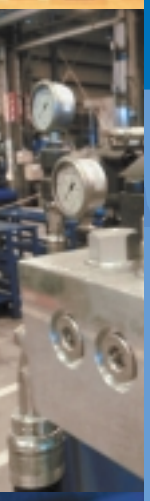
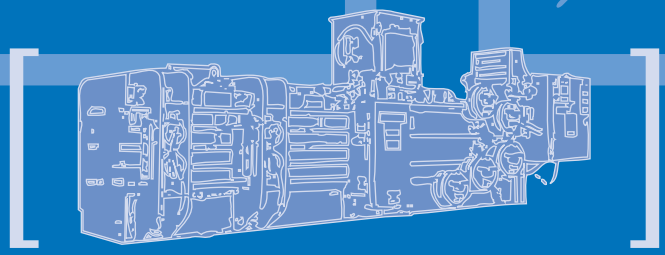


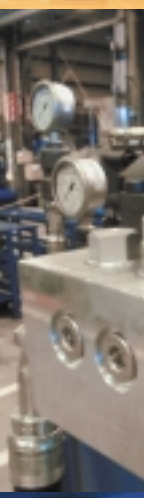
BALEMASTER

automated baling system

automated baling system



Balemaster®
World's Best Balers



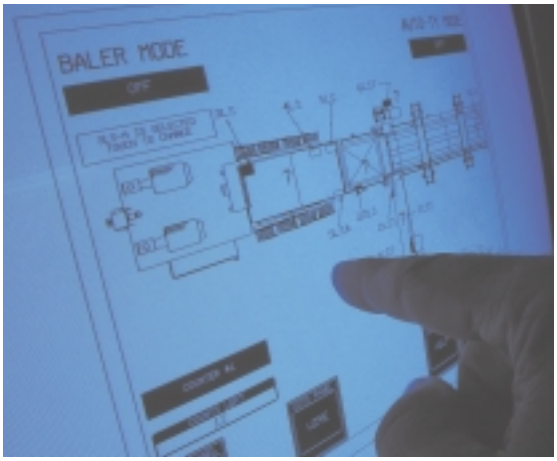
automated baling sys

BALEMASTER does it all for you

More than just a baling press for compacting and bundling waste materials, the Balemaster Auto-Ty Baler is a complete automated baling system. From in-feeding waste to off-loading bales, the Balemaster Auto-Ty System lets you manage and dispose of waste quickly, easily and, most of all, cost-effectively.

Cuts time & labor to save you a bundle

The Balemaster Auto-Ty System greatly reduces the time and manpower needed to properly dispose of waste materials. The Auto-Ty feature takes less than 30 seconds to tie a bale, eliminating higher labor costs associated with hand-tying. But saving labor is just part of the story. Instead of paying to dispose of your waste materials, the Balemaster Auto-Ty System makes you money by compacting them into convenient, easy-to-handle bales that you can sell to a recycler. That's not only good for the environment, it's great for your bottom line.



A touch is all it takes

Easy-to-use touch screen controls put everything you need right at your fingertips. No more searching for the service manual. No confusing knobs, buttons or two-line displays. All diagnostic messages instantly appear on the screen, eliminating physical troubleshooting, while an operator-friendly interface lets you perform a wide variety of functions. If a problem occurs, you can select from over 50 screens to provide immediate assistance. All screens feature bright, clear graphics and easy-to-follow directions to make operating a breeze.

Balemaster keeps you on the right track

The Balemaster Auto-Ty Baler is a complete automated baling system that tracks the status of the entire baling process from start to finish. An Allen-Bradley PLC-programmable logic controller provides a full range of performance tracking and system functions, including up-to-the-minute data on all critical system operations:

- ***Waste production tracking***
- ***Maintenance hours tracking***
- ***3 separate bale counters***
- ***Tier twists and untwists***
- ***Total pump hours***
- ***Total baler hours***

More messages = less maintenance

Timely information is the key to optimal system performance. A full assortment of clear, easy-to-read messages keep you informed so you can react to potential problems before they occur. The result is a dependable system that runs more smoothly, reduces costly downtime, and requires less maintenance for even greater savings.

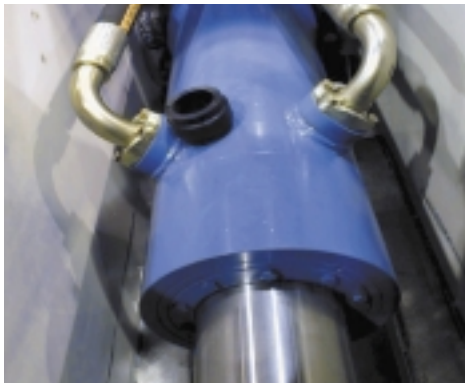
Error Messages

- ***Oil low***
- ***Oil hot***
- ***Ram cycle incomplete***
- ***Auto-Ty chain slack***

Baler Status Messages

- ***Ram advancing & retracting***
- ***Inserter advancing & retracting***
- ***Twisting & untwisting***
- ***Wire run out***

tem



Twists and ties in no time

Heavy-duty components twist bales tight for easy handling and stacking. For maximum reliability, the Auto-Ty Inserter and Auto-Ty Twister are driven by an electric motor with brake, providing precise control. Unlike hydraulic tiers that experience drifting and timing problems due to contaminated hydraulic oil, the Auto-Ty's electrical/mechanical design offers clean, trouble-free operation.

Additional Auto-Ty features include:

- ***The heaviest twister hooks in the industry, for reliable, long-lasting performance day-in and day-out. The hooks are also reversible, eliminating left- or right-hand requirements.***
- ***To save valuable floor space, the automatic dispensing wire coil holders are mounted right on the baler. Four, five, and six Ty systems are available, depending on the application.***
- ***A "short bale" option on the touch screen allows you to tie-off a bale at any time.***

Superior Dust Control

A tightly engineered design and advanced dust control features combine to make the Balemaster Auto-Ty Baler the cleanest operating system in the business:

- ***An encapsulated frame prevents dust and scrap from discharging into the plant.***
- ***Baling ram wiper blades help contain scrap within the baling chamber.***
- ***PLC programming controls the ram stroke during the baling process, holding dust within the bale.***
- ***Tapered locking handles create a dust-tight seal on the gasket of the feed chute door.***

Efficient Hydraulics

Hydraulic power units use regenerative circuits to maximize throughput capacity and save energy:

- ***A side density tensioning system adjusts automatically when a material grade change is made. Once the recommended baling pressure is set, no further adjustments are needed.***
- ***The trunnion-mounted main cylinder requires less maintenance on seals and O-rings.***
- ***Optional dual motor/pump combinations provide efficient operation. During peak demand periods, both motors engage automatically to maximize capacity; during off-peak periods, a single motor is used to conserve energy.***

Balemaster®
World's Best Balers

BALEMASTER

automated baling system

Normal baling

The baling ram cycles between the stored (rear) position and a forward limit switch which stops the ram before the end of the full forward stroke. This foreshortened stroke prevents the seal between the side walls of the baler and the material being baled from being broken, thereby controlling dust and blowout. The ram reciprocates between these two positions until a bale is formed to a preset length.

Auto-Ty needle insertion

After the bale is formed to length, the counter signals the Baler to tie off the bale. The ram proceeds to the full forward position (beyond the normal baling stroke above) to the tie off position. Two separate limit switches must be activated before the Auto-Ty sequence will commence. After the two separate limit switches are activated, the needles insert wires through the ram into position in the tying head.

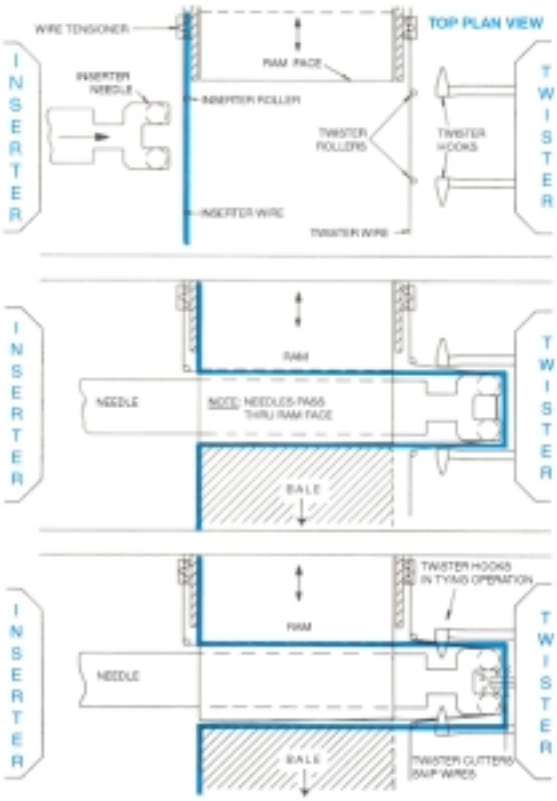
Note: The wires are guided by rollers for proper tensioning and at each change of direction for a positive and smooth operation. The wire ties are made at the side of the needles to prevent contamination of the ties by material.

Auto-Ty tying

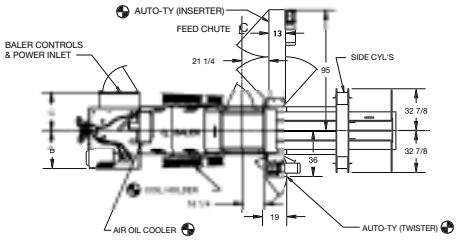
With the wires in position, the twister head rotates and all wire positions are simultaneously twisted and cut. After cutting, the twister continues to rotate, twisting the two wires together to form two knots at each of the positions, one for the completed bale and one for the new bale to be formed. After the tie is completed, the twister reverses to disengage the knots, the needles retract, the bale length counter is reset to the preset length, and the baler is ready to form a new bale.

ALL OF THE ABOVE IS ACCOMPLISHED IN UNDER 30 SECONDS.

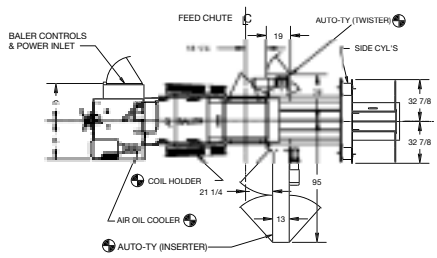
As we constantly strive to improve our product, specifications are necessarily subject to change without notice.



LEFT HAND AUTO-TY ARRANGEMENT



STANDARD AUTO-TY ARRANGEMENT



Balemaster®
World's Best Balers

Division of East Chicago Machine Tool Corporation
980 Crown Court | Crown Point, IN 46307 | phone: 219.663.4525 | fax: 219.663.4591
e-mail: sales@balemaster.com | www.balemaster.com

Licensee in Europe: Balemaster Europe B.V., Nuth, Holland | phone: 011.31.45.524.4343