

YIFAN

SDY Series Cone Crusher



Leading crushing and screening equipment manufacturer in China

Zhengzhou YiFan Machinery Co.,Ltd(the share-holder is Shande Technology (Beijing) Co., Ltd) has its headquarter in Beijing. It is a famous manufacturer of crushing and screening equipment and provides series stone crusher and crushing equipment for customers.



YIFAN

ZHENGZHOU YIFAN MACHINERY CO.,LTD

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SDY Series Cone Crusher owns advanced technology. It is widely used in metallurgical industry, hydro-dam, construction, transportation, chemical industry and building materials, it is suitable for crushing all sorts of rocks which is hard and medium hard.



Features and Benefits

- High-performance:** Through the cavity type optimization design and the reasonable combination of speed and stroke, so that it works the most under the condition of using same dynamic cone diameter. Therefore, compared with the same type of spring cone crusher, it is higher performance and more production capacity.
- Good product particle size composition:** The laminating crushing principle makes the proportion of cube among the products obviously improved and needle flake stone reduced.
- Good reliability:** When there is iron into the machine, a iron protection device will automatically releases it, and then automatically reset.
- Convenient to clean cavity:** If the spring cone crusher stop in the load condition, hydraulic cleaning cavity system can quickly clean the crushing cavity.
- High Reliability:** The large diameter shaft, main frame, and lubricant system ensure that the equipment is strong and durable.
- Convenient to maintain and easy to operate:** All the parts can be dismantling from the top or side. So that constant cone and dynamic cone all can be dismantled easily.
- Low production cost:** Great production capacity and high reliability greatly reduce the production cost.
- Wide application:** The characteristics of SDY Series spring cone crusher is playing maximum performance with suitable for all kinds of crushing.
- Fission lubrication:** Lubricant system ensure that realize the automatic safety protection of equipment.

Working Principle

Cone crusher crushes materials by the working surface between the movable cone and fixed cone. So it is more advanced and efficiency efficient than jaw crusher. The movable cone is supported by spherical bearing and fixed on an hanging erect shaft which is set in the eccentric sleeve, and the sleeve is set on the stopping and pushing bearing. The movable cone and erect shaft are driven by the eccentric shaft sleeve together. The eccentric shaft sleeve is driven by horizontal shaft and fabricated gear, and the wheel of the conveyor belt is driven by motor through v-belts. The lower part of vertical shaft is installed in the eccentric sleeve. When the eccentric sleeve rotates, there is a conical surface lined out by the shaft. When the movable cone comes near the fixed cone, rocks are grinded into pieces, when the movable cone leaves, grinded materials is discharged from the discharge hole. The fixed cone can be ascended or descended by adjusting setting to adjust the width of discharge hole, consequently the output size is determined adjusted.

技术参数 **Technical Data**

| 型号 Model | 腔型 Type of Cavity | 最小排矿口 Min Discharge Setting(mm) | 最大给料尺寸 Max Feeding Size(mm) | 电机功率 Motor Power(kw) | 开路破碎 排矿口及对应的生产能力 (吨/小时) Open circuit,Closed side(mm),Capacity(t/h) | | | | | | | | | | | | | | | |
|---------------------|----------------------|------------------------------------|--------------------------------|-------------------------|--|------|------|------|------|------|------|------|------|------|------|-------|--|--|--|--|
| | | | | | 10mm | 15mm | 16mm | 18mm | 25mm | 31mm | 38mm | 52mm | 64mm | 76mm | 89mm | 102mm | | | | |
| SDY900B | 细碎 Fine | 9 | 87 | 75 | 46 | 59 | 73 | 82 | | | | | | | | | | | | |
| | 粗碎 Coarse | 13 | 150 | 75 | | 59 | 73 | 91 | 118 | 137 | 164 | | | | | | | | | |
| SDY1300B | 特粗碎 Extra coarse | 25 | 155 | 75 | | | | | 128 | 147 | 175 | 198 | | | | | | | | |
| | 细碎 Fine | 13 | 120 | 200 | | 109 | 127 | 146 | 163 | 181 | | | | | | | | | | |
| | 中碎 Medium | 16 | 180 | 200 | | | 132 | 159 | 200 | 228 | 253 | 309 | | | | | | | | |
| | 粗碎 Coarse | 19 | 205 | 200 | | | | 173 | 218 | 250 | 295 | 378 | | | | | | | | |
| SDY1700B | 特粗碎 Extra coarse | 25 | 220 | 200 | | | | | 237 | 273 | 324 | 398 | 455 | | | | | | | |
| | 细碎 Fine | 16 | 180 | 250 | | | 182 | 205 | 259 | 298 | 327 | | | | | | | | | |
| | 中碎 Medium | 22 | 205 | 250 | | | | | 291 | 337 | 381 | 438 | | | | | | | | |
| | 粗碎 Coarse | 25 | 230 | 250 | | | | | 354 | 417 | 454 | 610 | 637 | | | | | | | |
| SDY2100B | 特粗碎 Extra coarse | 38 | 315 | 250 | | | | | | | 538 | 630 | 743 | | | | | | | |
| | 细碎 Fine | 19 | 235 | 400 | | | | 381 | 499 | 617 | 726 | 852 | 1036 | | | | | | | |
| | 中碎 Medium | 25 | 280 | 400 | | | | | 608 | 726 | 807 | 998 | 1128 | 1296 | | | | | | |
| | 粗碎 Coarse | 31 | 310 | 400 | | | | | | 789 | 944 | 1088 | 1257 | 1386 | 1405 | | | | | |
| 特粗碎 Extra coarse | 38 | 460 | 400 | | | | | | | | 880 | 1179 | 1361 | 1473 | 1531 | 1643 | | | | |

| 型号 Model | 腔型 Type of Cavity | 最小排矿口 Min Discharge Setting(mm) | 最大给料尺寸 Max Feeding Size(mm) | 电机功率 Motor Power(kw) | 开路破碎 排矿口及对应的生产能力 (吨/小时) Open circuit,Closed side(mm),Capacity(t/h) | | | | | | | | | | | | | | | |
|---------------------|----------------------|------------------------------------|--------------------------------|-------------------------|--|------|------|------|------|------|------|------|-----|-----|--|--|--|--|--|--|
| | | | | | 20mm | 25mm | 30mm | 35mm | 40mm | 45mm | 50mm | 55mm | | | | | | | | |
| SDY900D | 细碎 Fine | 3 | 35 | 75 | 27 | 41 | 55 | 68 | 91 | | | | | | | | | | | |
| | 粗碎 Coarse | 3 | 51 | 75 | 27 | 41 | 55 | 68 | 91 | 100 | | | | | | | | | | |
| SDY1300D | 特粗碎 Extra coarse | 6 | 65 | 75 | | | | | 59 | 73 | 95 | 114 | 127 | | | | | | | |
| | 细碎 Fine | 3 | 55 | 200 | 36 | 59 | 82 | 105 | 137 | 164 | | | | | | | | | | |
| | 中碎 Medium | 6 | 78 | 200 | | | | | 82 | 105 | 137 | 164 | | | | | | | | |
| | 粗碎 Coarse | 8 | 90 | 200 | | | | | | 109 | 159 | 182 | 200 | 228 | | | | | | |
| SDY1700D | 特粗碎 Extra coarse | 18 | 115 | 200 | | | | | | | | 209 | 237 | | | | | | | |
| | 细碎 Fine | 5 | 60 | 250 | | | 91 | 137 | 164 | 209 | | | | | | | | | | |
| | 中碎 Medium | 8 | 78 | 250 | | | | 137 | 164 | 209 | 255 | 282 | | | | | | | | |
| | 粗碎 Coarse | 10 | 115 | 250 | | | | | 191 | 255 | 282 | 309 | 337 | | | | | | | |
| SDY2100D | 特粗碎 Extra coarse | 13 | 115 | 250 | | | | | | | 255 | 282 | 309 | 337 | | | | | | |
| | 细碎 Fine | 5 | 90 | 400 | | | 190 | 270 | 345 | 380 | 408 | 475 | 512 | | | | | | | |
| | 中碎 Medium | 10 | 110 | 400 | | | | | 354 | 408 | 454 | 508 | 560 | 613 | | | | | | |
| | 粗碎 Coarse | 13 | 150 | 400 | | | | | | 454 | 480 | 540 | 599 | 685 | | | | | | |
| 特粗碎 Extra coarse | 16 | 170 | 400 | | | | | | | 508 | 590 | 653 | 693 | 720 | | | | | | |

Note: The capacity is total per passing through crusher at open circuit when crushing mid-hard material and loose density with $1.6 \times 10^3 \text{ kg/m}^3$. Capacities are relative to physical character and type of feeding, feedingsize and composition and so on.

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