Single-Cylinder Hydraulic Cone Crusher
DG series single-cylinder hydraulic cone crusher is widely applied in industries, such as metal and non-metallic mineral, building materials, transportation engineering, metallurgy and hydraulic engineering; it can be used for intermediate and fine crushing of all kinds of mineral, such as iron ore, non-ferrous metal ores, granite, limestone, quartzite, sandstone, cobble and so on.

DG series single-cylinder hydraulic cone crusher has a combination of crushing machinery, hydraulic, electrical, automation and intelligent control technology. The machine is the high efficient crusher which is researched and developed independently by our company based on 20 years of experience on design, production, sales and service, combined the development of modern industrial technology, and has widely absorbed advanced crusher technology of the United States and Germany. This machine represents the world's most advanced technology and has many incomparable advantages such as high efficiency, low production cost, easy maintenance and good product shape. It can be widely used in intermediate crushing, fine crushing and ultra fine crushing operations.
性能特点
Features

1. 结构简单，性能可靠。DG系列单缸液压圆锥式破碎机集排料口调节和过载保护功能于一体，简化了结构，增强了可靠性。每种规格均有两个腔型，可满足不同的破碎要求。所有维护从上部进行，操作简单，维护方便。

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3. 高性能，生产能力强。采用挤压破碎原理，改善了产品粒型，呈立方体，合理的偏心距、腔型和动参数配靠，大大提高了设备的生产能力和工作效率。

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5. 采用液压润滑站，运行成本低。液压压油站和润滑站一体化设计，节约设备安装空间。优越的元件布局，润滑罐体，操作维护简单，运行成本更低。

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**产品结构**
**Internal Structure**

1. 进料斗 Feeding Hopper
2. 机架防护装置 Protective Device For Upper Bracket
3. 机架 Upper Bracket
4. 轧臼壁 Bowl Liner
5. 破碎壁 Mantle
6. 下机架 Lower Bracket
7. 内罩壳 Inner Cover
8. 偏心套 Ecentric Bushing
9. 主轴 Main Shaft
10. 液压缸 Hydraulic Cylinder
11. 活塞体 Piston
12. 位移传感器 Displacement Transducer
13. 水平轴箱 Countershaft Bushing
14. 主机皮带轮 Pulley Wheel
15. 小螺旋锥齿轮 Pinion
16. 大螺旋锥齿轮 Gear
17. 滑动轴承 Bush Bearing
DG series single-cylinder hydraulic cone crusher is mainly composed of upper bracket, middle bracket, bottom bracket, movable cone, eccentric sleeve, transmission and hydraulic cylinder. The whole working process of this machine is that motor drives rotation of horizontal axis, horizontal axis drives the rotation of eccentric sleeve through the spiral bevel gear, and then eccentric sleeve would drive the rotary oscillation of movable cone so as to realize the continuous extrusion.

DG series single-cylinder hydraulic cone crusher has the function of overload protection. When materials that cannot be crushed (such as iron) enter into crushing chamber, the accumulator will be triggered, then the hydraulic cylinder will drop movable cone to release the iron and recover normal crushing automatically, which can protect the crusher perfectly.
### 技术参数

**Technical Parameters**

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<tr>
<th>型号 Model</th>
<th>腔型 Type of Chamber</th>
<th>入料尺寸 Max.feeding Size (mm)</th>
<th>排料口调节范围 Adjusting Range of Discharge Opening (mm)</th>
<th>处理能力 Capacity (th)</th>
<th>功率 Power (kw)</th>
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