



**Shandong Changzheng Machinery Equipment Manufacturing Co., Ltd.**

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# DIRECTORY

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## COMPANY PROFILE

Shandong Changzheng Machinery Equipment Manufacturing Co., Ltd. is located in Boshan District, Zibo, Shandong Province. Founded in 1993, the company is a comprehensive equipment manufacturer integrating the development, manufacturing, and service of heavy-duty machinery, building material equipment, environmental protection equipment, and industrial transmission products.

Based on years of mechanical manufacturing experience, Changzheng Machinery has developed a product system centered on heavy industry equipment and industrial transmission solutions. Our heavy equipment range includes rotary kilns, ball mills, vertical mills, rotary drum dryers, high-performance powder separators, plate chain elevators, screw conveyors, apron conveyors, dust collection equipment, and other customized heavy-duty machinery. Our transmission products include industrial gearboxes, gear motors, and drive units for heavy-duty equipment.

The company's products are widely used in cement, building materials, mining, metallurgy, chemical processing, environmental protection, power generation, and material handling industries. They are designed for calcination, grinding, drying, conveying, classification, dust removal, and mechanical power transmission applications.

Changzheng Machinery is equipped with capabilities in engineering design, machining, welding, assembly, commissioning, quality inspection, and technical service. According to customers' site conditions, material characteristics, capacity requirements, and installation methods, we can provide equipment selection, structural optimization, non-standard design, and system integration support.



## OUR CAPABILITIES

### DRAWING-BASED CUSTOMIZATION

We manufacture heavy equipment based on customer drawings, technical documents, samples, and project-specific requirements.

### NON-STANDARD EQUIPMENT FABRICATION

Customized design and fabrication for rotary kilns, ball mills, dryers, coolers, conveyors, feeders, dust collectors, and other industrial equipment.

### HEAVY-DUTY STRUCTURAL MANUFACTURING

Strong fabrication capability for large welded structures, cylindrical shells, supporting frames, transmission bases, and customized steel components.

### PROCESS ADAPTATION

Equipment can be configured according to material properties, capacity requirements, temperature conditions, installation space, and production process.

### ENGINEERING COMMUNICATION

Our team provides technical review, drawing confirmation, process discussion, and manufacturing feasibility support before production.

### QUALITY INSPECTION & PROJECT DELIVERY

We follow strict inspection procedures during material preparation, welding, machining, assembly, and shipment to support reliable project delivery.



## ROTARY KILN

### Product Overview

The rotary kiln is designed for material calcination and thermal processing in cement, building materials, metallurgy, chemical, and environmental protection industries. It is suitable for cement clinker, lime, minerals, chemical raw materials, and solid waste residues.

Changzheng Machinery offers hollow rotary kilns, preheater kilns, precalciner kilns, lime kilns, and chemical rotary kilns. Each kiln can be customized according to material properties, capacity requirements, process conditions, and site layout.

### Key Features

- Continuous and stable operation
- Strong material adaptability
- Heavy-duty shell structure
- Reliable product quality
- Multiple process configurations
- Custom design available



Cement Rotary Kiln



Fluorochemical Rotary Kiln



Lime Rotary Kiln

BALL MILL

Technical Data of Rotary Kiln

|                                                                   |                                         |                                             |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|-------------------------------------------------------------------|-----------------------------------------|---------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 规格 (米)<br>Specification(m)                                        | Φ2.8×2.5×44                             | Φ3×48                                       | Φ3.2×50         | Φ3×50           | Φ3.5×54         | Φ4×60           | Φ4.3×64         | Φ4.8×74         | Φ5.0×74         | Φ5.6×87         | Φ6.0×95         |                 |
| 生产能力 (吨/天)<br>Capacity(ton/day)                                   | 300                                     | 600-700                                     | 1000            | 1200            | 1500-1800       | 2500            | 3500            | 5000            | 6000            | 8000            | 10000           |                 |
| 窑体斜度 (°)<br>Slope of the kiln shell(°)                            | 3.5                                     | 3.5                                         | 3.5             | 4               | 4               | 4               | 4               | 4               | 4               | 4               | 4               |                 |
| 支承数 (个)<br>No. of supporters                                      | 3                                       | 3                                           | 3               | 3               | 3               | 3               | 3               | 3               | 3               | 3               | 3               |                 |
| 挡轮型式<br>Type of thrust roller                                     | 机械<br>Mechanical                        | 机械或液压<br>Mechanical/Hydraulic               | 液压<br>Hydraulic | 液压<br>Hydraulic | 液压<br>Hydraulic | 液压<br>Hydraulic | 液压<br>Hydraulic | 液压<br>Hydraulic | 液压<br>Hydraulic | 液压<br>Hydraulic | 液压<br>Hydraulic |                 |
|                                                                   | 主传动 (转/分)<br>Main driving (r/min)       | 0.445-2.22                                  | 0.676-3.38      | 0.36-3.57       | 0.36-3.57       | 0.38-3.9        | 0.41-4.07       | 0.4-4.0         | 0.35-4          | 0.35-4          | Max4.23         |                 |
|                                                                   | 辅助传动(转/小时)<br>Auxiliary driving (r/min) | 4.75                                        | 9.36            | 6.5             | 5.61            | 7.66            | 8.2             | 7.93            | 8.52            | 7.58            | 8.7             |                 |
| 窑体转速<br>Rotating speed<br>of kiln                                 | 型号<br>Model                             | ZSN4-225-21                                 | Z2-101          | ZSN4-280-091B   | ZSN4-280-091B   | ZSN4-315-092    | ZSN4-355-092    | ZSN4-355-12     | ZSN4-400-092    | ZSN4-450-092    | ZSN4-500-092    |                 |
|                                                                   | 辅助传动(转/小时)<br>Auxiliary driving (r/min) | 4.75                                        | 9.36            | 6.5             | 5.61            | 7.66            | 8.2             | 7.93            | 8.52            | 7.58            | 8.7             |                 |
| 主传动<br>Main driving                                               | 电动机<br>Electric Motor                   | 额定功率 (千瓦)<br>Rated power (kw)               | 55              | 100             | 160             | 160             | 220             | 315             | 400             | 630             | 710             | 800             |
|                                                                   |                                         | 调速范围(转/分)<br>Speed regulation range (r/min) | ~1000           | ~1500           | 1500            | 1500            | 1000            | 1000            | 100-1000        | 1500            | 87.5-1000       | 100-1000        |
|                                                                   |                                         | 额定电压(伏)<br>Rated voltage (V)                | 440             | 220             | 440             | 440             | 440             | 440             | 440             | 660             | 660             | 660             |
|                                                                   |                                         | 型号<br>Type                                  | ZS145-1-1       | ZS145-1-1       | ZSY450-40-V     | ZSY450-40-X     | NZS995-28VBL    | VNS1110-22.4/BR | VNS1400-31.5VBL | JH710C-SV305-40 | JH800C-28       | JH900C-SV305-25 |
|                                                                   | 减速机<br>Reducer                          | 总速比<br>Total ratio                          | 49.63           | 50              | 40              | 40              | 28              | 22.4            | 31.5            | 42.226          | 26.812          | 23.901          |
|                                                                   |                                         | 型号<br>Type                                  | Y122M-4         | Y160M-6         | Y160M-4B        | Y160M-4         | Y200L1-6        | Y180L-4         | Y200L-4         | Y250M-4         | Y250M-4         | Y280M-4         |
|                                                                   | 电动机<br>Electric Motor                   | 额定功率(千瓦)<br>Rated power (kw)                | 4               | 7.5             | 15              | 11              | 18.5            | 22              | 30              | 55              | 55              | 90              |
|                                                                   |                                         | 额定转速(转/分)<br>Rated speed (r/min)            | 1440            | 970             | 1460            | 1460            | 970             | 1470            | 1470            | 1480            | 1480            | 1480            |
|                                                                   | 减速机<br>Reducer                          | 额定电压(伏)<br>Rated voltage (V)                | 380             | 380             | 380             | 380             | 380             | 380             | 380             | 380             | 380             | 380             |
|                                                                   |                                         | 型号<br>Model                                 | ZL35-16         | ZL35-7-1        | ZSY160-31.5-II  | ZSY355-31.5     | ZSY355          | VNS440-45IIR    | VNS497-45ZC     | JH220C-SV302-28 | JH280C-45       | ZSY400-35.5-I   |
| 总重 (不包括耐火砖) (吨) (ton)<br>Total weight(excluding refractory brick) | 177                                     | 207                                         | 256.5           | 281             | 341             | 434             | 550.5           | 854             | 894             | 1201            | 1580            |                 |
| 窑头重量 (吨) (ton)<br>weight of discharging kiln hood                 | 20                                      | 22                                          | 25              | 27              | 28              | 35              | 36              | 45              | 48              |                 |                 |                 |

BALL MILL

Product Overview

The ball mill is designed for grinding cement raw materials, cement clinker, and other industrial materials. It is widely used in cement production, metallurgy, chemical processing, building materials, and mineral processing industries.

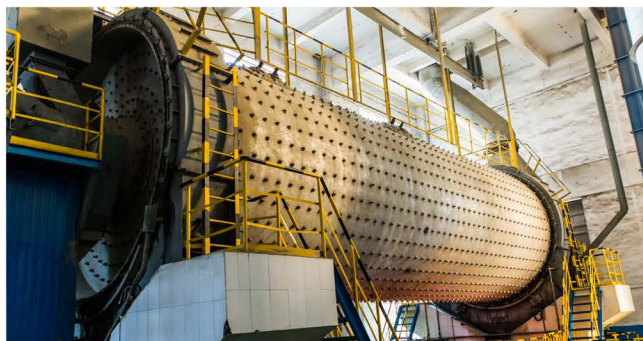
Changzheng Machinery provides ball mills in various specifications and configurations. The equipment can be designed with edge drive or center drive systems, reliable bearing structures, optimized liners, and efficient lubrication systems to ensure stable operation and improved grinding performance.

Key Features

- Suitable for cement, metallurgy, chemical, and mineral applications
- Stable operation under continuous working conditions
- Optimized grinding chamber and liner design
- Reliable transmission and lubrication system
- High grinding efficiency and consistent product fineness
- Custom design available according to capacity and process requirements



Workshop Assembly of Ball Mill



Cement Grinding Ball Mill

Technical Data of Ball Mill

| (规格<br>(直径×长度)<br>Specifications<br>(Diameter×Length) | 转速<br>(r/min)<br>Rotating Speed | 入料粒度<br>(mm)<br>Feed size | 生产能力<br>(t/h)<br>Capacity | 研磨体装量<br>(t)<br>Load of grinding media | 主电机<br>Main Motor |                     |                        | 主减速器<br>Main Reducer |                   | (不含电机减速机)<br>重量<br>(t)<br>Weight |
|-------------------------------------------------------|---------------------------------|---------------------------|---------------------------|----------------------------------------|-------------------|---------------------|------------------------|----------------------|-------------------|----------------------------------|
|                                                       |                                 |                           |                           |                                        | 型号<br>Model       | 功率<br>(kw)<br>Power | 转速<br>(r.p.m)<br>Speed | 型号<br>Model          | 速比<br>Speed Ratio |                                  |
| Φ2.2×11                                               | 22.2                            | ≤25                       | 15~17                     | 50                                     | JR1512-8          | 570                 | 740                    | ZD80                 | 5                 | 83                               |
| Φ2.4×8                                                | 20.91                           | ≤25                       | 14~18                     | 39.5~42                                | JR1512-8          | 570                 | 740                    | ZD80                 | 5                 | 76.4                             |
| Φ2.4×9                                                | 20.91                           | ≤25                       | 23~25圈                    | 50                                     | JR1512-8          | 570                 | 740                    | ZD80                 | 5                 | 81                               |
| Φ2.4×10                                               | 20.91                           | ≤25                       | 开16~18                    | 50                                     | TR1512-8          | 630                 | 740                    | ZD80                 | 5                 | 92.4                             |
| Φ2.4×11                                               | 21                              | ≤25                       | 开17~19圈<br>20~22          | 60~62                                  | YR710-8/1180      | 710                 | 740                    | JDX630               | 5.6               | 105                              |
| Φ2.4×12                                               | 21                              | ≤25                       | 开18~20圈<br>22~24          | 63~65                                  | YR800-8/1180      | 800                 | 740                    | MBY710               | 6.3               | 110                              |
| Φ2.4×13                                               | 21                              | ≤25                       | 开21~22圈<br>24~26          | 66~68                                  | YR800-8/1180      | 800                 | 740                    | MBY710               | 6.3               | 117                              |
| Φ2.6×10                                               | 20.6                            | ≤25                       | 21~24                     | 64                                     | YR800-8/1180      | 800                 | 740                    | JDX710               | 6.3               | 133                              |
| Φ2.6×11                                               | 20.6                            | ≤25                       | 21~28                     | 69                                     | YR800-8/1180      | 800                 | 740                    | JDX710               | 6.3               | 140                              |
| Φ2.6×13                                               | 20.6                            | ≤25                       | 28~31                     | 80                                     | YR1000-8/1180     | 1000                | 740                    | JDX800               | 6.3               | 151                              |
| Φ3.0×9                                                | 19.13                           | ≤25                       | 35~40(圈)                  | 80~83                                  | YR1000-8/1180     | 1000                | 740                    | MBY800               | 7.1               | 137                              |
| Φ3.0×11                                               | 18.92                           | ≤25                       | 44~47(圈)                  | 95~100                                 | YR1250-8/1430     | 1250                | 740                    | JDX900               | 7.1               | 159                              |
| Φ3.0×12                                               | 18.92                           | ≤25                       | 48~52(圈)                  | 103                                    | YR1250-8/1430     | 1250                | 740                    | JDX900               | 7.1               | 164                              |
| Φ3.0×13                                               | 18.92                           | ≤25                       | 39~45(开)                  | 110~116                                | YR1400-8/1430     | 1400                | 740                    | JDX900               | 7.1               | 183                              |
| Φ3.2×11                                               | 18.3                            | ≤25                       | 45~48(圈)                  | 110~112                                | YR1400-8/1430     | 1400                | 740                    | JDX900               | 7.1               | 195.5                            |
| Φ3.2×13                                               | 18.7                            | ≤25                       | 45~50(开)                  | 125                                    | YR1600-8/1430     | 1600                | 740                    | JDX1000              | 7.15              | 213                              |
| Φ3.4×11                                               | 18                              | ≤25                       | 45~55(圈)                  | 115                                    | YR1600-8/1430     | 1600                | 740                    | JDX1000              | 7.15              | 201                              |
| Φ3.5×13<br>中心传动                                       | 17                              | ≤25                       | 50~55                     | 150                                    | YR2000-8/1730     | 2000                | 740                    | JS130-A-F1           |                   | 223                              |
| Φ3.5×13<br>边缘传动                                       | 17.5                            | ≤25                       | 50~60                     | 150                                    | YR2000-8/1730     | 2000                | 740                    | JDX1000              | 6.3               | 240.5                            |
| Φ3.8×13<br>主轴承式                                       | 16.3                            | ≤25                       | 65~70                     | 185                                    | YR2500-8/1730     | 2500                | 740                    | JS130-C-F1           |                   | 240                              |
| Φ3.8×13<br>焊接滑履                                       | 16.3                            | ≤25                       | 65~70                     | 185                                    | YR2500-8/1730     | 2500                | 740                    | JS130-C-F1           |                   | 220                              |
| Φ4×13                                                 | 16.3                            | ≤25                       | 78~80                     | 191                                    | YRkk900           | 2800                | 745                    | JS140-A              |                   | 220                              |
| Φ4.2×11<br>主轴承式                                       | 15.6                            | ≤2                        | 120~140                   | 190                                    | YR2800-8/1730     | 2800                | 740                    | JS140-A-F1D          |                   | 245                              |
| Φ4.2×13<br>主轴承式                                       | 15.6                            | ≤2                        | 140~155                   | 225                                    | YRkk1000-8        | 3350                | 740                    | JS150-A              |                   | 260                              |
| Φ4.2×13<br>中心滑履式                                      | 15.6                            | ≤2                        | 140~155                   | 225                                    | YRkk1000-8        | 3550                | 740                    | JS150-A              |                   | 280                              |
| Φ4.2×13<br>(焊接滑履)                                     | 15.6                            | ≤2                        | 140~155                   | 225                                    | YRkk1000-8        | 3550                | 740                    | JS150-B              |                   | 260                              |
| Φ4.6×13.5<br>(焊接滑履)                                   | 14.5                            | ≤25                       | 140                       | 280                                    | YRkk1000-6        | 4500                | 995                    |                      |                   | 365                              |
| Φ4.6×14                                               | 14.5                            | ≤25                       | 145                       | 285                                    | YR1000-6          | 4500                | 995                    |                      |                   | 372                              |
| Φ5.0×15                                               | 14                              | ≤25                       | 160~165                   | 350                                    | YRkk1000-8        | 6000                | 740                    |                      |                   | 420                              |

## HIGH-EFFICIENCY ROTARY DRUM DRYER

## HIGH-EFFICIENCY ROTARY DRUM DRYER

### Product Overview

The high-efficiency rotary drum dryer is designed for drying clay, slag, coal powder, minerals, and other bulk materials in cement, metallurgy, chemical, and building material industries.

Standard sizes include  $\Phi 1.5 \times 12$  m,  $\Phi 2.2 \times 12$  m,  $\Phi 2.2 \times 14$  m,  $\Phi 2.4 \times 18.35$  m,  $\Phi 3 \times 25$  m, and  $\Phi 4 \times 32$  m. Custom configurations are available according to material properties, moisture content, capacity, and site conditions.

### Key Features

- Suitable for drying various bulk materials
- High heat exchange efficiency and uniform drying
- Optional lifting devices for different materials
- Robust structure for continuous operation
- Suitable for new projects and system upgrades
- Custom design available



$\Phi 2.4 \times 18$  m Rotary Drum Drying System



$\Phi 2.6 \times 24$  m Rotary Drum Drying System



$\Phi 2.8 \times 28$  m Rotary Drum Drying System

Technical Data of High-Efficiency Rotary Drum Dryer

| Specification<br>Item (m)      |                 | Φ1.5×12    | Φ2.2×12      | Φ2.2×14     | Φ2.4×18.35  | Φ3×25          | Φ4×32        |
|--------------------------------|-----------------|------------|--------------|-------------|-------------|----------------|--------------|
| Cylinder Inner Diameter (m)    |                 | 1.5        | 2.2          | 2.2         | 2.4         | 3              | 4            |
| Cylinder Length (m)            |                 | 12         | 12           | 14          | 18.35       | 25             | 32           |
| Slope (%)                      |                 | 5          | 5            | 5           | 3           | 3              | 3            |
| Speed (r/min)                  |                 | 5          | 4.7          | 4.7         | 5           | 4.7            | 3.74         |
| Flow Direction                 |                 | Co-current |              |             |             | Countercurrent | Co-current   |
| Capacity (t/h)                 |                 | 5-10       | 8-12         | 10-15       | 15-20       | 24             | 35           |
| Initial Moisture Content (%)   |                 | 20-30      | 20-30        | 20-30       | 20-30       | 20             | 40           |
| Final Moisture Content (%)     |                 | 1          | 1            | 1           | 1           | 2              | <3           |
| Max. Inlet Air Temperature (℃) |                 | 800        | 800          | 800         | 800         | 800            | 800          |
| Exhaust Gas Temperature (℃)    |                 | 100-200    | 100-200      | 100-200     | 120         | 120            | 100-200      |
| Motor                          | Model           | Y160L1-6   | Y200L1-6     | Y200L1-6    | Y280M-6     | Y315S-6        | JS127-6      |
|                                | Power (kW)      | 10         | 18.5         | 18.5        | 55          | 75             | 185          |
| Reducer                        | Model           | ZL65-14-I  | ZL65-14-II Z | ZQ65-31.5 Z | ZL85-22.4-I | ZQ85-22.4-I    | JH400C-SW-25 |
|                                | Reduction Ratio | 31.5       | 31.5         | 31.5        | 22.4        | 22.4           | 25           |
| Equipment Weight (t)           |                 | 17.7       | 28.9         | 38          | 59.8        | 79.2           | 220          |

HIGH-PERFORMANCE POWDER SEPARATOR



## HIGH-PERFORMANCE POWDER SEPARATOR

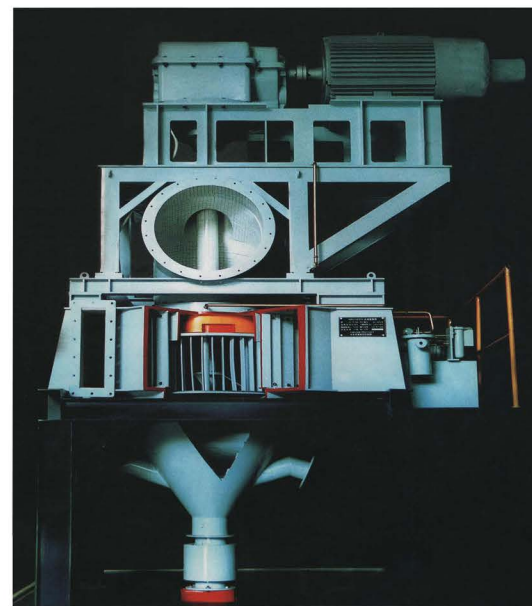
### Product Overview

The high-performance powder separator is designed for classification and powder separation of cement, raw meal, limestone, slag, fly ash, and other powder materials. It is widely used in cement grinding systems and building material powder processing lines.

The equipment helps control product fineness, improve particle size distribution, increase grinding system efficiency, and reduce overall energy consumption. With a compact structure, it can be integrated with mills, dust collectors, fans, and conveying systems, making it suitable for both new production lines and existing grinding system upgrades.

### Key Features

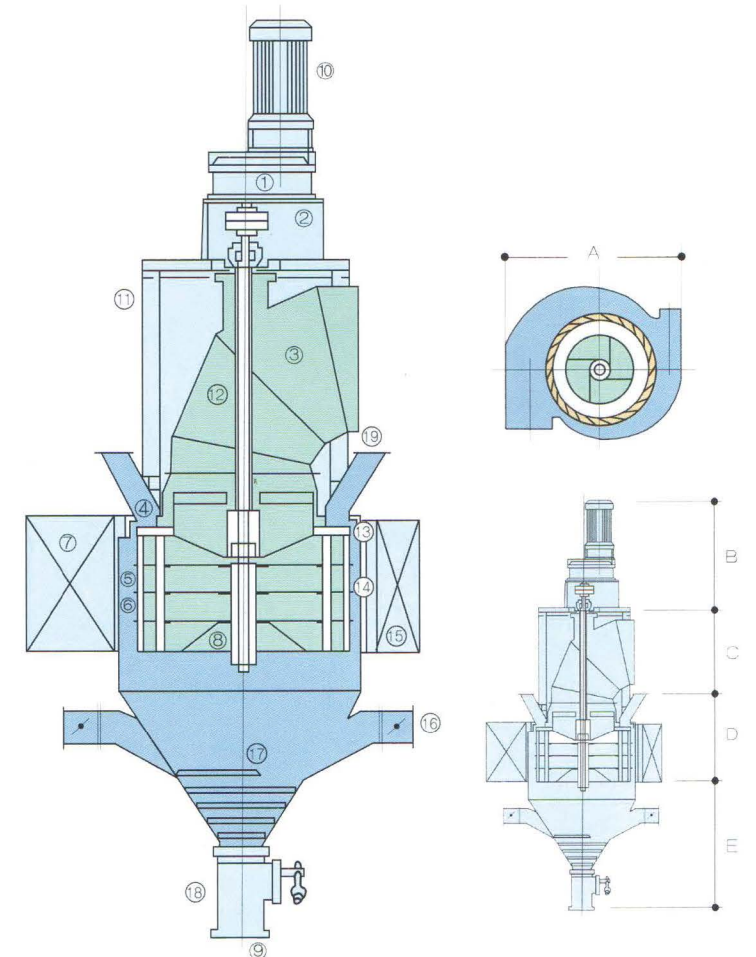
- High separation efficiency and easy fineness control
- Improved particle size distribution and product quality
- Higher grinding system efficiency and lower energy consumption
- Compact structure and flexible system layout
- Integrated with mills, fans, and dust collectors
- Suitable for new projects and grinding system upgrades



High-Performance Powder Separator

### Structure and Main Components

1. Reducer
2. Reducer Base
3. Finished Product Outlet
4. Spreading Tray
5. Vortex Regulator
6. Partition Plate
7. Primary Air Inlet
8. Rotor
9. Coarse Powder Outlet
10. Electric Motor
11. Support Frame
12. Main Shaft
13. Buffer Plate
14. Guide Vane
15. Secondary Air Inlet
16. Tertiary Air Inlet
17. Collecting Hopper
18. Weighted Flap Valve
19. Feed Inlet



### Technical Data of Powder Separator

| 型号<br>type | 主轴转速<br>rotation speed | 电机功率<br>motor power | 风量<br>air quantity  | 最大喂料量<br>max.feeding rate | 产量<br>production rate | 几何尺寸 (mm)<br>dimensions(mm) |      |      |      |      |
|------------|------------------------|---------------------|---------------------|---------------------------|-----------------------|-----------------------------|------|------|------|------|
|            | rpm                    | kw                  | m <sup>3</sup> /min | t/h                       | t/h                   | A                           | B    | C    | D    | E    |
| N-250      | 250-550                | 22                  | 250                 | 30                        | 8-12                  | 1500                        | 1330 | 760  | 710  | 1700 |
| N-500      | 265-320                | 45                  | 500                 | 90                        | 18-35                 | 1970                        | 2637 | 1100 | 1160 | 2010 |
| N-750      | 180-330                | 55                  | 750                 | 135                       | 27-45                 | 2638                        | 2625 | 1375 | 1360 | 2062 |
| N-1000     | 250-285                | 75                  | 1000                | 180                       | 36-60                 | 2660                        | 2908 | 1600 | 1490 | 2490 |
| N-1500     | 185-240                | 90                  | 1500                | 270                       | 54-90                 | 3200                        | 2853 | 1700 | 1890 | 2920 |
| N-2000     | 165-210                | 110                 | 2000                | 360                       | 72-120                | 3650                        | 2975 | 2200 | 1910 | 3100 |
| N-2500     | 145-190                | 132                 | 2500                | 450                       | 90-150                | 4050                        | 3023 | 2250 | 2310 | 3560 |
| N-3000     | 135-170                | 160                 | 3000                | 540                       | 108-180               | 4410                        | 3089 | 2430 | 2400 | 3630 |
| N-3500     | 80-175                 | 220                 | 3500                | 630                       | 126-210               | 5408                        | 1859 | 3408 | 2077 | 3861 |
| N-4000     | 75-165                 | 250                 | 4000                | 720                       | 144-240               | 5713                        | 2050 | 3363 | 2515 | 4118 |
| N-4500     | 70-156                 | 280                 | 4500                | 810                       | 162-270               | 6135                        | 2080 | 3324 | 2751 | 4242 |
| N-5000     | 65-147                 | 315                 | 5000                | 900                       | 180-300               | 6480                        | 2120 | 3401 | 2806 | 4296 |

Note: The production rate is based on a cement specific surface area of 2900 cm<sup>2</sup>/g.

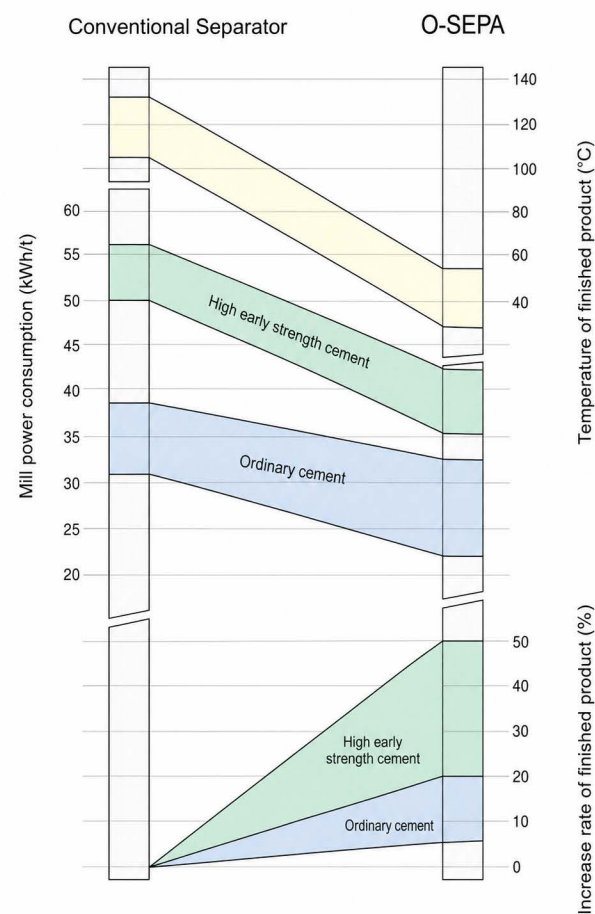
## OPERATING DATA AND SEPARATION PERFORMANCE

### Comparison Between O-SEPA and Conventional Separators

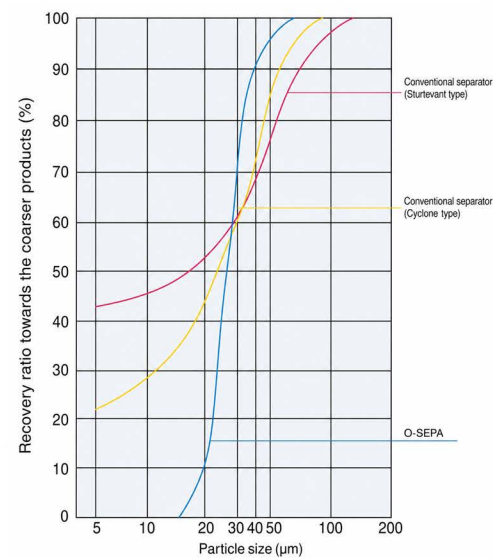
The diagrams below show the performance comparison between a conventional separator and the O-SEPA separator in ordinary cement production.

### Scope of Application

O-SEPA is suitable for the classification of cement, cement raw meal, limestone, quicklime, clay, slag, coal, and other fine powder materials.



Performance Comparison Between Conventional Separator and O-SEPA

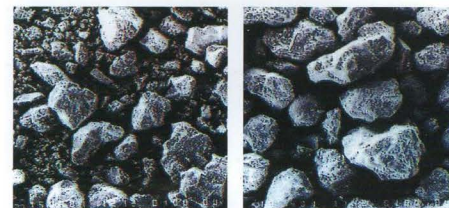


Separation Performance Curve

### Coarse Powder Comparison

The photos below show the coarse powder condition observed under an electron microscope.

Circulating load: 1.64 / 1.77



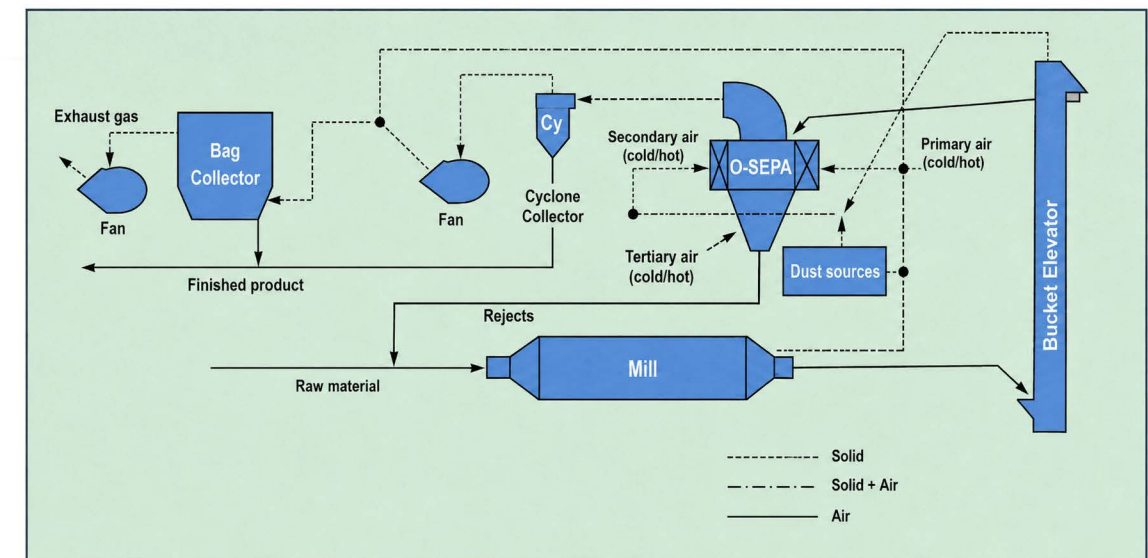
Conventional Separator O-SEPA Separator

Coarse Powder Comparison Under Electron Microscope

## O-SEPA SYSTEM PROCESS DESIGN EXAMPLES

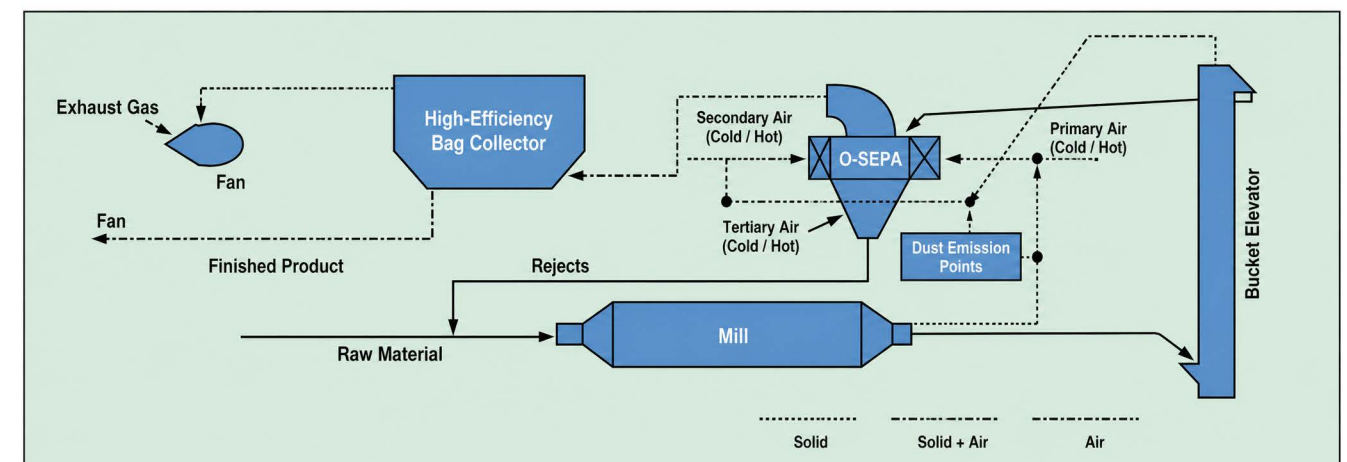
### System I

Compared with System II, this configuration reduces the load of the bag filter.



### System II

This system utilizes a high-efficiency bag filter to fully exploit the performance of O-SEPA, reducing energy consumption and lowering cement temperature.



## NE PLATE CHAIN BUCKET ELEVATOR

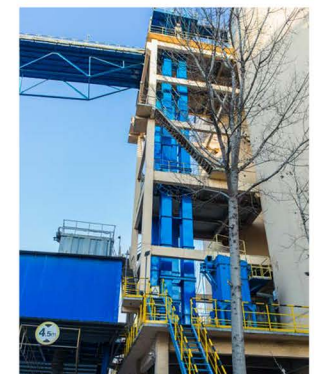
### Product Overview

The NE plate chain bucket elevator is designed for vertical conveying of bulk materials such as ore, coal, cement, cement clinker, limestone, and other lumpy or granular materials.

With a plate chain traction structure, the equipment features large conveying capacity, stable operation, high lifting height, and strong material adaptability. It is widely used in cement, building materials, chemical, mining, metallurgy, and material handling systems. Changzheng Machinery can provide customized configurations according to conveying capacity, lifting height, material characteristics, and site layout.

### Key Features

- Suitable for lifting ore, coal, cement, clinker, and bulk materials
- Plate chain traction structure for stable operation
- Large conveying capacity and high lifting height
- Suitable for lumpy, granular, and abrasive materials
- Compact structure for flexible production line layout
- Custom design available according to capacity, height, and site conditions



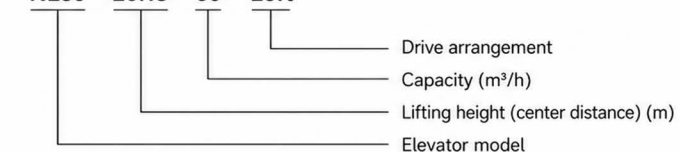
**Technical Data of NE Plate Chain Bucket Elevator**

| Model | Capacity (t/h) | Max. Particle Size (mm) | Bulk Density (t/m <sup>3</sup> ) | Max. Lifting Height (m) | Power (kW) |
|-------|----------------|-------------------------|----------------------------------|-------------------------|------------|
| NE15  | 10–15          | 40                      | 0.6–2.0                          | 35                      | 1.5–4      |
| NE30  | 18.5–31        | 55                      |                                  | 50                      | 3–11       |
| NE50  | 35–60          | 60                      |                                  | 45                      | 5.5–18.5   |
| NE100 | 75–110         | 70                      |                                  | 50                      | 15–30      |
| NE150 | 112–165        | 90                      | 0.6–1.8                          | 50                      | 22–45      |
| NE200 | 170–220        | 100                     |                                  | 50                      | 30–55      |
| NE300 | 230–340        | 125                     |                                  | 50                      | 45–75      |
| NE400 | 340–450        | 130                     |                                  | 50                      | 55–90      |
| NE500 | 450–550        | 140                     |                                  | 50                      | 75–110     |
| NE600 | 550–660        | 150                     |                                  | 50                      | 90–132     |
| NE800 | 680–830        | 165                     |                                  | 50                      | 110–160    |

The capacities listed in the table are calculated based on a filling coefficient of 0.7.

**Designation Example:**

**NE50 – 20.13 – 60 – Left**



## TWIN SHAFT MIXER

### Product Overview

The twin shaft mixer is a high-efficiency forced mixing equipment designed for blending powder, granular, and semi-dry materials in cement, building materials, chemical, metallurgy, and environmental protection industries.

It adopts a dual-shaft counter-rotation structure, ensuring fast and uniform mixing with high efficiency and strong adaptability. The equipment is suitable for both continuous and batch production processes.

Changzheng Machinery provides customized designs according to material properties, capacity requirements, and process conditions.

### Key Features

- Forced twin-shaft mixing for high homogeneity
- High efficiency and large processing capacity
- Suitable for powder, granular, and semi-dry materials
- Robust structure with stable operation
- Supports continuous or batch operation
- Custom design available



Technical Data of Twin Shaft Mixer

| Item                  |       | Unit  | Φ400×3000    | Φ500×3000     | Φ550×3000     |
|-----------------------|-------|-------|--------------|---------------|---------------|
| Mixing Blade Diameter |       | mm    | Φ400         | Φ500          | Φ550          |
| Mixing Shaft Speed    |       | r.p.m | 50.4         | 48            | 45            |
| Capacity              |       | t/h   | 11-15        | 22-25         | 25-30         |
| Installation Angle    |       |       | 12° -21°     | 12° -21°      | 12° -21°      |
| Matching Motor        | Model |       | Y160M-4      | Y160L-4       | Y180M-4       |
|                       | Power | kw    | 11KW         | 15KW          | 22KW          |
| Matching Reducer      |       |       | JZQ400-4-III | JZQ500-IV-2Z  | JZQ650-5-II   |
| Moisture Content      |       | %     | 1.5          | 1.5           | 1.5           |
| Dimensions            |       | mm    | 5014×850×880 | 5225×1286×828 | 5683×1450×890 |
| Total Weight          |       | kg    | 2500         | 3300          | 3800          |

## RIGID IMPELLER FEEDER

### Product Overview

The rigid impeller feeder is designed for uniform and continuous quantitative feeding of bulk materials. It is widely used in cement, building materials, metallurgy, chemical, and environmental protection industries.

The equipment discharges and conveys materials through a rotating impeller, featuring compact structure, good sealing performance, stable operation, and high feeding accuracy. It is suitable for powder and fine granular materials.

Changzheng Machinery provides customized designs according to conveying capacity, material characteristics, and site conditions.

### Key Features

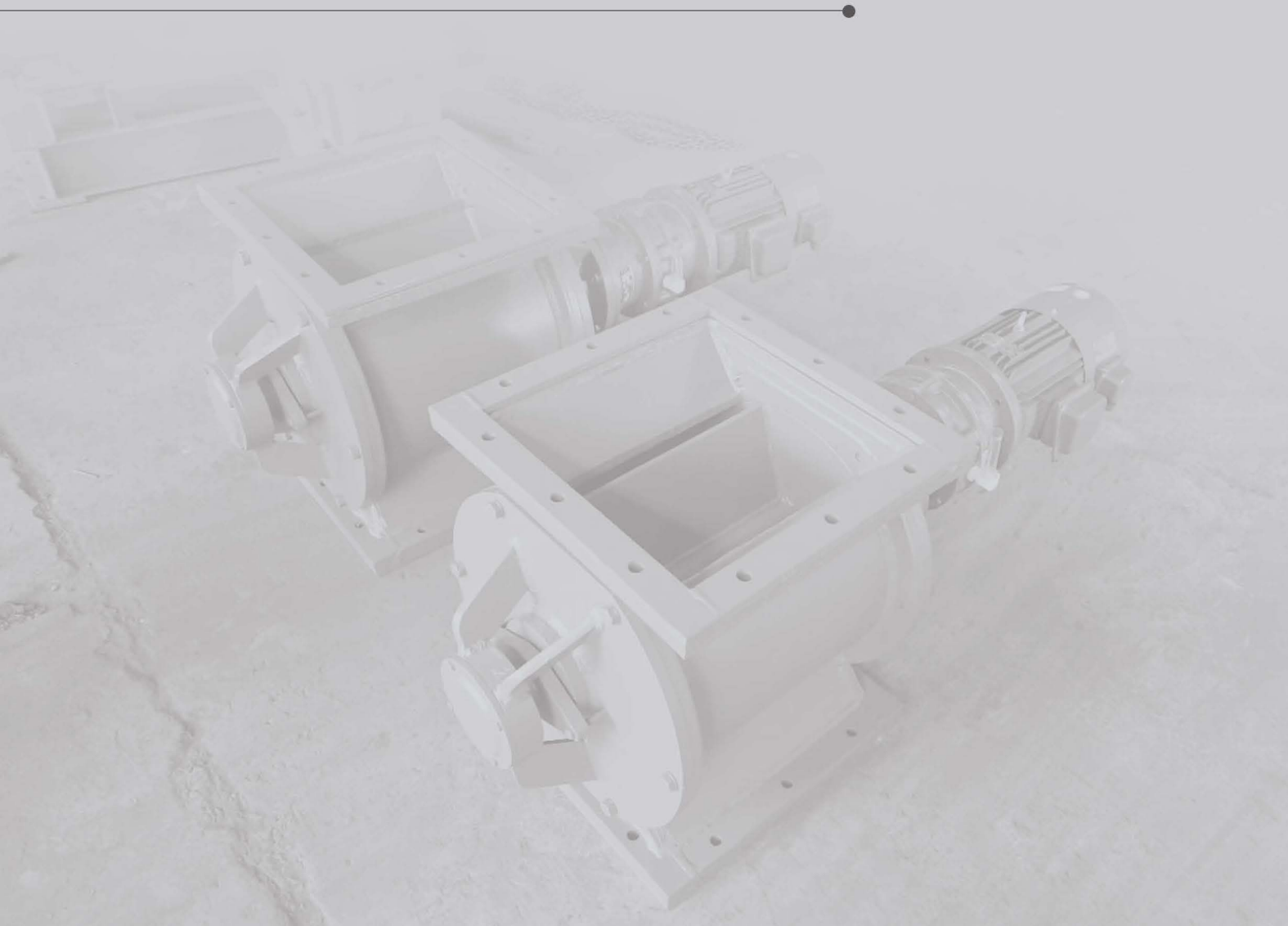
- Stable and uniform feeding performance
- Compact structure and small footprint
- Excellent sealing to reduce dust leakage
- Suitable for powder and fine granular materials
- Easy maintenance and long service life
- Custom design available



Technical Data of Impeller Feeder

| Specification | Unit | Capacity (m³/h) | Power                | Note |
|---------------|------|-----------------|----------------------|------|
| 200 × 200     | set  | 7               | YTC502 1.1 kW 31 rpm |      |
| 200 × 300     | set  | 10              | YTC502 1.1 kW 31 rpm |      |
| 300 × 300     | set  | 23              | YTC561 1.1 kW 31 rpm |      |
| 300 × 400     | set  | 31              | YTC561 1.1 kW 31 rpm |      |
| 400 × 400     | set  | 53              | YTC562 2.2 kW 31 rpm |      |
| 400 × 500     | set  | 67              | YTC562 2.2 kW 31 rpm |      |
| 500 × 500     | set  | 106             | YTC751 3.8 kW 31 rpm |      |

## RIGID IMPELLER FEEDER



## LS / GX Type Screw Conveyor

### Product Overview

The LS / GX type screw conveyor is designed for horizontal or slightly inclined continuous conveying of powder, granular, and small lump materials. It is widely used in cement, building materials, metallurgy, chemical, and grain industries.

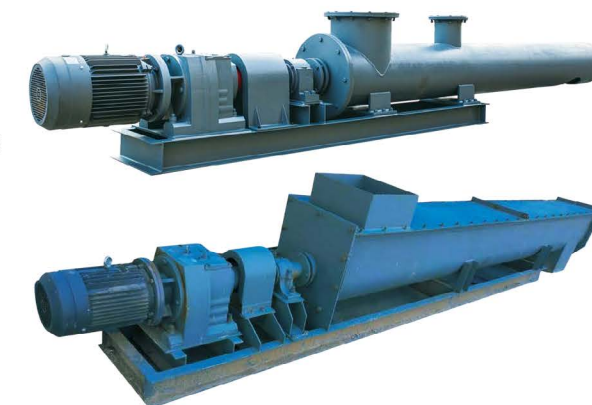
The material is transported through a rotating screw flight, ensuring stable conveying performance. The equipment features a compact structure, reliable operation, good sealing performance, and easy maintenance.

The LS type is an upgraded version of the GX type, featuring improved structural design and higher operational reliability, making it more suitable for heavy-duty continuous working conditions.

The conveyor can be configured in multiple specifications according to conveying length and working requirements.

### Key Features

- Suitable for powder, granular, and small lump materials
- Stable and continuous conveying performance
- Compact structure with reliable operation
- Good sealing performance to reduce dust leakage
- Easy maintenance and long service life
- LS type upgraded from GX type for higher reliability
- Flexible configuration according to project requirements



Technical Data of LS/GX Type Screw Conveyor

| Model | Screw Diameter (mm) | Conveying Capacity (m³/h) |        |        |        |        |        |        |        |        |         |         |
|-------|---------------------|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
|       |                     | 20 rpm                    | 25 rpm | 32 rpm | 40 rpm | 50 rpm | 63 rpm | 71 rpm | 80 rpm | 90 rpm | 100 rpm | 112 rpm |
| LS160 | Φ 160               | 1.3                       | 1.6    | 2.1    | 2.6    | 3.2    | 4.1    | 4.7    | 5.2    | 5.9    | 6.5     | 7.3     |
| LS200 | Φ 200               | 2.5                       | 3.2    | 4.0    | 5.0    | 6.3    | 8.0    | 9.0    | 10.1   | 11.4   | 12.6    | 14.2    |
| LS250 | Φ 250               | 5.0                       | 6.2    | 7.9    | 9.9    | 12.4   | 15.6   | 17.6   | 19.8   | 22.3   | 24.8    |         |
| LS315 | Φ 315               | 7.7                       | 9.6    | 12.3   | 15.3   | 19.2   | 24.2   | 27.2   | 31.0   | 34.5   |         |         |
| LS400 | Φ 400               | 17.4                      | 21.7   | 27.8   | 34.8   | 43.5   | 54.7   | 61.7   | 70.4   |        |         |         |
| LS500 | Φ 500               | 31.0                      | 39.0   | 50.0   | 62.0   | 78.0   | 98.0   | 110.5  |        |        |         |         |
| LS630 | Φ 630               | 57.5                      | 72     | 92     | 115    | 140    | 180    |        |        |        |         |         |
| LS800 | Φ 800               | 101                       | 126    | 160    | 200    | 252    |        |        |        |        |         |         |

## LS、GX TYPE SCREW CONVEYOR



# ROTARY COOLER (SINGLE-DRUM TYPE)

## ROTARY COOLER (SINGLE-DRUM TYPE)

### Product Overview

The rotary single-drum cooler is designed for cooling high-temperature bulk materials discharged from rotary kilns, including cement clinker, lime, and other granular materials.

It adopts a rotating drum structure, where materials are cooled through continuous air exchange during conveying. The equipment features stable operation, high cooling efficiency, large capacity, and reliable performance.

It is widely used in cement production lines, metallurgical industries, and building material processing systems.

Changzheng Machinery provides customized designs according to process requirements, material characteristics, and production capacity.

### Key Features

- Efficient cooling of high-temperature materials
- Stable and continuous operation
- Large processing capacity
- Strong adaptability to working conditions
- Simple structure and reliable performance
- Custom design available



Technical Data of Rotary Single-Drum Cooler

| Item                           |                    | Specification (m)                                           |            |            |                       |                       |            |          |          |              |            |            |
|--------------------------------|--------------------|-------------------------------------------------------------|------------|------------|-----------------------|-----------------------|------------|----------|----------|--------------|------------|------------|
|                                |                    | Φ1.8×8                                                      | Φ2×20      | Φ2.2×22    | Φ2.4×24               | Φ2.5×25               | Φ2.8×28    | Φ3.2×36  | Φ3.3×40  | Φ3.5×30      | Φ3.5×35    | Φ3.8×42    |
| Shell Diameter (m)             |                    | 1.8                                                         | 2          | 2.2        | 2.4                   | 2.5                   | 2.8        | 3.2      | 3.3      | 3.5          | 3.5        | 3.8        |
| Shell Length (m)               |                    | 8                                                           | 20         | 22         | 24                    | 25                    | 28         | 36       | 40       | 30           | 35         | 42         |
| Slope (%)                      |                    | 3.5                                                         |            |            |                       |                       |            |          |          |              |            |            |
| Rotating Speed (r/min)         |                    | 3.93                                                        | 3          | 3          | 3                     | 3                     | 3          | 4.12     | 3.81     | 3.96         | 3.65       | 3.50       |
| Capacity (t/h)                 |                    | 6                                                           | 7.5        | 8-10       | 11.5                  | 14                    | 17-19      | 25       | 27       | 29           | 33         | 45         |
| Temperature (°C)               | Inlet Temperature  | 1100℃ (Dry Process) , 1200-1300℃ (External Decomposition)   |            |            |                       |                       |            |          |          |              |            |            |
|                                | Outlet Temperature | 200℃ (Dry Process) , Around 250℃ (External Decomposition)   |            |            |                       |                       |            |          |          |              |            |            |
| Secondary Air Temperature (°C) |                    | Around 600℃                                                 |            |            |                       |                       |            |          |          |              |            |            |
| Reducer                        | Model              | ZL65-15III                                                  | ZL100-16II | ZL100-16II | ZL125-3-I             | ZS125-3-I             | ZL100-14-I | ZL130-16 | ZL130-17 | NZS995-40-VI | ZL130-17-I | ZL130-17-I |
|                                | Reduction Ratio    | 35.5                                                        | 41.5       | 41.5       | 63.13                 | 63.13                 | 31.66      | 40       | 45       | 40           | 45         | 45         |
| Motor                          | Model              | Y225S-8                                                     | YCT315-4B  | YCT315-4B  | Y225M-4B <sub>3</sub> | Y250M-4B <sub>3</sub> | Y280M-6    | Y315S-4  | Y315S-4  | Y315S-4      | Y315M-4    | Y315L-4    |
|                                | Power (kW)         | 18.5                                                        | 45         | 45         | 45                    | 55                    | 55         | 110      | 110      | 110          | 132        | 160        |
| Equipment Weight (t)           |                    | 22.7                                                        | 60.86      | 71.31      | 94.07                 | 100                   | 125.25     | 214      | 248      | 218.62       | 238.89     | 320.87     |
| Note                           |                    | Equipment weight does not include refractory bricks weight. |            |            |                       |                       |            |          |          |              |            |            |

## MINING MILL

## MINING MILL

### Product Overview

The mining mill is designed for large-scale ore grinding in mining, metallurgy, cement, and power applications.

It includes autogenous mills, semi-autogenous mills, overflow ball mills, and air-swept coal mills.

The autogenous mill allows direct feed of run-of-mine or coarsely crushed ore, integrating crushing and grinding in a single process.

The semi-autogenous mill operates between autogenous grinding and conventional ball milling, providing improved process flexibility and efficiency.

Compared with conventional grinding circuits, the system offers a simplified flowsheet, reduced capital investment, and higher grinding efficiency.

### Key Features

- Integrated crushing and grinding in a single system
- Direct feed of run-of-mine or coarse crushed ore
- Flexible autogenous and semi-autogenous configurations
- Simplified process flowsheet with reduced CAPEX
- High grinding efficiency and stable operation
- Applicable to mining, metallurgy, cement, and power industries



Technical Data of Mining Mill

| Specification (m)                              | Φ2.1 × 2.2<br>Grate Type     | Φ2.1 × 3.0<br>Overflow<br>Type | Φ2.7 × 3.6<br>Grate Type | Φ2.7 × 4.0<br>Grate Type | Φ3.2 × 4.5<br>Overflow<br>Type | Φ2.7 × 4.0<br>Grate Type | Φ3.6 × 5.5<br>Grate Type | Φ1.2 × 4.5<br>Grate Type | Φ1.5 × 3.0<br>Grate Type | Φ1.5 × 5.7<br>Grate Type | Φ1.83 × 4.7<br>Overflow<br>Type | Φ2.2 × 7<br>Grate Type | Φ2.7 × 9<br>Grate Type | Φ2.4 × 4.75<br>Air-swept<br>Mill |          |
|------------------------------------------------|------------------------------|--------------------------------|--------------------------|--------------------------|--------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------------|------------------------|------------------------|----------------------------------|----------|
| Grinding Type                                  | Wet Type                     |                                |                          |                          |                                |                          |                          | Dry / Wet Type           |                          |                          |                                 |                        |                        | Dry Type                         |          |
| Drive Type                                     | Edge Drive                   |                                |                          |                          |                                |                          |                          |                          |                          |                          |                                 |                        |                        |                                  |          |
|                                                | Girth Gear / Rolling Bearing |                                |                          |                          |                                |                          |                          |                          |                          |                          |                                 |                        |                        |                                  |          |
| No. of Chambers                                | —                            |                                |                          |                          | 2                              |                          |                          | —                        | 2                        |                          | 2                               | 2                      | 2                      |                                  |          |
| Effective Volume (m³)                          | 6.6                          | 9                              | 18.5                     | 21.3                     | 33.5                           | 31.8                     | 52                       | 4.4                      | 4.4                      | 8.8                      | 16.5                            | 23.2                   | 47.2                   | 19.25                            |          |
| Rotating Speed (r/min)                         | 23.8                         |                                | 21.5                     | 21.5                     | 18.6                           | 18                       |                          | 30.5                     | 28                       |                          | 23.8                            | 21.4                   | 19.3                   | 20.4                             |          |
| Capacity (t/h)<br>(0.08 mm sieve residue < 8%) | 5                            | 8/5                            | 12                       | 15                       | 95/86                          | 100                      | 120                      | 1.4                      | 2                        | 3                        | 7                               | 16                     | 24                     | 14                               |          |
| Feed Size (mm)                                 | <25                          |                                |                          |                          |                                |                          |                          | <20                      |                          |                          | <25                             |                        |                        |                                  |          |
| Main Reducer                                   | Model                        | ZD60-8                         |                          | ZD70-7                   | ZD70-7                         |                          |                          |                          | ZD30-8                   | ZD35-5                   | ZD40-5                          | ZD60-8                 | ZD70-9                 | MBY710                           | ZD60-8   |
|                                                | Ratio                        | 4.5                            |                          | 4                        | 4                              |                          |                          |                          | 4.5                      | 31.5                     | 31.5                            | 4.5                    | 5                      | 6.3                              | 4.5      |
| Main Motor                                     | Model                        | JR128-8                        | JR137-8                  | JR1510-8                 | JR1510-8                       | JZ260-39-36              | JZ260-39-36              | JZ260-39-40              | JR91-6                   | JR125-8                  | JR127-8                         | JR138-8                | JR158-8                | YR5601-8                         | YR4006-8 |
|                                                | Speed (r/min)                | 730                            | 735                      | 740                      | 740                            | 167                      | 150                      | 150                      | 970                      | 730                      | 730                             | 735                    | 735                    | 740                              | 740      |
|                                                | Power (kW)                   | 155                            | 210                      | 475                      | 475                            | 900                      | 1300                     | 1300                     | 55                       | 95                       | 130                             | 245                    | 380                    | 800                              | 280      |
|                                                | Voltage (V)                  | 380                            |                          | 10000                    | 10000                          | 3000/6000                | 3000/6000                | 3000/6000                | 380                      |                          |                                 | 380                    | 6000                   | 6000-10000                       | 6000     |
| Grinding Media Load (t)                        | 16                           | 20                             | 39                       | 43                       | 75                             | 80                       | 10                       | 5.2                      | 11                       | 12.3                     | 20                              | 33                     | 58                     | 22                               |          |
| Total Weight (t)                               | 46.9                         | 49.1                           | 93                       | 97                       | 136                            | 156                      | 170                      | 13                       | 18                       | 28                       | 42.5                            | 50.1                   | 130                    | 47                               |          |
| Notes                                          | Raw Material                 |                                |                          |                          |                                |                          |                          | Calcined Bauxite Clinker |                          |                          | Raw Material                    |                        |                        | Coal                             |          |

## FU TYPE CONVEYOR

### Product Overview

The FU type conveyor is a horizontal or inclined conveying system ( $\leq 15^\circ$ ) designed for continuous transport of powder and granular materials.

It is developed with advanced conveying technology and features a compact structure, high reliability, long service life, and stable operation.

Compared with screw conveyors, en-masse conveyors, and other conventional conveying equipment, the FU type conveyor offers higher efficiency, better sealing performance, and lower maintenance requirements.

It is widely used in building materials, construction, chemical, power, grain processing, mining, metallurgy, ports, and transportation industries.

### Key Features

- Suitable for horizontal and inclined conveying ( $\leq 15^\circ$ )
- High efficiency and stable continuous operation
- Excellent sealing performance with low dust leakage
- Low energy consumption and high conveying efficiency
- Compact structure with easy installation and maintenance
- Long service life and high operational reliability



Technical Data of FU Type Conveyor

| Model | Slot Width (mm) | Ideal Particle Size (mm) | Max Particle Size (mm) | Max Inclination | Capacity Range (m³/h) |         |       |         |       |         |         |    | Conveying Chain Speed (m/min) |      |    |    |    |    |     |  | Material Moisture (%) |
|-------|-----------------|--------------------------|------------------------|-----------------|-----------------------|---------|-------|---------|-------|---------|---------|----|-------------------------------|------|----|----|----|----|-----|--|-----------------------|
|       |                 |                          |                        |                 | 10                    | 12      | 13.5  | 15      | 16    | 20      | 25      | 10 | 12                            | 13.5 | 15 | 16 | 20 | 25 |     |  |                       |
| FU150 | 150             | <4                       | <8                     | ≤15°            | 6-9                   | -       | -     | 9-13    | -     | 12-18   | 15-23   | ✓  | -                             | -    | ✓  | -  | ✓  | ✓  | ≤5% |  |                       |
| FU200 | 200             | <5                       | <10                    | ≤15°            | 12-16                 | -       | -     | 18-24   | -     | 24-32   | 30-40   | ✓  | -                             | -    | ✓  | -  | ✓  | ✓  | ≤5% |  |                       |
| FU270 | 270             | <7                       | <15                    | ≤15°            | 21-30                 | 25-36   | 28-40 | 31-45   | 34-48 | 42-60   | 52-75   | ✓  | ✓                             | ✓    | ✓  | ✓  | ✓  | ✓  | ≤5% |  |                       |
| FU350 | 350             | <9                       | <18                    | ≤15°            | -                     | 40-56   | -     | 54-75   | -     | 72-100  | 90-125  | -  | ✓                             | -    | ✓  | -  | ✓  | ✓  | ≤5% |  |                       |
| FU410 | 410             | <11                      | <21                    | ≤15°            | -                     | 55-80   | -     | 70-100  | -     | 95-130  | 105-150 | -  | ✓                             | -    | ✓  | -  | ✓  | ✓  | ≤5% |  |                       |
| FU500 | 500             | <13                      | <25                    | ≤15°            | -                     | 80-110  | -     | 105-145 | -     | 140-200 | 160-225 | -  | ✓                             | -    | ✓  | -  | ✓  | ✓  | ≤5% |  |                       |
| FU600 | 600             | <15                      | <30                    | ≤15°            | -                     | 115-160 | -     | 150-210 | -     | 200-290 | 230-300 | -  | ✓                             | -    | ✓  | -  | ✓  | ✓  | ≤5% |  |                       |

## FU TYPE CONVEYOR

## BL APRON CONVEYOR

## BL APRON CONVEYOR

### Product Overview

The BL apron conveyor is designed for horizontal or inclined continuous conveying of lumpy, loose, and abrasive materials. It can transfer materials from storage bins to crushers, conveyors, or other processing equipment.

The equipment is available in light-duty and medium-duty types. It is widely used in mining, chemical, metallurgy, and cement industries, and serves as an essential conveying solution in raw material handling and continuous production lines. It is especially suitable for conveying large, sharp, and high-abrasion materials.

### Key Features

- Suitable for horizontal or inclined continuous conveying
- Handles lumpy, loose, and abrasive materials
- Robust structure with stable and reliable operation
- Especially suitable for large and sharp materials
- Broad industrial application with flexible system integration
- Available in light-duty and medium-duty versions



Technical Data of BL Apron Conveyor

| Model      | Conveyor Width (mm) | Conveyor Speed (m/s) | Side Plate Height (mm) | Chain Pitch (mm) | Maximum Capacity (m <sup>3</sup> /h) |
|------------|---------------------|----------------------|------------------------|------------------|--------------------------------------|
| Light-duty | 400                 | 0.05-1.60            | 160-250                | 200              | 450                                  |
|            | 500                 |                      | 160-315                |                  | 700                                  |
|            | 630                 |                      | 200-400                |                  | 1150                                 |
|            | 800                 |                      | 250-500                | 250              | 1850                                 |
| Medium     | 800                 | 0.05-1.0             | 160-400                | 250              | 900                                  |
|            | 1000                |                      | 200-500                |                  | 1400                                 |
|            | 1200                |                      | 250-500                | 315              | 1750                                 |

# THREE-CYLINDER ROTARY DRYER

## Product Overview

The three-cylinder rotary dryer is designed for drying granular materials with specific moisture content and particle size, such as sand used in dry mortar, casting sand in foundry industry, blast furnace slag in building materials, and small granular clay or fly ash in chemical and environmental applications.

Compared with conventional single-drum dryers, the three-cylinder design significantly improves heat utilization efficiency and reduces energy consumption while maintaining stable drying performance.

The equipment is suitable for materials with initial moisture content of 10%–25%. The inlet gas temperature is typically below 750°C. For special high-temperature drying requirements, heat-resistant steel plates can be used for the feeding section and lifting plates. Final moisture content can be controlled within 1%–0.5% depending on material properties and process conditions.

## Key Features

- High thermal efficiency with reduced energy consumption
- Compact multi-cylinder structure for space saving
- Suitable for continuous drying of granular materials
- Stable operation with strong adaptability to different materials
- Adjustable moisture control for various industrial requirements
- Wear-resistant design for long service life



Technical Data of Three-Cylinder Rotary Dryer

| Item / Unit               |     | Spec. | Φ2.5×5.4m              | Φ3.2×7.0m                 | Φ3.6×8m                |
|---------------------------|-----|-------|------------------------|---------------------------|------------------------|
| Shell Diameter            | m   |       | 2.5                    | 3.2                       | 3.6                    |
| Shell Length              | m   |       | 5.4                    | 7.0                       | 8                      |
| Effective Volume          | m³  |       | 16.63                  | 52.678                    | 81.38                  |
| Rotating Speed            | rpm |       | 4–10                   | 4–10                      | 4–10                   |
| Slag Initial Moisture     | %   |       | 10–12                  | 10–12                     | 10–12                  |
| Slag Final Moisture       | %   |       | 1                      | 1                         | 1                      |
| Sand Initial Moisture     | %   |       | 8–10                   | 8–10                      | 8–10                   |
| Sand Final Moisture       | %   |       | 0.5–1                  | 0.5–1                     | 0.5–1                  |
| Max Inlet Gas Temperature | ℃   |       | 700–750℃               | 700–750℃                  | 700–750℃               |
| Capacity (Sand)           | T/h |       | Sand21–28<br>Slag18–25 | Sand45–47.5<br>Slag 40–45 | Sand65–70<br>Slag60–65 |
| Motor Model               |     |       | Y <sub>2</sub> –132M–4 | Y <sub>2</sub> –160M–4    | Y <sub>2</sub> –160M–4 |
| Motor Power               | kw  |       | 11×2                   | 7.5×4                     | 15×4                   |
| Reducer Model             |     |       | XWD7–23–11W            | XWD6–23–7.5W              | XWD8–23–15W            |
| Reducer Ratio             | I   |       | 29                     | 29                        | 29                     |

# TVR/TVSU RAW MEAL DYNAMIC SEPARATOR

## TVR / TVSU Raw Meal Dynamic Separator

### Product Overview

The TVR/TVSU raw meal dynamic separator is designed for efficient classification in raw meal grinding systems, typically used in combination with vertical roller mills.

It features stable operation, reliable performance, and optimized internal air airflow distribution, ensuring consistent separation efficiency and low system pressure loss.

The equipment provides precise particle size control and improved system stability, making it suitable for modern cement production lines with high efficiency requirements.

### Key Features

- High-efficiency dynamic classification
- Stable and reliable operation
- Optimized internal airflow distribution
- Low system pressure drop
- Easy maintenance and service access
- Suitable for vertical roller mill systems



Technical Data of TVR / TVSU Series Raw Meal Dynamic Separator

| Model    | Raw Meal Fineness – R200μm | Raw Meal Fineness – R80μm | Capacity (t/h) | Max Throughput (t/h) | Classifying Air Volume (m³/h) | Specific Surface Area (cm²/g) |
|----------|----------------------------|---------------------------|----------------|----------------------|-------------------------------|-------------------------------|
| TVR-360  | Residue ≤2%                | Residue ≤14%              | 230–260        | 1100                 | 380000                        | 3400–3600                     |
| TVR-400  | Residue ≤2%                | Residue ≤14%              | 300–320        | 1260                 | 450000                        | 3400–3600                     |
| TVSU-360 | Residue ≤2%                | Residue ≤14%              | 260            | 1120                 | 360000–380000                 | 3400–3600                     |
| TVSU-420 | Residue ≤2%                | Residue ≤14%              | 325            | 1300                 | 500000                        | 3400–3600                     |
| TVSU-520 | Residue ≤2%                | Residue ≤14%              | 440            | 1850                 | 700000                        | 3400–3600                     |

## HMC Series Pulse Jet Baghouse Dust Collector

### Product Overview

The HMC Series Pulse Jet Baghouse Dust Collector is a high-efficiency industrial air filtration system designed for continuous dust removal in cement, metallurgy, mining, chemical, and power industries.

It features advanced pulse-jet cleaning technology, ensuring stable filtration performance, low operating resistance, and high dust collection efficiency under demanding working conditions.

The modular design allows flexible system configuration, easy installation, and simplified maintenance, making it suitable for medium to large-scale industrial dust control applications.

### Key Features

- High-efficiency pulse-jet bag cleaning system
- Stable and continuous dust filtration performance
- Low pressure drop and reduced energy consumption
- Modular design for flexible installation
- Suitable for heavy-duty industrial environments
- Long service life and low maintenance requirements



Technical Data of TVR / TVSU Series Raw Meal Dynamic Separator

| Item                                    | Model                      | HMC-32                                 | HMC-48    | HMC-64    | HMC-80    | HMC-96    | HMC-112   |
|-----------------------------------------|----------------------------|----------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Air Volume ( m³/h )                     |                            | 1000-1700                              | 1500-2600 | 1000-3500 | 2500-4320 | 3020-5200 | 3530-6050 |
| Total Filter Area ( m² )                |                            | 24                                     | 36        | 48        | 60        | 72        | 84        |
| Filtering Air Velocity ( m/min )        |                            | 0.7-1.2                                | 0.7-1.2   | 0.7-1.2   | 0.7-1.2   | 0.7-1.2   | 0.7-1.2   |
| Number of Filter Bags ( pcs )           |                            | 32                                     | 48        | 64        | 80        | 96        | 112       |
| Inlet Gas Temperature ( °C )            |                            | ≤120℃                                  |           |           |           |           |           |
| Equipment Resistance ( Pa )             |                            | ≤1200                                  |           |           |           |           |           |
| Inlet Dust Concentration ( g/m³ )       |                            | ≤200                                   |           |           |           |           |           |
| Outlet Emission Concentration ( mg/m³ ) |                            | ≤50                                    |           |           |           |           |           |
| Compressed Air for Cleaning             | Pressure ( MPa )           | 0.5-0.7                                |           |           |           |           |           |
|                                         | Air Consumption ( m³/min ) | 0.01                                   | 0.14      | 0.20      | 0.24      | 0.29      | 0.34      |
| Tank Pressure ( Pa )                    |                            | 5000                                   |           |           |           |           |           |
| Number of Pulse Valves ( pcs )          |                            | 4                                      | 6         | 8         | 10        | 12        | 14        |
| Fan Motor Power ( kW )                  |                            | 1.5                                    | 3.0       | 3.0       | 5.5       | 5.5       | 7.5       |
| Filter Bag Specification and Material   |                            | Φ130 × 2000 ( mm ) Needle Punched Felt |           |           |           |           |           |
| Weight ( kg )                           | Type A ( with hopper )     | 1350                                   | 1620      | 1850      | 2360      | 2800      | 3200      |
|                                         | Type B ( without hopper )  | 1220                                   | 1470      | 1670      | 2150      | 2540      | 2880      |

## FMPD Series Split Chamber Pulse Jet Baghouse Dust Collector

## FMPD Series Split Chamber Pulse Jet Baghouse Dust Collector

### Product Overview

The FMPD Split Chamber Pulse Jet Baghouse Dust Collector is a high-efficiency industrial dust filtration system designed for large-volume gas purification applications.

It integrates split-chamber structure and pulse-jet cleaning technology to ensure stable operation, high dust removal efficiency, and reduced system resistance.

The system is widely used in cement, metallurgy, chemical, mining, and power industries for high-concentration dust collection.

**The FMPD series is available in multiple specifications to meet different industrial dust collection requirements.**

### Key Features

- Split chamber design for optimized airflow distribution
- High-efficiency pulse-jet cleaning system
- Stable operation under high dust load conditions
- Low resistance and energy-saving performance
- Modular structure for easy maintenance
- Suitable for large-scale industrial dust control systems

## FMPD Series Split Chamber Pulse Jet Baghouse Dust Collector

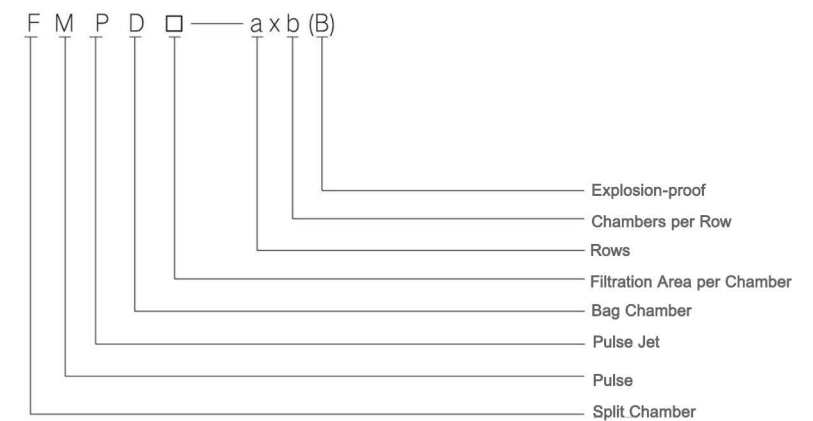
### Applications

- Cement kiln dust collection system
- Raw mill and clinker cooling system
- Metallurgical furnace exhaust gas treatment
- Power plant flue gas purification
- Chemical industry dust removal
- Bulk material handling system



## FMPD SERIES SPLIT CHAMBER PPULSE JET BAGHOUSE DUST COLLECTOR

### Technical Data of FMPD Series



**Recommended Net Filtration Velocity for Pulse-Jet Bag Dust Collectors  
at Major Dust Sources in Cement Plants**

| No. | Dust Source                                            | Dust Concentration g/m <sup>3</sup> (Std.) | Recommended Net Filtration Velocity VH (m/min) |
|-----|--------------------------------------------------------|--------------------------------------------|------------------------------------------------|
| 1   | Limestone Crushing and Material Transfer Points        | 5-20                                       | 2.0                                            |
| 2   | Raw Material Conveying and Storage                     | 5-20                                       | 1.8                                            |
| 3   | Raw Meal Grinding Feed Points                          | 10-20                                      | 1.7                                            |
| 4   | Homogenization Silo and Kiln Tail Feed                 | 15-30                                      | 1.4                                            |
| 5   | Grate Cooler                                           | 15-30                                      | 1.7                                            |
| 6   | Clinker Conveying and Storage                          | 5-10                                       | 1.7                                            |
| 7   | Raw Material Conveying and Storage                     | 5-10                                       | 1.6                                            |
| 8   | Cement Mill                                            | 80-150                                     | 1.5                                            |
| 9   | Grinding System with O-Sepa Separator                  | 1000                                       | 1.3                                            |
| 10  | Cement Storage and Packing                             | 20-30                                      | 1.8                                            |
| 11  | Air-Slide Conveyor                                     | 30-50                                      | 1.8                                            |
| 12  | Air Lift Pump, Chamber Pump, Screw Pump                | 150-200                                    | 1.4                                            |
| 13  | Screening Equipment                                    | 5-20                                       | 2.0                                            |
| 14  | Rotary Dryer                                           | 40-90                                      | 1.4                                            |
| 15  | Raw Mill (Gravity Unloading)                           | 20-80                                      | 1.4                                            |
| 16  | Raw Mill (Air-Swept Drying with Simultaneous Crushing) | 300-500                                    | 1.3                                            |
| 17  | Vertical Raw Mill                                      | 300-700                                    | 1.3                                            |
| 18  | Mechanical Elevator                                    | 80-120                                     | 1.3                                            |
| 19  | Bucket Elevator (Raw Material)                         | 20-30                                      | 1.6                                            |
| 20  | Bucket Elevator (Clinker)                              | 5-10                                       | 1.6                                            |
| 21  | Bulk Cement Loading                                    | 40-60                                      | 1.6                                            |

## FMPD SERIES SPLIT CHAMBER PPULSE JET BAGHOUSE DUST COLLECTOR

Technical Performance Data of FMPD32 Split Chamber Pulse Jet Baghouse Dust Collector

| Model                                                    |                          | FMPD32-3                                   | FMPD32-4  | FMPD32-5   | FMPD32-6   |
|----------------------------------------------------------|--------------------------|--------------------------------------------|-----------|------------|------------|
| Technical Parameters                                     |                          |                                            |           |            |            |
| Air Volume (m³/h)                                        |                          | 4000-6900                                  | 5400-9200 | 6720-11520 | 8060-13800 |
| Filtration Velocity (m/min)                              |                          | 0.7-1.2 (determined by process parameters) |           |            |            |
| Gross Filter Area (m²)                                   |                          | 96                                         | 128       | 160        | 192        |
| Net Filter Area (m²)                                     |                          | 64                                         | 96        | 128        | 160        |
| Number of Chambers                                       |                          | 3                                          | 4         | 5          | 6          |
| Number of Filter Bags                                    |                          | 96                                         | 128       | 160        | 192        |
| Collector Resistance (Pa)                                |                          | 1470-1770                                  |           |            |            |
| Inlet Dust Concentration (g/m³)                          |                          | ≤200                                       |           |            |            |
| Outlet Dust Concentration (g/m³)                         |                          | ≤0.05                                      |           |            |            |
| Allowable Negative Pressure (Pa)                         |                          | 5000                                       |           |            |            |
| Cleaning Compressed Air                                  | Pressure (MPa)           | 0.5-0.7                                    |           |            |            |
|                                                          | Air Consumption (m³/min) | 0.27                                       | 0.37      | 0.46       | 0.55       |
| Pulse Valve (with Solenoid Valve)                        | Quantity                 | 3                                          | 4         | 5          | 6          |
|                                                          | Size (inch)              | 1.5                                        |           |            |            |
| Filter Bag Specification and Material                    |                          | Φ130 × 2500 (mm), Polyester Needle Felt    |           |            |            |
| Insulation Layer Area (m²)                               |                          | 26.5                                       | 34        | 41         | 48.5       |
| Total Equipment Weight (kg) (excluding insulation layer) |                          | 3400                                       | 4000      | 5400       | 6900       |

## FMPD SERIES SPLIT CHAMBER PPULSE JET BAGHOUSE DUST COLLECTOR

Technical Performance Data of FMPD64 Split Chamber Pulse Jet Baghouse Dust Collector

| Model                                          |                          | FMPD64-4                                   | FMPD64-5    | FMPD64-6    | FMPD64-7    | FMPD64-8    |
|------------------------------------------------|--------------------------|--------------------------------------------|-------------|-------------|-------------|-------------|
| Technical Parameter                            |                          |                                            |             |             |             |             |
| Air Volume (m³/h)                              |                          | 10750-18430                                | 13440-23040 | 16130-27650 | 18800-32250 | 18800-32250 |
| Filtration Velocity (m/min)                    |                          | 0.7-1.2 (Determined by process parameters) |             |             |             |             |
| Total Filtration Area (m²)                     |                          | 256                                        | 320         | 384         | 448         | 512         |
| Net Filtration Area (m²)                       |                          | 192                                        | 256         | 320         | 384         | 448         |
| Number of Collectors (pcs)                     |                          | 4                                          | 5           | 6           | 7           | 8           |
| Number of Filter Bags (pcs)                    |                          | 256                                        | 320         | 384         | 448         | 512         |
| Collector Resistance (Pa)                      |                          | 1470-1770                                  |             |             |             |             |
| Inlet Dust Concentration (g/m³)                |                          | ≤1000                                      |             |             |             |             |
| Outlet Dust Concentration (g/m³)               |                          | ≤0.05                                      |             |             |             |             |
| Negative Pressure Resistance (Pa)              |                          | 5000                                       |             |             |             |             |
| Cleaning Compressed Air                        | Pressure (MPa)           | 0.5-0.7                                    |             |             |             |             |
|                                                | Air Consumption (m³/min) | 1.2                                        | 1.5         | 1.8         | 2.1         | 2.4         |
| Pulse Valve (with Solenoid Valve)              | Quantity (pcs)           | 4                                          | 5           | 6           | 7           | 8           |
|                                                | Size (inch)              | 2.5 inch                                   |             |             |             |             |
| Filter Bag Specification and Material          |                          | Φ130 × 2500 mm, Polyester Needle Felt      |             |             |             |             |
| Insulation Area (m²)                           |                          | 70                                         | 94          | 118         | 142         | 166         |
| Total Weight (kg) (excluding insulation layer) |                          | 8300                                       | 9700        | 11100       | 12500       | 14300       |

FMPD SERIES SPLIT CHAMBER PPULSE JET BAGHOUSE DUST COLLECTOR

FMPD SERIES SPLIT CHAMBER PPULSE JET BAGHOUSE DUST COLLECTOR

Technical Data of FMPD96 Split Chamber Pulse Jet Baghouse Dust Collector

| Technical Parameter                            | Model                    | FMPD96-4                                     | FMPD96-5    | FMPD96-6    | FMPD96-7    | FMPD96-8    | FMPD96-9    | FMPD96-2×5  | FMPD96-2×6  | FMPD96-2×7  | FMPD96-2×8   | FMPD96-2×9   | FMPD96-2×10  |
|------------------------------------------------|--------------------------|----------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|
| Air Volume (m³/h)                              |                          | 16130-27650                                  | 20160-34560 | 24200-41470 | 28220-48384 | 32250-55300 | 36290-62200 | 40320-69120 | 48380-82940 | 56450-96770 | 64510-110600 | 72580-124400 | 80640-138240 |
| Filtration Velocity (m/min)                    |                          | 0.7-1.2 (Determined by process requirements) |             |             |             |             |             |             |             |             |              |              |              |
| Total Filtration Area (m²)                     |                          | 384                                          | 480         | 576         | 672         | 768         | 864         | 960         | 1152        | 1344        | 1536         | 1728         | 1920         |
| Net Filtration Area (m²)                       |                          | 288                                          | 384         | 480         | 576         | 672         | 768         | 864         | 1056        | 1248        | 1440         | 1632         | 1824         |
| Number of Chambers                             |                          | 4                                            | 5           | 6           | 7           | 8           | 9           | 10          | 12          | 14          | 16           | 18           | 20           |
| Total Number of Filter Bags                    |                          | 384                                          | 480         | 576         | 672         | 768         | 864         | 960         | 11520       | 1344        | 1536         | 1728         | 1920         |
| Collector Resistance (Pa)                      |                          | 1470-1770                                    |             |             |             |             |             |             |             |             |              |              |              |
| Inlet Dust Concentration (g/m³)                |                          | <1300                                        |             |             |             |             |             |             |             |             |              |              |              |
| Outlet Dust Concentration (g/m³)               |                          | <0.05                                        |             |             |             |             |             |             |             |             |              |              |              |
| Negative Pressure Resistance (Pa)              |                          | 5000                                         |             |             |             |             |             |             |             |             |              |              |              |
| Compressed Air for Cleaning                    | Pressure (MPa)           | 0.5-0.7                                      |             |             |             |             |             |             |             |             |              |              |              |
|                                                | Air Consumption (m³/min) | 1.2                                          | 1.5         | 1.8         | 2.1         | 2.4         | 2.7         | 3.0         | 3.4         | 4.2         | 4.8          | 5.4          | 6.0          |
| Pulse Valve (with Solenoid Valve)              | Quantity                 | 4                                            | 5           | 6           | 7           | 8           | 9           | 10          | 12          | 14          | 16           | 18           | 20           |
|                                                | Size (inch)              | 2.5 inch                                     |             |             |             |             |             |             |             |             |              |              |              |
| Filter Bag Specification and Material          |                          | Φ130×2500 (mm) Polyester Needle Felt         |             |             |             |             |             |             |             |             |              |              |              |
| Insulation Area (m²)                           |                          | 110                                          | 120         | 130         | 140         | 150         | 160         | 175         | 210         | 245         | 280          | 315          | 350          |
| Total Weight (kg) (Excluding Insulation Layer) |                          | 10100                                        | 12400       | 14100       | 15700       | 17700       | 21000       | 25200       | 29400       | 33600       | 37800        | 42000        | 47000        |

Technical Performance Data of FMPD128 Split Chamber Pulse Baghouse Dust Collector

| Model<br>Technical Parameters                            |                          | FMPD128-6                                 | FMPD128-9   | FMPD128-10   | FMPD128-12   | FMPD128-2×7  | FMPD128-2×8  | FMPD128-2×9   | FMPD128-2×10  | FMPD128-2×11  | FMPD128-2×12  | FMPD128-2×13  | FMPD128-2×14  |
|----------------------------------------------------------|--------------------------|-------------------------------------------|-------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                                                          |                          | Air Volume (m³/h)                         | 39310–67390 | 58970–101090 | 65520–112320 | 78620–134780 | 90200–154660 | 104830–179700 | 117900–202170 | 131040–224640 | 144140–247100 | 157250–269570 | 170350–292030 |
| Filtering Air Velocity (m/min)                           |                          | 0.7–1.2 (According to Process Parameters) |             |              |              |              |              |               |               |               |               |               |               |
| Total Filter Area (m²)                                   |                          | 936                                       | 1404        | 1560         | 1872         | 2148         | 2496         | 2808          | 3120          | 3432          | 3744          | 4056          | 4368          |
| Net Filter Area (m²)                                     |                          | 780                                       | 1248        | 1404         | 1716         | 2028         | 2340         | 2652          | 2964          | 3276          | 3588          | 3900          | 4212          |
| Number of Chambers                                       |                          | 6                                         | 9           | 10           | 12           | 14           | 16           | 18            | 20            | 22            | 24            | 26            | 28            |
| Total Number of Filter Bags                              |                          | 768                                       | 1152        | 1280         | 1536         | 1792         | 2048         | 2304          | 2560          | 2816          | 3072          | 3328          | 3584          |
| Dust Collector Resistance (Pa)                           |                          | 1470–1770                                 |             |              |              |              |              |               |               |               |               |               |               |
| Inlet Dust Concentration (g/m³)                          |                          | ≤1300                                     |             |              |              |              |              |               |               |               |               |               |               |
| Outlet Dust Concentration (g/m³)                         |                          | ≤0.05                                     |             |              |              |              |              |               |               |               |               |               |               |
| Allowable Negative Pressure (Pa)                         |                          | 6860                                      |             |              |              |              |              |               |               |               |               |               |               |
| Compressed Air for Cleaning                              | Pressure (MPa)           | 0.5–0.7                                   |             |              |              |              |              |               |               |               |               |               |               |
|                                                          | Air Consumption (m³/min) | 3.6                                       | 5.1         | 6.0          | 7.0          | 8.3          | 9.5          | 10.7          | 12            | 13.1          | 14.3          | 15.5          | 16.7          |
| Pulse Valves (with Solenoid Valves)                      | Quantity (pcs)           | 12                                        | 18          | 20           | 24           | 28           | 32           | 36            | 40            | 44            | 48            | 52            | 56            |
|                                                          | Size (inch)              | 2.5 in.                                   |             |              |              |              |              |               |               |               |               |               |               |
| Filter Bag Specification and Material                    |                          | Φ130×3050 (mm) Polyester Needle Felt      |             |              |              |              |              |               |               |               |               |               |               |
| Insulation Area (m²)                                     |                          | 125                                       | 196         | 205          | 223          | 247          | 262          | 277           | 292           | 307           | 322           | 337           | 352           |
| Total Equipment Weight (kg) (Excluding Insulation Layer) |                          | 22400                                     | 28900       | 31400        | 39600        | 46700        | 53800        | 60900         | 68000         | 75100         | 82200         | 89300         | 96400         |

## LDMC TYPE LOW-PRESSURE PULSE JET BAGHOUSE DUST COLLECTOR

### LDMC TYPE LOW-PRESSURE PULSE JET BAGHOUSE DUST COLLECTOR Product Overview

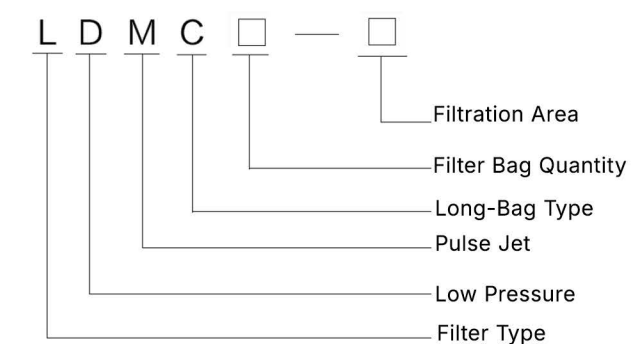
The LDMC low-pressure pulse jet baghouse dust collector is a high-efficiency industrial dust filtration system designed for stable operation, reliable performance, and easy maintenance.

It is widely used in dust collection systems for metallurgy, machinery, chemical, power, building materials, and other industrial applications.

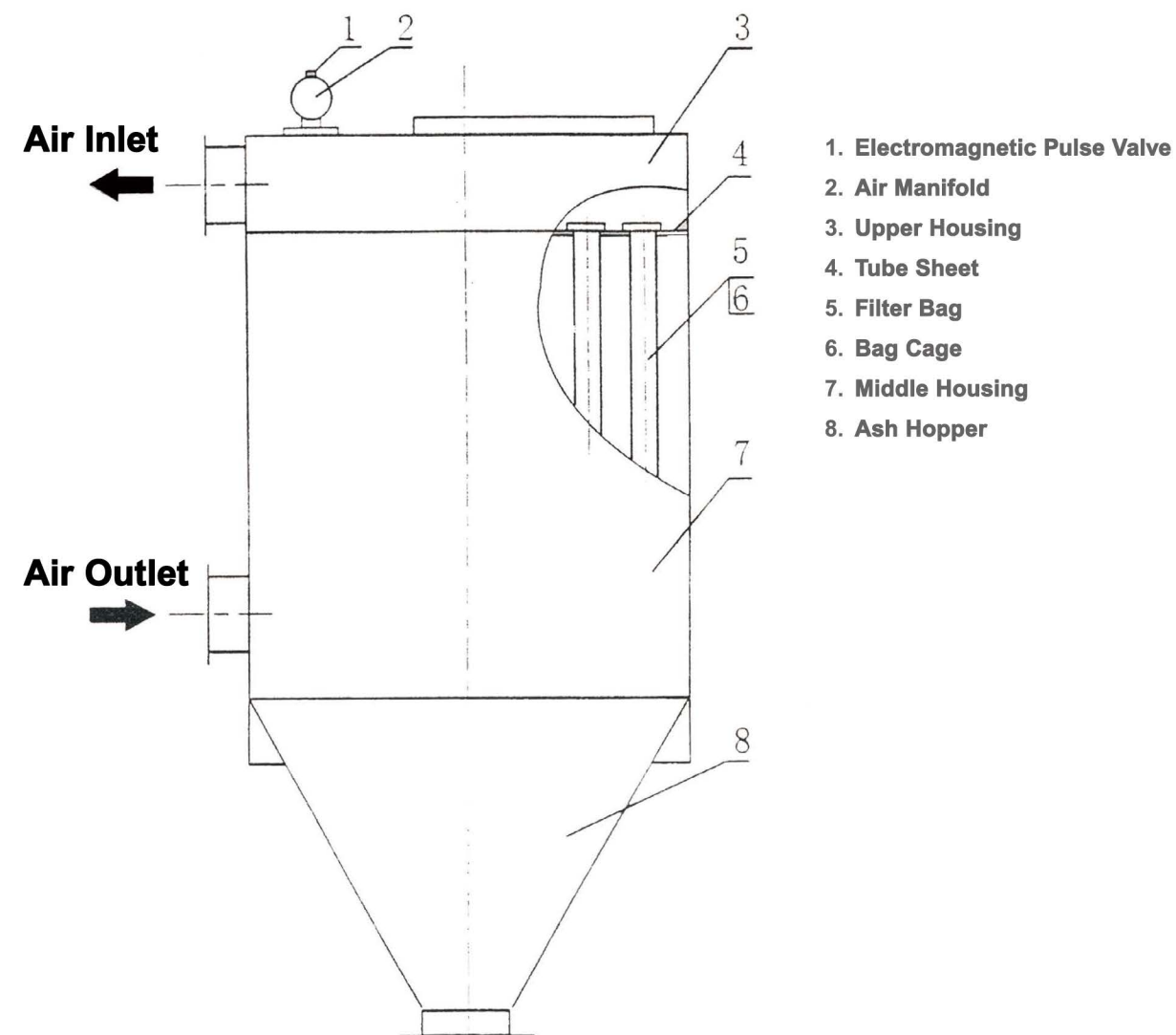
The system adopts low-pressure pulse jet cleaning technology, providing efficient dust removal with low energy consumption. Its long filter bag design improves filtration capacity and cleaning performance, while the compact single-row or double-row layout allows flexible installation according to air volume and site conditions.

### Key Features

- High-efficiency low-pressure pulse jet cleaning system
- Stable operation with reliable dust collection performance
- Long filter bag design for improved filtration capacity
- Compact single-row or double-row configuration
- Easy filter bag replacement and maintenance
- Suitable for large-volume industrial dust collection systems



## LDMC TYPE LOW-PRESSURE PULSE JET BAGHOUSE DUST COLLECTOR



Schematic Diagram of LDMC Low-Pressure Pulse Bag Dust Collector

## LDMC TYPE LOW-PRESSURE PULSE JET BAGHOUSE DUST COLLECTOR

### Main Technical Parameters

| Order | Item                       | Unit               | Value       |
|-------|----------------------------|--------------------|-------------|
| 1     | Filtration Velocity        | m/min              | 0.5-2.0     |
| 2     | Inlet Dust Concentration   | g/Nm <sup>3</sup>  | <1000       |
| 3     | Dust Collection Efficiency | %                  | >99.5       |
| 4     | Pulse Jet Duration         | S                  | 0.065-0.085 |
| 5     | Pulse Jet Pressure         | MPa                | 0.15-0.25   |
| 6     | Compressed Air Consumption | m <sup>3</sup> /阀次 | 0.17-0.21   |
| 7     | Pulse Jet Interval         | min                | 可调          |
| 8     | Pressure Drop              | Pa                 | <1200       |

### Technical Data of LDMC Type Low-Pressure Pulse Baghouse Dust Collector

| Model                                          |                                       | LDMC-54-88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LDMC-54-132 | LDMC-80-130 | LDMC-80-195 | LDMC-96-157 | LDMC-96-235 | LDMC-120-196 | LDMC-120-294 |
|------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|
| Technical Parameters                           |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |             |             |             |             |              |              |
| Air Volume (m <sup>3</sup> /h)                 |                                       | 3690-6330                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5540-9500   | 5460-9360   | 8060-13820  | 6590-11300  | 9870-16920  | 8230-14110   | 12340-21160  |
| Filtration Velocity (m/min)                    |                                       | 0.7-1.2 (depending on process parameters)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |             |             |             |              |              |
| Filter Area (m <sup>2</sup> )                  |                                       | 88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 132         | 130         | 195         | 157         | 235         | 196          | 294          |
| Number of Filter Bags (pcs)                    |                                       | 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 54          | 80          | 80          | 96          | 96          | 120          | 120          |
| Dust Collector Resistance (Pa)                 |                                       | 1470-1770                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |             |             |             |              |              |
| Inlet Dust Concentration (g/m <sup>3</sup> )   |                                       | ≤1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |             |             |             |             |              |              |
| Outlet Dust Concentration (mg/m <sup>3</sup> ) |                                       | ≤10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |             |             |             |             |              |              |
| Max Negative Pressure (Pa)                     |                                       | 5000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |             |             |             |             |              |              |
| Cleaning Compressed Air                        | Pressure (MPa)                        | 0.5-0.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |             |             |             |             |              |              |
|                                                | Air Consumption (m <sup>3</sup> /min) | 0.35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.5         | 0.5         | 0.75        | 0.6         | 0.9         | 0.75         | 1.12         |
| Filter Bag Specification                       |                                       | Φ130×4000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Φ130×6000   | Φ130×4000   | Φ130×6000   | Φ130×4000   | Φ130×6000   | Φ130×4000    | Φ130×6000    |
| Filter Bag Material                            |                                       | Polyester Needle Felt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |             |             |             |             |              |              |
| Notes                                          |                                       | 1、The air volume in this table is based on a filtration velocity of 0.7-1.2 m/min. Users may select an appropriate filtration velocity according to operating conditions and dust characteristics.<br>2、For air volume above 20,000 m <sup>3</sup> /h or filter area above 300 m <sup>2</sup> , the equipment can be arranged in single-row or double-row combinations, and the total air volume can reach several hundred thousand m <sup>3</sup> /h.<br>3、Non-standard designs can be provided according to site conditions and specific requirements. |             |             |             |             |             |              |              |

## SOAKING FURNACE COVER LIFTING MACHINE

## SOAKING FURNACE COVER LIFTING MACHINE

### Product Overview

The soaking furnace cover lifting machine is a key auxiliary equipment used in soaking furnace systems for the metallurgical industry. It is mainly designed for opening, lifting, moving, and closing furnace covers during billet or forging loading and unloading operations.

The equipment replaces manual furnace-cover handling and improves the continuity, safety, and efficiency of soaking furnace production. It is typically used with pit-type soaking furnaces in rolling mill workshops, working together with overhead cranes for billet charging and discharging.

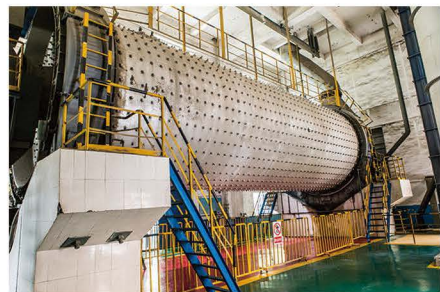
The machine can be designed with remote control, PLC control, and intelligent positioning functions according to furnace layout, cover structure, and production requirements.

### Key Features

- Designed for opening and closing soaking furnace covers
- Suitable for pit-type soaking furnace systems in rolling mills
- Reduces manual operation in high-temperature working areas
- Improves production safety and operating efficiency
- Equipped with lifting hooks matched to furnace cover lifting lugs
- Supports remote control, PLC control, and HMI operation



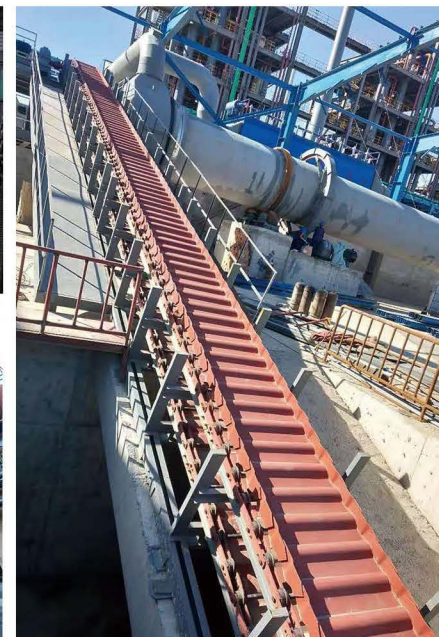
## Product & Application Gallery



Ball Mill



Ball Mill



BL Apron Conveyor



Twin Shaft Mixer



Cement Rotary Kiln



Lime Rotary Kiln



Drying System Equipment



Double-Drum Dryer



Single-Drum Water Cooler



Three-Cylinder Rotary Dryer



Single-Drum Cooler

## Product & Application Gallery



Shell Machining



Rigid Impeller Feeder



Kitchen Waste Treatment System



Scraper Conveyor



Fluorochemical Rotary Kiln



Steam Dryer



Dust Collector



Tubular Screw Conveyor



Vertical Mill



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