SYTECHS MINERALS
MINING TECHNOLOGY

SYTECHS MINING TECHNOLOGY

TRACKED MOBILE CRUSHERS

5 YEARS
EXTENDED WARRANTY

SYTECHS MINERALS

MINING TECHNOLOGY

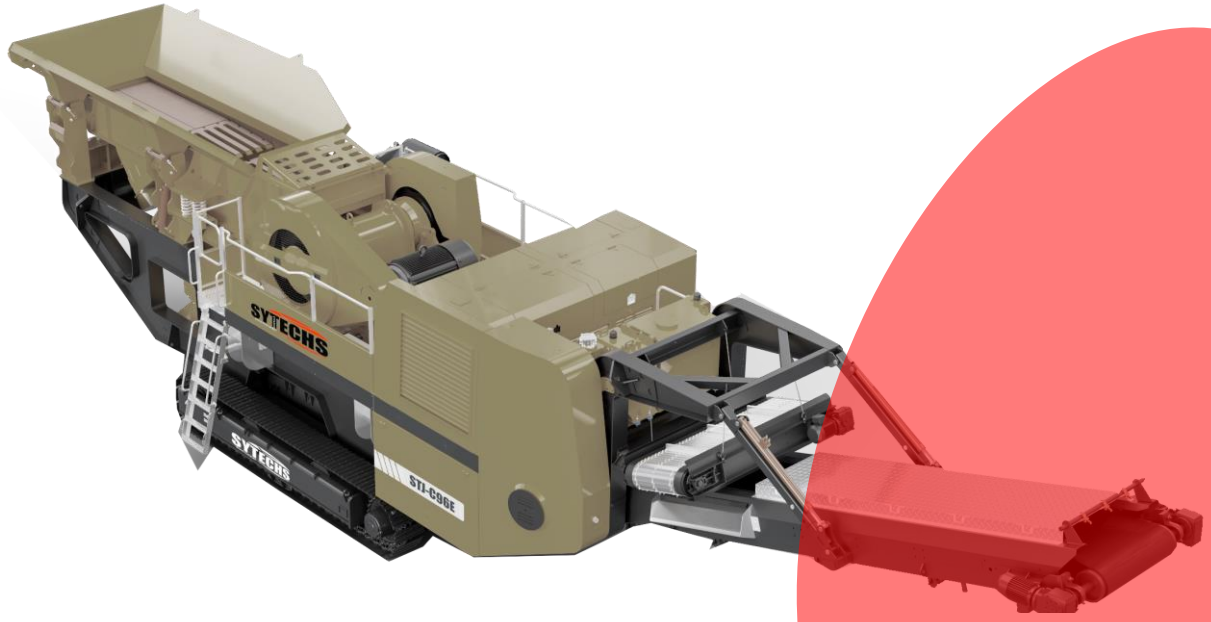
HEAVY DUTY

HD

SYTECHS STJ-C SERIES TRACKED MOBILE JAW CRUSHERS

The Sytechs STJ-C Series Tracked MobileJaw Crushers are ideally suitable for primary and secondary crushing applications. Every feature of these machines has been vigilantly designed to provide superior quality and performance. They are widely used for crushing various materials like stone, granite, trap rock, coke, coal, manganese ore, iron ore, emery, fused aluminum, oxide, fused calcium carbide, lime stone, quartzite, alloys, etc. These crushers are manufactured as per North American Design , standards and techniques at the Shenyang Plant in China. They are recommended by leading consultants in this field and are used by hundreds of customers all over the world.. All our product are Quality System and CE Certified. Our product is backed by comprehensive, worldwide after sales services and international product warranty (1year Standard Warranty while 3 years extended warranty is available (Optional)

The STJ-C series mobile crushers incorporate the ST- C type jaw crushers, with proven performance in various applications, including mining, quarrying, recycling and industrial minerals. They have the highest power ratings in each size class thanks to their strong pinned and bolted frame, making them ideal for stationary, underground and mobile crushing applications



- ✓ STJ-C Tracked Mobile jaw crushers are equipped with corresponding stepped grate feeder and a screen mesh at the bottom, The screen mesh specifications can be selected according to the requirements.
- ✓ Wear resistant lining plates are installed at the bottom and around the feeder to increase its service life
- ✓ Variable speed feeder powered by Electric Vibrators
- ✓ The CSS of the STJ-C Jaw crusher is hydraulically adjustable
- ✓ Soft Start (Frequency inverter) for smooth starting of the Jaw electric motor
- ✓ Incorporated Power generating set, powered by Cummins Diesel engine with Stanford alternator and PLC Control.
- ✓ Electrical Standard Operating voltage 380 V/50HZ and Control voltage 220 V Frequency 50 Hz
- ✓ Intelligent PLC system control and backup relay, the crusher comes with interlocking function
- ✓ The feeder speed can be adjusted according to the current monitored by the crusher to achieve optimal crushing performance.
- ✓ Operated by radio remote control and has a cord connected remote control as back-up.
- ✓ Lights are fitted on crusher for illumination at night.
- ✓ Flash lights and a siren provide visual and audible warning of movement.
- ✓ Maintenance and inspection platforms on both sides of the crusher and the generator set for equipment maintenance and inspection
- ✓ Emergency stop buttons are provided at the front, back, left, and right sides of the equipment
- ✓ Iron Remover installed above the discharge conveyor
- ✓ Auto Greasing system for Jaw crushers bearing lubrication.

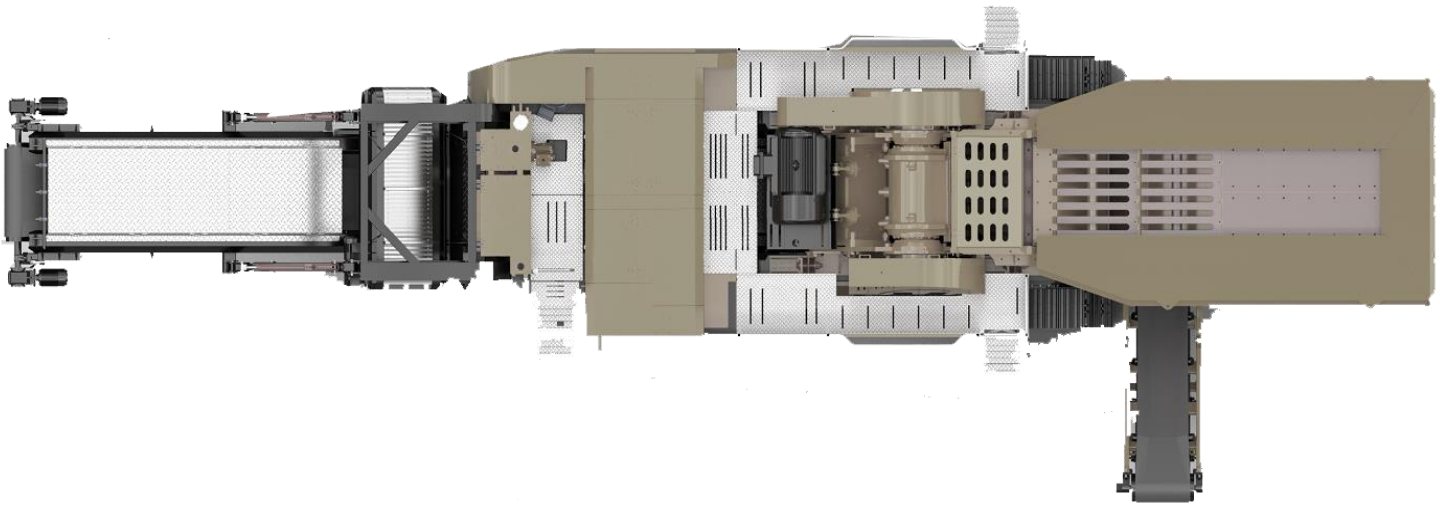
FEATURES

- High quality and reliability
- World-class craftsmanship and materials
- Modular,non welded construction (bolted type)
- Four equal size bearings that are larger than those of most crushers of comparable size
- Cast steel pitman
- Single-piece cast steel frame bearing housings
- Repairable crusher construction
- Low operating and installation costs:
- Soft Starting System
- Fast and sale wedge setting adjustment system
- Protection plates behind the jaw plates
- Rubber damper crusher mounting
- Versatile integral motor base
- Compact and service friendly flywheel guards
- Custom feed chute
- Automatic grease lubrication system
- Outstanding performance
- Efficient cavity designs
- Aggressive kinematics, long stroke, optimum speed
- Small allowed crusher settings
- The right jaws and cheek plates for the widest range of applications
- Used in a wide range of applications, both stationary and mobile
- Electric motor mounted on main frame-reduced vibration.
- Bolted Type Jaw design makes of each part of the main frame replaceable..

APPLICATIONS:

- ✓ Aggregate
- ✓ Mining (surface and underground)
- ✓ Recycling(concrete, asphalt ,etc)
- ✓ Industrial (slag ,anodes, etc)

BOLTED TYPE MAIN FRAME



MODEL	STJ-C96	STJ-C106	STJ-C120	STJ-C125
FEEDING DEVICE				
Max Feeding Size	480	560	700	800
Feeding Height	3700	4000	4300	4500
Bin Volume	5	6.5	8	14
Vibrating Feeder	950x3800	1060x4200	1160x4500	
MAIN JAW CRUSHER				
Model	ST-C96	ST-C106	ST-C120	ST-C125
Feed Size (mm)	930x580	1060X700	1200X870	1250X950
Capacity (Tons/Hr)	105-390	150-500	175-540	245-755
MAIN BELT CONVEYOR				
Width x Length	800x10500	1000x1100	1200x11500	1400x12500
POWER GENERATION				
Total Power (Kw)	163	264	264	320
Engine Make	Cummins	Cummins	Cummins	Cummins

For continuous product and design improvement, our specifications may change without prior notice

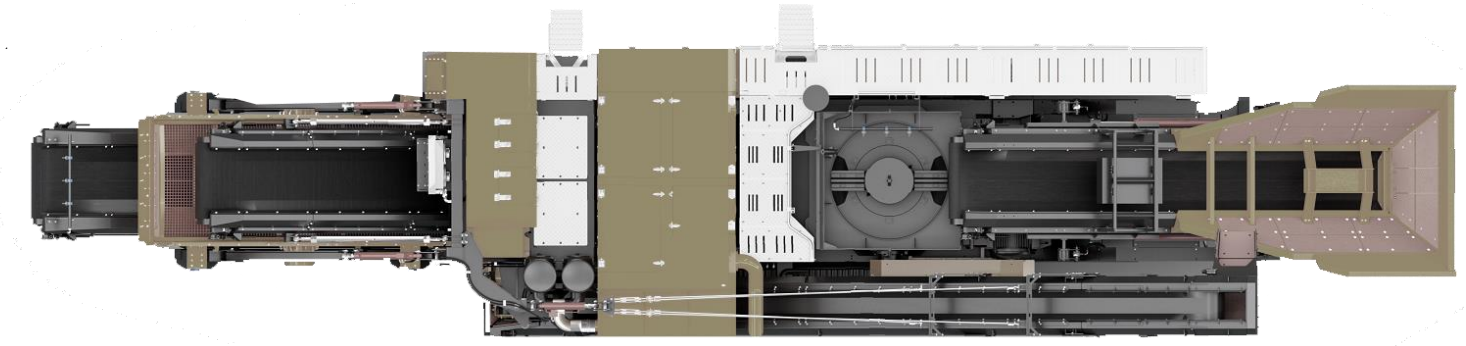
SYTECHS STC SERIES TRACKED MOBILE CONE CRUSHER

The Sytechs **STC series Tracked Mobile** Hydro Cone crushers are suitable for high-capacity Secondary, Tertiary and Quaternary applications. The Tracked unit is designed to incorporate SS-H/S series Single Shaft design Hydro cones that are hydraulically adjustable for proper selection of the crushing chamber. The Hydro crones can match any changes in production requirements through the selection of crushing chambers and an eccentric throw while the crusher is in working condition and by a press of bottom.. This flexibility means that it's suitable for a wide range of applications.

A feeding system is mounted on the track with suitable heavy duty variable speed conveyor for proper feeding of the cone crusher. A suitable power Generating set, powered by Cummins Diesel Engine with Stamford alternator are as well mounted on the track, making of the STC tracked mobile crusher a self powered unit , controlled by PLC control system in addition to radio and cable remote control system.

The STC Tracked mobile unit also incorporates a discharge vibrating screen unit mounted above the final discharge conveyor for pre-screening. A return conveyor to the cone is also installed to convey oversized material back to the cone crusher.

- ✓ The STC tracked mobile crusher is designed to function in open or closed circuit for flexible and productive operation.
- ✓ Equipped with ST-SS/SH Single Shaft design Hydro cone crusher, capable to possess many advanced design features with a high capacity in relation to physical size, together with high reduction efficiency, that produces material with exceptional product shape.
- ✓ Intelligent Control Panel (PLC)
- ✓ Our PLC system also assists in keeping the crusher choke fed for maximum “rock-on-rock” crushing in order to optimize the quality of the final product
- ✓ The feeder component of the crushing system consists of a feeder specifically designed for the machine in combination with a suitable belt conveyor that is hydraulically foldable for transport.
- ✓ Discharge conveyor fitted with impact bars situated under the crusher together with belt scraper and guiding rolls.
- ✓ Advanced process automation is facilitated by an interlocking process.
- ✓ Floodlights are fitted for night time working.
- ✓ Main power is provided via 400V AC, control voltage is 230V AC and 24V DC, Easily adapted for connection to mains electrical supply
- ✓ Platforms around crusher, screen and power pack provide excellent access for inspections and maintenance.
- ✓ Flash lights and siren provide visual and sound warning of movement and process stand by.
- ✓ A number of sensors are situated at strategic locations to ensure a trouble free operation and prevent against costly breakdowns.
- ✓ Emergency stop buttons are situated throughout the machine.
- ✓ Diesel generator powered by Cummins engine with Stamford alternator to power the complete track unit.
- ✓ Frequency invertor to control the feeding conveyor speed for proper feeding of the cone crusher.
- ✓ Metal detector mounted on the feed conveyor
- ✓ Automation and process control with PLC
- ✓ All required safety equipment and guarding complies with directives required for CE marking
- ✓ Feed conveyor
- ✓ Main conveyor
- ✓ A discharge vibrating screen unit mounted above the final discharge conveyor for pre-screening.
- ✓ A return conveyor to the cone is also installed to convey oversized material back to the cone crusher.
- ✓ Platforms and walkway for service and inspection



MODEL	STC-430S	STC-430H	STC-440S	STC-440H	STC-660H
FEEDING DEVICE					
Max Capacity (TPH)	344	208	601	395	662
Max Feeding Size (mm)	400	214	500	250	321
Feeding Height (mm)			2450	3650	
Hopper Volume (m^3)	4	4	4	4	6
VIBRATING SCREEN					
Screen Box Dimensions (m)	1.5 X 4.8	1.5 X 4.8	1.8 X 4.8	1.8 X 4.8	1.8 X 6
FEEDING BELT CONVEYOR					
Width (mm)	800	800	1000	1000	1200
DISCHARGE BELT CONVEYORS					
Width	650	650	800	800	1000
Discharge Height	3400	3400	3400	3400	3400
POWER GENERATION					
Engine Make	**Cummins**	**Cummins**	**Cummins**	**Cummins**	**Cummins**
Total Power (Kw)	350	350	450	450	545

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The Sytechs **STC Series Tracked mobile cone crushers are equipped with SS-H/S** Series Hydro Cone crushers, suitable for high-capacity Secondary, Tertiary and Quaternary applications. The SS-H/S series cone crushers are of Single Shaft design and hydraulically adjustable for proper selection of the crushing chamber. The Hydro crones can match any changes in production requirements through the selection of crushing chambers and an eccentric throw while the crusher is in working condition and by a press of bottom.. This flexibility means that it's suitable for a wide range of applications.

Features:

- High Performance & Efficiency
- Constant Feed acceptance Capability
- High output
- High quality product

Full Control of the Process

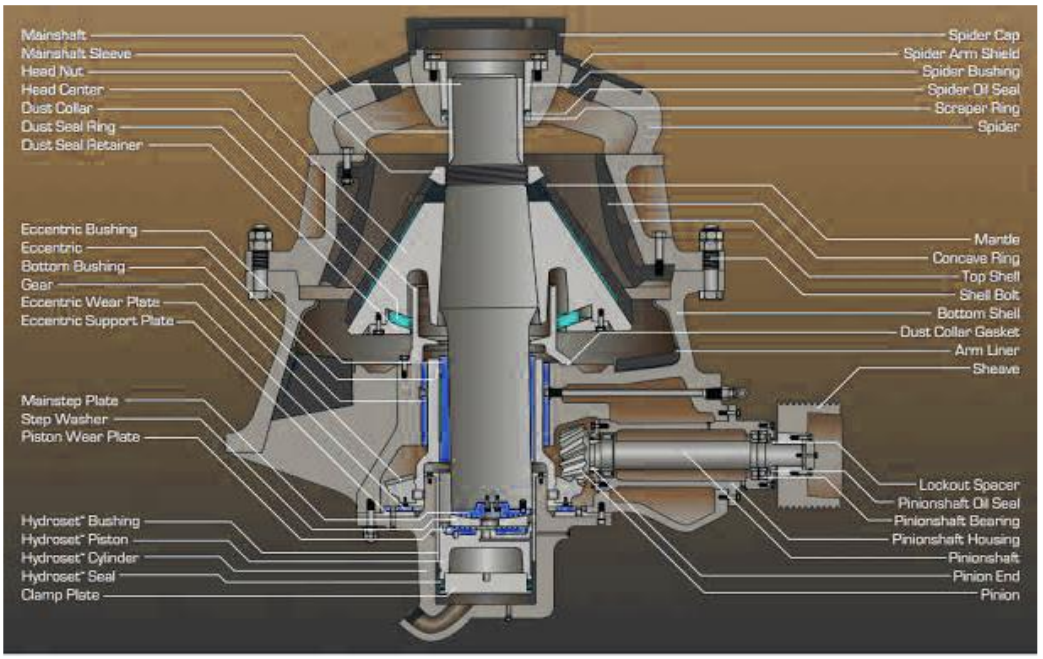
- Intelligent Control System
- Safety & Setting Adjustment Functions
- Heavy Duty Hydraulic Cylinder , supporting and adjusting
- the Main Shaft
- Automatic Overload Protection
- A variety of standard crushing chamber types to be chosen, which can fully meet various production requirements
- Automatic Control System Continuous monitoring of the internal load of the crusher and automatically adjust the equipment to get the best performance.
- Guaranteed performance when original Sytechs parts are used, a long lifetime of the cone crusher is guaranteed.

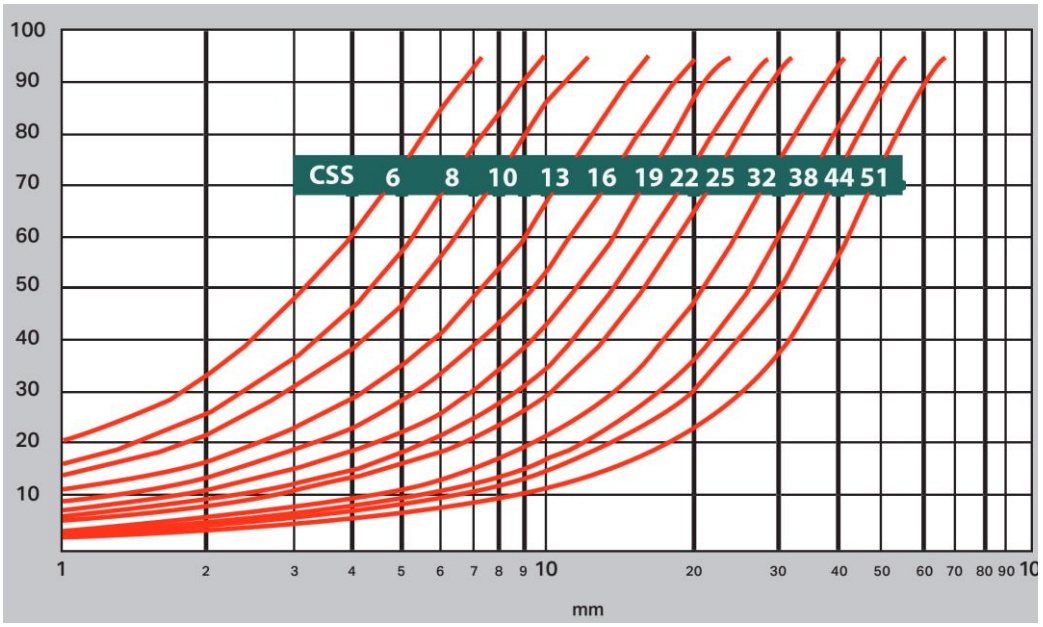
Easy Handling & Maintenance

- All Servicing & Handling of the cone is done from the upper side.
- Robust & Effective Sealing against Dust

Excellent Versatility

- Easy setting adjustment to match the desired output size
- Excellent choice for Secondary, Tertiary applications.





Soft Start Drive (SSD) System

The SS-H Series Cone crushers are supplied with Soft Start Drives (SSD) System which are used to limit inrush current associated with electric motor startup. Soft-start drives lower the initial voltage by adding solid-state series impedance and ramp up until full speed is achieved. Doing this extends the life of the motor and mechanical components that are connected to it. The SSD also eliminates high inrush current on large electric motors which places a high demand (Power Surge) on the electrical supply system and often results in extra cost and larger power generators.

Guaranteed performance when original Sytechs parts are used, a long lifetime of the cone crusher is guaranteed

Wearing parts are available with High Manganese MN13%, Mn18%, Mn21%

SYTECHS ST-VS SERIES TRACKED MOBILE VIBRO SCREEN

The Sytechs ST-VS series of tracked mobile inclined screens are designed for the processing of aggregates and sand . Within the range, there is a model to suit every application. The STS screens are available in double deck and triple deck varieties. All Sytechs machines are designed to be easily transported, set-up, operated and maintained, while giving excellent tonnages of on-spec material.

Improve flexibility and cut operating costs with mobile screens

Mobile screens are utilized in construction sites, aggregates production, quarries, and mining operations whenever movable but high capacity screening is required.

Excellent mobility

As the name suggests, mobile screens have outstanding mobility. They can easily be adjusted to perfectly fit your changing process or location needs.

Reliability

High-quality components and engineering without compromises ensure trouble-free production. When service is required, it can be done simply and easily through easy-to-access maintenance points.

Improved production capacity

Sytechs mobile screens are based on extensive testing and quality control for increased operational efficiency and reduced downtime.

Spare parts and wear parts, as well as services for mobile screens are available through Sytechs' worldwide network.

Fit into open or closed circuits

You can move mobile screens to where you need them and increase the flexibility of your production process. They can be safely transported along the quarry face or between sites to ensure production is interrupted for as short time as possible.

MODEL	ST-VS1548	ST-VS1555H	ST-VS1555	ST-VS1860	ST-VS133E
FEEDING DEVICE					
Max Feeding Size (mm)	400	150	150	200	150
Feeding Height (mm)	3200	3620	2450	3650	4000
Hopper Volume (m³)	7	8	2.5	8	2.5
VIBRATING SCREEN					
Screen Box Dimensions (mm)	1500X4800	1500X5500	1500X5500	1800X6000	2000X6500
FEEDING BELT CONVEYOR					
Width (mm)	1000	1000	1000	1000	1000
DISCHARGE BELT CONVEYORS (MEDIUM & FINE MATERIALS)					
Width (mm)	800	650	650	650	650
Discharge Height (mm)	3400	3400	3400	3400	3400
DISCHARGE BELT FROM UNDER THE SCREEN					
Width (mm)	1000	1000	1000	1000	1000
Discharge Height (mm)	3750	3750	3750	3750	3750
POWER GENERATION					
Engine Make	**Cummins**	**Cummins**	**Cummins**	**Cummins**	**Cummins**
Total Power (Kw)	81	81	81	103	103

For continuous product and design improvement, our specifications may change without prior notice

EXTENDED WARRANTY POLICY
(OPTIONAL)
New Machines & Parts

Equipment Protection Services

As part of Sytechs Life Cycle Services for Aggregates, Equipment Protection Services (EPS) brings you added protection for your most valuable assets, fixed or mobile. This comprehensive plan includes extended warranties, scheduled inspections with Sytechs -certified technicians and Sytechs Metrics Services, our remote monitoring and data visualization solution.

The challenge: managing risks under demanding conditions

In the field, anything can happen. And when you're managing a fleet of mobile crushing equipment often spread out in remote areas or even around the world, maintaining optimal performance for each unit can prove challenging. With new equipment, the likelihood of unexpected failures is low and any required corrective work is likely covered under warranty. Beyond the standard warranty period however, equipment may fail if unsuitable parts are used or the equipment is not maintained in an optimal way.

The solution: Equipment Protection Services

On-site machine inspections and extended warranty under a single plan

Equipment Protection Services (EPS) gives you confidence in your cost structure by anticipating and minimizing unexpected equipment failures. Along with extended warranties that cover repairs or replacements on key designated parts that need to be replaced, this plan also includes comprehensive inspections and other services to keep your equipment running smoothly at all stages of operation.

What we do: Protection starts with prevention 1. Thorough field inspections with certified Sytechs technicians every 1,000 operating hours 2. Full-service reports on your equipment's condition 3. Technicians identify preventive and/or correction actions and provide recommendations 4. Extended protection plan of 5 years or 10,000 hours for designated major components.

FACTORY

Crusher Capacities

The capacity figures shown apply to material weighing 100 pounds per cubic foot or 1600 kg per cubic meter. The crusher is one component of the circuit. As such, its performance is in part dependent on the proper selection and operation of feeders, conveyors, screens, supporting structure, electric motors, drive component and surge bins. Where used, attention to the following factors will enhance crusher capacity and performance.

- ✓ Proper selection of crushing chamber for material to be crushed.
- ✓ A feed grading containing proper distribution of the particle sizes.
- ✓ Controlled feed rate.
- ✓ Proper conveyor sized to carry maximum crusher capacity.
- ✓ Discharge conveyor sized to carry maximum crusher capacity.
- ✓ Properly sized scalping and closed circuit screens.
- ✓ Automation controls.
- ✓ Adequate crusher discharge area.

The following factors will detract from crusher capacity and performance.

- ✓ Sticky material in crusher feed.
- ✓ Fines material in crusher feed (smaller than crusher setting) exceeding 10% of crusher capacity.
- ✓ Excessive feed moisture.
- ✓ Feed segregation in crushing cavity.
- ✓ Improper feed distribution around circumference of crushing cavity.
- ✓ Lack of feed control.
- ✓ Inefficient use of recommended connected horsepower.
  8 Insufficient conveyor capacity.
- ✓ Insufficient scalper and closed circuit screen capacities.
  10 Insufficient crusher discharge area.
- ✓ Extremely hard or tough material.
- ✓ Operation of crusher at less than recommended full load countershaft speed.

TECHNOLOGY & APPLICATIONS

Mobile stone crushing plants are innovative and efficient portable crushing units designed to crush rocks and stones at construction sites, quarries, and mining operations. These plants are equipped with primary and secondary crushers, along with screening equipment, all mounted on a mobile chassis for easy transport between job sites. Below are some key points about mobile stone crushing plants:

Advantages:
1. **Portability**: Mobile stone crushing plants can be easily moved between job sites, reducing the need for material transportation and saving time and costs.
2. **Flexibility**: They can crush various materials, including rocks, ores, and concrete, making them versatile for a wide range of applications.
3. **Quick Setup**: These plants can be set up quickly, allowing for rapid deployment and operation at different locations.
4. **Cost-Effectiveness**: By eliminating the need to transport materials to a fixed plant, mobile units help save on transportation costs.
5. **Environmentally Friendly**: Some mobile crushing plants come with features to reduce dust and noise emissions, minimizing environmental impact.

Applications:
1. **Construction**: Ideal for crushing construction waste, concrete, and rocks at construction sites.
2. **Quarries**: Used to crush large rocks into smaller sizes for further processing or transportation.
3. **Mining**: Essential for crushing and processing ores and minerals in mining operations.
4. **Road Construction**: Provide aggregates for road construction projects by crushing rocks and stones.
5. **Demolition**: Process demolition waste into reusable materials like crushed stone and recycled aggregates.

Additional Features:

1. **Crushing Equipment**: Equipped with jaw crushers, impact crushers, or cone crushers for primary and secondary crushing.

2. **Screening Equipment**: Includes screens to classify crushed material into different sizes or grades.

3. **Power Source**: Can be powered by diesel engines or electricity, offering flexibility based on site requirements.

Mobile stone crushing plants offer a convenient and efficient solution for various crushing needs, providing mobility, versatility, and cost savings for construction, mining, and recycling projects.

Stone crushing plants are used in various industries for processing different types of rocks, ores, and minerals to produce aggregates of different sizes for construction, infrastructure development, and other purposes. Here are some common applications of stone crushing plants:

1. **Construction**: Stone crushing plants are essential for producing aggregates used in the construction of roads, bridges, buildings, and other structures. They crush rocks into various sizes of aggregates required for construction projects.

2. **Mining**: In mining operations, stone crushing plants are used to crush and process ores and minerals extracted from the earth. They are crucial for extracting valuable minerals and metals like gold, silver, copper, and iron ore.

3. **Quarries**: Stone crushing plants are commonly found in quarries where large rocks are extracted and crushed into smaller sizes. The crushed stone is used as raw material for construction, landscaping, and road building.

4. **Road Construction**: Stone crushing plants provide the necessary aggregates for road construction projects. Crushed

stone is used as a base material for roads, highways, and pavements to improve durability and stability.

5. **Railway Ballast**: Crushed stone produced by stone crushing plants is used as railway ballast to provide support and stability to railroad tracks. It helps distribute the weight of trains and maintain track alignment.

6. **Concrete Production**: Stone crushing plants produce aggregates that are used in the production of concrete. Crushed stone is a key ingredient in concrete mixtures, providing strength and durability to the final product.

7. **Landscaping and Decoration**: Crushed stone from stone crushing plants is used for landscaping, decoration, and aesthetic purposes. It is used in gardens, pathways, driveways, and other outdoor spaces for decorative and functional purposes.

8. **Demolition Waste Recycling**: Stone crushing plants can also be used to process and recycle demolition waste materials. Concrete, bricks, and other construction debris can be crushed and reused as aggregates for new construction projects.

9. **Industrial Applications**: Stone crushing plants are used in various industrial applications where crushed stone is required as a raw material. Industries such as cement, asphalt, and manufacturing use crushed stone in their production processes.

10. **Environmental Remediation**: Stone crushing plants can be used in environmental remediation projects to crush and process rocks or contaminated soil for land reclamation, site restoration, or landfill cover applications.

These are some of the common applications of stone crushing plants across various industries, showcasing their importance in construction, mining, infrastructure development, and environmental projects.

SYTECHS
MINERALS
MINING TECHNOLOGY

ISO 9001
QUALITY SYSTEM
CERTIFIED

Manufactured as per North American Design and Specifications, Under License of Sytechs Minerals NA

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