

FEATURES & BENEFITS

Maren 2R425-100 Two-Ram Automatic Horizontal Shear Baler

Hydraulics

	Feature	Benefit(s)
Pumps (1)	Maren uses dual (2) highly efficient 100 gpm HP limited pressure compensated piston pumps. These pumps operate at only 4,500 psi yet are capable of 6,100 psi.	Maren maintains a huge safety factor by operating the pumps at just over 70% of their rated pressure.
Pumps (2)	Maren pumps are flooded suction mounted below fluid level, but external from the tank.	Flooded suction ensures you never have a dry start-up yet the external mounting allows simple and easy access for maintenance.
Low Oil Detection	Oil level is monitored and the baler main pump motor will be shut down in the event a low oil condition is detected.	The feature prevents the baler from pumping the reservoir out onto the production floor in the event of a hose or component failure.
Over Temperature Detection	Oil temperature is monitored and the baler will automatically drop out of automatic operation and go into a cool down cycle if overheating is detected.	Proper preventative maintenance will reduce the chances of this alarm ever activating. This action automatically take when this alarm is triggered will limit further damage to the motors and pumps. This alarm will be audible and will also appear on the baler controls.
Clogged Filter Detection	Oil filter backpressure is monitored and will alarm the operator if the filter becomes clogged.	

Baler Construction

	Feature	Benefit(s)
Ram Penetration	Ram penetrates baling chamber to within 8" of the end wall.	This dramatically increases the bale weights at any given bale force by fully compacting each lamination.
Bale Separation Door/Sizing Door	Bale Sizing Door allows ejection of up to a 13" oversized bale	Facilitates instant material changes and virtually eliminates cross contamination between bales.
Main Cylinder Mount	Keylock cylinder mount	Unique Maren key lock cylinder mount allow for a steel-to-steel flange mount where cylinder mounting bolts are never put in tension by the cylinders baling force.
Shear Blade	Hardened and ground tool steel shear blades on both ram and chassis. Both blades are reversible to provide double the life before replacement.	Chassis blade is shimmable and does not require adjustment after factory shim. Shear gap adjustment is maintained by shimming the ram guide shoes as the floor and guide bearings wear. This process is simple and quick to perform by side service access door in bale chassis.
Baler Weight	109,350 lbs.	This structurally superior frame was built to take on the everyday abuse and outlast the its competitors shelf life.
Clear Opening Size	57.5" x 100"	The clear opening on the 2R425 allows it to be fed over the side with up to a 96" conveyor.

Performance

	Feature	Benefit(s)
Motor(s)	Triple 60HP (150HP Total) NEMA Premium Efficiency Motors	Our motors reduce energy losses by between 10% and 40% compared with other typical motors. It's an extremely effective way to reduce your carbon footprint, as well as your energy costs.
Bale Size Adjustability	30" and 60" fixed, 48" touch screen adjustable. Non-expanded variable from 38" to 50" will yield expanded bale widths from 38" up to 51"	Bale width adjustability is extremely important for maximizing trailer and sea container loading of lighter materials like plastics and aluminum.
Ram Face Pressure	250psi @ 4,500psi	
Overall Cylinder Force	427,649 lbs.	The advanced and upgraded hydraulic system allows the 2R425 to maintain this ram force with the use of a 11" cylinder. Most 11" cylinder balers on the market run at 3,000psi not 4,500psi, driving their ability to maximize the efficiency of the baler motor(s) down (typically around 45%).
Cycle Time (No-Load)	21 seconds	No-load cycle times only tell the story of how fast the baler will be if there is no material in the chamber. The limited horsepower compensating piston pumps we equip our ProPAK balers with allow the cylinder to keep moving forward faster at a consistent force throughout the entire stroke of the cylinder,
Ram Dwell Time Adjustments	Both ram forward and ram home dwell times are user adjustable for each material recipe saved in the Smartbale touch screen.	The adjustable ram forward dwell time is very useful when "dewatering" materials or squeezing liquids from punctured cans, bottles or containers.
Shear Jam Prevention	Yes	Automatic shear jam prevention attempts shearing multiple times to self clear a shear jam. Ultimately if the jam cannot be cleared automatically the baler will drop out of automatic mode and alert the operator with an audible and visual signal.
Hopper Bridge Detection	Automatic detection and clearing of material bridged in transition hopper.	Maren baler automatically detects if hopper bridging has occurred and attempts to clear the material before alerting operator.
Baler Controls	Pedestal-mounted controls allow it to be positioned wherever the customer requires it as long as the operator has a clear view to the eject door.	Maren baler has 10.4" touch screen electronic control panel to allow for storage and recall of saved programmed material settings, including bale size, wire count, wire placement, photo-eye selection and current bale statistics.

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Maren 2R425-180 Two-Ram Automatic Horizontal Shear Baler

Material Recipes

	Feature	Benefit(s)
Size Adjustment & Weight	Saved programs allow you to adjust the bale size and baling force settings for each unique commodity.	By being able to adjust the bale size and baling forces for each commodity you will be more efficient in loading trucks.
Photo-Eye Selection	Saved programs allow you to select which photo-eye will cycle the baler.	By being able to adjust which photo-eye cycles the baler you be more efficient in how you process each commodity.
Load Above Platen	Loading above platen holds the main ram forward while the the hopper fills to the upper photo-eye.	This feature is very important when baling resilient materials. By holding the main ram forward you will have less "spring back" of the material into the bale chamber resulting in more material per ram cycle.
Wire Count & Placement	Programmable wire count and placement adjustment.	Each commodity has a 4 saved wire settings: 1) distance from front of bale to 1st wire, 2) distance from back of bale to last wire, 3) total wire positions, and 4) # of wires per position.

Safety & Service

	Feature	Benefit(s)
Service Access	Includes electrically interlocked service access door to allow access behind the ram. 24" x 24" minimum door size.	For ease of access for servicing.