



DUAL CHAMBER BALER

Dual Chamber Baler - ToronBale™ Dual

Dual chamber baler processes two separate waste streams side by side in a single machine, so recyclables stay segregated from the moment they are generated. Torontech supplies the ToronBale™ Dual as a compact 3 ton unit measuring 1,600 by 560 mm on the floor and 1,750 mm tall. Each chamber accepts material through a 700 by 500 mm opening. Bales weigh 30 to 60 kg depending on the material loaded.

Space and power draw stay modest. The machine runs on a 0.75 kW motor and weighs 500 kg, which suits installations where electrical capacity, deck loading, or floor area constrain the choice of equipment. A shallow 560 mm depth lets the unit sit against a wall in a service corridor or galley passage. Bale height adjusts between 150 and 400 mm.

Vessels, hotels, resorts, and manufacturing plants use the ToronBale™ Dual for food residue, paper, plastics, and textile waste. Operators sort at the point of generation rather than accumulating commingled material for later separation. That approach preserves the commodity value of each stream. It also removes the sorting labor that mixed collection creates downstream.

APPLICATIONS

Dual Chamber Baler - ToronBale™ Dual Applications

The ToronBale™ Dual fits operations that generate several waste streams in small daily volumes and lack the space for separate machines.

- **Commercial Vessels and Cruise Ships:** separates galley residue from recyclables at source, supporting the waste segregation regimes that govern shipboard garbage handling

- **Hotels and Resorts:** processes back-of-house waste from kitchens, housekeeping, and bar service in a single service corridor unit
- **Restaurants and Catering Operations:** keeps food residue apart from packaging waste, protecting the value of the clean recyclable fraction
- **Manufacturing Plants:** bales two production waste streams in parallel at the point they arise, rather than transporting loose material to a central baler
- **Offshore Platforms and Remote Sites:** reduces the volume of waste awaiting transport where storage and shipment slots are limited
- **Laboratories and Healthcare Support Areas:** segregates general recyclables from other categories in back-of-house service spaces
- **Schools, Offices, and Institutional Kitchens:** handles modest daily volumes without dedicating floor space to two separate presses
- **Textile and Garment Workshops:** bales fabric offcuts in one chamber and packaging waste in the other



Standards

Torontech has no published standards compliance for the ToronBale™ Dual at this time. Buyers who require specific safety certification, marking, or documentation for their jurisdiction or vessel classification should raise this with Torontech before ordering, since available documentation varies by destination market and configuration.

FEATURES

Dual Chamber Baler - ToronBale™ Dual Key Features

The ToronBale™ Dual is built around one design decision, keeping two waste streams apart, with the supporting hardware sized for compact installations.

- **Twin Parallel Chambers:** two materials compact independently on separate cycles, so neither stream waits and neither bale picks up contamination from the other
- **Compact 560 mm Depth:** the shallow footprint lets the machine sit flat against a wall in service corridors, galleys, and back-of-house passages
- **Low 0.75 kW Power Draw:** modest electrical demand suits vessels, older buildings, and sites where spare circuit capacity is limited
- **Large Feed Opening and Chamber:** a 700 by 500 mm opening on each side takes bulky loose material without pre-cutting or repeated repositioning
- **Door Strapping Slot:** an opening in the door lets operators check fill level and pass straps through while the charge stays under compression, locking in bale density
- **Adjustable Bale Height:** bale height sets between 150 and 400 mm, letting operators match bale size to available storage or transfer container capacity
- **Reinforced Ram Guides:** maintain a square platen face when material sits unevenly in the chamber, protecting cylinder seals from side loading

- **NOK Hydraulic Seals:** Japanese-sourced sealing components extend service intervals and reduce seal replacement downtime
- **A.M.C. Oil Pipe Joints:** Japanese-made fittings hold hydraulic connections leak-free across thermal cycling and vibration
- **500 kg Machine Weight:** light enough for installation on upper floors and vessel decks where structural loading limits apply

THEORY & METHOD

Theory and Method

Separation at the point of generation preserves what mixed collection destroys. A clean paper stream sells as a graded commodity, while the same paper contaminated with food residue drops to a fraction of its value or gets rejected outright. Moisture and organic matter migrate quickly once materials sit together in a bin, so the separation has to happen at the moment of disposal rather than later at a sorting station. Two chambers make that possible in one footprint.

Single-chamber machines force a choice that dual chambers remove. An operator baling paper cannot accept plastic until that bale is finished, tied, and ejected, so the second stream accumulates loose nearby or goes into the chamber and contaminates the bale. Parallel chambers let both streams compact independently on their own cycles. Neither material waits, and neither one enters the wrong bale.

Compaction here works within a short stroke rather than through high pressure. Chamber height runs 728 mm and finished bales fall between 150 and 400 mm, so a small number of strokes fills each chamber. Ram guides hold the platen square as material distributes unevenly across the relatively wide 700 mm face. A slot in the door lets the operator watch fill level and pass strapping through while the platen still holds the charge under load, which locks in density before the material can relax.

TECHNICAL SPECIFICATIONS

Dual Chamber Baler - ToronBale™ Dual Technical Specifications

Parameter	Specification
Press Force	3 tons (approx. 29 kN)
Number of Chambers	2
Feed Opening Size (L × W)	700 × 500 mm
Chamber Size (L × W × H)	700 × 500 × 728 mm
Bale Size (L × W × H, H adjustable)	700 × 500 × (150 to 400) mm
Bale Weight	30 to 60 kg
Motor Power	0.75 kW
Machine Weight	500 kg
Overall Dimensions (L × W × H)	1,600 × 560 × 1,750 mm
Materials Handled	Food residue, paper, plastics, textile



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