Pellet Mill

No bearing inside roller shell

CATALOGUE 2020

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Company Introduction

OPPS GROUP LIMITED is member of Chongqing Gearbox Co.,Ltd （http://www.cccme.org.cn/）.is one of members of China Shipbuilding Industry Corporation, which is the central-goverment controlled large-size enterprise, specialized in designing and manufacturing high precision and case hardening gearboxes, couplings, dampers for marine industry, and gearboxes for building materials, hydroelectric power, thermal power, nuclear power and wind power industries, yaw and pitch drive, high precision automobile engine gears. The company was founded in 1966 and locates in Jiangjin District roughly 50 kilometers southwest of Chongqing city. Its total assets amount to RMB 2.3 billion and it covers a total land area of 530，000m2，Its total number of the employee is more than 2300.

The Process of our factory

R&D ➡ Moulding and Casting ➡ machining ➡ Assembly ➡ Installation and Commission.

R&D

Moulding and Casting

Machining

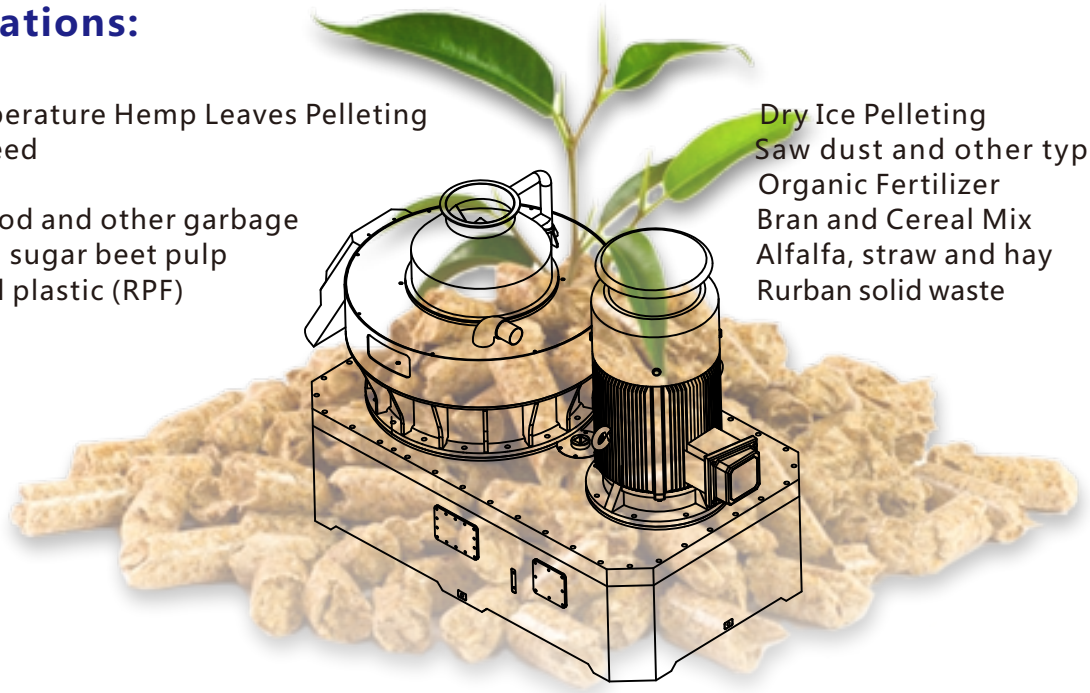
Quality Control (Different type of NDT and Heat Treatment)

Testing Equipment

Installation and Commission

Applications:

Low Temperature Hemp Leaves Pelleting
Animal Feed
Compost
Rest of food and other garbage
Colza and sugar beet pulp
Paper and plastic (RPF)



Dry Ice Pelleting
Saw dust and other types of biomass
Organic Fertilizer
Bran and Cereal Mix
Alfalfa, straw and hay
Rurban solid waste

Main Features

Pellet Cutter (We invent new design of bearing to extend service time for the cutter)

Helical Gear (the design service time will be 15- 20 years)

Brand of eletric motor is famous and the speed of the electric motor is 4P/6P

Heat Exchange plate is installed to cooling down the oil to make sure temperature is lower than 60 ℃

No Bearing inside the roller shell (but underneath)

Two Layers of ring die will extend service time a lot, circled groove will prevent the dust leaking effectively.

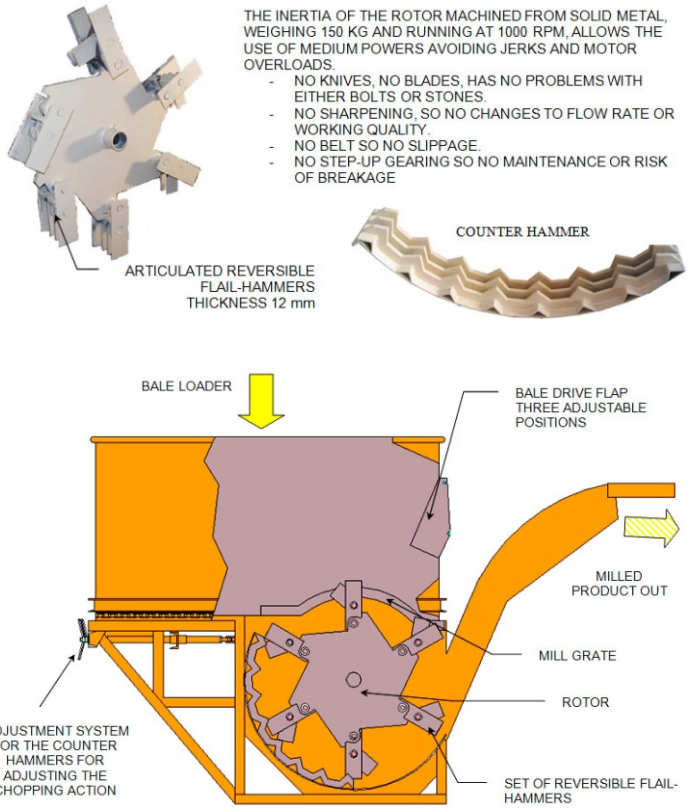
Oil Filter to clear up the oil all the time to extend the service time for all the bearing inside.

Technical Data Sheet

Model OSK		OSK 55	OSK220	OSK280
Die	inside Diameter(mm)	580	780	980
	Capacity (T/H)	0.8-1	3-4	5-6
Roller	Quantity	3	3	3
main motor	power (kw)	55	220	280
Feeder	motor (kw)	1.5	2.2	3
	speed (rpm)	500	500	500
outline dimension	mm	2800x1200x1650	3200x1600x1800	3600x2000x1900
Weight	N.W	4500kgs	13200kgs	16800kgs

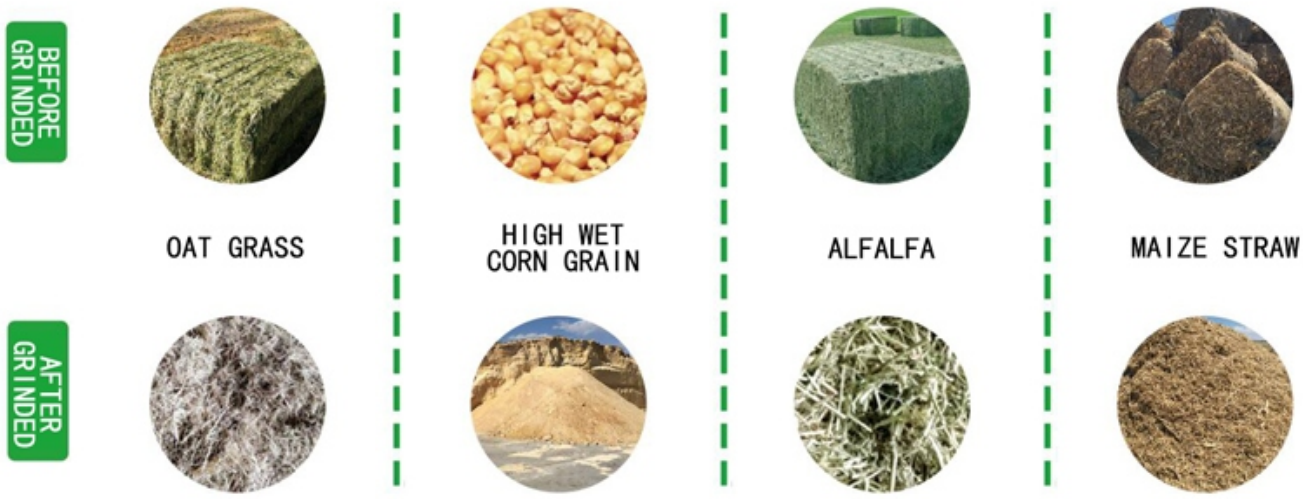
Large Scale Hay Tub Grinder

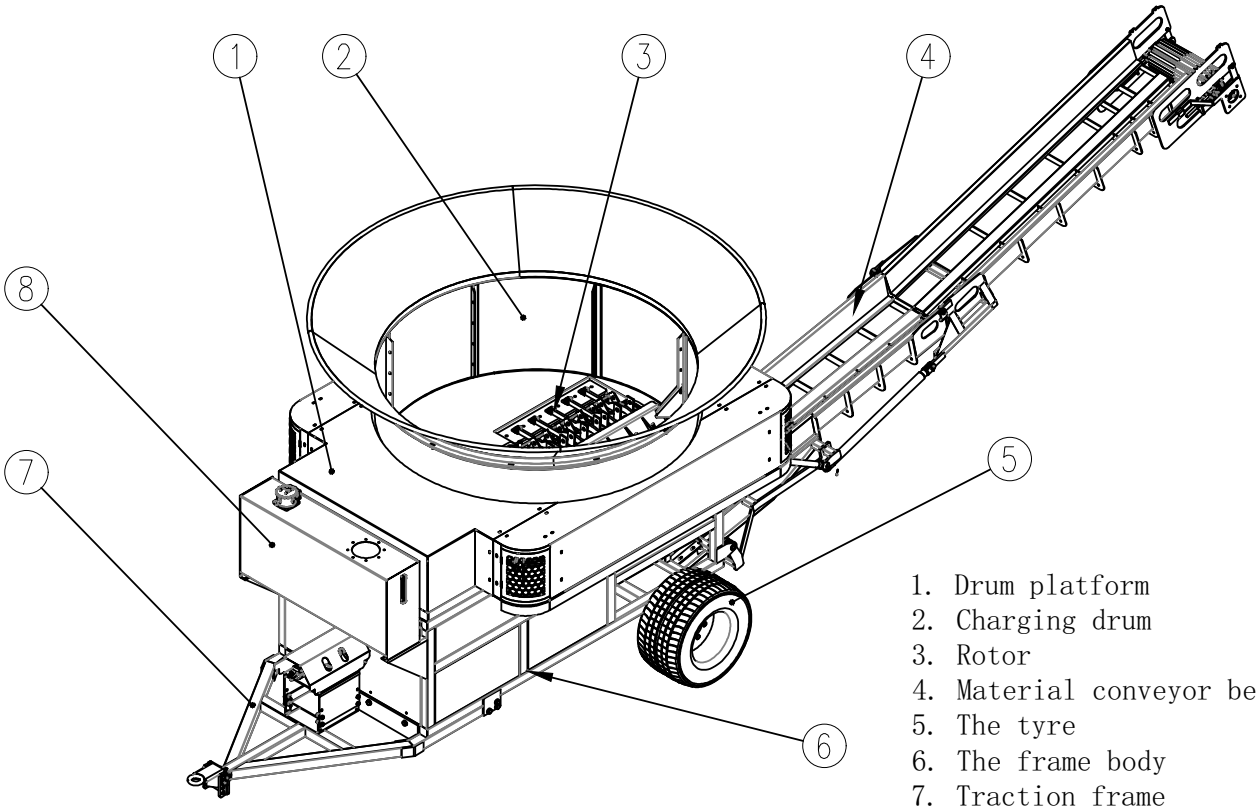
The combined tractor power eof G1000 is 90-180hp, the rotational speed of the PTO shaft is 1000rpm. According to the different grass grinding lengths, the production efficiency can reach 3-15 tons per hour, and for grain grinding like corns. It can reach 40-70
tons per hour. Besides meeting the farm' s self-use requirement of 5000 heads beefs, it can be also used to process for other farms to collect extra fee, thereby improve the utilization rate of the equipment and increase more benefits. grass grinded by our machine soft texture, which can significantly improve the cattle feed intake of 1.5kg/ head/day, and easy to digest, can effectively improve the beef production, generally increase the meat production of 0.5% to 2%. it grinders grass as well as high wet corn kernels (30% moisture), high grinding efficiency, more than 40 tons per hour, crushing effect is good, can be directly used in high humidity corn silage, high wet corn
silage can effectively reduce feed costs, use of silage corn and humidity each head of cattle feed costs can be saved by USD0.5 a day.



Advantage:
Simple structure
Reasonable design
High Quality steel
Low failure rate
Low maintenace cost
Best Choice for large scale farms

Grass type: Herbage, rice straw, oat grass, alfalfa, corn straw, rape straw, wheet straw, weeds, etc.
Grains : Corn kernels (high moisture content), corncobs, etc.
Grinding length: 30-200mm
Tractor driven power: 90-180 hp
Motor drive power: 90-150kw





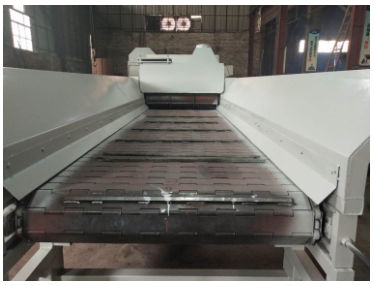
1. Drum platform
2. Charging drum
3. Rotor
4. Material conveyor belt
5. The tyre
6. The frame body
7. Traction frame
8. Oil tank

Technical Parameters — G800	
RotorCutting Mill	Flyknife:wear-resistingalloy material
	Fly knifeshaft:high strength alloy steel
	Bearing SKF
Rotorspeed	speed:1730rpm
flying knife qty	80 pcs
flying knife diameter	680mm
Crushingprinciple	Bladecuttingrushing
Combined power	75kw motor
Motor speed	1450rpm
Screenmesh	thickness:6mm
	Diameterofhole:50mm -125mm
Drum /Tub	Thickness:3mm
	Transmissionmode :chaintype
Drum speed	3-8 r/min
Working Efficiency	2-5t/h
Starting Model	Star triangle start
	soft start optional
	Auto-transformer start optional
Grasstype	grass, straw,wheat grass,alfalfa,corn stalk,rape stalk, straw, weed,etc
Currentprotector	Optional
Overloadprotector	Optional

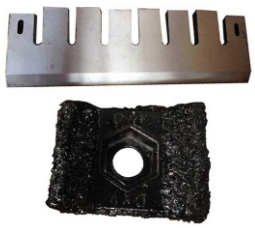
Technical Parameters — G1000	
RotorHammer Mill	Flyhammer :64 pcs,wear-resisting alloy
	Flyhammer shaft:8pcs,strength alloy steel
	Bearing:SKF
	Drive:PTO
Combined Power	Tractor drive :90-180HP
	Motor drive:90-150kw
	PTO speed:1000rpm
Screenmesh	Thickness:6mm
	Diameterofhole:6mm -125mm
Drum / Tub	thickness:3mm
	outside width:3.2mm
	inside dia: 2.3mm
	depth:0.8m
screwpusher	type:Bi-column symmetric
	length :1150mm
Discharging conveyor	Type:folding hydraulic drive
	maximum lifting height:4.19m
	Belt:rubber
Transporsize	6500x3200x3200mm
	5300kgs

Wood Chipper

Raw material for mobile drum wood chippers usually consist of undersized logs, wood cutting residue (such as branches and logs),wood processing residue(slabs, battens, wood cores and waste veneer) and non-wood material(such as flas, cotton stalk, reed, and bamboo waste)



Type	DX 216	DX 217	DX 218	DX 426	DX 428
RotorDiameter(mm)	650	650	800	650	800
Cuttingdevice(qty)	3 blades	3 blades	3 blades	20-35 hammers	20-35 hammers
screensize	Φ50	Φ50	Φ50	Φ60	Φ60
inputsize(mm)	540x240	680x240	680x310	1250x250	1250x310
Bladespeed(rpm)	590	590	650	600	650
Rateoffeeding(m /m)	38	38	35-38	38	38
Max Materialdiameter(mm)	220	220	300	240	300
Wood Chip(length)(mm)	30-50	30-50	30-50	30-80	30-80
Capacity(t/h)	6—8	8—10	10—12	8—10	10—12
Main Power (kw)	55	75	110	110	132
FeedingMotor (kw)	3+4	3+4	5.5+4	5.5+5.5	5.5+7.5
DischargingMotor (kw)	3+3	3+3	3+3	5.5+5.5	5.5+5.5
oilpump motor(kw)	1.5	1.5	1.5	1.5	1.5
FeedingConveyor length(mm)	4000	4000	4000	4000	4000
DischargingConveyor length(mm)	10000	10000	10000	10000	10000
Weight(t)	4.5	5.8	7	8.2	10.4



Type	DX1710	DX 1212	DX1300	DX 1112	DX1216	DX 1800
RotorSpeed (mm)	635	635	650	650	620	420
Blade(qty)	6	6	6	6	6	6
Chip size(mm)	20-35	20-35	20-35	20-35	20-35	20-35
inputsize(mm)	270x270	320x320	350x350	400x400	420x420	500x500
Capacity(t/h)	5-10	10-15	13-18	15-18	15-25	20-40
Main Power (kw)	55	90	90	110	160	160
Feeding+Dischargingmotor (kw)	3+3	3+3	3+3	3+3	3+3	5.5+5.5
DiscDiameter(mm)	1150	1300	1300	1300	1600	1800
Weight (t)	2.18	2.9	4.25	4.58	5.58	6.5
FeedingConveyor width(mm)	350	350	350	450	470	550
FeedingConveyor length(mm)	4000	4000	4000	4000	6000	6000
DischargingConveyor width(mm)	600	600	600	900	900	1300
DischargingConveyor length(mm)	10000	10000	10000	10000	10000	10000

Mobile Wood Brush Chipper

Technical Data Sheet

Diesel Engine	Yuchai	Yuchai
Total Power	90KW(120hp)	180KW(240hp)
Fuel	Diesel	Diesel
Blad(pcs)	2	2
Bottom Blade(pcs)	1	1
inlet size(mm)	440x360	500x500
Wood Maximum Diameter(mm)	250	300
Outlet chute Height(mm)	2700	2700
Outlet chute rotation angle	3600	3600
Chips size(mm)	≤30	≤30
Wheel	dual wheel	dual wheel
Capacity(t/h)	5-8	8-10
Dimension(LxWxH)(MM)	3800x1600x2700	4500x2100x3000
Weight (t)	2.8	4.2

Hammer Mill

screen vibration technnology

The superior in-feed system together with the overall robust constructuction of ---Chippers, with extensive use of Hi-Tensile steel, secures effectiveness, large capacity and durability.

"Scissor cutting" Technology

Add stationary hammer inside grinding chamber changing the trajuectory of the particle, increased friction and shear frequency, the grinding efficiency improved over 40%, stationary hammer reduced wear on screen and hammers life of wear parts extended.

Patented penumatic vibration technology

Add balde on rotor to generate pulse penumatic pressure inside grinding chamber, qualified particle with come out of the grinding chamber. In a timely matter, the grinding chamber maintaining a low temperature working status.

40% production capacity improved

Stock feed grinding, aqua feed grinding, fox&raccoon feed grinding, starch grinding, raw alcohol grinding, citrate grinding, corn grinding, corncob grinding, peanut protein grinding, chaff grinding, etc

More uniform particle size achieved

Premium quality stock feed grinding, seasoning grinding, cigar bar grinding, water retention grinding, phenolic molding compound grinding, low activiity concentrated feed grinding, etc.
Super fine grinding upto 100 mesh
60 mesh fermented soybean meal grinding, 80-100 mesh shrimp, soft-shell turble, crab feed grinding, 100 mesh pernut protein grinding, 100mesh puffed corn grinding, 60-80 mesh chaff grinding, etc.

Low noise grinding condition

With similar capacity and fitness using inverter technology, grinding condition noise for 75kw-2 pole motor hammer mill is lower to 85 Db. Power consumption is obviously lower.

Technical data sheet

model	800	1000
speed	2600rpm	2300rpm
Output kw	45+7.5	75+15
capacity t/h	1.5-2	2.5-3.5
Feed size	5cm	5cm
Weight	1800kgs	2800kgs

model	1300	1500
speed	2300rpm	2000rpm
Output kw	2x55+5.5	2x75+5.5
capacity t/h	4-5	5-6
Feed size	5cm	5cm
Weight	3500kgs	4500kgs