

BEAVER SALES LTD

USED PELLET PLANT LOCATED IN BURNS LAKE, BC



Equipment

Bulk storage and conveyors to bagging system.

1 Press install second not purchased, each press 4 ½ tons per hour.

Wood processing plants by product

Wood shaving from planer mills and finger jointing plant (no glue)

Ground trim blocks

Moisture content 10% to 15 %

Material weight

chip@ 20% moisture 12 lbs. cu. Ft.

chip bone dry=9 lbs./cu ft

Dry meal =7 lbs.cu ft

Plant capacity

Design for 15t/h of pellet production

All conveyors for 15t/h of pellet production

Initial set up for 10 t/h of pellet production

Conveyor capacities

Transport of wet chips 15t/h of pellet

Pellets

Capacity of 10 t/h

1/8 particle size or smaller

Operating 7 days 24 hours

Structured maintenance

Estimated run time 8000 hours/ year per pelletizer.

Dry meal transfer conveyor

Drag chain conveyor.

Approx. 64 ft long

3/16 plate

30" wide

15 Hp drive motor.

Welded head sprocket

2 15/16 shaft

Single row ball bearing

Dry meal to pile conveyor.

Drag chain conveyor.

Approx 88 ft

3/16 plate

30" wide

One 15 hp drive motor.

2 15/16 shaft

Single row ball bearings

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Dry meal storage- entry bin

Dimensions to be confirmed.
High 204 inch
Welded and bolted construction
Divider between chain races
¼ inch plate
Channel support frame

Pelletizer feed conveyor

Drag chain conveyor.
Approx 96 ft long (to be confirmed)
3/16 plate
30" Wide
15 Hp drive motor.
Welded head sprocket
2 15/16 shaft
Single row ball bearings

Metering bin to pelletizer#1

12" channel bottom base frame
120 "long bottom base frame
Box support frame is angle 3 x 3 x 1/4.
3/16 plate for plating
One set of 3 bottom feed augers
Single row ball bearings
One drive sprocket
One 5 Hp drive motor.
Drive chain cover

Metering bin to pelletizer # 2

12" channel bottom base frame
120-inch-long x 48" wide
Box support frame is angle 3 x 3 x ¼.
3/16 plate for plating

One set of 3 bottom feed augers
Single row ball bearings
One drive sprocket
5 Hp drive motor.
Drive chain cover
Conditioning auger 1
Pelletizer 1
Pellet cyclone 1 and screen
Dust collector
Conditioning auger 2
Pelletizer 2
Pelletizer starter panel 2
Pellet cyclone 2 and screen
Dust collector
Conditioning auger3
Pelletizer 3
Pelletizer starter panel 3
Pellet cyclone 3

Conditioning/feed auger #1

One auger type condition
Approx 9 ft long
Connection for water or steam injection
Connection to metering bin.
One 3 hp drive motor(2.2kw)
One chute to pelletizer
One chute magnet

Pelletizer # 1

Distribution pot and feed augers
One receiving Pot
One agitator 3 Hp drive (2.2kw)
Two feed augers 1 Hp drive
One permanent magnet in feed chute (clean outdoor)

Frame

Welded steel construction
HSS tubing main support frame.
1" main base plate
Six (6) levelling pads with rubber cushions
Heavy duty box construction for gears and die chamber.
All line bored bearing housing seats
Pelletizer footprint 12 ft x 9 ft
All required safety guarding.

Dies

Two rotating dies
Synchronized in back with two spur gears.
Made from alloy steel (modified stainless)
Heat treated.
Two hard chromed pre compression rollers
Die removal device (with ¾ impact wrench
Effective chamber length to be established.
Dies are as a separate item.
Main shafts
Made from chromoly steel.
Precision machined for all bearing seat and seals.
Two tapered rollers bearing for main bearing.
Double row spherical roller bearings for out board bearing
Bearing housings are cast iron.
Continuous lubrication

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Labyrinth seals and double lip seals

Gear reducers

Two heavy duty industrial speed reducer #6

Two motor bases

Two 200 Hp motor (147)

Two gear coupling between gear box and main shaft

Belt drive from motor to gear reducer

Lubrication

Central lube system

To lubricate main bearings, gear reducer, and spur gears

One screw type lube pump

One lube cooler

Automatic temperature control

Maintenance

Die remove trolley.

1 die removal trolleys

Manual hydraulic lift

For die removal and install

Maintenance cart

1 maintenance cart

One ¾" impact gun

One set of sockets

One set of wrenches

Pellet cyclone and screen

Made from mild steel.

Wear plate liner in inlet

One bottom discharge air lock

One 2 hp drive (1.5kw)

Support legs to elevate cyclone and support scale.

Piping from pelletizer to pellet cyclone to dust collector.

Screen

One oscillating screen

One 2 Hp drive

Top cover connections for dust collection

Connection for bottom dust collector

Connection for bottom dust

Discharge into scales

Piping for dust transport to bagging system.

Pelletizer motor control # 1

Stand alone cabinet for main motor VFD.

575/3/60

Dust sealed enclosure

Air- conditioned

One enclosure for all other motors

One main disconnects.

One control transformer

Air conditioned

One cabinet for dust collector

One cabinet for pelletizer

One cabinet for pellet conveyors

Electric power supply to cabinets by others

Machine control

One operated console

All sensors and switches

All safety switches.

One control station at the machine touch screen interface

One PC for programming

Dust collector # 1

One dust collector

Pulse air system

Special fabric for increased air moisture

One 35 Hp blower motor

Two collecting points of dust on the pelletizer

Two collecting points for pellets on pelletizer

One dust collecting point on fines discharge of screener.

One dust collecting point on top screener top.

One air lock on discharge 1 Hp

Bottom flange to connect to high pressure fuel blower.

Spark detection and water mist

One about damper

One return air gate

One return air muffler

Conditioning/feed auger#2

One auger type conditioner

Approx 9 ft long

Connection for water or steam injection

Connected to metering bin.

One 3Hp drive motor (2.2kw)

One chute to pelletizer

One chute magnet

Pelletizer# 2

Distribution pot and feed augers

One receiving pot

One agitator 3 Hp drive (2,2kw)

Two feed augers 1 Hp Drive

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One permanent Magnet in infeed chute

Frame

Welded steel construction

HSS tubing main support frame.

1" main base plate

Six (6) levelling pads with rubber cushions

Heavy duty box construction for gears and die chamber.

All line bored bearing housing seats

Pelletizer footprint 12ft x 8 ft

All required safety guarding.

Dies

Two rotating dies

Synchronized in back with two spur gears.

Made from alloy steel (modified stainless)

Heat treated.

Two hard chromed pre compression rollers

Die removal device (with ¾ impact wrench)

Effective chamber length to be established.

Dies are quoted as a separate item.

Main shafts

Made from chromoly steel.

Precision machined for all bearing seats and seals.

Two tapered rollers bearing for main bearing.

Double row spherical roller bearings for out board bearings

Bearing housings are cast iron.

Continuous lubrication

Labyrinth seals and double lip seals

Gear reducers

Two heavy duty industrial speed reducer#6

Two motor base

Two 200 Hp motor (147kw)

Two motor base

Two 200Hp motor (147kw)

Two gear coupling between gear box and main shaft

Belt drive from motor to gear reducer

Lubrication

Central lube system

To lubricate main bearings, gear, reducer, and spur gears

One screw type lube pump

Automatic temperature control

Maintenance

1 die removal trolleys

Manual hydraulic lift

For die removal and install

Maintenance cart

1 maintenance carts

One ¾ impact gun

One set of sockets

One set of wrenches

Pellet cyclone and screen #2

Made from mild steel.

Wear plate liner in inlet

One bottom discharge air lock

One 2 Hp drive (1.5kw)

Support legs to elevate cyclone and support scale.

Piping from pelletizer to pellet cyclone to dust collector.

Screen

One oscillating screen

One 2 Hp drive

Top cover connections for dust collector

Connection for bottom dust

Discharge into scales

Piping for dust transport to bagging system.

Pelletizer motor controls #2

Stand alone cabinet for main motor VFD.

575/3/60

Dust sealed enclosure

Air-conditioned

One enclosure for all others motors

One main disconnect.

One control transformer

Air conditioned

One cabinet for dust collector

One cabinet for pelletizer

One cabinet for pellet conveyors

Electric power supply to cabinets

Machine control

One operator console

All sensors and switches

All safety switches.

One control station at the machine touch screen interface

One PC for programming

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Dust collector # 2

One dust collector
Pulse air system
Special fabric for increased air moisture
One 35Hp blower motor
Two collecting points of dust on the pelletizer
Two collecting points for pellets on pelletizer
One dust collecting points on fines discharge of screener.
One dust collecting point on screener top.
One air lock on discharge 1 Hp
Bottom flange to connect to high pressure fuel blower.
Spark detection and water mist
One abort damper
One return air gate
One return air muffler
Conditioning Auger# 3-phase 2
Pelletizer# 3 – phase 2
Pelletizer start panel# 3- phase 2.

Pelletizer Cyclone # 3- phase 2

Pellet conveyor to bin

Pellet storage bin
Incline pellet conveyor
Pellet transfer to bagging system
Bagging system (**not included**)
Pellet conveyor to bin
One slider bed belt conveyor
24" wide
Pocket belt
One head pulley
One tail pulley
28 ft long
One 5Hp drive
Pellet storage bin
Bolted construction
Multiple segments 20 ft long
16 ft wide
One bottom discharge auger
One 5 Hp drive
Incline pellet conveyor
One slider bed belt conveyor

28 ft long

Pocket belt

One head pulley

One tail pulley

One 7.5 Hp drive motor.

Pellet transfer to bagging

Pellet slider bed belt conveyor

58 ft long

Pocket belt

One head pulley

One tail pulley

One 5 Hp drive motor.

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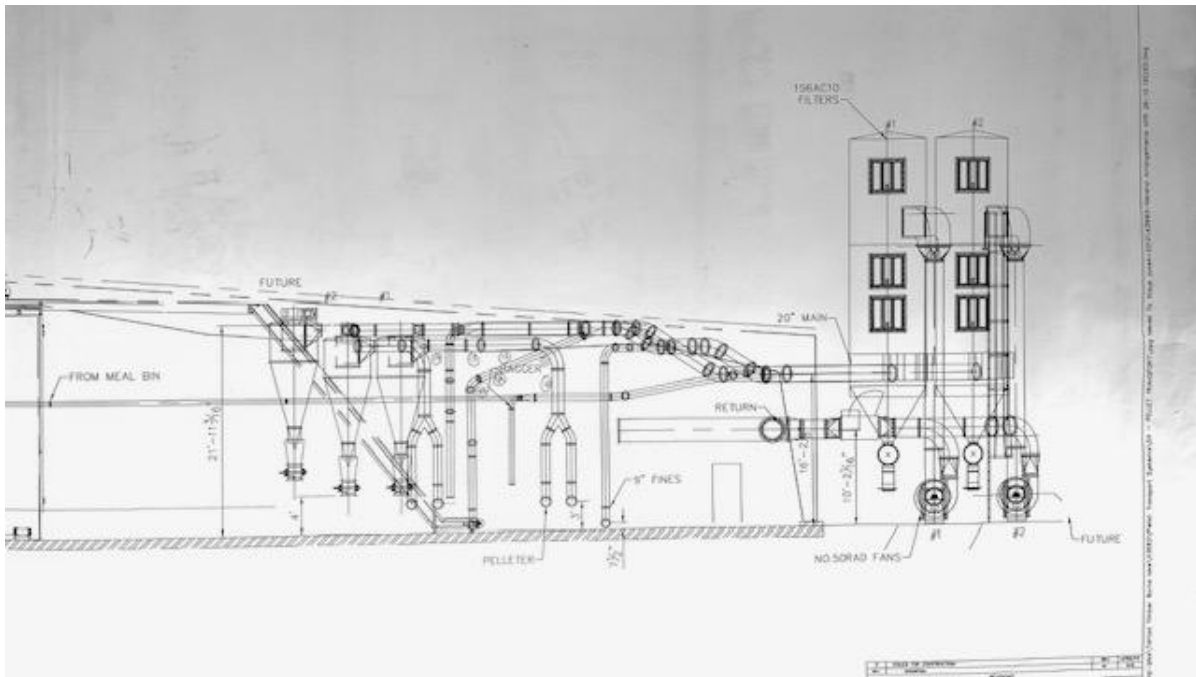
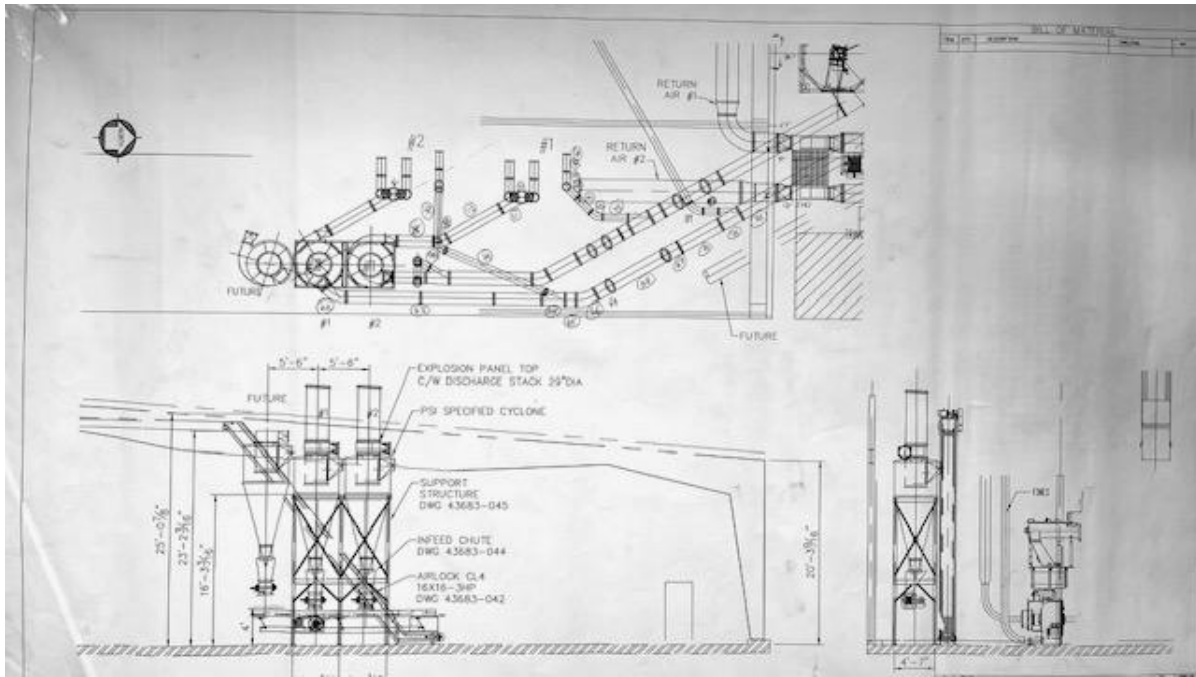
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