

# YongHua Machinery

## PRODUCT BROCHURE

YONGHUA

## ● Pressure Ball Machine

Pressure Ball Machine can be used to press various powders such as coal powder, iron powder, coking coal, slag, oxidation iron sheet, carbon dust, gypsum, tailings, sludge, kaolin, active carbon and burnt powder, etc. Mineral Powder Ball Press Machine applies to industries such as refractory material, electric power plant, metallurgy, chemical industry, energy, transportation and heating, etc.



## ● Working Principle

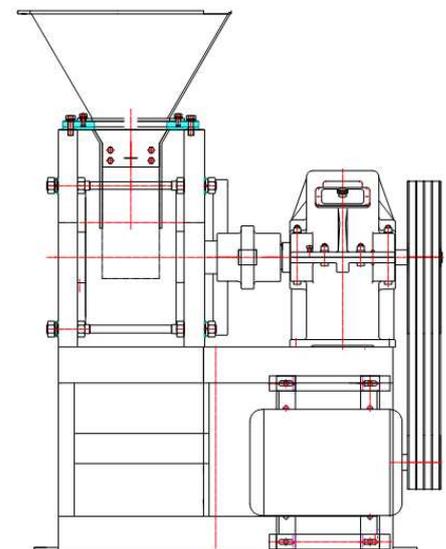
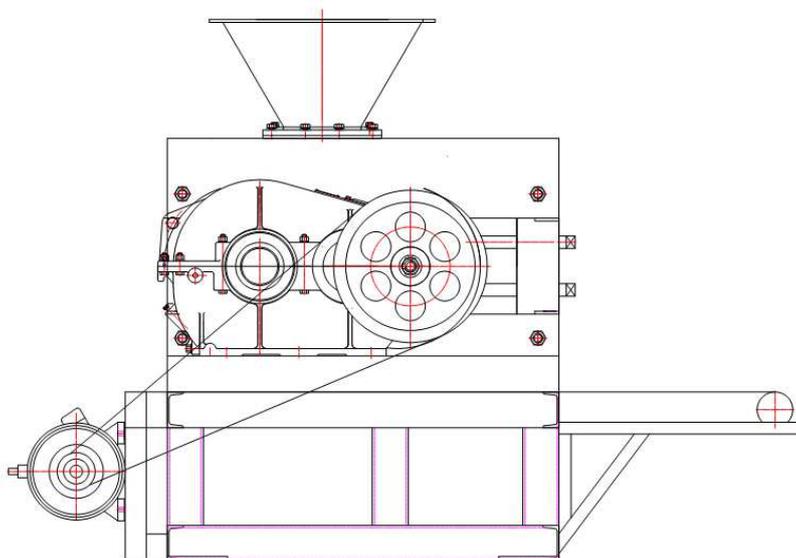
Pressure Ball Machine's two vice-roll pre-press materials in the form of pipeline to lay a solid foundation for the finished ball. For finished products, the ball has a solid foundation. After the main roll for feeding and secondary pressure, the pressure of materials is multiplied, squeezing the ball into a more solid product. After the raw materials pass this line, the briquetting pressures diminish quickly, and then make the materials enter off-ball state and off the ball smoothly.

Related Models : Lime Briquette Machine, Desulfurization Gypsum Briquette Machine, Magnesium Briquette Machine, Coal Briquette Machine, etc.

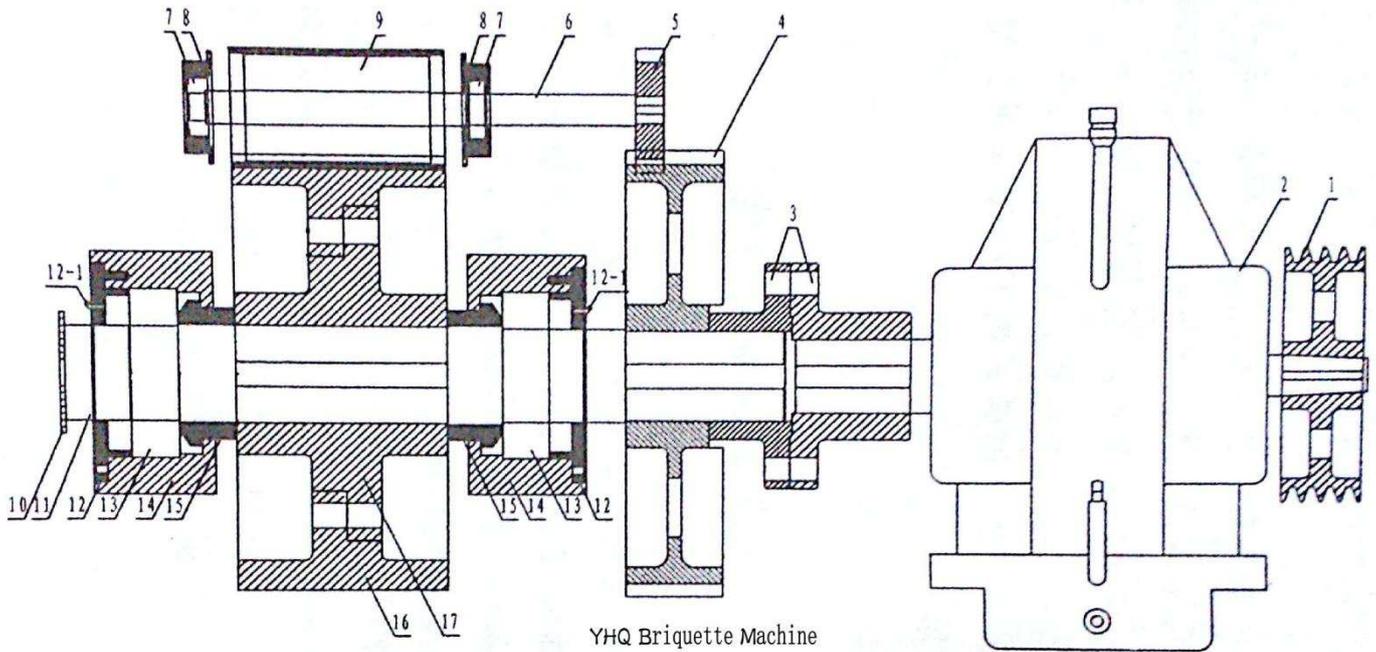
## ● Technical Parameters of the Main Types

Type	Capability (t/h)	Roll Diameter (mm)	Pressure (t)	Roller Surface Pressure (t/cm)	Roll Speed (r/min)	Power (kw)	Reducer
YHQ-290	1.5-2	290	18-20	1	15-17	5.5	ZQ300
YHQ-360	2.5-3.5	360	20	1	15-17	7.5	ZQ350
YHQ-400	4-5	400	22	1	15-17	11	ZQ400
YHQ-430	5-7	430	23	1	15-17	11	ZQ400
YHQ-500 I	6-8	500	24	1-2	15	15	ZQ500
YHQ-500 II	8-10	500	25	1-2.5	15	22	ZQ500
YHQ-650	10-15	650	30	1-2.5	15	30	ZQ650
YHQ-750	15-20	750	34	1-2.5	13	30	ZQ750
YHQ-850	25-30	850	54	1-2.5	13	37-45	ZQ850
YHY1000 I	35-40	1000	60	1-2.5	12	45-75	ZSY-355
YHY1000 II	35-45	1000	77-240	2-2.5	10	75-90	ZSY-400
YHY1200	45-50	1200	320	2-3	10	132	ZSY-500

Technology is constantly updated, to the actual subject.



● The parts diagram of The main part



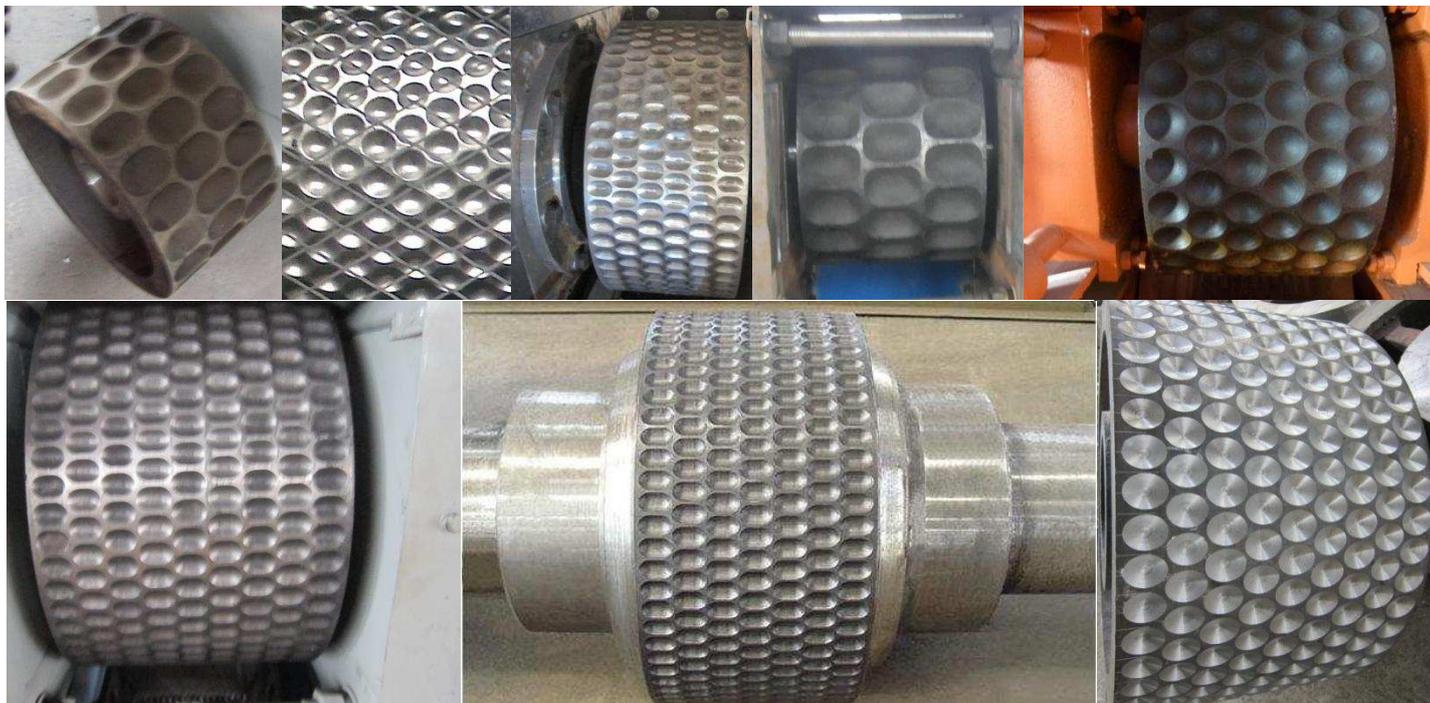
1. Belt Pulley 2. Reducer 3. Couplings 4. Large Gear 5. Pinion 6. Vice Platen Roller Shaft 7. Bearing  
 8. Bearing Box 9. Vice Roller 10. Large Sprocket 11. Main Roller 12. Bearing Gland 12-1. Grease Fitting  
 13. Bearing 14. Bearing Box 15. Dust Cover 16. Big Pressure Roller 17. Roll Core



● **Pressure Roller And the Ball Shape**

The major parts of the briquetting machine, which is the roller. It depends on its quality of the roller's life. The roller's material is 65Mn and it divide into two kinds, one is whole casting, and the other is forging according to forming method. The density is small and the structure is rough, but economic. Casting is formed by air hammer heavy, which improve the density and wear resistance, so that it extends the service life of the roller. The cavity of the roller has good flow chart. This kind of roller fit for all kinds of materials. It fits for metal powder materials, but the disadvantage is a little expensive cost.

Standard configuration roller is cast metal 65Mn ( $9Cr2Mn2$ ), while providing forged roller optional.



The Shape and size of the ball can be customized.



- **Other Supporting Machine in Production Line**

Other supporting this machine equipment: crusher (vertical crusher, hammer crusher, combination crusher, impact crusher, grade crusher), grinding machine, silo storage, feeder machine, belt conveyor (belt conveyor, flat conveyor, screw conveyor, etc.), dryer (drum dryer, vertical dryer, belt dryer, etc.), so that you can choose which according the practical situation.

- **Precautions**

- 1 . The size of material cannot more than 3mm, and it doesn't allow more than 3mm bulk material or metal into the equipment.
- 2 . It mustn't start under heavy load, and if not it's possible to lead to damage equipment.

- **Wearing parts**

- 1 . Bearing ( About 20000hours )
2. Rollers ( About8000hours )

- **Remarks**

1. Terms of Payment:

30% of the total amount paid in advance (T/T); to pay the balance before delivery (T/T or LC)

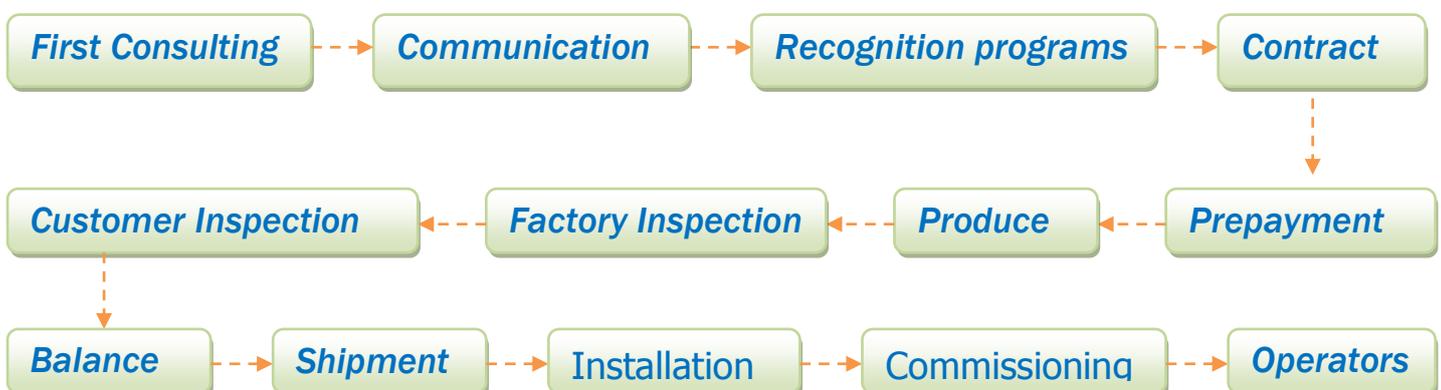
2. Delivery Time: About 7-25working days after receipt the down payment depending on the equipment.

3. Inspection: The buyer can inspect all the machines in seller's factory before the seller makes delivery.

4. Warranty: The quality guarantee is 12 months. If any part (excluding easily damaging parts and damage by incorrect operation) is found defective in quality within warranty, the seller will replace it for free. After warranty, spare parts can be replaced on favorable payment basis.

5. Installation : We are responsible for guide installation and commissioning.

### **Transaction Process**



## ➤ About YongHua

Henan Yonghua Machinery Manufacturing Co., Ltd. is a high-tech Company which professional manufacturing the production of coal briquette equipment, building material equipment, and mining machinery.

After 30years of development, YONGHUA is now setting up branches, integrating engineering, trade, research and development, production and sale to develop to be a large sized enterprise. YONGHUA has modern standard workshops, as well as advanced technology and testing equipment. Extensively cooperating with coal research institutions and other research departments, YONGHUA have continuously improved product values and performance. Now, 10,000-300,000 tons briquette production lines are renowned in domestic and foreign markets, and YONGHUA products have been exported to Indonesia, Kazakhstan, Vietnam, North Korea, Egypt and other countries and regions. It is ideal equipment for briquetting mine power in the world market.



YONHUA provide space planning and design, equipment installation and commissioning support. Our company persists in the philosophy of "quality for survival, reputation and development", and YONGHUA strive to build a world well known brand to satisfy customers in order to let them rest assured with comfort. YONGHUA Company is willing to take full use of the new technology, dedicated to providing superior products with reliable quality, favorable prices and perfect service for users who need us to design, manufacture and install coal production lines.

2013 is a milestone year in the history of YONGHUA, the 20,000-square-meter new manufacturing base to be built; we will continue to adhere to "Quality is our eternal pursuit and pride", create new glories with customers! Welcome to YONGHUA for visiting and seeking common development.

## Main Product Catalog

Crushing Equipments	Beneficiation Equipments	Molding Equipments	Drying Equipments
Jaw Crusher	Ball Mill	Briquetting Machine	Rotary Dryer
Hammer Crusher	Tube Mill	High Pressure Ball Machine	Mesh Belt Dryer
Impact Crusher	Cone Ball Mill	Gypsum briquette machine	Vertical Dryer
Roller Crusher	Rod Mill	Coal briquette machine	Plate Dryer
Cone Crusher	Vibrating Screen	Charcoal Briquette Machine	Rotary Kiln
Impact Hammer Crusher	Vibrating Feeder	Mineral powder briquette machine	Cooler
Hammer-type Fine crusher	Belt Conveyor	Magnesium Briquette Machine	Steam Curing Car
Ring Hammer Crusher	Magnetic Separator	Wheel Mill	
Vertical Shaft Hammer Crusher	Flotation Machine	Mixing Drum	
Vertical Impact Crusher	Spiral Classifier	Double Spiral Mixer	
Mobile Crushing Plant	Screw Conveyor	Batching machine	

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Yonghua Machinery Manufacturing Co., Ltd.



● LYQ Series Hydraulic Briquette Machine

Type	Diameter(mm)	Roller Width(mm)	Power(kw)	Capacity(kg/h)
LYQ 0.5	Φ 299	180	18.5	500
LYQ 1.0	Φ 367	183	37	1000
LYQ 1.5	Φ 367	183	45	1500
LYQ 2.0	Φ 399.5	252	45	2000
LYQ 3.0	Φ 522	196	55	3000
LYQ 5.0	Φ 700-738	210/225	75	5000
LYQ 6.0	Φ 738	225	90	6000
LYQ 8.0	Φ 758	225	110	8000
LYQ 10	Φ 858	300	110	10000

● Roller parameters

Type	LYQ0.5	LYQ1.0	LYQ1.5	LYQ2.0	LYQ3.0	LYQ5.0	LYQ6.0	LYQ8.0	LYQ10.0
Roller Diameter	299	367	368	399.5	522	738	738	760	860
Groove Quantity	108	200	200	240	300 360	504 560	588	616	1000
Roller Width	180	183	183	252	196	210 225	225	225	300
Roller Material	9Cr2Mo								
Roller Hardness	HRC58-60								
Capacity (t/h)	0.5	1	1.5	2	3	5	6	8	10

● Motor

Type		LYQ0.5	LYQ1.0	LYQ1.5	LYQ2.0	LYQ3.0	LYQ5.0	LYQ6.0	LYQ8.0	LYQ10
Main Motor	Type	YCT250-4	YCT315-4	YCT315-4A	YCT315-4A	Y280M-6	Y315S-6	Y315M <sub>1</sub> -6	Y315M <sub>2</sub> -6	Y315M <sub>2</sub> -6
	KW	18.5	37	45	45	55	75	90	110	110
Feeder Motor	Type	YCT200-4B	YCT225-4	YCT225-4	YCT225-4	YCT225-4	YCT250-4	YCT250-4A	YCT250-4A	YCT250-4A
	KW	7.5	11	15	15	15	18.5	18.5	18.5	22

- Hydraulic Device Parameters

Type	LYQ 0.5	LYQ 1.0	LYQ 1.5	LYQ 2.0	LYQ 3.0	LYQ 5.0	LYQ 6.0	LYQ 8.0	LYQ 10	
The oil pump of motor	Model	DBD0.8								
	Rated Flow	0.8 L/min								
	Rated pressure	800kgf/cm <sup>2</sup>								
	Working pressure	85-120k gf/cm <sup>2</sup>	120-150 kgf/cm <sup>2</sup>	140-160 kgf/cm <sup>2</sup>			140-180 kgf/cm <sup>2</sup>			
	Diameter	Φ 150	Φ 200		Φ 160	Φ 200			Φ 240	
	Maximum Thrust	42t	94t	120t	128t	180t	250t	300t	360t	

- Application

Hydraulic Briquette Machine also named dry power briquette machine. The Hydraulic Briquette Machine mainly applies on the ball making of non-ferrous metal and ferrous metal mineral powder, it enters the furnace directly to increase the additional value. All metallurgy industry waste and accessory that need furnace use ball briquetting machine. Such as dedusting ash, pool mud, oxide, slag, iron flavor powder, aluminum ash powder, silicon manganese ore powder, etc. Pressed powder materials into a ball to reduce dust and facilitate transport. Such as iron powder, charcoal, clay, coke breeze, coal, lime powder, etc.

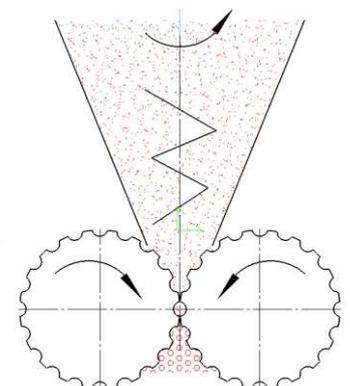


- Requirements for materials

1. Material size about 80 to 200 mesh.
2. Materials are not allowed has hard metal objects to avoid damaging the pressure roller.
3. Return materials should not have too much clumps(≤3mm), return materials is not more than 50% in the feeding materials.
4. Supply of materials must be sufficient, use variable speed screw feeder is better.

- Working Principle

Hydraulic Briquette Machine will pass the power on to the two pressure roller through the reducer. The two sides and roll rotation, in both the rotating roll, Natural materials to enter the ball roll mode, with the roll rotation, material pressure on a small become larger, when the material to the two rollers rotating line contact point, the pressure of materials has reached the peak. Tremendous pressure in the role of line, the materials becomes a finished product from the powder ball.



- Photo of the Hydraulic Briquette Machine



### About YongHua

Henan Yonghua Machinery Manufacturing Co., Ltd. is a high-tech Company which professional manufacturing the production of coal briquette equipment, building material equipment, and mining machinery. Now, 10,000-300,000 tons/year briquette production lines and 10 - 100 million tons/year of mineral processing, building materials production line are renowned in domestic and foreign markets.

Yonghua Machinery Manufacturing Co., Ltd.



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