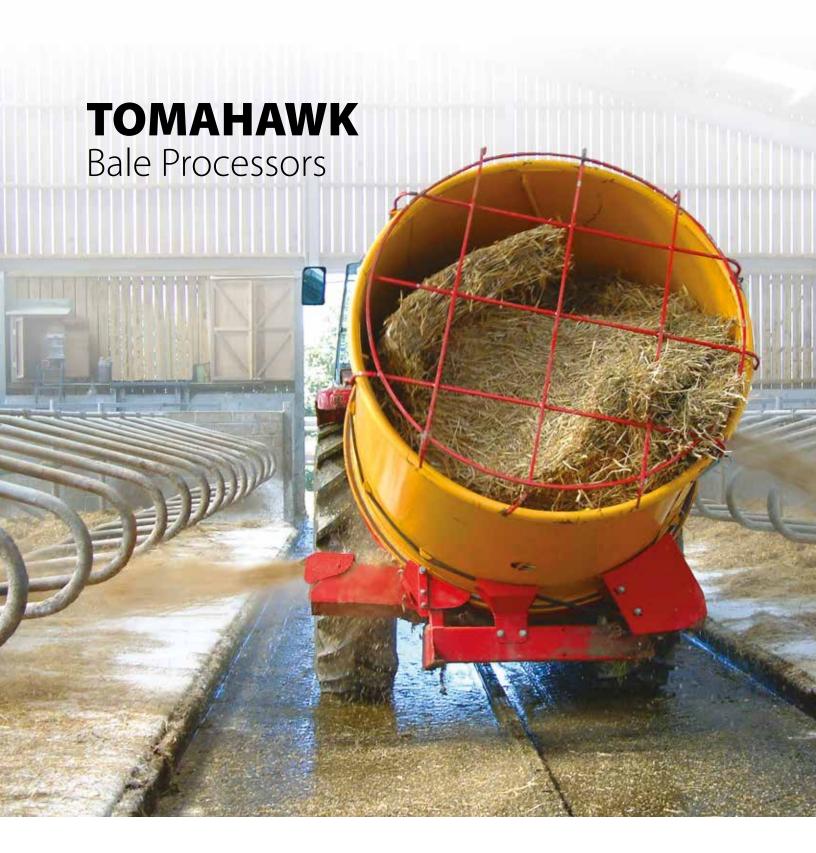
# **Tomahawk**

**Bale Processors** 

# <u>Teagle</u>





The Tomahawk range of Bale Processors. First for quality, performance and reliability.





Teagle Machinery Ltd was established over 75 years ago, manufacturing the first Tomahawk bale shredder in 1983. We remain a family business focussed on meeting the needs of our customers whether just around the corner, or in one of the 35 countries worldwide to which we regularly ship machinery. From the outset, our machinery has been designed to be simple, robust and easy to use. We still stand by these values, with all our products being tested extensively on farms throughout the world to ensure that they perform reliably day-in dayout, even under the toughest conditions. As sales of Tomahawk Bale Processors continue to grow, the reasons that customers return time after time to buy Teagle are twofold:

**Product Focus** - We actively invest in research, design and manufacturing

technology to ensure that our product range constantly evolves to remain at the cutting edge, whilst being available at a competitive price. With the largest range of models from any manufacturer we ensure that our customers benefit from ease of use, the best performance, and day-in day-out reliability. Through our 35 years experience in the design, manufacture and support of Tomahawk Bale processors, Teagle are recognised internationally as a specialist in this field.

**Backup** – After-sales support is our priority, requiring commitment to a comprehensive parts stock and effective Dealer network. We set aside part of our 269,098ft<sup>2</sup> facility in Cornwall to a substantial stock of wearing and non-wearing parts to keep you up and running.

# <u>Teagle</u>



**400 Series** 404M/4040



**400XL Series** 404XLM/4040XL



**500 Series** 505M/5050



500XL Series 505XLM/5050XL

# **Applications**

# Why own a Teagle bale processor?

For Processing

Pre-process straw for feed.

**Achieve consistency** - provide a consistently short and palatable feed component.

**Process on demand** - no need to stockpile.

**Improve efficiency** - reduce operating time of mixer wagon.

**Prevent over-processing** - of silage in a Total Mixed Ration.

For Bedding

Cleaner and healthier livestock lightly shredded straw improves moisture absorbance for cleaner lying areas.

**Save straw** - users regularly report up to 30% savings by spreading the correct amount of straw evenly across the bedding area.

**Labour saving** - one person can quickly and easily bed livestock.

Safer - no need to enter the pen.

**Better Manure** - straw is evenly incorporated into the muck.

For Feeding

**One machine, two jobs** bed down and feed with the same machine.

**Versatility** - If you can bale a crop, we can shred it! Feed clamp or baled silage, hay and root crops.

**Improve palatability** - users report increased feed conversion of shredded bale silage.

**Reduce wastage** - selective feeding/sorting is reduced.



# Select the drum to suit your bale size

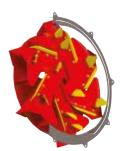


MODEL	<b>400</b> Series	<b>400XL</b> Series	<b>500</b> Series	<b>500XL</b> Series
DRUM				
Diameter Length Optional Length	<ul><li>5′1″</li><li>5′1″</li><li>6′1″</li></ul>	<ul><li>→ 5′1″</li><li>→ 9′8″</li><li>−</li></ul>	→ 5′9″ → 5′1″ → 6′1″	→ 5′9″ → 9′8″ -
BALES				
ROUND 1.2m (4') 1.5m (5')	1 x bale capacity	2 x bale capacity	1 x bale capacity 1 x bale capacity	2 x bale capacity 2 x bale capacity
<b>RECTANGULAR</b> 4' x 3' x 8' 4' x 4' x 8'	- -	1 x bale capacity	<del>-</del>	1 x bale capacity 1 x bale capacity

# Select rotor type



MILLING
TMR/Cubicles/Poultry/Pigs
Short Straw 3/8" - 5"



**CHOPPING**Loose Housed Bedding/ Feeding
Long Straw/Silage/Hay

400 Series Model	404M	4040
400XL Series Model	404XLM	4040XL
500 Series Model	505M	5050
500XL Series Model	505XLM	5050XL



Milling system

Interchangeable screens made in Hardox® wear plate enable calibration of Straw / Dry materials from <sup>3</sup>/8" to 6" (recommended moisture content <20%). Process and discharge material to either side of the machine.









\*\*For extended service life interchangable screens use Hardox® wear plate

Available with blades to cleanly chop, or hammers to grind.



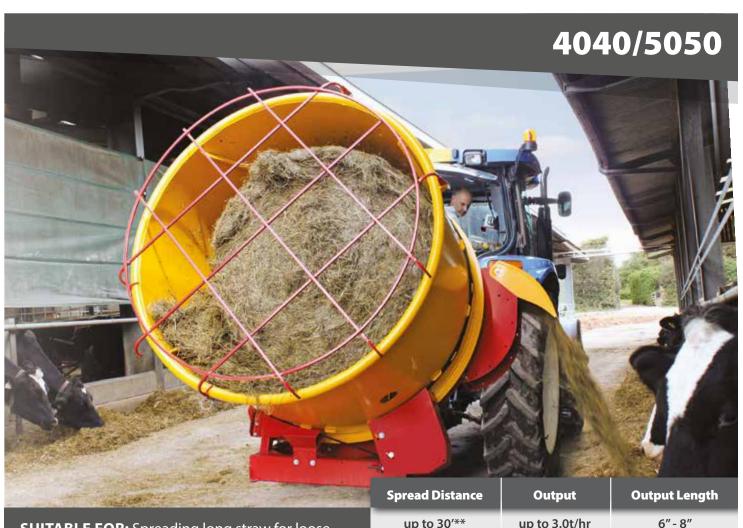






MODEL	Α	В	С	Round Bales	Rectangular Bales	Min.	lbs	PTO*
404M	7′2″	7′9″	10′	1 x 4'	-	80	1992	1000
404XLM	8'4"	12′4″	10′	2 x 4'	1x (4'x 3'x 8')	120	2473	1000
505M	8′	7′9″	10′	1 x 5'	-	80	2138	1000
505XLM	9'2"	12′4″	10′	2 x 5'	1 x (4' x 4' x 8')	120	2910	1000

Swivel Giraffe Chute	0	Hydraulic Deflectors	0	Hydraulic Top Link	0
Giraffe Chute	0	Strawberry Chute Kit	0	Lower Chute Kit	•
Quick Hitch A-Frame	0	Fine tailgate mesh (400/500 series)	0	Wide Angle PTO	0



**SUITABLE FOR:** Spreading long straw for loose housing or dispensing Hay / Silage for feeding

# Chopping system

Even the toughest bales can be processed with ease. The robust chopping rotor shreds material from round or rectangular bales and delivers a steady feed to either side of the machine\* Also suitable for root crops.







up to 30'\*\* Long blades chop material Rotor delivers a steady feed rate, even with wet material

up to 3.0t/hr

Triangular blades tear bale apart









MODEL	A	В	С	Round Bales	Rectangular Bales	Min.	lbs	PTO*
4040	7′2″	7′9″	7′7″	1 x 4'	-	80	1787	540/1000
4040XL	8'4"	12′4″	7′7″	2 x 4'	1x (4'x 3'x 8')	120	2268	540/1000
5050	8′	7′9″	7′7″	1 x 5'	-	80	1933	540/1000
5050XL	9'2"	12'4"	7′7″	2 x 5'	1 x (4' x 4' x 8')	120	2705	540/1000

Swivel Giraffe Chute (straw only)	0	Hydraulic Deflectors	0	Hydraulic Top Link	0
Silage Giraffe Chute	0	Strawberry Chute Kit	0	Lower Chute Kit	0
Quick Hitch A-Frame	0	Fine tailgate mesh (400/500 series)	0	Wide Angle PTO	0



the turbo fan enables centralised processing and remote transfer of milled material via a flexible hose and/ or fixed manifold system.















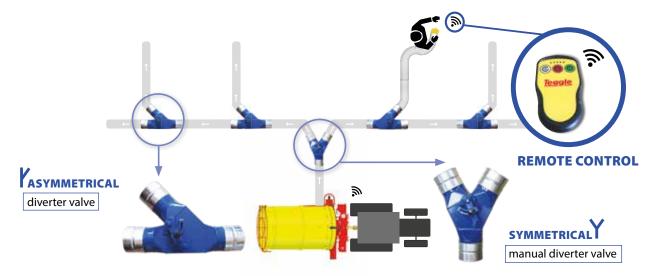


MODEL	Α	В	С	Round Bales	Rectangular Bales	Min.	lbs	PTO*
T500BM	8'0"	8'4"	10'3"	1 x 5'	-	80	3064	1000
T500BXLM	9'2"	13'0"	10'3"	2 x 5'	1 x (4' x 4' x 8')	120	3703	1000

Rearward deflector	0	Liquid spray kit	0	65' hose kit (5")	0
Duct Divertor Valves	0	Trailed Chassis	0	Radio Remote control	•
WAJ PTO	•	Fine Mesh tailgate	•	Dust sealing kit	•

# Remote control and optional manifold components

As standard the T500BM is supplied with a radio remote control to enable the operator to start/stop material flow up to 98' from the machine. Options include 65' lengths of flexible hose (5") and high specification mechanical diverter valves to enable assembly of bespoke fixed manifold systems.



# Liquid Spray Kit

#### **DUST SUPPRESSION FOR DRUM TOMAHAWKS**

The liquid spray kit can be fitted to any model in the 400 - 500 Tomahawk range to reduce dust from milled straw, or to enable the application of anti-bacterial products to bedding.



#### **TANK**

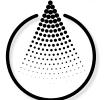
- Suitable for Water / Antibacterial liquids
- 15.8 us gallon capacity
- Robust polypropylene
- 12 volt pump system up to 60 psi
- Tank includes drain point



#### SPRAY SYSTEM

- Flow activated when T500BM starts
- Manual Valves control flow to LH/RH sides
- Pressure / Flow adjustment
- Maximum 3 nozzles per system
- Anti-drip nozzles





T500B fitted with trailed chassis (see page 9) and spray kit.

## HIGH PRESSURE LIQUID SPRAY SYSTEM

 Apply disinfectant to bedding or water for dust reduction

## Features



#### ROUND AND RECTANGULAR BALES

4' or 5' round bales, with drum extensions available for 8' rectangular bales.



#### DISCHARGE TO ONE OR BOTH SIDES

Chutes can be open or shut independently. Various chutes are available for special applications, see options on page 8.



#### STRAIGHT-FORWARD LOADING

Horizontal drum can easily be loaded. A hydraulic top link enables easy adjustment of drum angle.



#### **MANOEUVRABLE**

Machine weight is close to tractor, ensuring manoeuvrability even with smaller tractors.



# EASE OF OPERATION

Simply start the cutting rotor, and then adjust the drum speed of rotation to control the discharge rate.



#### ACCESSORIES FOR EASE OF USE

For easy hitching-up and adjustment of the drum angle select the optional A-Frame attachment and hydraulic top link.

## Suitable for feeding and bedding

**MILL, CHOP OR SHRED.** Rotors available for straw, hay, silage and root crops.

#### CHOP STRAW SHORT



#### SPREAD LONG STRAW



#### CHOP HAY SHORT



#### DISTRIBUTE BALED SILAGE



- · Poultry & cubicle bedding
- TMR Pre-processing
- Loose housing
- · Landscaping/Mulching
- TMR Pre-processing
- Barrier Feeding
- TMR Pre-processing
- Barrier Feeding

# Options



#### STRAW GIRAFFE CHUTE

Increase delivery height and blow distance. Dry materials only.



#### SWIVEL GIRAFFE CHUTE

Increase delivery height, available with hydraulic rotation and deflector. Dry materials only.



#### SILAGE GIRAFFE CHUTE

Increase delivery height and blow distance.



# HYDRAULIC DEFLECTOR CONTROL

Available for all chutes except lower chute kit.



# STRAWBERRY CHUTE KIT

Quickly and conveniently lay straw mulch between rows on both sides of the tractor, the chute kit can be fitted to the discharge chutes on both sides of the machine.



# HYDRAULIC TOP LINK

For straightforward, in-cab adjustment of drum angle and feed rate. Not suitable for XL models.



# LOWER CHUTE KIT

Required for delivery to left hand side of machine. Dry materials only. Includes open/closed control.



#### TAILGATE MESH

Available for all models to improve containment.
Standard on T500BM.

## Trailed Chassis



#### **TRACTOR REQUIREMENTS**

Hydraulic services: 2 double acting services required (pivoting axle and drum rotation). Minimum Tractor size (PTO): 80HP for chopping/100HP for milling.

Dimensions	400XL	500XL
Overall Height Lowered	114"	124"
Overall Height Raised	130″	140″
Overall Machine Width*	80″	80"
Overall Length (with Tomahawk)	191″	191″
Clearance Under Chassis**	8″	8″

\* Chassis kit width – for Tomahawk widths refer to page 12

\*\* Drawbar height 18"



**THE HEINIGERS** purchased a Teagle 505M for adding fiber to the ration. They use 2.5kg of dry hay per ration for the lactating cows and 6.5kg for the cows in calving preparation. They shred 30 large square bales a month, dry storing and used daily for adding to the self-propelled mixer along with silage.

"The cut must be absolutely uniform to avoid

the cows sorting through the ration and the clean cut ends help to scratch the rumen of the cow and improve the assimilation of nutrients in the diet. Adding fiber to the diet improves the balance between protein and energy. "It's like a triangle, you need to get the best balance between protein, energy and fiber to have the best results." Getting more fiber into the diet also has other benefits, as well as increasing

the butterfat by .2% after only 2 weeks it has added health benefits of improving the BHB levels and fertility and there has been a marked decrease in problems with acetonemia (glucose deficiency). Labour time is reduced by the simplicity of operation and maintenance, making it faster and safer than a forage harvester along with the added benefit of it being more affordable.

# The key is consistency

# The benefits of adding processed straw to a TMR



"Our results show how beneficial consistently pre-processed straw is in obtaining good dry cow intakes, even over straw that is mixed well in a wagon."

James Johns (pictured) farms a herd of 260 high performance Holsteins at Sixty Acre Farm, UK.

- In dry cow rations straw can be used to control energy intake and reduce the risk of milk fever.
- In milking cow rations straw can be very useful as physically effective fibre when required.

"For either group the key to feeding straw is incorporation to create a homogenous mix. Poorly processed straw will not blend which can encourage cows to sort the ration, making the problem worse rather than better."

Jeremy Hamilton, Three Counties Feeds

#### Trial undertaken by Three Counties Feeds at Sixty Acre Farm

A farm trial was conducted to investigate whether processing straw before it is added to a total mixed ration (TMR) increases the dry matter intake of dry cows fed a ration with high straw inclusions.

The far off dry cow ration contained 13.2lb of straw and the transition ration 8.8lb, the effectiveness of these rations depends totally on good feed intakes.

Control rations were prepared using the mixer wagon to chop and incorporate the straw, as best as this equipment would



allow prior to the trial. At this point feeding was already at a high standard.

Without changing anything else the straw was pre-processed to 1 inch in length. When the cow's intake increased, the portions were increased, with the diet proportions staying constant.

Before straw was pre-processed the far off dry cows ate 47.5lb, after processing they were eating 57lb - equating to 20% more. The transition group ate 9% more - a significant improvement in this critical stage.

"With improved and more consistent straw intakes we are better equipped to control metabolic stress in fresh cows, which can cause issues such as retained placenta and metritis. Getting off to a better start these cows have less negative energy balance and sub-clinical ketosis. Straw rations can also help prevent milk fever."



Pictured (left to right) Jeremy Hamilton & Andy Hawken AMTRA, DipRN. Three Counties Feeds

## How it works

Whether feeding or bedding simply load the bale into the drum, start the cutting rotor and set the drum to rotate.

**DRUM** 

A hydraulic motor rotates the drum via drive belts. Discharge rate is controlled by varying the drum angle and speed of rotation.

# e drum,

#### **CHUTE**

The rotor discharges material to one or both sides, depending on chute options. Chutes can be turned off independently.





#### **ROTOR**

Direct drive from the PTO spins the cutting rotor. As the bale rotates with the drum, material is skimmed from the end of the bale.



# Built to meet your needs

From round to rectangular bales, to bed straw or feed silage - configure your Tomahawk as follows:



SELECT ROTOR TYPE Choose from:

Milling or Chopping

SELECT CHUTE TYPE and accessories (see page 10)



Scan to watch the Tomahawk in action.



# Specifications













SPECIFICATIONS	400 SERIES	<b>400XL SERIES</b>	500 SERIES	500XL SERIES
Maximum Round Bale Diameter	4′0″	4′0″	5′0″	5′0″
Maximum Rectangular Bale Size	N/A	4' x 3'	N/A	4' x 4'
Overall height (A)*	7′2″	8'4"	8′0″	9′2″
Overall Length (B)	7′9″	12′4″	7′9″	12′4″
Drum Diameter	5′2″	5′2″	6′0″	6′0″
Drum Length (standard)	5′1″	9′11″	5′1″	9′11″
Long Drum (optional)	6′1″	N/A	6′1″	N/A
Lower Chute discharge height*	1′4″	1′4″	1′4″	1′4″
Upper Chute discharge height*	3′9″	3'9"	3′9″	3′9″
PTO power required**	80HP	120HP	80HP	120HP

Mill (see page 3)	404M	404XLM	505M	505XLM
Transport width (C)***	6′3″	6′3″	6′7″	6′7″
Operating width (C)	10′3″	10′3″	10′3″	10′3″
Straw Giraffe discharge height*	6′0″	6′0″	6′0″	6′0″
Weight	1,993lb	2,575lb	2,138lb	2,776lb

Chop (see page 4)	4040	4040XL	5050	5050XL
Transport width (C)***	6'5"	6'5"	6'9"	6'9"
Operating width (C)****	7'7"	7'7"	7'11"	7'11"
Silage Giraffe discharge height*	5'0"	5'0"	5'0"	5'0"
Weight	1,787lb	2,369lb	1,933lb	2,570lb

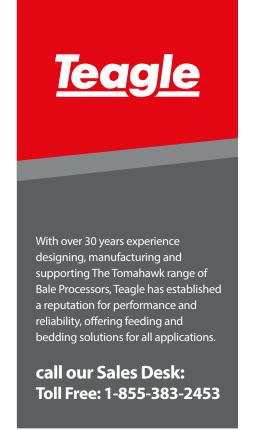
Turbo Mill (see page 5)	T500BM	T500BXLM
Overall Length (B)	8′5″	13'0"
Transport width (C) fan no RHC	8′3″	8′3″
Operating width (C) fan with RHC open	10′2″	10′2″
Weight	3,064lb	3,703lb

#### Key:

The company's policy is one of continuous improvement and development, therefore specifications are subject to change without prior notice.

<sup>\*</sup> Working heights will increase by up to 1m depending on tractor \*\*Typical tractor size to provide adequate lifting capacity and stability

<sup>\*\*\*</sup> Chute extensions not fitted \*\*\*\* No optional left hand chute fitted

















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