

CONVERSION OF BIOMASS MATERIALS TO ENERGY



Surya Energy & Engineering Services



WE CATER TO THE following INDUSTRIES



BIOMASS BASED CO-GENERATION POWER PLANTS

SUGAR MILLS

PULP & PAPER MANUFACTURES

DISTILLERIES

EDIBLE OIL REFINERIES

VENEER & PLYWOOD INDUSTRIES

CHIP BOARD & FIBER BOARD PLANTS

PHARMACEUTICAL MANUFACTURES

TEXTILE MILLS

ALL BOILER RELATED INDUSTRIES



ALL TYPES OF
BIOMASS MATERIAL
MADE IN TO USABLE
BOILER FURNACE FUELS

Our Products

Wood chipping machines

- ▶ These machines are used in chipping wood of any nature into chips of 7MM to 25MM size.
- ▶ The machine comes in ~~three~~ ^{four} different capacities ~~30 HP, 100 HP & 150 HP~~ ^{30, 100, 150 HP & 250 HP}
- ▶ ~~30 HP~~ Machine : Wood size upto 2 inch diameters and length of 1.5 meters can be fed into this machine. This machine has an out put of 2- 3 Metric Tons /Hr



into this machine. This machine has an out put of 2- 3 Metric Tons /Hr

▶ 100 HP Machine: Wood size of 1 to 5 inch diameters and length of 1.5m can be fed into this machine. This machine has an output of 8-10 Metric Tons/Hr.

▶ 150 HP Machine: Wood size of 1 to 8 inch diameter and length of 1.5m can be fed into this machine. This machine has an output of 13-15 Metric Tons/Hr.

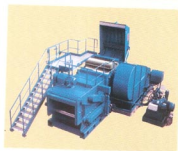
NB: Wood size upto 18 Inch Dia can be reduced by using our wood splitting machine (ref: wood splitting machine).

Technical Specifications Of Four Different Models Of Wood Chipping Machines

Specification	30 HP	100 HP	150 HP	250-225 HP
Chipper type	Disc	Disc	Disc	Disc
Disc Dia x Thickness	600 x 50 mm ± 2	1000 x 73 mm ± 3	1200 x 85 mm ± 3	1350 x 90 mm ± 3
No. of Fly knife	4	4	4	4
No. of dead knife	1	1	1	1
Blade Tip height from Disc face	Maximum 14 mm Minimum 7 mm	Maximum 14 mm Minimum 7 mm	Maximum 14 mm Minimum 7 mm	Maximum 14 mm Minimum 10 mm
No of bearing Supports	2	3	3	3
Feed	Manual by gravity	Manual by gravity	Manual by gravity	Manual by gravity (after roller conveyor of 1 mt. long)
Hand of Feed	Right or Left (On request)	Right or Left (On request)	Right or Left (On request)	Right or Left (On request)
Feed Material Size	Maximum 3" dia	1.5" to 5" dia	1.5" to 10" dia	Up to 14" dia
Disc R.P.M	1400	1000	900	800
Drive	"V" Belt	"V" Belt	"V" Belt	"V" Belt
Motor HP/RPM	30/1440	100/1440	150/1440	250/225/960
Capacity	2-3 MT/HR (if 20% moisture) up to 30% moisture	7-10 MT/HR (if 20% moisture) up to 30% moisture	10-15 MT/HR (if 20% moisture) up to 30% moisture	13-17 MT/HR (if 20% moisture) up to 30% moisture
Chip Size	7mm to 24mm	7mm to 24mm	7mm to 24mm	7mm to 24mm
Unsize chips	3 to 5% /MT	3 to 5% /MT	3 to 5% /MT	3 to 5% /MT
Weight of Machine	1300 Kgs	2500 Kgs	5000 Kgs	6000 Kgs

Our Products

Drum Chipper Machines



TECHNICAL SPECIFICATIONS OF DRUM CHIPPER

Chipper Type	Drum Model
Drive HP/RPM	250/960 (Induction type)
Drum dia x length	1300 x 830 mm
No of Fly Knives	3 (830 x 160 x 20)
No of dead Knife	1
No of bearing supports	2
Mode of feeding	By Conveyor & Grip Roller
Feed Material Size	20" Dia Maximum
Drum RPM	320
Drive	'V' Belt
Capacity	26 to 32 MTS/HR
Chip Size	15 mm to 30 mm
Unsize Chips	5 to 7%
Weight of Machine	8000 Kg
Infeed Conveyor Details	
Mode of Feeding	By grip roller and hydraulic pressing
No.of Grip rollers	4 Nos on top, 5 Nos on bottom
Conveyor drive HP	Top Feeder 10 HP, Bottom Feeder 10 HP
Conveyor gear box	1:30
Infeed Conveyor	5 Mts long, 850 mm Wide (Belt type)
Conveyor HP	10HP
Hydraulic Power Pack	3 HP