



Biomass Silo Systems

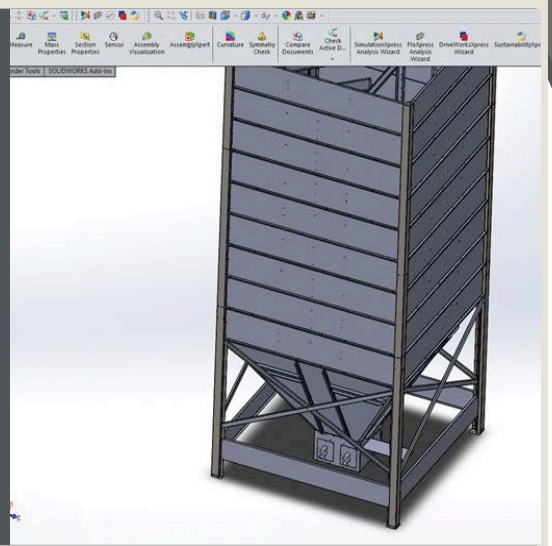


Product Guide 2017



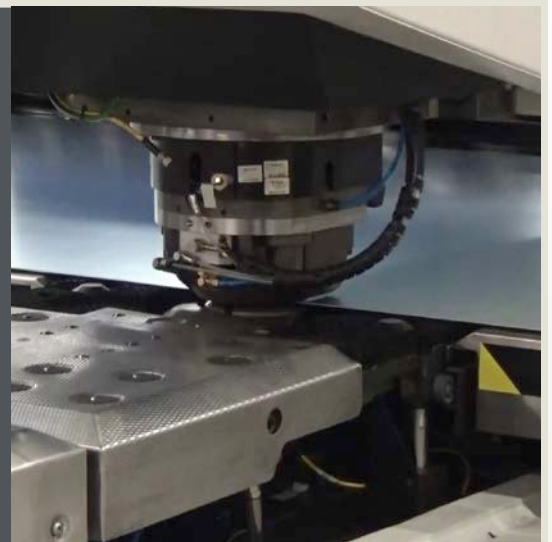
DESIGN

All our products are specifically designed for use in biomass installations and are CE certified. As well as offering a huge range of standard products, we also provide a full customisation service whereby we work with customers to design up a system that meets their exact requirements.



MANUFACTURE

All products we sell are manufactured in-house, in our state of the art manufacturing facility in the west of Ireland. All of our products are designed to be flat packed, allowing us to ship either directly or through our distributors, to all corners of the globe.



INSTALLATION

We also offer an on-site installation service on all commercial projects. Let our trained and highly experienced team take the hassle out of your biomass installation while giving you the confidence that your silo and feed system will be installed to the highest possible standard.





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COMPANY INFORMATION

Biomass Silo Systems is a family run business operating from a 26,000 square foot, state of the art manufacturing facility in the West of Ireland.



Established in 2008 as a dedicated manufacturer of silos and feed systems for the biomass heating industry all of our products are CE marked and manufactured to the highest possible quality standards.



All of our standard products are designed to be flat packed allowing us to export globally.



Germany
Canada
France Belgium
United Kingdom
Spain USA



The defining factor which sets us apart is the **diverse range of products and services**, which we can offer our customers from **innovative, cost effective domestic silos and feed systems** to **highly specified custom built commercial projects**.



We take time to understand our customers particular requirements and work with them through all stages of their projects from design right through to installation.





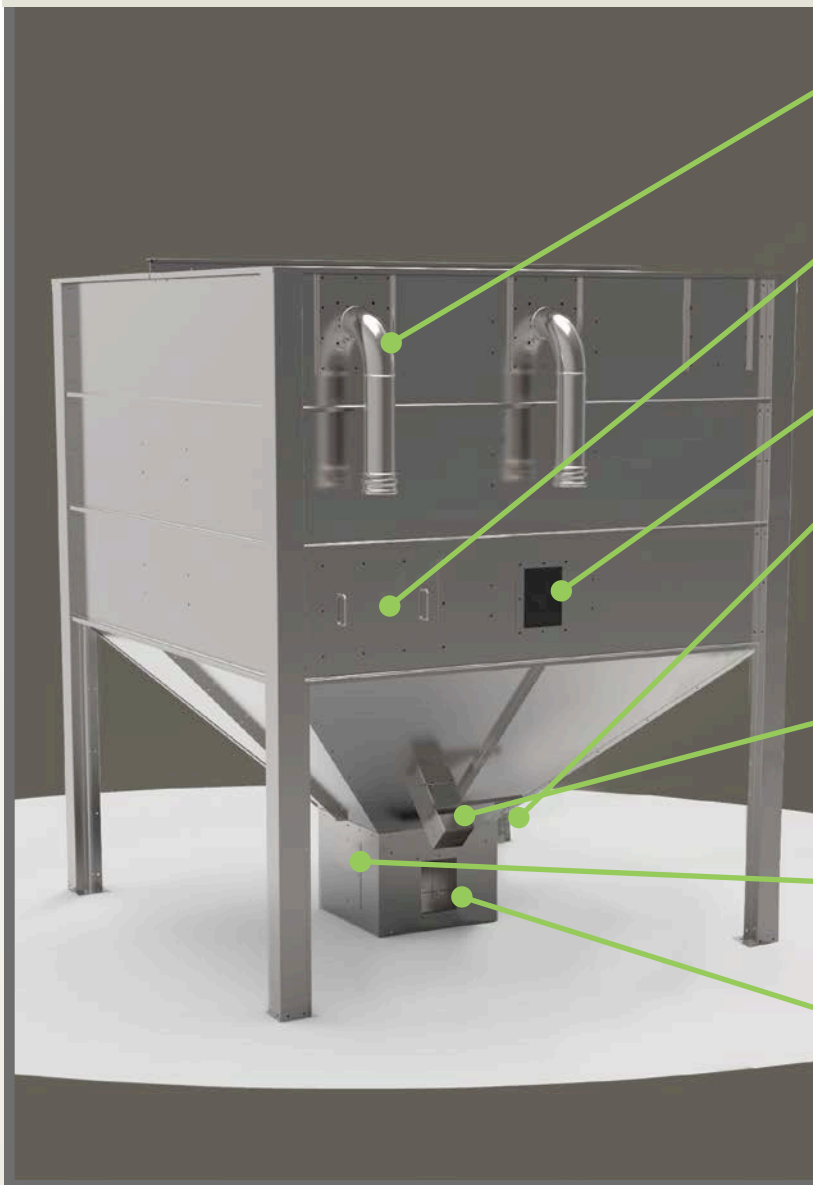
SQUARE FOOTPRINT GALVANISED PELLET SILOS

With standard capacities ranging from 3-20 tons our square silos provide a robust, reliable and cost effective means of storing your wood pellet fuel.

Their modular design allows them to be delivered to site, flat packed for quick and easy assembly without the need for vehicular access or lifting equipment.

Available in both indoor and outdoor models, our silos are designed to prevent condensation and moisture ingress and maintain pellet quality over the life of their use.

STANDARD FEATURES



Bulk Delivery Connections

Filling and ventilation pipework with delivery connections.

Bag Filling Panel

For bag filling and periodic cleaning and maintenance.

Inspection Windows

For checking pellet levels.

Feed Shut off Slide

To isolate feedbox during cleaning, filling and maintenance.

Manual Extraction Chute

For withdrawing pellets. Can be positioned on any side.

Dust Removal Panel

For removal of dust from silo.

Feed Outlet

Choice of standard auger or vacuum outlets.



OPTIONAL EXTRA FEATURES

Silo Base Angle

Our standard silo cone has an angle of 45° but this can be increased to 60° on customer request. A 60° angle ensures even drainage and eliminates dust separation within the silo. This means that the silo will need significantly less cleaning and maintenance over its life and is recommended for larger silos or silos which will receive a large number of deliveries per year.



Apex Roof

All outdoor silos can be supplied with an apex roof rather than the standard flat roof. As well as making your silo look nicer in an outdoor setting this type of roof is recommended in colder climates to stop snow from collecting on the roof in areas with high snow loads.



Green Coat

Our standard silos are supplied in galvanised steel, however we also offer the option of a Green PVC coated finish. This special material is designed to last for 30+ years in outdoor environments and gives the silo a more natural look, helping it to blend into its surroundings.



Timber Cladding

For a more complete solution to blending the silo in to its surroundings we can also offer treated timber cladding panels which can be bolted directly onto the legs of each silo.



TECHNICAL DATA

2.0m Square Footprint Galvanised Pellet Silos

Prod Code	Description	Footprint	Height	Volume	Useful Capacity
W322	3.0 Ton Pellet Silo	2m X 2m	2.225m	5.86m ³	2.9 Tons
W3522	3.5 Ton Pellet Silo	2m X 2m	2.425m	6.72m ³	3.4 Tons
W422	4.0 Ton Pellet Silo	2m X 2m	2.855m	8.44m ³	4.5 Tons
W522	5.0 Ton Pellet Silo	2m X 2m	3.285m	10.16m ³	5.5 Tons
W622	6.0 Ton Pellet Silo	2m X 2m	3.715m	11.88m ³	6.6 Tons
W822	8.0 Ton Pellet Silo	2m X 2m	4.575m	15.32m ³	8.8 Tons
W1022	10.0 Ton Pellet Silo	2m X 2m	5.435m	18.76m ³	11.0 Tons

2.4m Square Footprint Galvanised Pellet Silos

Prod Code	Description	Footprint	Height	Volume	Useful Capacity
W42-4	4.0 Ton Pellet Silo	2.4m X 2.4m	2.45m	8.78m ³	4.1 Tons
W52-4	5.0 Ton Pellet Silo	2.4m X 2.4m	2.65m	10.02m ³	4.9 Tons
W62-4	6.0 Ton Pellet Silo	2.4m X 2.4m	3.08m	12.50m ³	6.5 Tons
W82-4	8.0 Ton Pellet Silo	2.4m X 2.4m	3.51m	14.98m ³	8.1 Tons
W102-4	10.0 Ton Pellet Silo	2.4m X 2.4m	4.37m	19.94m ³	11.35 Tons
W122-4	12.0 Ton Pellet Silo	2.4m X 2.4m	4.80m	22.42m ³	12.96 Tons
W142-4	14.0 Ton Pellet Silo	2.4m X 2.4m	5.66m	27.38m ³	16.18 Tons

2.8m Square Footprint Galvanised Pellet Silos

Prod Code	Description	Footprint	Height	Volume	Useful Capacity
W62-8	6.0 Ton Pellet Silo	2.8m X 2.8m	2.64m	12.48m ³	5.9 Tons
W82-8	8.0 Ton Pellet Silo	2.8m X 2.8m	3.27m	17.54m ³	9.2 Tons
W102-8	10.0 Ton Pellet Silo	2.8m X 2.8m	3.70m	20.91m ³	11.4 Tons
W122-8	12.0 Ton Pellet Silo	2.8m X 2.8m	4.13m	24.28m ³	13.6 Tons
W142-8	14.0 Ton Pellet Silo	2.8m X 2.8m	4.56m	27.65m ³	15.8 Tons
W162-8	16.0 Ton Pellet Silo	2.8m X 2.8m	4.99m	31.02m ³	18.0 Tons
W182-8	18.0 Ton Pellet Silo	2.8m X 2.8m	5.42m	34.39m ³	20.2 Tons
W202-8	20.0 Ton Pellet Silo	2.8m X 2.8m	5.66m	37.76m ³	22.3 Tons



OUR MODELS



W3522

3.5 Ton Capacity
2.0m Square
Footprint



W62-4

6.0 Ton Capacity
2.4m Square
Footprint



W82-8

8.0 Ton Capacity
2.8m Square
Footprint

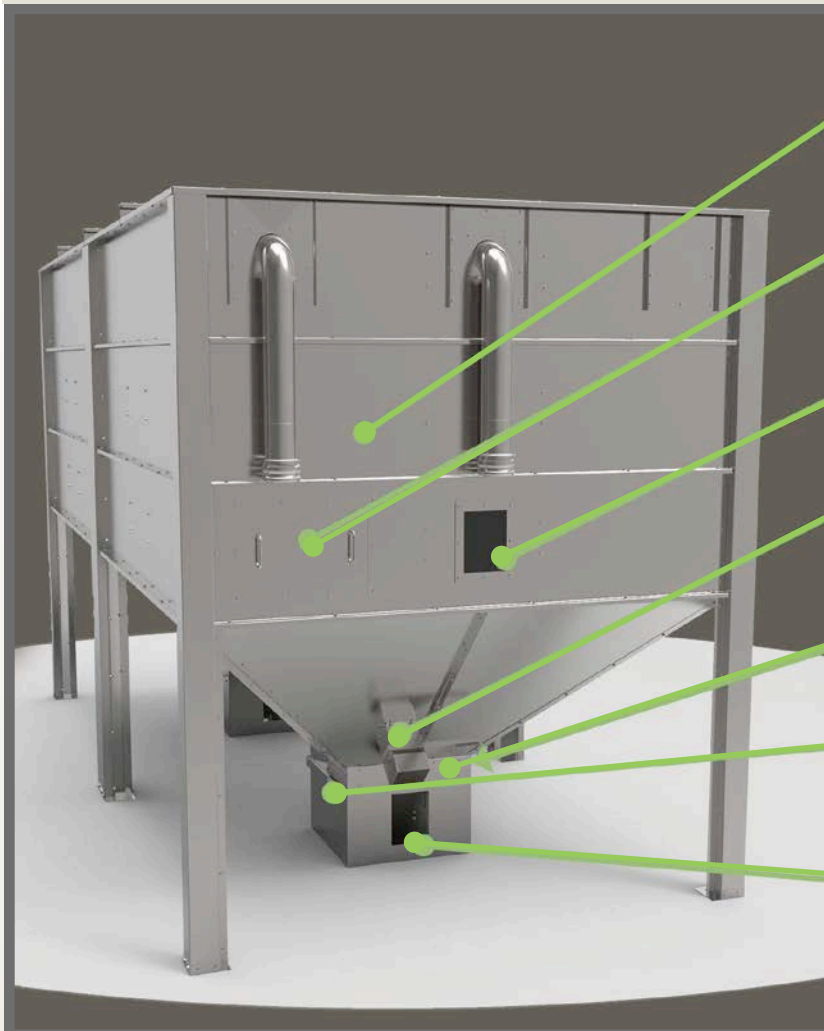


RECTANGULAR FOOTPRINT GALVANISED PELLET SILOS

Our rectangular pellet stores come in capacities from 6 - 40 Ton. They are manufactured in much the same way as the square silos but allow users to benefit from increased capacity without the need to increase the height of the store.

A range of different silo bases can be manufactured either to suit our own extraction options or alternatively to integrate third party extractions systems when required.

STANDARD FEATURES



Bulk Delivery Connections

Filling and ventilation pipework with delivery connections.

Bag Filling Panels

For bag filling and periodic cleaning and maintenance.

Inspection Windows

For checking pellet levels.

Feed Shut off Slide

To isolate feedbox during cleaning, filling and maintenance.

Manual Extraction Chute

For withdrawing pellets. Can be positioned on any side.

Dust Removal Panel

For removal of dust from silo.

Feed Outlet

Choice of standard auger or vacuum outlets.

OPTIONAL EXTRA FEATURES:

- Apex Roof
- Green Coat
- Timber Cladding



SILO BASE TYPES AND FEED OPTIONS

TYPE 1 – Double Outlet

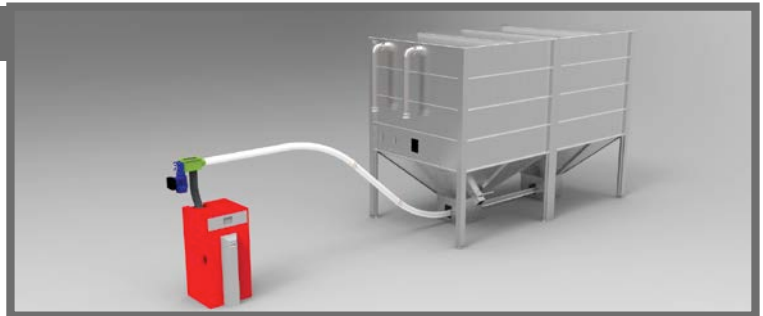
Separate Outlets

Each feed outlet is used separately with either two auger or two vacuum feeds. A choice of 45 or 60 degree sloping bases are available.



Flexi Auger System

A flexi auger can be used to pick up pellets from multiple feed outlets and transport to the boiler. These systems can only pick up pellets from one outlet at a time.



TYPE 2 – V Shaped Base

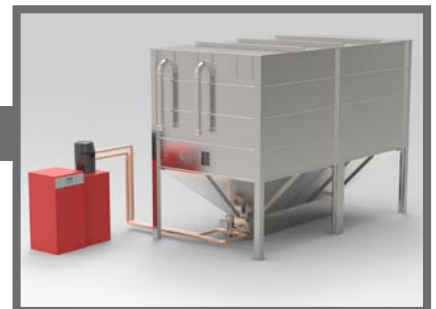
Twin Auger System

The trough auger collects pellets from inside the silo and transports them to a collection box from which a secondary auger can bring them to the boiler. Secondary auger can be positioned on any side.



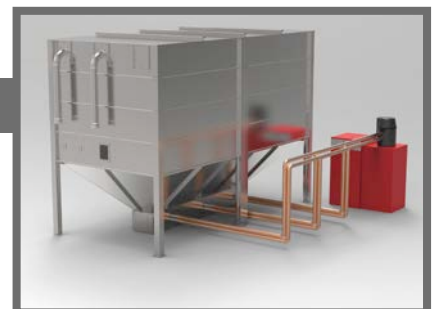
Trough with Vacuum Extraction

The trough auger collects pellets from inside the silo and brings them to a collection box from where they are pneumatically extracted with a vacuum system.



Trough Auger with Multiple Vac Outlets

Instead of an auger, the trough has multiple vacuum extraction points placed evenly along its length.



TECHNICAL DATA

1m x 3m/4m Rectangular Footprint Galvanised Pellet Silos

Prod Code	Description	Footprint	Height	Volume	Useful Capacity
W313	3.0 Ton Pellet Silo	1m X 3m	2.855m	5.90m ³	3.5 Tons
W413	4.0 Ton Pellet Silo	1m X 3m	3.285m	7.19m ³	4.3 Tons
W513	5.0 Ton Pellet Silo	1m X 3m	3.715m	8.48m ³	5.2 Tons
W314	3.0 Ton Pellet Silo	1m X 4m	2.225m	5.30m ³	3.2 Tons
W414	4.0 Ton Pellet Silo	1m X 4m	2.855m	7.88m ³	4.9 Tons
W514	5.0 Ton Pellet Silo	1m X 4m	3.285m	9.60m ³	6.0 Tons
W614	6.0 Ton Pellet Silo	1m X 4m	3.715m	11.32m ³	7.1 Tons

2m x 4m Rectangular Footprint Galvanised Pellet Silos

Prod Code	Description	Footprint	Height	Volume	Useful Capacity
W624	6.0 Ton Pellet Silo	2m X 4m	2.225m	11.72m ³	5.8 Tons
W724	7.0 Ton Pellet Silo	2m X 4m	2.425m	13.44m ³	6.8 Tons
W824	8.0 Ton Pellet Silo	2m X 4m	2.855m	16.88m ³	9.0 Tons
W1024	10.0 Ton Pellet Silo	2m X 4m	3.285m	20.32m ³	11.0 Tons
W1224	12.0 Ton Pellet Silo	2m X 4m	3.715m	23.76m ³	13.2 Tons
W1424	14.0 Ton Pellet Silo	2m X 4m	4.145m	27.20m ³	15.4 Tons
W1624	16.0 Ton Pellet Silo	2m X 4m	4.575m	30.64m ³	17.6 Tons
W2024	20.0 Ton Pellet Silo	2m X 4m	5.435m	37.52m ³	22.0 Tons

2.8m x 5.6m Rectangular Footprint Galvanised Pellet Silos

Prod Code	Description	Footprint	Height	Volume	Useful Capacity
W1425	14.0 Ton Pellet Silo	2.8m X 5.6m	2.840m	24.96m ³	13.8 Tons
W1825	18.0 Ton Pellet Silo	2.8m X 5.6m	3.275m	35.08m ³	18.4 Tons
W2225	22.0 Ton Pellet Silo	2.8m X 5.6m	3.705m	41.82m ³	22.8 Tons
W2625	26.0 Ton Pellet Silo	2.8m X 5.6m	4.135m	48.56m ³	27.2 Tons
W3025	30.0 Ton Pellet Silo	2.8m X 5.6m	4.565m	55.30m ³	31.6 Tons
W3425	34.0 Ton Pellet Silo	2.8m X 5.6m	4.995m	62.04m ³	36.0 Tons
W3825	38.0 Ton Pellet Silo	2.8m X 5.6m	5.425m	68.78m ³	40.4 Tons
W4025	40.0 Ton Pellet Silo	2.8m X 5.6m	5.665m	75.52m ³	44.6 Tons



OUR MODELS



W513

5.0 Ton
Capacity
1m X 3m
Footprint



W1424

14.0 Ton
Capacity
2m X 4m
Footprint



W2625

26.0 Ton
Capacity
2.8m X 5.6m
Footprint



FABRIC SILOS

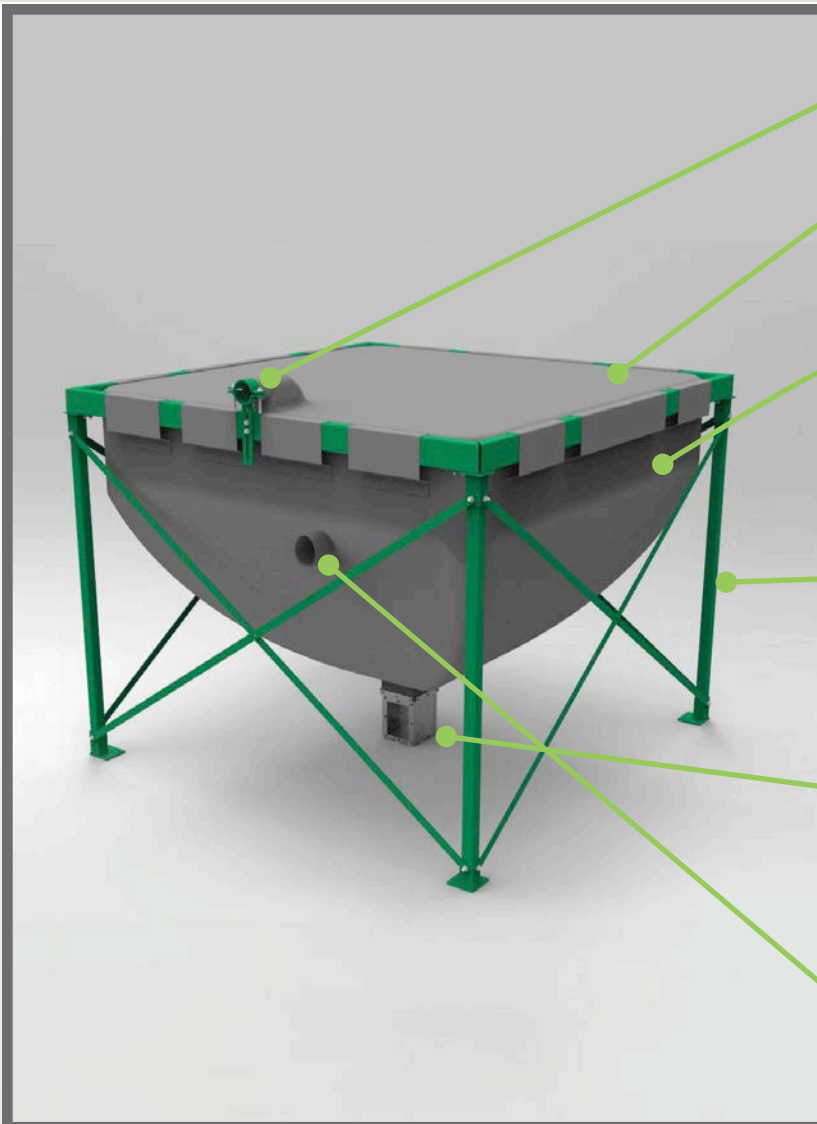
Our fabric silos are designed for indoor use where room height and assembly space are limited.

The fabric used has an extremely high tensile strength and is breathable, allowing dust free deliveries without the need for extraction.

Footprints range from 2-3 square metres and capacities from 3 - 6 Tons.

The galvanised steel framework is 2m in height but the silo when fully inflated will expand up to a maximum of 2.5m in order to fill to its full capacity.

STANDARD FEATURES



Adjustable Clamp

With bulk delivery connection.

Inflatable Fabric

Fabric can be inflated up to 2.5m in height for the maximum capacity.

High Tensile Fabric

Special high tensile breathable fabric allows dust free filling without the need for extraction.

Framework

Powder coated framework. Bolts together for quick and easy assembly.

Feed Outlet

Can be positioned on any side with shut off slide plate. Suitable for standard auger or vacuum connections.

Access Hatch

For bag filling and inspection.



OPTIONAL EXTRA FEATURES



Flat Bottomed Silo

This silo base allows users to get the maximum capacity out of the available space by removing the standard funnel shaped base.

A vibration motor fitted at the base of the silo helps to move the pellets into a central discharge point for vacuum or auger extraction.



Outdoor Silo Cover

This canvas cover provides protection from rainwater and allows customers to position their fabric silo outdoors

Prod Code	Description	Footprint	Height	Volume	Useful Capacity
W3F2	3.0 Ton Pellet Silo	2.00m x 2.00m	2.15m - 2.50m	5.86m ³	2.9 - 3.6 Tons
W4F22	4.0 Ton Pellet Silo	2.25m x 2.25m	2.15m - 2.50m	7.62m ³	3.6 - 4.6 Tons
W5F25	5.0 Ton Pellet Silo	2.50m x 2.50m	2.15m - 2.50m	9.24m ³	4.3 - 5.6 Tons
W6F3	6.0 Ton Pellet Silo	3.00m x 3.00m	2.15m - 2.50m	11.16m ³	5.0 - 6.8 Tons



W3F2

3.0 Ton
2m Square
Footprint
Fabric Silo

SMALL HOPPER - INDOOR

These small indoor hoppers come in 200kg and 500kg sizes and are ideal for storing smaller quantities of pellets next to your boiler for automatic feeding where the space required to locate a bulk pellet store is not available.

Bagged pellets are manually loaded into the hoppers through the roof grate.

These hoppers are simple, cost effective and easy to assemble in approximately 15 minutes.

STANDARD FEATURES



Roof Grate

For bag filling the hopper.

Feed Outlet

Suitable for standard auger or vacuum connections.

Prod Code	Description	Footprint	Height	Volume	Useful Capacity
WS02I	200 Kg Pellet Silo	0.6m x 0.6m	1.3m	0.32m ³	205 kgs
WS05I	0.5 Ton Pellet Silo	1m x 1m	1.4m	0.91m ³	0.59 Tons

WS05I

0.5 Ton
1m x 1m



WS02I

200kg
0.6m x 0.6m



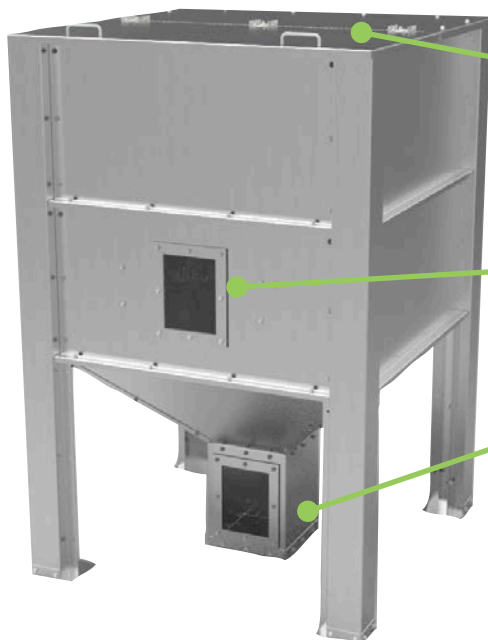
SMALL HOPPER - OUTDOOR

These small hoppers are designed for outdoor use and come in 0.5 and 1.0 Ton sizes. Ideal for storing enough pellets to avoid having to constantly fill up a boilers day hopper.

Bagged pellets are loaded through a hinged lid on the roof of the hopper.

These silos can also be supplied in green coat material or with fittings to allow for bulk pellet delivery when required.

STANDARD FEATURES



Liftable lid

Waterproof hinged lid for bag filling the hopper.

Fuel Level Viewing Window

For checking pellet levels.

Feed Outlet

Suitable for standard auger or vacuum connections

Prod Code	Description	Footprint	Height	Volume	Useful Capacity
WS05	0.5 Ton Pellet Silo	1m x 1m	1.50m	0.88m ³	0.58 Tons
WS10	1.0 Ton Pellet Silo	1.4m x 1.4m	1.65m	1.92m ³	1.24 Tons



WS05

0.5 Ton
1m x 1m



SCREW AUGER

Our range of screw auger options provide a reliable and gentle means of transporting pellets to the boiler. Suitable for use with any type of pellet boiler these systems can be sized to meet your exact requirements and give you the precise feed rate needed.

Capable of picking up pellets from either a single or multiple feed outlets as well as being used in conjunction with our trough collectors these systems are designed to minimise pellet degradation. The centreless screw also gives the flexibility to introduce gentle curves in the auger run where necessary.

RIGID AUGER SYSTEM

WADK Auger Drive System

WA45DB 45 Degree Auger Dropbox

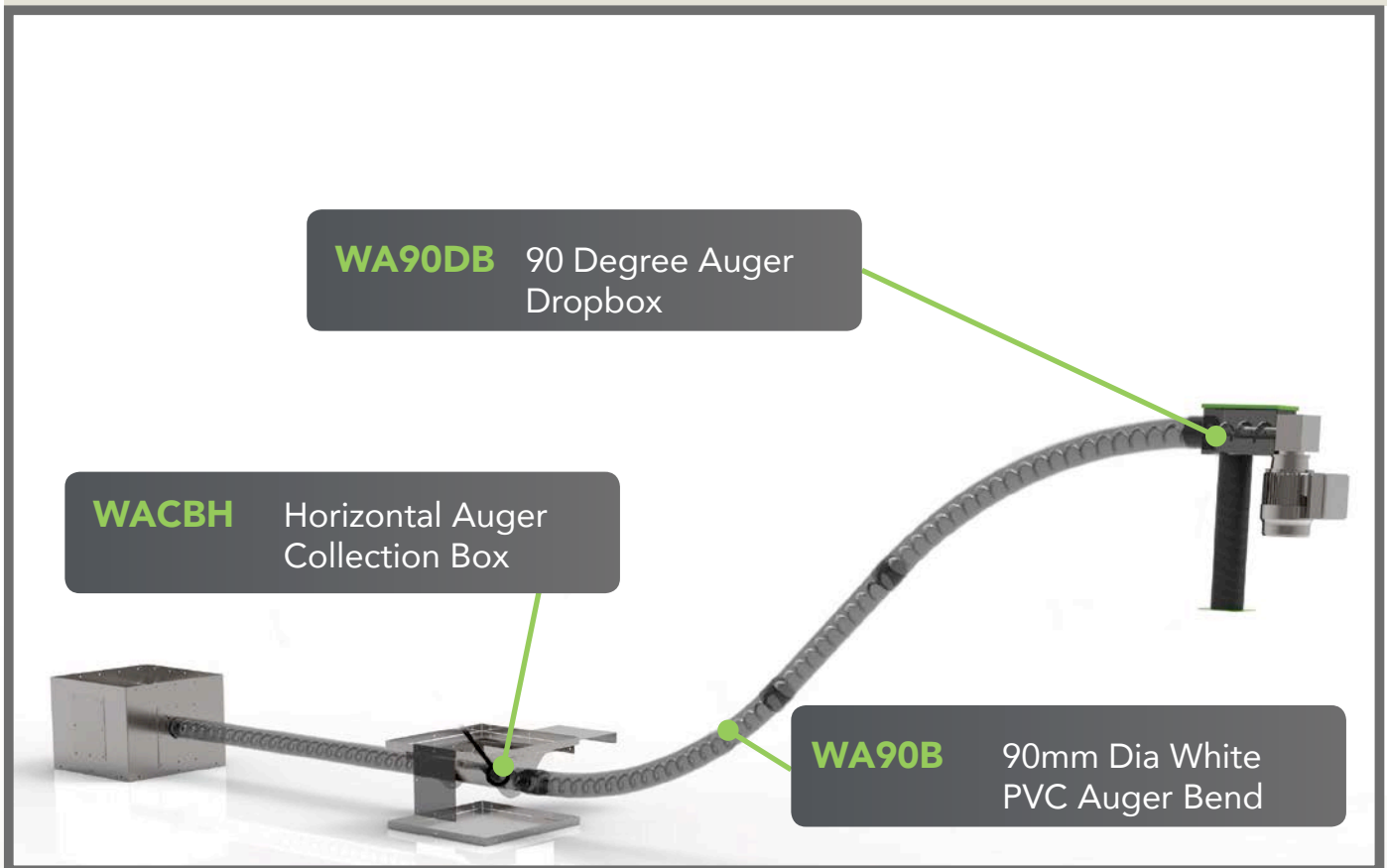
WA90P 90mm Dia White PVC Auger Pipe

WA75C 75mm Dia Auger coil

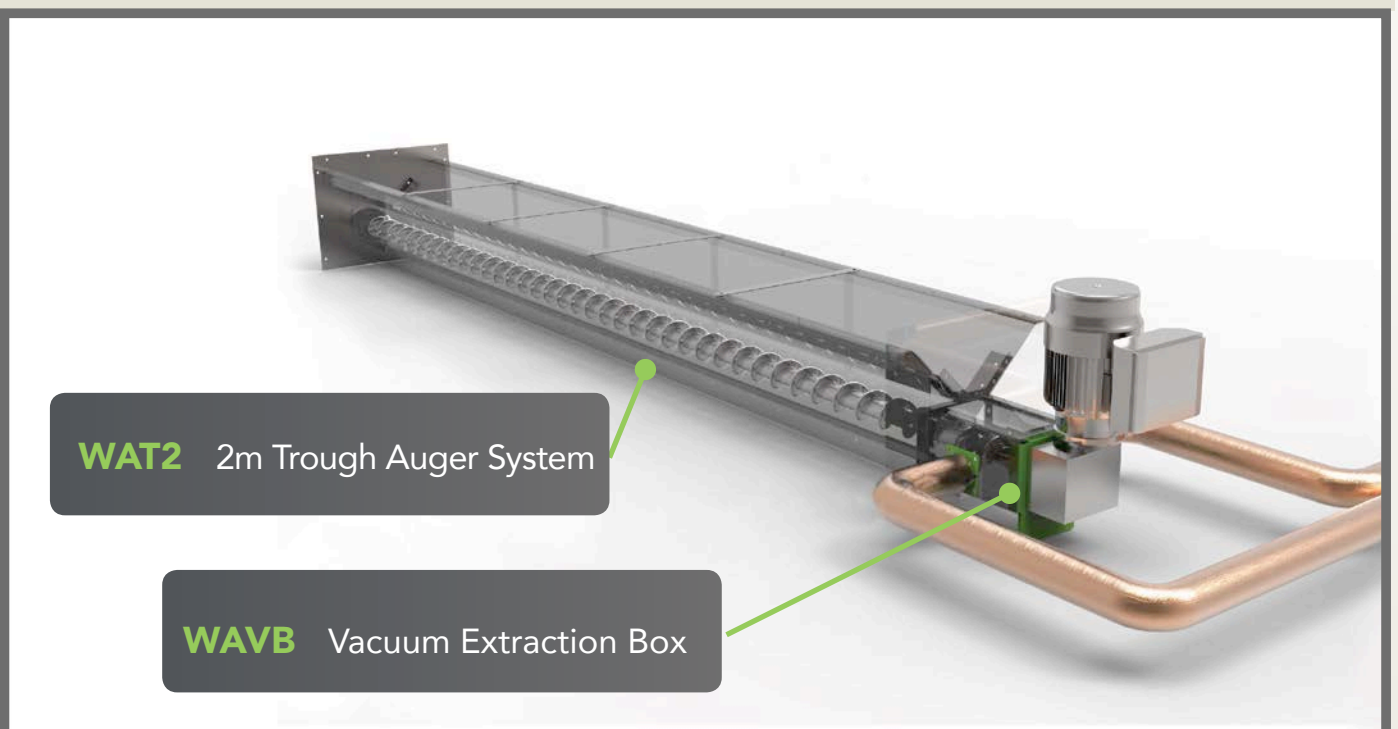
WACB45 45 Degree Auger Collection Box



FLEXIBLE AUGER SYSTEM



TROUGH AUGER SYSTEM



FULL AUGER COMPONENT LIST

Prod Code	Description	Detail
WADK	Auger Drive Kit Including - Motor / Gearbox / Inverter & Gear Shaft	Single Phase Supply, 0.37kw motor, 40:1 ratio gearbox, Avg Feed Rate 150kg per hour, Other motor and gearbox size available on request
WASC	Set Of High/ Low Level Sensor Controls	M12 Capacitive Sensors designed to work in dusty environments
WA75C	75mm Diameter Auger Coil (Per M)	Mild steel, 10mm continuous flight
WA90P	90mm White PVC Auger Pipe	3m Long, 90mm OD, 82mm ID
WA90B	90mm White PVC Auger Bend	1.2m Long, 1.5m Turning Radius
WA90J	90mm White PVC Pipe Joiner	160mm Long, 95mm OD, 92mm ID
WAT2	2m Trough Auger	390mm Wide X 315mm High - For V-Shaped Silo Bases - Including Shaft
WAT1	1m Trough Auger	390mm Wide X 315mm High - For V-Shaped Silo Bases - Including Shaft
WAT05	0.5m Trough Auger	390mm Wide X 315mm High - For V-Shaped Silo Bases - Including Shaft
WATJ	Trough Joining Kit	Trough & Shaft Joining Brackets
WACBH	Auger Collection Box	Horizontal Auger Collection Box For Conical Silo Base
WACB30	Collection Box Adaptor 30 Degree	Adaptor To Site Auger Collection Box at 30 Degrees
WACB45	Collection Box Adaptor 45 Degree	Adaptor To Site Auger Collection Box at 45 Degrees
WA45DB	45 Degree Auger Dropbox	300mm Long X 250mm High X 140mm wide with 1m flexi hose & spigot plate
WA90DB	90 Degree Auger Dropbox	300mm Long X 215mm High X 140mm wide with 1m flexi hose & spigot plate
WAVB	Vacuum Extraction Box	200mm Long X 275mm wide X 120mm deep with 2 X 50mm pipe connections
WAAB	Auger Extraction Box	400mm Long X 390mm wide X 315mm High

**Need help specifying the correct components
for your auger system?**

Our sales staff are happy to assist.



COMPONENTS

Rigid Auger
Single Pick up



Twin Flexible Augers
Multi Pick up



Trough Auger
W/Vac Extraction





VACUUM SYSTEMS

A vacuum extraction system is the gentlest way to extract pellets from a silo into a boilers day hopper, especially over longer distances.

Our vacuum systems offer great power and reliability. The built in filter can remove dust from the system, reducing boilers maintenance and a choice of mounting options offer flexibility in design.

FEED OPTIONS



Wall Mounted Vacuum System With Separate Dispenser



All-In-One Boiler Mounted Vacuum & Dispenser



COMPONENTS

Wall Mounted Vacuum With Separate Dispenser



WVN1

All In One Boiler Mounted Vacuum & Dispenser



WVN3

Vacuum Hose



WVH50

Soundproof Motor Cover



WVSU

Vacuum Connection Bracket



WVB1

Prod Code	Description	Detail
WVN1	Wall Mounted Vacuum With Separate Dispenser	Vacuum 906mm High x 360mm Wide x 305mm Deep Dispenser 380mm High x 281mm Wide x 270mm Deep
WVN3	All In One Boiler Mounted Vacuum & Dispenser	655mm High x 338mm Wide x 295mm Deep
WVH50	Vacuum Hose	50mm diameter flexible antistatic vacuum hose
WVSU	Soundproof Motor Cover	Reduces noise level from the vacuum by approximately 20db
WVB1	Vacuum Connection Bracket	210mm High X 260mm Wide X 250mm Deep - Wall mounted vacuum connection



SELF BUILD ACCESSORIES

DELIVERY COUPLINGS

Three types of coupling connections for blown deliveries are available to buy separately Storz 110A / camlock and Guillemín. These can also be made to order with pipework, bends and attachment plates as required.



Prod Code	Description	Detail
WCC100	Camlock Coupling With Dustcap	4 Inch aluminium type E coupling with steel dustcap (Ireland, North America)
WCS110	Storz 110A Coupling With Dustcap	110mm aluminium type E coupling with plastic vented cap (UK, Rest of Europe)
WCG100	Guillemín Coupling With Dustcap	4 inch aluminium type E coupling with steel dustcap (France)

IMPACT PROTECTION MATS

A rubber impact protection mat with an attachment strip can also be provided separately if required.



Prod Code	Description	Detail
WR07	Pellet Impact Protection Mat	700mm x 700mm x 3mm reinforced rubber mat with attachment strip
WR10	Pellet Impact Protection Mat	1m x 1m X 3mm reinforced rubber mat with attachment strip
WR14	Pellet Impact Protection Mat	1.4m x 1.4m x 3mm reinforced rubber mat with attachment strip



SELF BUILD ACCESSORIES

PIPEWORK

Delivery Pipe



WPP1 / WPP05

90 Degree Pipe



WPB90

Pipe Clamps



WPPC

Universal Support Bracket



WPSB

Prod Code	Description	Detail
WPP2	2M Straight Delivery Pipe	100mm diameter X 2m Long clip duct length
WPP1	1M Straight Delivery Pipe	100mm diameter X 1m Long clip duct length
WPP05	0.5m Straight Delivery Pipe	100mm diameter X 0.5m Long clip duct length
WPB90	90 Degree Pipe Bend	100mm diameter X 1.5 radius - 90 degree bend
WPB45	45 Degree Pipe Bend	100mm diameter X 1.5 radius - 45 degree bend
WPPC	Pipe Clamps	100mm diameter pipe attachment clamps
WPSB	Universal Support Bracket	100mm diameter wall mounted support bracket



WOOD CHIP SILOS & CONVEYING EQUIPMENT

Our standard 10,12 & 16 sided wood chip silos are manufactured from galvanised steel and provide a perfect outdoor storage environment for bulky wood chip fuel. Their modular design allows them to be delivered to site flat packed for quick and easy assembly without the need for vehicular access or lifting equipment.

Standard diameters of between 3-6m are available incorporating capacities from 40-160m³. Special ventilation panels help prevent condensation and maintain the moisture content of the fuel.

STANDARD FEATURES



Vent Panels

For preventing condensation inside the silo.

Fill Openings

Customised opening to suit filling system.

Inspection Window

For checking wood chip levels.

Access Panel

For periodic cleaning and maintenance.

Extraction Openings

Openings can be customised to suit extraction system.



OPTIONAL EXTRA FEATURES



Access Ladder –
Including roof access panel



Steel Silo Base –
Manufactured to suit extraction system.



Powder Coating – Silo powder coated to match its surroundings.

OTHER FEATURES AVAILABLE:

- **Timber Cladding –** Treated timber panels to camouflage the silo
- **Fill and Vent Pipework –** To allow for blown deliveries of wood chip
- **Atex Explosion Protection –** To mitigate the risk of a dust explosion
- **Conical base –** For converting silo to use wood pellet fuel

TECHNICAL DATA

3.5m Diameter Wood Chip Silos – 10 Sided

Prod Code	Description	Diameter	Height	Usable Volume	Actual Volume
C4035	40m3 Decagonal Wood Chip Silo	3.5m	5.24	41.35	48.11
C5035	50m3 Decagonal Wood Chip Silo	3.5m	6.53	53.75	60.52

4.0m Diameter Wood Chip Silos – 12 Sided

Prod Code	Description	Diameter	Height	Usable Volume	Actual Volume
C4040	40m3 Dodecagonal Wood Chip Silo	4.0m	4.51	43.21	53.30
C5040	50m3 Dodecagonal Wood Chip Silo	4.0m	5.37	54.01	64.11
C6040	60m3 Dodecagonal Wood Chip Silo	4.0m	6.23	64.81	74.91
C7040	70m3 Dodecagonal Wood Chip Silo	4.0m	6.66	70.21	80.31

4.5m Diameter Wood Chip Silos – 12 Sided

Prod Code	Description	Diameter	Height	Usable Volume	Actual Volume
C5045	50m3 Dodecagonal Wood Chip Silo	4.5m	4.65	54.68	69.06
C6045	60m3 Dodecagonal Wood Chip Silo	4.5m	5.08	61.52	75.90
C7045	70m3 Dodecagonal Wood Chip Silo	4.5m	5.94	75.19	89.57
C8045	80m3 Dodecagonal Wood Chip Silo	4.5m	6.37	82.02	96.40
C9045	90m3 Dodecagonal Wood Chip Silo	4.5m	7.23	95.70	110.07



5.0m Diameter Wood Chip Silos – 12 Sided

Prod Code	Description	Diameter	Height	Usable Volume	Actual Volume
C6050	60m3 Dodecagonal Wood Chip Silo	5.0m	4.35	59.07	78.79
C7050	70m3 Dodecagonal Wood Chip Silo	5.0m	5.21	75.95	95.67
C8050	80m3 Dodecagonal Wood Chip Silo	5.0m	5.64	84.39	104.11
C9050	90m3 Dodecagonal Wood Chip Silo	5.0m	6.07	92.83	112.55
C10050	100m3 Dodecagonal Wood Chip Silo	5.0m	6.50	101.27	120.99
C11050	110m3 Dodecagonal Wood Chip Silo	5.0m	6.93	109.70	129.43

5.5m Diameter Wood Chip Silos – 16 Sided

Prod Code	Description	Diameter	Height	Usable Volume	Actual Volume
C8055	80m3 Dodecagonal Wood Chip Silo	5.5m	4.91	81.69	107.94
C9055	90m3 Dodecagonal Wood Chip Silo	5.5m	5.34	91.90	118.15
C10055	100m3 Dodecagonal Wood Chip Silo	5.5m	5.77	102.11	128.36
C11055	110m3 Dodecagonal Wood Chip Silo	5.5m	6.20	112.32	138.57
C12055	120m3 Dodecagonal Wood Chip Silo	5.5m	6.63	122.53	148.78
C13055	130m3 Dodecagonal Wood Chip Silo	5.5m	7.06	132.74	158.99

6.0m Diameter Wood Chip Silos – 16 Sided

Prod Code	Description	Diameter	Height	Usable Volume	Actual Volume
C9060	90m3 Dodecagonal Wood Chip Silo	6.0m	5.05	97.21	131.30
C11060	110m3 Dodecagonal Wood Chip Silo	6.0m	5.48	109.37	143.45
C12060	120m3 Dodecagonal Wood Chip Silo	6.0m	5.91	121.52	155.60
C13060	130m3 Dodecagonal Wood Chip Silo	6.0m	6.34	133.67	167.75
C14060	140m3 Dodecagonal Wood Chip Silo	6.0m	6.77	145.82	179.90
C16060	160m3 Dodecagonal Wood Chip Silo	6.0m	7.20	157.97	192.05



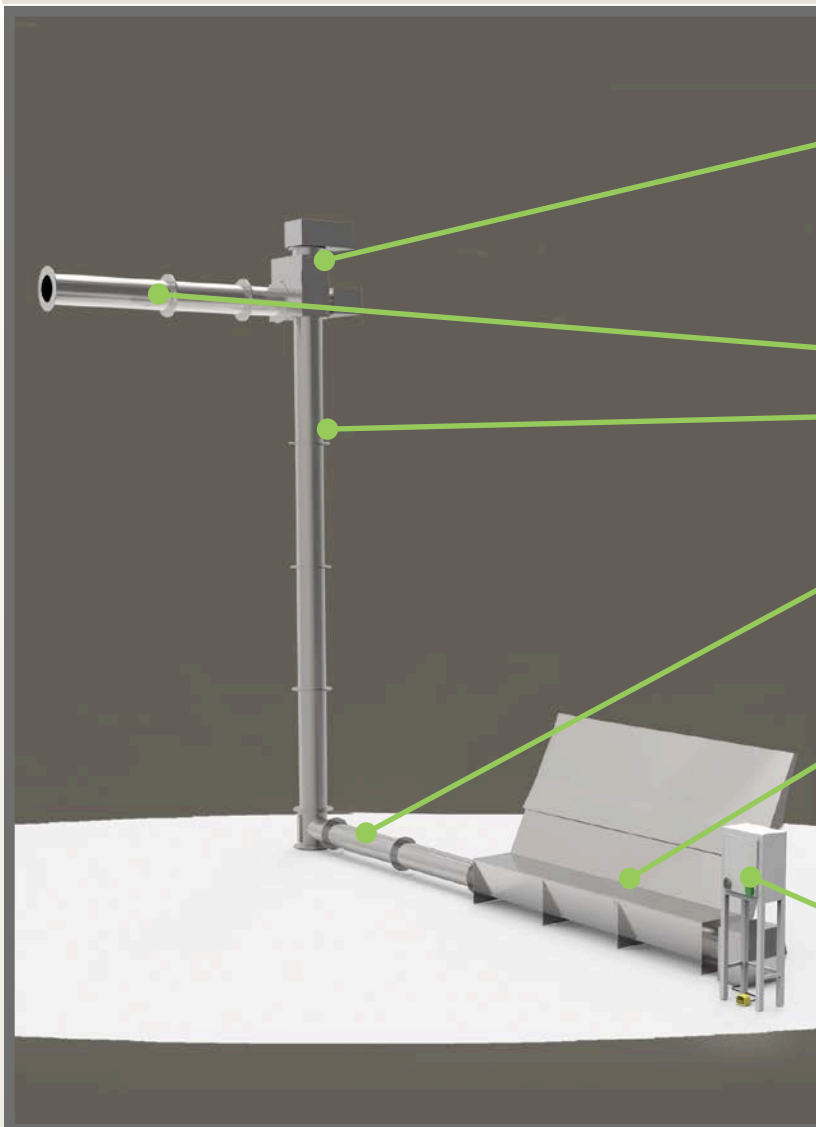


SILO LOADING SYSTEM

Our standard silo loading system consists of a galvanised steel intake bunker and three screw augers working in tandem to transport the woodchip from ground level into the top of the silo.

Intake speeds of 45 - 60m³ per hour are available with a single bunker and from 90-120m³ with a double bunker system. The system is run using both a keyswitch and a footswitch to ensure safe operation.

STANDARD FEATURES



Motor and Transition Piece

5.5kw motor and 90 degree transition piece

Levelling Screw Pipe

Extension pipework and coil for levelling screw

Vertical Screw Pipe

Extension pipework and coil for vertical screw
- Maximum 10m

Trough Screw Pipe

Extension pipework and coil for trough screw

Intake Bunker

Galvanised trough for receipt of tipped delivery of wood chips

Control Panel

To control the auger feed.
Keyswitch and footswitch operated.



OTHER FEATURES AVAILABLE

- **Double Bunker –** Allowing customers to install twin loading systems for a 120m³ per hour fee rate.
- **Bunker Wheels –** Allows the bunker to be removed and disconnected when not in use.
- **Atex Explosion Protection –** To mitigate the risk of a dust explosion.

SILO LOADING SYSTEM COMPONENT LIST

Prod Code	Description	Notes
S3CI	Basic Loading System Package (For 60m ³ per hour feed rate)	Incl - Auger Motors & Transition Pieces, 3.6m Wide Galvanised Steel Trough With Auger Screw, Control Panel with keyswitch and footswitch.
S3CTS	Trough Screw & Pipework	297mm Diameter Pipework & 260mm Diameter Centreless Auger Screw. Sold Per Metre. 6m Maximum Length
S3CVS	Vertical Screw & Pipework	347mm Diameter Pipework & 300mm Diameter Centreless Auger Screw. Sold Per Metre. 10m Maximum Height
S3CLS	Levelling Screw & Pipework	347mm Diameter Pipework & 300mm Diameter Centreless Auger Screw. Sold Per Metre. 6m Maximum Length



120m³ Per Hour Double Bunker With Twin Loading Systems

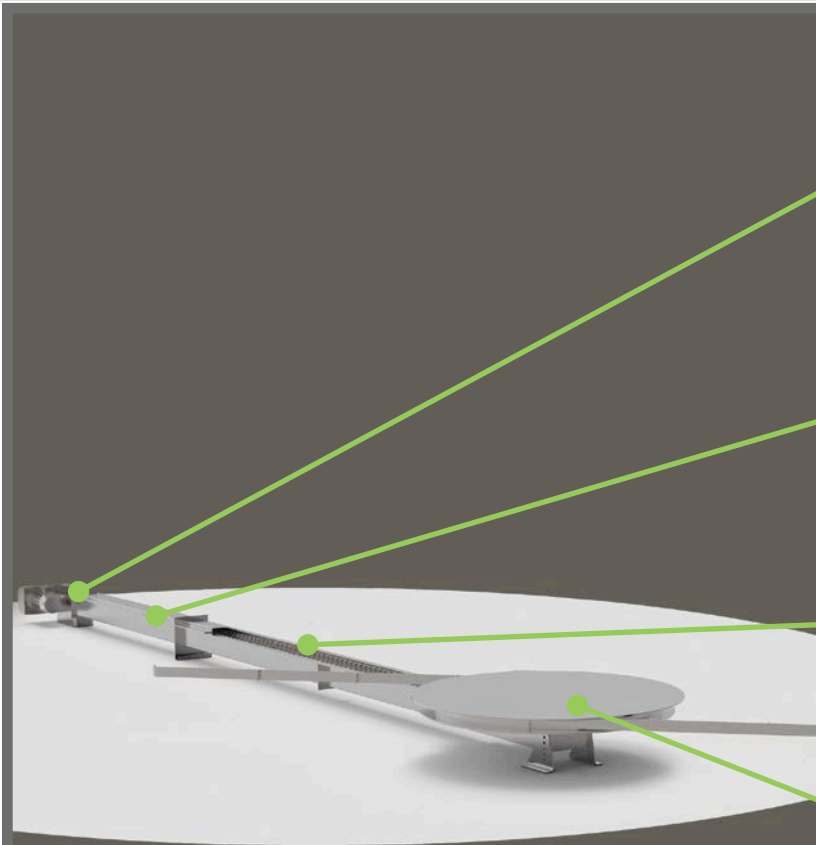


AGITATOR AUGER

Suitable for use in storage spaces ranging from 2-7m and heights up to 6m these augers provide the perfect solution for extracting wood chip from a silo and transporting them to the boiler.

The spring arms keep the wood chip moving down into the open trough section from where the wood chip can be transported a further 5m from the silo to the boiler. The endpiece is fully customisable allowing these augers to be used with any make and model of boiler.

STANDARD FEATURES



Endpiece with motor drive

200-500kw motor range available, endpiece manufactured to suit boiler.

Closed trough section

Located exterior to the silo, the maximum length is 5m long.

Open trough section

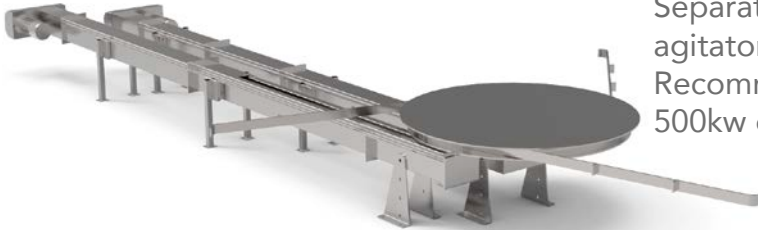
Located inside the silo, the maximum length is 3.5m long.

Agitator turntable and spring arms

Made to suit open trough size, the maximum angle is 25°.



Agitator Auger With Separate Drive



Agitator Auger With Separate Drive

Separate drive systems for both the agitator spring arms and the screw auger. Recommended when feeding boilers of 500kw or above.



Agitator Auger With Climbing Screw

Allows the agitator to be mounted horizontally within the silo with a climbing screw fitted to feed the boiler.



Twin Transport Augers

A special adaptor allows customers to use two augers to transfer wood chip over longer distances. The second auger can travel a further 9m maximum.

AGITATOR AUGER COMPONENT LIST

Prod Code	Description	Notes
S3CA	Basic Agitator Auger Package	Incl - Auger Motor, Endpiece & Turntable
S3COT	Open Trough Section (Per M)	Including Spring Arms & Auger Screw With Shaft. Up to 6m Max.
S3CCT	Closed Trough Section (Per M)	Including Auger Screw & Shaft. Up To 5m Max



Biomass Silo Systems



Web: www.biomasssilosystems.co.uk

Map of Europe with Countries - Single Color by FreeVectorMaps.com



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