equipped with solid plate instead of screen, the trommel drum may also be used for mixing or conditioning system applications for ash, or for scrubbing wet fines from ferrous materials.



Scrap Tire Shreds

The trommel is used to recycle oversize tire shreds back to the shredder for further reduction providing size control of the finished shreds



Construction & Demolition Debris

Recycling building materials with the Rotascreen can yield concentrations of wood and concrete aggregate for subsequent separations.



Compost

Systems for composting MSW or yard waste use the Rotascreen trommel to remove non-compostable oversize and to screen finished compost to marketable size. Bulking agents, such as wood chips can be separated for re-use from composted sewage sludge.



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