



Channel Baler Range



Introduction

HDM Engineering Services Ltd are very proud to be the UK and European Distributors of C & B Solutions.

The new range of Channel Balers from C & B Solutions are the result of over 20 years of design and development by their founder, Tony Tai.

In his many years of design and manufacturing of these machines he realised where the early more traditional baler of this type were lacking for the demands on industry today. Whereas, in the past these machines were used mainly for paper and cardboard, they soon started to be used to bale just about anything from steel cans to hard mixed plastics.

C & B Solutions set out to create a baler that could cope with the vast range of materials that previous models struggled with. By drawing on this knowledge, they set about improving their machines where other manufacturers stood still.

Overview

The new multi links neck clamping mechanism allows for more uniform bales on difficult materials such as hard plastics. This also means higher bale weights can be achieved on this type of product.

Possibly the most useful and cost saving introduction is the adjustable height platten. This new innovative design runs on Hardox 500 adjustable steel and enables simple, rapid adjustment of the shear blade gap. This method saves time and money and with no wheels means that the pressure of the shear is spread over a large surface area reducing wear considerably.



Monitoring of the machine and its functions is provided by means of a Human Interface Screen (HMI). This makes material selection and alteration a simple process. The use of an encoder allows the position of the platten to be accurately determined on the HMI by the operator.

Cross tying makes the baling and handling of difficult materials much easier. Operators have the option when changing materials, from for example, Card or Paper with 4 or 5 horizontal ties (depending on the baler model) to Plastics. When selected on the HMI, the baler will automatically engage the vertical tie unit adding an additional 5 vertical ties, cross tying the bale. Less wire breakages, heavier bale weight, easier to handle.

On higher specification models, the floor of the machine is Hardox 500 plate and the floor and ram platten are castellated to prevent materials pushing under the platten.

All these points considered, it is clear that this range of machines is perfectly poised to thrive in today's modern world. These cost effective, reliable and well-engineered machines will give years of service backed up by HDM Engineering Services Ltd, a long standing UK company with over 30 years of baling engineering experience, at its core.



CS 50 L Range

This machine is an entry level baler with a throughput of 3 to 8 tons per hour depending on materials and consisting of the feed process.

It is available in 30 or 40 horse power and can be specified as horizontal tie, vertical tie or a combination of horizontal and vertical tying.

The 2-way tying is especially suited to materials that are awkward to bale with single direction tying such as mixed plastics and bottles.

The throughput of this machine is up to 8 tons per hour depending on product and machine specifications.



CM 70

The CM 70 is a slightly toned-down version of its CM 90 stablemate with a reduced pressure of 70 tons force and only available with basic conventional controls.

The machine is only available with horizontal tying. It is ideally suited to an environment that is less intensive in terms of production. Warehouses and Distribution Centres will find this budget targeted machine a fantastic servant where the workload is not 24/7 production baling.

Bale sizes are the same as the larger CM 90 machine but in terms of cost, this machine is considerably more cost effective.

CM 90



The CM 90 Channel Baler is the most appealing baler for the majority of applications. It sits prominently in the mid to high range of the series as it can bale just about any 'baleable' product you can throw at it. It is designed to thrive in a high production environment and has a specification that will leave most balers of this size in the shade.

This machine can be specified with Hardox 500 wear plate, a castellated floor reducing ingress of materials under the platten. There is also the option of vertical tying, which when baling mixed plastics will increase the containment of the bale and aid handling. The platten unit has adjustable skids which are easily accessible meaning that shear blade adjustment is a simple process that can be done with reduced down-time.

There are many features on this baler that have been carefully thought out and tested from the hydraulic twister motor to the (no limit switch) encoder ram position system. It is with good reason we believe that this will be the baler of choice for many of our clients.

The CM 90 range offers a wide span of options and has the ability to bale at a capacity of up to 15 tons per hour (depending on material and feed process).

CL 120/150 Range

Sitting at the top of the Channel Baler Range is the CL 120 and CL 150. This huge machine is for the high throughputs demanded by large waste transfer sites and medium to large recycling plants. It is capable of baling up to 25 tons per hour (depending on material and feed process).

This machine has everything the CM 90 machine has but will have the power to do even more.

It can be specified with a massive 2400mm feed opening with a pressing force of 150 tons producing large, dense bales. The machine can be ordered with cross tying as an option giving the ability to put 10 straps on a bale. The perfect solution to hold and handle different products reducing the need for re-baling. The CL Range has the ability to do a lot more for much less than similar specification inferior machines.



Glossary of Terms



ST	Stroke Length of Cylinder eg. 1800/2100/2400/3000mm						
D	Cylinder Bore	180	200	224	250	300	
	Pressuring Force (Ton)	50	70	90	120	150	
HP	Horse Power	30 CS 50 Only	40	60	80	120	180
CS	Small Range	50 Ton					
CM	Medium Range	70 Ton or 90 Ton					
CL	Large Range	120 Ton or 150 Ton					
H	Horizontal Tie	Horizontal Only					
V	Vertical Tie	Vertical Only					
C	Cross Tie	2 Way Tying					

CS Bale Size	750 x 750 x 1200 Variable
CM Bale Size	1100 x 750 x 1500 Variable
CL Bale Size	1100 x 1100 x 1800 Variable
Bale Density kg/m ³ CS Range	450 - 500
Bale Density kg/m ³ CM Range	500 - 600
Bale Density kg/m ³ CL Range	500 - 600

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