DSMAC GNPY SERIES HYDRAULIC CONE CRUSHER

- Capacities exceeding 600 tph
- High-production, low-maintenance, with the latest in cone crusher technology
- Infinite adjustment under load
- Adjustable stroke
- Constant mainshaft alignment
- Enhanced tramp iron relief
DSMAC GNPY Series cone crushers are of advanced design with a small footprint and high capacity in relation to size. They have high reduction efficiency and give very good product shape. With hydraulically adjusted CSS, the option of automation, a choice of several different crushing chambers, and many other high-performance features, each model is versatile, user-friendly and highly productive.

The DSMAC GNPY Series of cone crushers have a wide field of use as they can easily be matched to changes in production through the proper selection of crushing chamber and eccentric throw. Our cone crushers are ideal for secondary and tertiary crushing and the compact and easy-to-service design makes them a perfect choice for mobile installations.

Our crushers provide automatic overload protection and can be equipped with our automatic setting system. This system optimizes cone crusher efficiency and automatically adapts the crusher to variations in feed conditions. By continuously measuring and compensating for crusher liner wear, the system allows you fully utilize crusher liners and schedule liner replacements to coincide with planned maintenance stops. the system also assists in keeping your crusher choke fed. This maximizes rock-on-rock crushing, which helps to optimize the quality of your final product.
High Performance - Lowest Total Cost

The hydraulically adjusted GNPY cone crushers manufactured by DSMAC are characterized by robust design and high performance. In combination with the GNPY crushing chambers, high motor powers give these crushers capacities which are in most cases comparable with those of other, larger crushers.

The GNPY advantages are:
- Constant feed acceptance capability
- Increased output
- High-quality products
- Increased liner life
- Lowest total cost

DSMAC cone crushers can be equipped with an automatic setting system, which can improve performance even more and also provides integration with sophisticated plant control systems.
**Easy to Handle and Maintain**

Much attention has been paid to making our crushers as easy to operate and maintain as possible. All service and inspection is carried out from above, which makes the work easier and the maintenance costs lower. Robust sealing to the inner crusher mechanics provides more effective protection against dust and other unwanted particles – reducing maintenance and increasing the life of the crusher.

The automatic setting regulation system, not only optimizes production, it also keeps track of liner wear. This makes it easy to plan liner changes and minimize interruptions in production.

In addition to the high capacity, DSMAC GNPY Series cone crushers are compact, which makes them very easy to move and to install.

**Customer Satisfaction**

Building strong customer relationships is highly prioritized in our daily work to help you keep your Dsmac crushing system in operation, to improve your uptime and productivity, lower your costs and provide you with the best, possible total economy.

- DSMAC has vast experience and teams spanning the globe in order to provide you with total support.
- DSMAC has a highly efficient, worldwide service and distribution network to make sure all essential parts and consumables are available to you according to your needs.
- DSMAC offers intensive training courses tailored to fit your needs in order to help achieve optimum equipment performance.
- DSMAC offers efficient, cost-effective repair and rebuilding services when it becomes necessary, more economical or environmentally beneficial to repair, overhaul or rebuild the equipment.

Whatever your needs are, wherever you are and whatever the time is, DSMAC is here to support you.
Crushing cavities are available to suit fine, medium or coarse crushing duties.

Fine crushing duties.

Medium crushing duties.

Coarse crushing duties.
**Mechanical Sealing**

The internals of the Rockstar are fully protected by an advanced sealing arrangement, comprising upper and lower piston rings and twin banks of upper and lower replaceable labyrinth seals.

**Eccentric**

The eccentric is a steel casting machined on special fixtures to achieve the optimised throw to maximise production and product shape. The unit is jig drilled to accommodate the rotary seal ring and gear.

**All Roller Bearing Construction**

The Rockstar is equipped with a proven combination of Taper and radial roller bearings. These provide long trouble free service, and minimise friction losses. Utilising these generously proportioned heavy duty bearings also eliminates the need for a large oil tank and ensures consistently accurate alignment of gears, sealing rings and the crushing members themselves.

**Cone head**

The cast steel cone head is machined internally to accept a large capacity taper roller bearing, and a top radial roller bearing. Externally the lower section is machined to accept the mantle and shaped to allow plastic metal backing to be poured behind the mantle during re-metals.

**Concave Support Bowl**

The cast steel concave support bowl is accurately machined to support the concave ring and is shaped to receive a plastic metal backing for the crushing member. Its lower face is provided with a machined tapered face to form a locked engagement with the upper frame.

**Mantle and Concave**

Both mantle and concave are cast from high grade manganese steel. The both parts are machined to ensure accurate location in their mating parts.

**Mainshaft**

The mainshaft is an alloy-steel forging, fully heat treated for strength. The lower section of the shaft is shrunk into the central boss of the mainframe whilst the upper section is machined and ground to carry the roller bearings.

**Gear and Pinion**

The machine cut bevel gear and pinion are manufactured from alloy steel forgings, the teeth of both components are induction hardened to ensure long life. The pinion is located on the counter shaft by a special locking ring, and the gear is keyed and capscrewed to the eccentric.

Induction hardening of gear teeth provides both enhanced resistance to wear and greatly improves fatigue resistance.
## GNPY SERIES SPECIFICATIONS

<table>
<thead>
<tr>
<th>Type</th>
<th>GNPY 75</th>
<th>GNPY 110</th>
<th>GNPY 220</th>
<th>GNPY 315</th>
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<tbody>
<tr>
<td>Motor Power, Kw</td>
<td>75–90</td>
<td>110–160</td>
<td>160–250</td>
<td>250–315</td>
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<tr>
<td>Stroke, mm</td>
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<td>18, 25, 32</td>
<td>25, 32, 40</td>
<td>25, 32, 40</td>
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<td>Feeding size, mm</td>
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<td>70(Fine) 130( coarse)</td>
<td>70(Fine) 180( coarse)</td>
<td>80(Fine) 220( coarse)</td>
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<td>Weight, t</td>
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## CRUSHER PRODUCTION CAPACITY

<table>
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<th>Stroke, mm</th>
<th>Capacity, t/h</th>
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<td>GNPY 75</td>
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<td>90–105</td>
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Questionnaire

To enable us to quote for equipment relative to your particular requirements, it will greatly assist us if all essential information is supplied with the initial enquiry. For your guidance we tabulate the information required:

- Material .................................................................
- Material hardness, or chemical content? ............................
- Feed size? (mm) ........................................................
- Your required output size? (mm) .............................
- Capacity required in tonnes / hour ..............................

For more requirement, you can send to me now, or later, to our expert mail dscrusher@yahoo.cn