

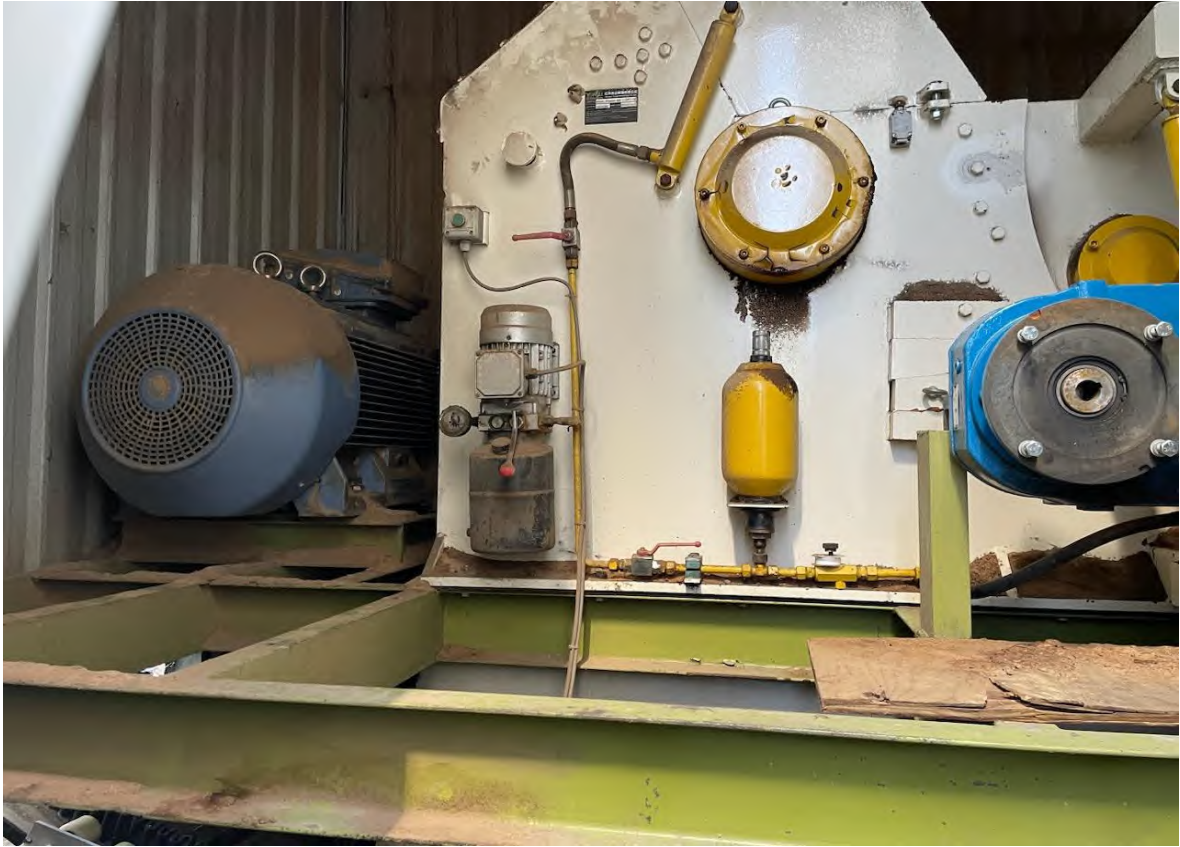
# Missouri Pellet Plant











**CONSISTING OF:**

**GROUP D: Debarking Process**

**GROUP 1:Chipping Process**

**GROUP 2:Grinding Process**

**GROUP 3:Heat Addition Process**

**GROUP 4:Drying Process**

**GROUP 5:Silo Process**

**GROUP 6:Pelleting Process**

**GROUP 7:Cooling & Bagging Process**

**GROUP 8: Electric Control System**

**GROUP 9:Installation**

**GROUP 10: On-site materials**

| Item                              | Description & Type    | Qty | Unit Power(KW) | Total Power(KW) |
|-----------------------------------|-----------------------|-----|----------------|-----------------|
| <b>GROUP D: Debarking Process</b> |                       |     |                |                 |
| D01                               | Wood Debarker YMBT450 | 1   | 15*2+18.5+3    | 51.5            |

- 1.Available raw material: wood logs with barks
- 2.Famous brand tooth surface, with high driving efficiency and long service time
- 3.Debarking roller is directly connected with reducer, with stable operation and easy maintenance
- 4.Debarking knives are arranged in screw type, with high debarking efficiency
- 5.Equipped with belt conveyor at the bottom of wood debarker, it is set to collect and convey barks
- 6.Separated type side board, which makes maintenance more convenience
- 7.NSK/SKF bearing
- 8.Can be customized according to raw material diameter and length
- 9.Continuously operation allowed
- 10.Hydraulic opening gates allowed according to technological process.
- 11.Capacity:5TPH



|     |                         |   |     |     |
|-----|-------------------------|---|-----|-----|
| D02 | Roller Conveyor YLRC150 | 1 | 1.5 | 1.5 |
|-----|-------------------------|---|-----|-----|

- 1.Simple and firm structure , strong rigidity, low failure rate and long service life.
- 2.Low power,stable operation,easy maintenance,reasonable layout,advanced technology,Economic and practical, cost-effective.



|  |  |  |                 |           |
|--|--|--|-----------------|-----------|
|  |  |  | <b>Subtotal</b> | <b>53</b> |
|--|--|--|-----------------|-----------|

**GROUP 1:Chipping Process**

|     |                                 |   |     |     |
|-----|---------------------------------|---|-----|-----|
| 101 | Wood conveying platform YXML250 | 1 | 3.0 | 3.0 |
| 102 | Wood splitting machine YPMJ1000 | 1 |     | 55  |

- 1.The wood splitting machine is used for round logs,length of wood is not more than 1500mm and diameter is less than 1000mm in order to achieve convenient transportation and subsequent processing.
- 2.Parameters
  - \* The work table size: 1568\*1400\*1136
  - \* Maximum diameter of log: 1000mm
  - \* Power of motor:55KW
  - \* Pressure of hydraulic cylinder : 140T
  - \* Capacity:1413m³ PH



|     |                                            |   |     |     |
|-----|--------------------------------------------|---|-----|-----|
| 103 | Conveyor SPD1000<br>With frequency control | 1 | 1.1 | 1.1 |
|-----|--------------------------------------------|---|-----|-----|

|     |                 |   |  |  |
|-----|-----------------|---|--|--|
| 104 | Roller Conveyor | 1 |  |  |
|-----|-----------------|---|--|--|

- 1.Simple and firm structure , strong rigidity, low failure rate and long service life.
- 2.Low power,stable operation,easy maintenance,reasonable layout,advanced technology,Economic and practical, cost-effective.



|     |                                 |   |           |       |
|-----|---------------------------------|---|-----------|-------|
| 105 | Sawdust making machine YLMF2108 | 1 | 160+1.1*3 | 163.3 |
|-----|---------------------------------|---|-----------|-------|

|     |                                |     |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                      |  |                                                                                    |
|-----|--------------------------------|-----|-----|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------|
|     |                                |     |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <div><div>1. Available raw material: wood logs ,branches and twigs with moisture more than 15%;</div><div>2. Special material blade, with high strength and anti-abrasion. Free of any professional tool sharpener, low maintenance cost. It is branded to be the patent production of YONGLI.</div><div>3. Knife roll is wholistic processing and is undertake dynamic balance test to improve accuracy and stable operation. It can process larger diameter wood with its special structure. Such process owns IPR.</div><div>4. Low power consumption, which is 20%-30%lower than similar product in market.</div><div>5. Feeding system consists of feeding and squeezing parts: squeezing parts is automatic controlled by hydraulic system; feeding system can be frequency controlled; PLC controls the whole feeding system to guarantee the smooth feeding. The feeding system can prevent wood chipper from overload working, when it is overload, the material will be returned back. Separated tooth plates, with special structure, easy maintenance and low power.</div><div>6. Forging dead plate, with high strength and long service time.</div><div>7. Siemens motor.</div><div>8.Capacity: 5TPH</div></div> |                                                                                      |  |  |
| 106 | Skirt Belt conveyor SPD800     | 1   | 2.2 | 2.2 | <div><div>1.Seamless steel pipe for main shaft , solid shaft cylinder 3mm steel for convey shaft</div><div>2.Blade made by 4mm steel UCF shaft end</div><div>3. Equipped with a stock sealing device added at the discharger end.</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |  |                                                                                    |
| 107 | Bucket Elevator TDTG50/28      | 1   | 5.5 | 5.5 | <div><div>1.Equipped with explosion relief port, it can prevent dust explosion and ensure safety</div><div>2.Adopt anti-back device, which prevent product blockage caused by equipment stoppage</div><div>3.Adopted EP belt, low extendibility, enduring and reliable</div><div>4.Feeding could be in both shaft-end and upwards direction</div><div>5.Adjusting plate adopts sealing treatment, no leakage of product when tensioning the belt by screw device</div><div>6.Middle casing adopts specialized edge- meshing combination process, with high strength and good sealing</div><div>7.Optional with off-tracking alarm and speed monitor system</div><div>8.Compact structure, beautiful appearance, high output and high conveying capability</div><div>9.Rubber covering technology is adopted for head pulley to increase friction coefficient and prevent belt from slipping</div><div>10.Capacity: 5T/H per unit</div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |  |                                                                                    |
| 108 | Scraper Conveyor MGSS32        | 1   | 4.0 | 4.0 | <div><div>1.Reasonable structure, diversity in forms, and variety structural according to material transported.</div><div>2.Scrapers finely made of industrial plastic with excellent wear resistant performance.</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |                                                                                    |
| 109 | Silo TCK09110<br>D9.167*13.395 | 1   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                      |  |                                                                                    |
|     | Ventilation system 4-72-4A     | 2   | 5.5 | 11  | <div><div>1.Include Muffler</div><div>2.It is commonly used in forging smelting furnace and high pressure forced ventilation, and transporting materials, transportation air and gas with noncorrosive, non hyperbolic, do not contain stickiness material</div><div>3.Levo 0°,with bumper block, with import and export of the flange</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |                                                                                    |
|     | Steel gratings                 | 1+1 |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                      |  |                                                                                    |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |                                                                                      |      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------|------|
| 110 | Level indicator (Mechanical)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2 |                                                                                      |      |
|     | 1.Rotary type for fully closed structure, good dust-proof performance<br>2.IFM made in Germany<br>3.Include the extended pole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |                                                                                      |      |
| 111 | Sweeper machine TCLQ32<br>All anti-explosion & frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1 | 11+1.5                                                                               | 12.5 |
| 112 | Manual Gate TZMS50*80<br><br>Manual operation and good sealing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3 |                                                                                      |      |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |    |      |
| 113 | Pneumatic gate TZMQ50*80<br><br>Accurate positioning and good sealing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 |                                                                                      |      |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |    |      |
| 114 | Scraper Conveyor MGSS25<br><br>1.Reasonable structure, diversity in forms, and variety structural according to material transported.<br>2.Scrapers finely made of industrial plastic with excellent wear resistant performance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1 | 3.0                                                                                  | 3.0  |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |    |      |
| 115 | Bucket Elevator TDTG50/28<br><br>1.Equipped with explosion relief port, it can prevent dust explosion and ensure safety<br>2.Adopt anti-back device, which prevent product blockage caused by equipment stoppage<br>3.Adopted EP belt, low extendibility, endurable and reliable<br>4.Feeding could be in both shaft-end and upwards direction<br>5.Adjusting plate adopts sealing treatment, no leakage of product when tensioning the belt by screw device<br>6.Middle casing adopts specialized edge- meshing combination process, with high strength and good sealing<br>7.Optional with off-tracking alarm and speed monitor system<br>8.Compact structure, beautiful appearance, high output and high conveying capability<br>9.Rubber covering technology is adopted for head pulley to increase friction coefficient and prevent belt from slipping<br>10.Capacity: 5TPH | 1 | 3.0                                                                                  | 3.0  |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |  |      |
| 116 | Level indicator (Mechanical)<br><br>1.Rotary type for fully closed structure, good dust-proof performance<br>2.IFM made in Germany<br>3.Include the extended pole<br>4.With 0.5m lengthening bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 |                                                                                      |      |
| 117 | Prebin for hammer mill 5m³<br>In steel sheet construction with cover connecting flanges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 |                                                                                      |      |
| 118 | Belt conveyor SPD600<br><br>1.Seamless steel pipe for main shaft , solid shaft cylinder 3mm steel for convey shaft<br>2.Blade made by 4mm steel UCF shaft end<br>3. Equipped with a stock sealing device added at the discharger end.<br>4.With frequency control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 | 1.5                                                                                  | 1.5  |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |  |      |
| 119 | Pre-cleaner SCY150*300<br>1.It is widely suitable for raw material receiving process in flour mill , feed mill,silo, biomass processing mill etc.<br>2.It is mainly used for sifting out the big pieces in the raw material, like straw, rope,paper,corn leaves, corn etc to prevent machine from possible accident and damage.<br>3.Easy maintenance and convenient installation.<br>4.Rotating speed: 30rpm<br>5.Dimension of cylinder:1500*3000mm                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 |                                                                                      | 1.5  |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |  |      |

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |                 |      |                                                                                      |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------|------|--------------------------------------------------------------------------------------|
| 120                             | Belt conveyor SPD600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1 | 1.1             | 1.1  |    |
|                                 | <div>1. Seamless steel pipe for main shaft , solid shaft cylinder 3mm steel for convey shaft</div> <div>2. Blade made by 4mm steel UCF shaft end</div> <div>3. Equipped with a stock sealing device added at the discharger end.</div> <div>4. With frequency control</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |                 |      |                                                                                      |
|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   | <b>Subtotal</b> |      | <b>267.7</b>                                                                         |
| <b>GROUP 2:Grinding Process</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |                 |      |                                                                                      |
| 201                             | Belt conveyor SPD600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1 | 1.5             | 1.5  |    |
|                                 | <div>1. Seamless steel pipe for main shaft , solid shaft cylinder 3mm steel for convey shaft</div> <div>2. Blade made by 4mm steel UCF shaft end</div> <div>3. Equipped with a stock sealing device added at the discharger end.</div> <div>4. With frequency control</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |                 |      |                                                                                      |
| 202                             | Magnetic separator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 |                 |      |                                                                                      |
| 203                             | Hammer Mill YHM68*80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1 | 90.0            | 90.0 |   |
|                                 | <div>1. Available raw material: wood bricks, shavings, straw, peanut shell, cotton seed, bamboo dust, rice husk, elephant grass, sugar cane, pulp, olive dust and so on.</div> <div>2. Water drop structure, with elegant structure and high grinding efficiency</div> <div>3. Siemens motor and SKF bearing</div> <div>4. Directly connected motor, with high driving efficiency and easy maintenance</div> <div>5. Maintenance gate is installed by rail structure, which is of simple and convenient operation</div> <div>6. Special process of hammer, with long service time</div> <div>7. Grinding chamber separation device optional, with high grinding efficiency</div> <div>8. U-shape grinding groove at the bottom of grinding chamber, with improvement of grinding efficiency of 50%-80%</div> <div>9. Dead knife optional that can improve the grinding efficiency</div> <div>10. Rotor is undertaken dynamic balance test, which can ensure the stable operation and long service time</div> <div>11. Rotor rotating in clockwise and anti-clockwise direction can prolong the service life of hammers</div> <div>12. Screen fix mechanism is equipped with pressing handle, which makes more convenient of replaying of screen</div> <div>13. Diameter of screen can be determined according to the technological design</div> <div>14. CNC processing, with high accuracy</div> <div>15. Equipped with inspection and emergent stop device to protect the local worker from any injuries</div> <div>16. Patent No.:ZL201220428707</div> <div>17. Capacity:5TPH</div> |   |                 |      |                                                                                      |
| 204                             | Aeration system D450*15m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 |                 |      |                                                                                      |
| 205                             | Quadruple Cyclone YSKL800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 |                 |      |  |
|                                 | <div>1. With top part including inlet sleeve for dust-laden air and outlet flange for clean air, bottom part with cleaning flap, and lock fitting piece.</div> <div>2. Made of 3mm thickness carbon steel</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |                 |      |                                                                                      |
| 206                             | Airlock TGFY25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4 | 3.0             | 12.0 |  |
|                                 | <div>1. With case, rotor</div> <div>2. It is mainly used in power project, storage silo, pneumatic transportation and de-dusting system of feeding, discharging</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |                 |      |                                                                                      |

|     |                                                                                   |   |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----|-----------------------------------------------------------------------------------|---|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 207 | Fan 9-26-6.3A                                                                     | 1 | 45.0 | 45.0 |  <p>1.Include Muffler<br/>2.It is commonly used in forging smelting furnace and high pressure forced ventilation, and transporting materials, transportation air and gas with noncorrosive, non hyperbolic, do not contain stickiness material<br/>3.Dextro 90°,with bumper block, with import and export of the flange</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 208 | Silencer 450                                                                      | 1 |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 209 | Pulse filter TBLMFa128                                                            | 1 |      |      |  <p>1.Direct connect by special air bag and solenoid valve to ensure the less damage to the solenoid valve diaphragm and the stable and reliable running<br/>2.High-tech and famous product, original structure, compact craftsmanship<br/>3.Double inlet, flexible layout, small covered area<br/>4.High efficiency dedusting (≥99.9%)<br/>5.The choice of bag can be ultra-fine, temperature resistance, humidity resistance, antistatic depends on user needs<br/>6.Mainly used for charging pot, requirement of negative pressure and less dedusting volume place. Small size is the feature of this kind of pulse filter.</p>                                                                                                                                                                                                                                  |
| 210 | Airlock TGFY16                                                                    | 1 | 1.5  | 1.5  |  <p>1.With case, rotor<br/>2.It is mainly used in power project, storage silo, pneumatic transportation and de-dusting system of feeding, discharging</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 211 | Scraper Conveyor MGSS25                                                           | 1 | 3.0  | 3.0  |  <p>1.Reasonable structure, diversity in forms, and variety structural according to material transported.<br/>2.Scrapers finely made of industrial plastic with excellent wear resistant performance.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 212 | Bucket Elevator TDTG50/28                                                         | 1 | 3.0  | 3.0  |  <p>1.Equipped with explosion relief port, it can prevent dust explosion and ensure safety<br/>2.Adopt anti-back device, which prevent product blockage caused by equipment stoppage<br/>3.Adopted EP belt, low extendibility, endureable and reliable<br/>4.Feeding could be in both shaft-end and upwards direction<br/>5.Adjusting plate adopts sealing treatment, no leakage of product when tensioning the belt by screw device<br/>6.Middle casing adopts specialized edge- meshing combination process, with high strength and good sealing<br/>7.Optional with off-tracking alarm and speed monitor system<br/>8.Compact structure, beautiful appearance, high output and high conveying capability<br/>9.Rubber covering technology is adopted for head pulley to increase friction coefficient and prevent belt from slipping<br/>10.Capacity: 5TPH</p> |
| 213 | Level indicator (Mechanical)                                                      | 1 |      |      | <p>1.Rotary type for fully closed structure, good dust-proof performance<br/>2.IFM made in Germany<br/>3.Include the extended pole<br/>4.With 0.5m lengthening bar</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 214 | Prebin for dryer 3m³<br>In steel sheet construction with cover connecting flanges | 1 |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

Subtotal

156

**GROUP 3:Heat Addition Process**

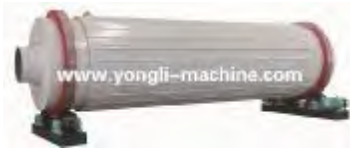
|     |                              |   |  |  |                                                                                                                                                                        |
|-----|------------------------------|---|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 301 | Material feeding bin 3m³     | 1 |  |  |                                                                                                                                                                        |
| 302 | Level indicator (Mechanical) | 1 |  |  | <p>1.Rotary type for fully closed structure, good dust-proof performance<br/>2.IFM made in Germany<br/>3.Include the extended pole<br/>4.With 0.5m lengthening bar</p> |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |                                                                                    |      |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------|------|
| 303 | Screw conveyor TLSS20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 | 2.2                                                                                | 2.2  |
|     | <ol style="list-style-type: none"> <li>1. Seamless steel pipe for main shaft, solid shaft cylinder 3mm steel for convey shaft</li> <li>2. Blade made by 4mm steel UCF shaft end</li> <li>3. Equipped with a stock sealing device added at the discharger end</li> <li>4. Capacity: 2.2T/H per unit</li> <li>5. With frequency control</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |  |      |
| 304 | Airlock TGFY9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 | 1.1                                                                                | 1.1  |
|     | <ol style="list-style-type: none"> <li>1. With case, rotor</li> <li>2. It is mainly used in power project, storage silo, pneumatic transportation and de-dusting system of feeding, discharging</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |  |      |
| 305 | Fan 9-26-4A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 | 5.5                                                                                | 5.5  |
|     | <ol style="list-style-type: none"> <li>1. Include Muffler</li> <li>2. It is commonly used in forging smelting furnace and high pressure forced ventilation, and transporting materials, transportation air and gas with noncorrosive, non hyperbolic, do not contain stickiness material</li> <li>3. Stock up in the workshop, Dextro 0°</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |  |      |
| 306 | Feeding pipe D159*5m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 |                                                                                    |      |
| 307 | Boiler YLB3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 | 0.06                                                                               | 0.06 |
|     | <ol style="list-style-type: none"> <li>1. Available raw material: Power material, generally equipped together with three layers drum dryer</li> <li>2. Automatically feeding and continuously operation, free of labor force and widely application</li> <li>3. Accurate control of inner temperature (fluctuated between ±25℃)</li> <li>4. Special structure of boiler: inner layer is made of fire proof material and outer is thermal insulated and protected by water and a comfortable working environment. If there is any fault, the outer tank can alarm by inspection of water boiling</li> <li>5. Fuel rotates and burns inside the boiler, 97% of the fuel can be fully combusted. There is no more residues inside it, and it is easy for clean and operation.</li> <li>6. Capacity: 5TPH</li> </ol> |   |  |      |

**Subtotal**

**8.86**

**GROUP 4: Drying Process**

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                                                                                      |     |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------|-----|
| 401 | Screw conveyor SWLL32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1 | 4.0                                                                                  | 4.0 |
|     | <ol style="list-style-type: none"> <li>1. Seamless steel pipe for main shaft, solid shaft cylinder 3mm steel for convey shaft</li> <li>2. Blade made by 4mm steel UCF shaft end</li> <li>3. Equipped with a stock sealing device added at the discharger end</li> <li>4. With frequency control</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |  |     |
| 402 | Refractory tube                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 |                                                                                      |     |
| 403 | Dryer YLHG3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1 | 7.5*4                                                                                | 30  |
|     | <ol style="list-style-type: none"> <li>1. Available raw material: mainly for powder biomass raw material, such as sawdust or grinded wood powder</li> <li>2. Three-pass dryer, longer mixing duration of hot air and material. It is with high drying efficiency, heat utilization ratio and less space needed.. The floor space is 30% less than single drum dryer with same capacity</li> <li>3. Support of roller ring and retainer wheel are integral cast steel structure, with high strength, stable operation, materials</li> <li>4. Convenient feeding, feeding from middle of dryer by screw conveyor or from the top according to different materials</li> <li>5. Sealed by flexible and anti-abrasion steel disc at the drum body and feeding &amp; discharge end. It is of long service time and with easy installation. Lifting plates installed inside the drum make the material fully mixed fully mixed with the hot air, with low residue and high drying efficiency.</li> <li>Reasonable discharge structure that can separate hot air and material efficiently. Thermal insulation set outer layer of drum can effectively prevent the heat from losing and improve the utilization efficiency</li> <li>6. Feeding device is separately designed, which is convenient for installation and transportation. The drum of dryer can be designed to fit the transportation in the containers</li> <li>7. Siemens motor</li> <li>8. Patent No.: ZL201210406389</li> <li>9. Capacity: 3~5T/H per unit</li> <li>10. With frequency control</li> <li>12. Capacity: 5TPH</li> </ol> |   |  |     |
| 404 | Aeration tube D800*10m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1 |                                                                                      |     |

|     |                             |   |         |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----|-----------------------------|---|---------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 405 | Fan Y5-47-11D               | 1 | 75.0    | 75.0 |  <p>1.Include Muffler<br/>2.It is commonly used in forging smelting furnace and high pressure forced ventilation, and transporting materials, transportation air and gas with noncorrosive, non hyperbolic, do not contain stickiness material</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 406 | Cyclone YSKL1000*4          | 1 |         |      |  <p>1.With top part including inlet sleeve for dust-laden air and outlet flange for clean air, bottom part with cleaning flap, and lock fitting piece.<br/>2.Made of 3mm thickness carbon steel</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 407 | Airlock TGFY45              | 1 | 3.0     | 3.0  | <p>1.With case, rotor<br/>2.It is mainly used in power project, storage silo, pneumatic transportation and de-dusting system of feeding, discharging</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 408 | Pulse Filter YFGM32X8       | 2 | 2.2+1.5 | 7.4  |  <p>1.Efficient dust removal equipment, can handle high concentrations of dust below 100mg/Nm3, dust removal rate <math>\geq 99.8\%</math>.<br/>2.Advanced structural design, large filtering area per unit volume, small volume of equipment.<br/>3.Stable performance, high degree of automation, simple maintenance and management.<br/>4.Equipped with large door, easy to maintain and replace bags.<br/>5.Advanced pulse control system, greatly improving efficiency of removing dust, extend service life.<br/>6.Sub-box structure, overcoming the shortcomings of the room blowing cleaning strength, blowing pulse cleaning and filtering at the same time.<br/>7.Bag specification(mm):<math>\Phi 120 \times 1500</math><br/>8.Quantity of bag(pcs):256<br/>9.Air volume:26044 m3/H<br/>10.Pressure of drum(MPa):0.6</p> |
| 409 | Aeration tube for dedusting | 1 |         |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 410 | Screw conveyor TLSS32       | 1 | 3.0     | 3    |  <p>1.Seamless steel pipe for main shaft, solid shaft cylinder 3mm steel for convey shaft<br/>2.Blade made by 4mm steel UCF shaft end<br/>3.Equipped with a stock sealing device added at the discharger end<br/>4.With frequency control</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Subtotal**

**122.4**

**GROUP 5:Silo Process**

|     |                                                             |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----|-------------------------------------------------------------|---|-----|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 501 | Bucket Elevator TDTG50/28                                   | 1 | 3.0 | 3.0 |  <p>1.Equipped with explosion relief port, it can prevent dust explosion and ensure safety<br/>2.Adopt anti-back device, which prevent product blockage caused by equipment stoppage<br/>3.Adopted EP belt, low extendibility, durable and reliable<br/>4.Feeding could be in both shaft-end and upwards direction<br/>5.Adjusting plate adopts sealing treatment, no leakage of product when tensioning the belt by screw device<br/>6.Middle casing adopts specialized edge- meshing combination process, with high strength and good sealing<br/>7.Optional with off-tracking alarm and speed monitor system<br/>8.Compact structure, beautiful appearance, high output and high conveying capability<br/>9.Rubber covering technology is adopted for head pulley to increase friction coefficient and prevent belt from slipping<br/>10.Capacity: 5TPH</p> |
| 502 | Scraper Conveyor MGSS25                                     | 1 | 3.0 | 3.0 |  <p>1.Reasonable structure, diversity in forms, and variety structural according to material transported.<br/>2.Scrapers finely made of industrial plastic with excellent wear resistant performance.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 503 | Level indicator (Mechanical)<br>One with 1m lengthening bar | 4 |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |                                                                                      |             |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------|-------------|
| 504                               | Hopper 30m³                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1               |                                                                                      |             |
| 505                               | Screw conveyor TLSS25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3               | 4.0                                                                                  | 12          |
|                                   | 1. Seamless steel pipe for main shaft, solid shaft cylinder 3mm steel for convey shaft<br>2. Blade made by 4mm steel UCF shaft end<br>3. Equipped with a stock sealing device added at the discharger end<br>4. With frequency control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                                                                                      |             |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |    |             |
| 506                               | Bevel Skirt Belt conveyor SPD600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1               | 1.5                                                                                  | 1.5         |
|                                   | 1. Seamless steel pipe for main shaft, solid shaft cylinder 3mm steel for convey shaft<br>2. Blade made by 4mm steel UCF shaft end<br>3. Equipped with a stock sealing device added at the discharger end.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                      |             |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |    |             |
| 507                               | Magnetic separator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1               |                                                                                      |             |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Subtotal</b> |                                                                                      | <b>19.5</b> |
| <b>GROUP 6: Pelleting Process</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |                                                                                      |             |
| 601                               | Bucket Elevator TDTG50/28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1               | 3.0                                                                                  | 3.0         |
|                                   | 1. Equipped with explosion relief port, it can prevent dust explosion and ensure safety<br>2. Adopt anti-back device, which prevent product blockage caused by equipment stoppage<br>3. Adopted EP belt, low extendibility, endurable and reliable<br>4. Feeding could be in both shaft-end and upwards direction<br>5. Adjusting plate adopts sealing treatment, no leakage of product when tensioning the belt by screw device<br>6. Middle casing adopts specialized edge- meshing combination process, with high strength and good sealing<br>7. Optional with off-tracking alarm and speed monitor system<br>8. Compact structure, beautiful appearance, high output and high conveying capability<br>9. Rubber covering technology is adopted for head pulley to increase friction coefficient and prevent belt from slipping<br>10. Capacity: 5TPH                                |                 |                                                                                      |             |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |   |             |
| 602                               | Scraper conveyor SGSS25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1               | 3.0                                                                                  | 3           |
|                                   | 1. Seamless steel pipe for main shaft, solid shaft cylinder 3mm steel for convey shaft<br>2. Blade made by 4mm steel UCF shaft end<br>3. Equipped with a stock sealing device added at the discharger end<br>4. With frequency control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                                                                                      |             |
| 603                               | Pneumatic gate TZMQ32*80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2               |                                                                                      |             |
|                                   | Accurate positioning and good sealing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |  |             |
| 604                               | Level indicator (Mechanical)<br>With 0.5m lengthening bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2               |                                                                                      |             |
| 605                               | Prebin for pellet mill 5m³<br>In steel sheet construction with cover connecting flanges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2               |                                                                                      |             |
| 606                               | Pellet mill YPM660                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2               | 200+3+2.2                                                                            | 410.4       |
|                                   | 1. Available raw material: woodiness, straw, peanut shell, palm nut, coconut shell, cotton seed, bamboo dust, elephant grass, sugar cane, pulp, olive slag, organic manure and so on.<br>2. Forced feeder: Forced feeding into pelleting chamber, make pellet mill operate stable and with high efficiency.<br>3. Gear reducer with Aluminum Alloy housing, with compact structure, attractive appearance and high driving efficiency.<br>4. Driven by gear, elegant and efficient gearbox grants pellet mill with high driving efficiency<br>5. Lubrication system consists of automatic lubrication and manual lubrication<br>6. Processing of gear box: CNC processing with high accuracy, low operation noise and long service time<br>7. It is equipped with safe protection mechanism. When operating overload, it could be quickly unload and protect the pellet mill effectively |                 |                                                                                      |             |
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |  |             |

- 8.Screw feeder with anti-broken, make the raw material with poor liquidity feed smoothly (operational)
- 9.Conditioner: adjust moisture and evenness of raw material to improve the capacity and improve the formation of pellets (optional)
- 10.Cutting mechanism equipped on the gate to control the length of pellet
- 11.Siemens motor, NSK/SKF bearing
- 12.Equipment with national patent, patent number: ZL201120430486
- 13.With 3KW frequency control
- 14.Capacity: 2.5~3.2T/H per unit

|     |                                                                                                                                                                                                                                                                                                                                |   |                                                                                             |      |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------|------|
|     | Oil cooler                                                                                                                                                                                                                                                                                                                     | 2 | 0.18+1.5                                                                                    | 3.36 |
|     | Automatic lubriation system                                                                                                                                                                                                                                                                                                    | 2 |                                                                                             |      |
| 607 | Fan 4-72-6A<br><br>1.Include Muffler<br>2.It is commonly used in forging smelting furnace and high pressure forced ventilation, and transporting materials, transportation air and gas with noncorrosive, non hyperbolic, do not contain stickiness material<br>3.Top mounting,Dextro 0°, with import and export of the flange | 1 | 4.0<br>   | 4.0  |
| 608 | Cyclone YSKL1000<br><br>1.With top part including inlet sleeve for dust-laden air and outlet flange for clean air, bottom part with cleaning flap, and lock fitting piece.<br>2.Made of 3mm thickness carbon steel                                                                                                             | 1 |          |      |
| 609 | Airlock TGFY9<br><br>1.With case, rotor<br>2.It is mainly used in power project, storage silo, pneumatic transportation and de-dusting system of feeding, discharging                                                                                                                                                          | 1 | 1.1                                                                                         | 1.1  |
| 610 | Bevel Skirt Belt conveyor SPD600<br><br>1.Seamless steel pipe for main shaft , solid shaft cylinder 3mm steel for convey shaft<br>2.Blade made by 4mm steel UCF shaft end<br>3. Equipped with a stock sealing device added at the discharger end.                                                                              | 1 | 2.2<br> | 2.2  |

#### Subtotal

427.06

#### GROUP 7: Cooling & Bagging Process

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |                                                                                                  |      |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------|------|
| 701 | Cooler SLFJ2.5<br><br>1.Make use of the vibrating screen surface, it will classify the pellet according to different particle size<br>2.Screening body's driving mode is balanced vibration, that is, in screening of symmetry ship installation with two vibration motor drive sieve body, two motor to relative to offset the horizontal vibration force, vertical vibration force stack, ensure the normal body movement trajectory of screen, screening effect is good<br>3.Low energy consumption, convenient operation and high degree of automatic<br>4.It is with both cooling and sifting function<br>5.Capacity: 5TPH | 1 | 1.5+0.37<br> | 1.87 |
| 702 | Fan 4-72-5A<br><br>1.Include Muffler<br>2.It is commonly used in forging smelting furnace and high pressure forced ventilation, and transporting materials, transportation air and gas with noncorrosive, non hyperbolic, do not contain stickiness material<br>3.Top mounting,levo 0°, with import and export of the flange                                                                                                                                                                                                                                                                                                    | 1 | 11.0<br>     | 11   |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |                                                                                      |     |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------|-----|
| 703 | Cyclone YSKL1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1 |                                                                                      |     |
|     | <p>1.With top part including inlet sleeve for dust-laden air and outlet flange for clean air, bottom part with cleaning flap, and lock fitting piece.</p> <p>2.Made of 3mm thickness carbon steel</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |    |     |
| 704 | Airlock TGFY9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 | 1.1                                                                                  | 1.1 |
|     | <p>1.With case, rotor</p> <p>2.It is mainly used in power project, storage silo, pneumatic transportation and de-dusting system of feeding, discharging</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |                                                                                      |     |
| 705 | Screw conveyor TLSS25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2 | 2.2                                                                                  | 4.4 |
|     | <p>1.Seamless steel pipe for main shaft, solid shaft cylinder 3mm steel for convey shaft</p> <p>2.Blade made by 4mm steel UCF shaft end</p> <p>3.Equipped with a stock sealing device added at the discharger end</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |    |     |
| 706 | Bucket Elevator TDTG36/18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 | 2.2                                                                                  | 2.2 |
|     | <p>1.Equipped with explosion relief port, it can prevent dust explosion and ensure safety</p> <p>2.Adopt anti-back device, which prevent product blockage caused by equipment stoppage</p> <p>3.Adopted EP belt, low extendibility, enduring and reliable</p> <p>4.Feeding could be in both shaft-end and upwards direction</p> <p>5.Adjusting plate adopts sealing treatment, no leakage of product when tensioning the belt by screw device</p> <p>6.Middle casing adopts specialized edge- meshing combination process, with high strength and good sealing</p> <p>7.Optional with off-tracking alarm and speed monitor system</p> <p>8.Compact structure, beautiful appearance, high output and high conveying capability</p> <p>9.Rubber covering technology is adopted for head pulley to increase friction coefficient and prevent belt from slipping</p> <p>10.Capacity:5TPH</p> |   |   |     |
| 707 | Finished product bin 3m³<br>In steel sheet construction with cover connecting flanges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 |                                                                                      |     |
| 708 | Automatic Packer YZBZ15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1 | 1.5                                                                                  | 1.5 |
|     | <p>1.Using the size of feeding ,install quickly switch cut-off gate</p> <p>2.All the parameters are inputted by the panel</p> <p>3.The speed of feed, quantitative bag and undo the bag are controlled automatic</p> <p>4.Imported intelligent weighing instrument can display the gross weight and net weight simultaneously</p> <p>5Automatic peeling weight function</p> <p>6Automatic zero tracking</p> <p>7Automatic detection and correction of weighing error</p> <p>8.With the gross and net weight, total number of packages display function, achieve the production process of quantitative management (with a computer or printer connected)</p> <p>9.The whole system is provided with a dust suction opening, to improve the working environment</p> <p>10.With frequency</p> <p>11.Capacity:5TPH</p>                                                                      |   |                                                                                      |     |
|     | Heat sealer SFKH3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1 |                                                                                      |     |
|     | <p>1.Its advantages are enhancing the work efficiency of the operator and the sealing of flatness, for packaging overweight articles, and reduce the labor intensity</p> <p>2.It is reasonable in structure, stable quality, reliable performance, it can be manually operated and foot pedal point, simple and convenient, efficient and practical</p> <p>3.It is widely used in the chemical, food, feed and other industries</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |  |     |
| 709 | Air compressor & Air tank 1m³                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 | 30.0                                                                                 | 30  |
| 710 | Blade sharpening machine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 |                                                                                      |     |

|     |                                 |   |
|-----|---------------------------------|---|
| 711 | Countersinking machine          | 1 |
| 712 | Compressor adjusting machine    | 1 |
| 713 | Transformer for production line | 1 |

|                 |              |
|-----------------|--------------|
| <b>Subtotal</b> | <b>52.07</b> |
|-----------------|--------------|

**GROUP 8: Electric Control System**

|     |                                                                                                                                                                                                 |       |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 801 | The system including:<br>1. Control panel indicating processing flow.<br>2. Can easily to fulfill automatic control of whole plant,such as start, stop and alarm as well as interlock function. | 1 set |
| 802 | Electric installation Auxiliary Materials<br>Consist of cable, wire, trunking, wiring box, bridge support and other materials                                                                   | 1 set |
| 803 | The applicable power for motors of the above equipment is 3 Phase 380V, 50Hz.                                                                                                                   |       |



|                 |
|-----------------|
| <b>Subtotal</b> |
|-----------------|

**GROUP 9: Installation**

- \* We will send our engineer to client's plant for guide assembly and commissioning the plant.
- \* 6 engineers will be sent to guide assembly for about 3 months
- \* The air tickets cost, telephone cost and visa apply cost etc be provided by us
- \* When our engineer go to customer's company for assembly, Customer should supply:
  - 1) The local transport costs, board and lodging etc
  - 2) The install tools, electronic power supply, water supply to site

|                 |
|-----------------|
| <b>Subtotal</b> |
|-----------------|

**GROUP 10: On-site materials**

|                                                                                                                 |      |
|-----------------------------------------------------------------------------------------------------------------|------|
| 1.Air network system for air absorbing, dedusting and cooling                                                   | 1set |
| 2.Non-standard parts such as slide pipes, machine frame, platform, noise-reducing pipes and pipeline materials. | 1set |
| 3.Auxiliary materials such as standard parts, seals, soldering parts.                                           | 1set |
| 4.Pneumatic components and air compressing accessories etc.                                                     | 1set |

|                 |
|-----------------|
| <b>Subtotal</b> |
|-----------------|

|               |                |           |
|---------------|----------------|-----------|
| <b>Total:</b> | <b>1106.59</b> | <b>kw</b> |
|---------------|----------------|-----------|

## IV. Main Equipment

### Wood Debarker



#### Main Technical Parameters

- I Adaptable for wood, and it is available for different tree species, diameter, length and shape of the short-cut wood.
- I Simple structure, strong rigidity, low failure rate, long service life.
- I Open-type silos, can feed from one end, discharge from the other end, overcome the existing drum-type debarker power outage, the expected shortcomings of the work of sub-type, high efficiency.
- I As the impact of the teeth on the short-cut wood, not only make short-cut wood do circular motion within the cabinet, and around their own rotation, so the peeling efficiency is high. Eucalyptus, poplar and other hard-skinned species have better skinning effect, clarity of 95% or more
- I Low energy consumption, low failure rate, small maintenance workload, low vibration and noise.

## Wood Splitting Machine



### 1. Performance characteristics

- I The wood splitting machine is used for round logs, length of wood is not more than 1500mm and diameter is less than 1000mm in order to achieve convenient transportation and subsequent processing.

### 2. Main Technical Parameters

- I Model: YPMJ1000
- I Maximum diameter of log: 1000mm
- I Power of motor: 55KW
- I Pressure of hydraulic cylinder: 140T
- I The work table size: 1568\*1400\*1136
- I Capacity: 1413m<sup>3</sup> PH

## Wood Chipper



### 1. Performance Characteristics

- I Suitable for kinds of raw materials, small-diameter wood, wood cutting residues (branches, etc.) and wood processing residues (board, slats, wood core, scrap veneer, etc.).It can also be used to cut non-wood raw materials (such as hemp, reed, bamboo, etc.)
- I Special material blade, with high strength and anti-abrasion. Free of any professional tool sharpener, low maintenance cost. It is branded to be the patent production of YONGLI.
- I Knife roll is wholistic processing and is undertaken dynamic balance test to improve accuracy and stable operation. It can process larger diameter wood with its special structure. Such process owns IPR.
- I Low power consumption, which is 20-30% lower than similar product in market.
- I Feeding system consists of feeding and squeezing parts:
- I Squeezing part is automatic controlled by hydraulic system; feeding system can be frequency controlled; PLC controls the whole feeding system to guarantee the smooth feeding. The feeding system can prevent wood chipper from overload working, when if is overload, the material will be returned back. Separated tooth plates, with special structure, easy

maintenance and low power.

- I Forging dead plate, with high strength and long service time.
- I Siemens motor
- I Patent No.:ZL201420054885

## 2. Main Technical Parameters

- I Model: YLMF2108
- I Capacity (m<sup>3</sup>/h): 33
- I knife roll diameter:  $\phi 800$
- I Number of flying knives: 16
- I Feed port size (mm): 250 × 600
- I Processing material diameter (mm):  $\leq 200$
- I Main motor power (kw): 160
- I Length of wood chip(mm): 20

## Steel Silo



### 1. Performance Characteristics

- I High strength: vertical reinforcement ribs on the inner wall of the cylinder, transverse spiral undercut ribs, greatly enhance the strength of the cylinder, strong resistance to wind, earthquake and snow.
- I Short construction period: short construction period, construction of a steel warehouse with a capacity of 1,000 tons, professionals only need 5 to 6 days.
- I Beautiful appearance: The shape of the top of the warehouse is tapered, it is not easy to accumulate dust and water, and the warehouse line is smooth.
- I Good sealing: the barrel connection is made of spiral undercut, the thickness of the undercut is five times the thickness of the cylinder, and the sealing performance is good.
- I Long service life: The cylinder is made of hot-dip galvanized coil, and the top of the silo is treated by galvanizing process, which has strong anti-corrosion and long service life.

## 2. Main Technical Parameters

- I Model: TCK09110
- I Silo capacity (m3): 790
- I Number of columns: 10
- I Total height (m): 11.255
- I Full height (m): 13.395
- I Capacity (T): Wood chips 230T

Scope of application: Widely used in the storage of biomass materials and pellets. Based on professional manufacturing technology and rich installation experience, Yongli Machinery can produce a full range of assembly silos. Its diameter ranges from 3.65 meters to 32 meters, and the capacity of single warehouses can reach 15,000 tons.

## Pre-cleaner



### 1. Performance Characteristics

- I This pre-cleaner is widely suitable for the raw material receiving process in flour mill , feed mill, grain storage silo, biomass processing mill and other industry.
- I It is mainly used for sifting out the bag pieces in the raw material, like straw, wheat stalk, clod, rope, paper, corn leaves, corn cob, etc, to prevent the machine in the next process from possible accident and damage.
- I It features of high capacity, less power consumption, simple structure, small space vacation, easy maintenance, and convenient installation, etc.

### 2. Main Technical Parameters

- I Model: SCY150
- I Power(kw): 3
- I Capacity(t/h): 3-5

## Hammer Mill



### 1. Performance Characteristics

- | Available raw material: wood bricks , shavings, straw, peanut shell, palm shell ,cotton seed, bamboo dust, rice husk, elephant grass, sugar cane, pulp, olive dust, and so on.
- | Water drop structure , with high driving efficiency and easy maintenance.
- | Siemens motor and SKF bearing.
- | Directly connected motor,with high driving efficiency and easy maintenance.
- | Maintenance gate is installed by rail structure,which is of simple and convenient operation.
- | Special process of hummer, with long service time.
- | U-shape grinding groove at the bottom of grinding chamber, with improvement of grinding efficiency of 50%-80%.
- | Dead knife optional that can improve the grinding efficiency.
- | Rotor is undertake dynamic balance test, which can ensure the stable operation and long service time.
- | Rotor rotating in clockwise and anti-clockwise direction can prolong the service life of hammers.
- | Screen fix mechanism is equipped with pressing handle,which makes more

convenient of replacing of screen.

- I Diameter of screen can be determined according to the technological design.
- I CNC processing, with high accuracy.
- I Equipped with inspection and emergency stop device to protect the local worker from ant injuries.
- I Patent No.: ZL201220428707

## 2. Main Technical Parameters

- I Model: YHM68\*80
- I Rotor diameter (mm): 680
- I Grinding chamber width (mm): 800
- I Spindle speed (rpm): 2975
- I Linear speed (m / s): 107
- I Number of hammers (pc): 88
- I Power (kw): 90

## Ebullition Boiler



### 1. Performance Characteristics

- I Available raw material: Power material, generally equipped together with three layers drum dryer.
- I With small power, stable operation, easy maintenance, reasonable process and layout, advanced technology, low production costs.
- I The boiler is heated evenly, long service time, simple fuel preparation.
- I Flexible operation, regulating performance, the boiler heats fast.
- I Automatically feeding and continuously operation, free of labor force, convenient for controlling the temperature of boiler, constant range of temperature.

### 2. Main Technical Parameters

- I Model: YLB3
- I Power(kw): 0.06
- I Hot air utilization: 80%

**Scope of application:** Widely used in powdered fuel such as sawdust, generally used in conjunction with dryer. The biomass boiler is efficient, intelligent and safe; it automatically feeds and works continuously, and has a wide application range; high degree of automation and reduced labor.

## Three Layers Drum Dryer



### 1. Performance characteristic

- | Available raw material: mainly for powder biomass raw material, such as sawdust or grind wood powder.
- | Three-pass dryer, longer mixing duration of hot air and material. It is with high drying efficiency and high heat utilization ratio.
- | Less space needed, the floor space is 30%, which is less than single drum dryer with same capacity.
- | Support of roller ring and retainer wheel are integral cast steel structure, with high strength, stable operation, anti-abrasion and long service life.
- | Sealed by flexible and anti-abrasion steel disc at the drum body and feeding & discharge end. It is of long service time and with easy installation.
- | Lifting plates installed inside the drum make the material fully mixed with the hot air, with low residue and high drying efficiency.
- | Reasonable discharge structure that can separate hot air and material efficiently.
- | Thermal insulation set at outer layer of drum can effectively prevent the heat from losing and improve the utilization efficiency.
- | Unique lifting plates design, materials fully in contact with hot air, make full use of heat, making the capacity increased by more than 30%.
- | Using three layers roller structure, not only covers an area of 50% lower than the single-layer drum dryer, while reducing energy consumption than 30%-50%.

- I International standard material, bearings and oil sealers are all imported brands.

## 2. Main Technical Parameters

- I Model: YLHG3
- I Diameter of drum(mm): 2650
- I Power(kw):  $7.5\text{kw} \times 4$  (frequency conversion)

**Scope of application:** Powdered biomass materials, such as sawdust, wood blocks or ground wood powder. The three-layer drum dryer is efficient, small in footprint and good in effect. It adopts three-return form, long mixing time and high drying efficiency; small volume, and the floor space is 30% smaller than the single-tube dryer with the same output; the material and hot air are fully mixed, less residue, and good drying effect.

## Biomass Pellet Mill



### 1. Performance characteristics

- l Applicable for: sawdust, wood blocks, scraps, wood shavings and other biomass materials;
- l Forced feeding for the ring die pressing chamber by forced feeder; making the pellet mill run more smoothly and high capacity;
- l Optional conditioner to adjust the moisture of raw materials to ensure the formation of pellets;
- l Aluminum alloy gear reducer with beautiful structure and high transmission efficiency;
- l The material of the gearbox and the high precision of the drive hole come from the casting technology of professional foundry and CNC machining equipment;
- l Siemens motor;
- l Automatic lubrication system and Oil cooling system enable the equipment to be continuously produced for a long time; and the service life of the equipment is extended;
- l Size of pellets:6-10mm

### 2. Main Technical Parameters

- I Model: YPM600
- I Capacity: 2.5-3T/H
- I Aperture of ring die:  $\phi$  6mm、 $\phi$  8mm、 $\phi$  10mm
- I Diameter of ring die: 660MM
- I Power: 200KW

## Cooling and vibrating screener



### 1. Performance Characteristic

- I Make use of the vibrating screen surface, it will classify the pellet according to different particle size.
- I Screening body's driving model is balanced vibration, that is, in screening of symmetry ship installation with two vibration motor driver sieve body, two motor to relative to offset the horizontal vibration force, vertical vibration force stack, ensure the normal body movement trajectory of screen, screening effect is good.
- I With small volume and smooth movement, it is widely used in the pellet, food, chemical, sugar, mining, paper making industries.
- I It is with both cooling and sifting function.
- I Application of advanced countercurrent cooling principle, temperature after cooling is not higher than  $+5^{\circ}\text{C}$  of room temperature, precipitation rate is 1%~3%, extending the storage time of high-quality pellets.
- I Pendulum flap discharging mechanism, discharge materials smoothly, adjustable discharging flow and speed, even discharge volume.

### 2. Main Technical Parameters

- I Model: SLFJ2.5

- I Cooling volume(m<sup>3</sup>): 2.5
- I Capacity(t/h): 6
- I Cooling time: not less than 6-10min
- I Temperature after cooling: not higher than room temperature 3-5 ° C
- I Air volume(m<sup>3</sup>/min.t): 22-34
- I Power of airlock(kw): 1.5
- I Power of vibrating motor(kw): 0.37

## Automatic Bagging System



### 1. Performance Characteristics

- I Using the size of feeding ,install quickly switch cut-off gate
- I All the parameters are inputted by the panel
- I The speed of feed, quantitative bag and undo the bag are controlled automatic
- I Imported intelligent weighing instrument can display the gross weight and net weight simultaneously
- I Automatic peeling weight function
- I Automatic zero tracking
- I Automatic detection and correction of weighing error
- I With the gross and net weight, total number of packages display function, achieve the production process of quantitative management (with a computer or printer connected)
- I The whole system is provided with a dust suction opening, to improve the working environment
- I With frequency
- I Capacity:5TPH

## Hot Sealing Machine



- I Its advantages are enhancing the work efficiency of the operator and the sealing of flatness, for packaging overweight articles, and reduce the labor intensity.
- I It is reasonable in structure, stable quality, reliable performance, it can be manually operated and foot pedal point, simple and convenient, efficient and practical.
- I It is widely used in the chemical, food, feed and other industries.

## Belt Conveyor



### 1. Performance Characteristics

- I It is used for conveying all kinds of bulk materials, it is also used for all kinds of cardboard boxes, bags and other single pieces of small pieces of goods, wide range in application.
- I It is based on the principle of rolling friction, there is almost no resistance in the conveying process.
- I Advanced technology, reasonable structure, low noise when operating, convenient for maintenance, low energy consumption, low cost.
- I Standard equipment, convenient for maintenance.

### 2. Main Technical Parameters

- I Model: SPD400,SPD600,SPD800
- I Power(kw): 1.5, 2.2
- I Width of belt(mm): 400,600,800

## Screw Feeder



### 1. Performance Characteristics

- I It is suitable for the horizontal transportation of granular, powdery or biomass raw materials and granules such as grain, oil and feed, or inclined transportation close to horizontal (inclination angle  $\leq 20^\circ$ ). The total length of transportation is generally up to 40 meters.
- I It has the characteristics of novel design, safe and reliable work, simple structure, complete functions, good sealing and low noise.

### 2. Main Technical Parameters

- I Model: TLSS20, 25, 32, 40
- I Diameter of screw(mm): 210, 260, 330, 410
- I Clearance between the spiral blade and the inner wall of the barrel (mm): 5 mm
- I The part between the import and export is not less than 3 spiral lengths

## Bucket Elevator



### 1. Performance Characteristic

- I Flexible process layout, powder and pellets be in common use.
- I High output, low return flow, low failure rate.
- I Good sealing and low noise.
- I Stall alarm.

### 2. Main Technical Parameters

- I Model: TDTG36/28 TDTG50/28 TDTG60/33
- I Conveying capacity: 5T 7T 10T

Applicable scope: Widely used for vertical transportation of wood chips and biomass particles.

## Scraper Conveyor



### 1. Performance Characteristic

- I It is used for conveying biomass agricultural waste particles and other powder particles.
- I It is able to convey materials horizontally, tilted and vertically, it also can be used in combination to form a conveying system.
- I High production, no residue, low failure rate and long service life to ensure the use of efficiency, and is equipped with explosion-proof cover.
- I Polymer plates for guide rail, effectively reducing the noise and damage rate of materials.
- I A movable body for the tail to minimize residue, flexible scraper on the chain to minimize residue.
- I Fully assembled structural design, easy for replacement.
- I Blocking alarm, stall alarm is optional.
- I New design, safe and reliable working, simple structure, complete function, good sealing and low noise.

### 2. Main Technical Parameters

- I Model: MGSS25    MGSS32    MGSS40
- I Power(kw): 3, 4, 7.5, 11
- I Barrel width (mm): 250, 320, 400
- I The scraper is made of polymer board
- I Chain adopts sleeve roller chain

## Pulse Filter



### 1. Performance Characteristics

- I Efficient dust removal equipment, can handle high concentrations of dust below  $100\text{mg}/\text{Nm}^3$ , dust removal rate  $\geq 99\%$ .
- I Advanced structural design, large filtering area per unit volume, small volume of equipment.
- I Stable performance, high degree of automation, simple maintenance and management.
- I Equipped with large door, easy to maintain and replace bags.
- I Advanced pulse control system, greatly improving efficiency of removing dust, extend service life.
- I Sub-box structure, overcoming the shortcomings of the room blowing cleaning strength, blowing pulse cleaning and filtering at the same time.

### 2. Main Technical Parameters

- I Model: YFGM32X8

- I Filter bag specifications:  $\Phi$  130\*3000mm
- I Number of bags (pcs): 256
- I Air volume: 37600~75200m<sup>3</sup> / h
- I Steam drum pressure (MPa): 0.6
- I Size (mm): 6890\*2360\*7970
- I Scope of application: used for dust removal of wood pellets.