



GI CRUSHER

K2R

GI1111CR/CVR



GI CRUSHER **K2R**



The **GI CRUSHER K2R** is one of the biggest mobile crusher in the Gasparin Omg product range, combines an impactor with a screenbox and a re-circulating conveyor system to create a full crushing, screening, and recirculating system. It is easy to use and environmentally friendly. Made for all application in which fines materials are needed, good as well for recycling application.

The HCS system checks all the machine components, this means maximum performance in terms of:

- **Big reduction ratio**
- **Low crushing chambers wear**
- **High production**
- **High fines material percentage**

Characteristics:

Output up to 360 t/h

High production with the new design of the impact crushers Gasparin Omg

Very aggressive crushing chamber configuration, for a maximum crushing effect.

High rotor geometry efficiency.

HCS (Hydraulic Crushing System), which means full hydraulic management machine.

The system checks and adjusts continuously the different components of the machine

Vibrating Grizzly feeder with replaceable double step bars grid.

Re-circulating screening system which includes :

- Swivelling re-circulating conveyor
- Collection conveyor
- Side transfert conveyor
- Vibrating screen single deck
- Hydraulic legs

Hydraulic folding hopper with wedge-lock system.

Easy access to the engine.

Big access under the impactor, for maintenance.

Possibility of pre-screen

Big feed size: 700mm

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IMPACTOR

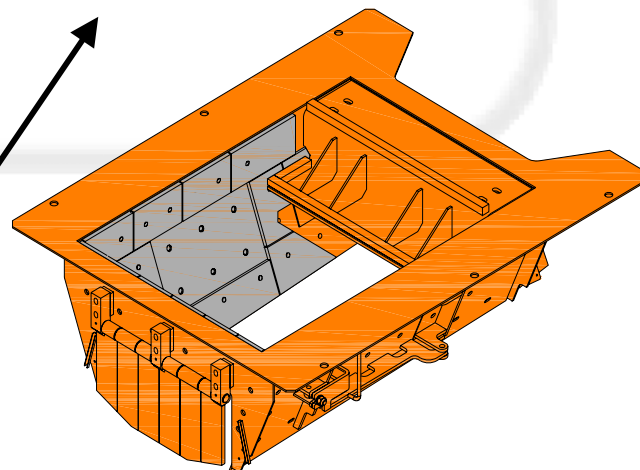
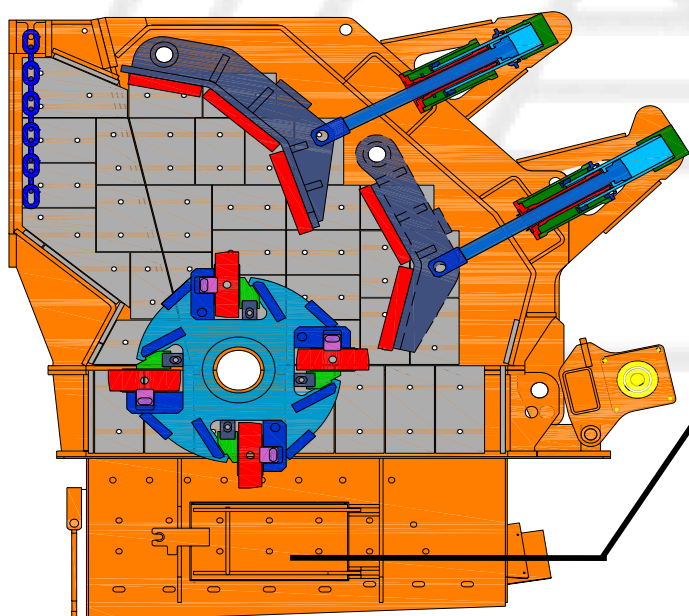
Crusher type:	Primary - secondary, with hydraulic adjustment, safety and drive.
Feed opening:	1100x800 mm.
Bearings:	Self aligning spherical roller.
Lubrication:	Grease.
Drive:	Wedge belts with screw tension adjustment on hydraulic motor.
Speed:	variable tip speed from 27 m/s to 40 m/s .
Minimum setting:	30 mm C.S.S. In recycling and natural stone application with hardness under 200Mpa. For other application don't hesitate to contact the Gasparin technical department
Maximum setting:	130 mm
Controls:	Full hydraulic management, (CSS setting and safety system).



HCS Hydraulic Crushing System (Patented)

HCS is an electro-hydraulic system that checks and adjusts continuously all the machine components, in particular the crusher functions, aprons setting and safety.

The HCS system provides the power that the crusher needs, it adjusts the CSS with the big cylinders behind the aprons (for a constant output size) and it gives the consent to open the aprons when there is an un-crushable object inside the crushing chamber.



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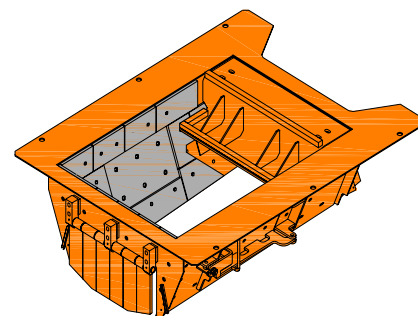
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IMPACTOR DISCHARGE HOPPER

Type: Monolithic four walls hopper.

Fully HARDOX wear plate.

Distance between rotor and main conveyor: 700 mm



FEED HOPPER

Type: tri-lateral feed hopper hydraulic folding

Length: 4570 mm

Width: 2400 mm

Capacity: 6 m³

Design: Heavy duty construction with
"U" shape reinforcements

Rear and lateral quick wedges lock of the walls.
Folding hopper setup's time less then 5min.



VIBRATING FEEDER

Type: Grizzly

Vibrating unit: Twin heavy-duty cast eccentric shafts
running in spherical roller bearings.

Length: 4000 mm.

Width: 970 mm.

Drive: Hydraulic motor

Bars: Double step grid bars
Length: 1800 mm
Spacing 40/55 mm



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BYPASS CHUTE

Type: vibrating hopper under the grid bars, fixed bypass rubber chute for unload the fines material on the main conveyor or on the side conveyor.



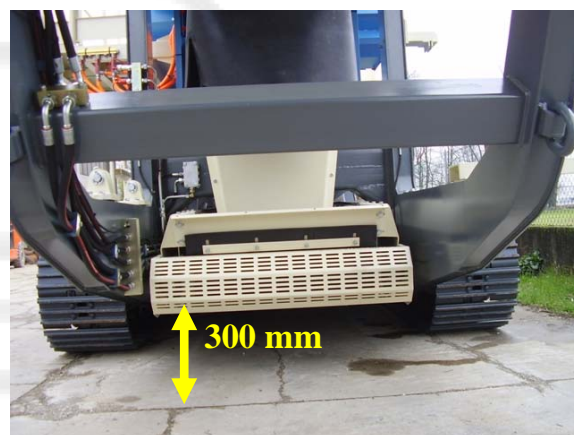
MAIN CONVEYOR

Type: Hydraulic folding
Length: 11250mm
Width: 1000mm
Discharge height: 3200mm
 Distance from rotor to belt conveyor: 700mm

Belt scraper: Stainless steel blades are fitted as standard
Skirting: Monolithic wear resistant rubber sealing skirts along the entire conveyor length.



Hydraulically folding head section for transport.



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POWERPACK

The technical features of the engines are valid only for European Community

Engine: 6 cylinders Stage IV

Performance: 285 kW

Fuel tank capacity: 570 lt.

Gear: no gear box, direct pumps in line with the engine.



Variable displacement oil pump, only for the hydraulic closed circuit of the jaw crusher or impact crusher, managed by HCS.



Variable displacement load sensing oil pump, for the hydraulic open circuit for the other utilities.



Hydraulic open circuit load sensing distributor .

DUST SUPPRESSION SYSTEM

Spray bars with atomiser nozzles are mounted on the lateral walls of the hopper, under the feeder chute and under the powerpack, before the magnet.



CRAWLER TRACKS

Type: heavy duty
Longitudinal centers: 3800 mm
Track width: 450 mm
Climbing grade: 25°
Max speed: 0.90 km/h
Control: Umbilical



SAFETY DEVICES

The machine has guarding, in some its parts, for protect the operator.
 The protected parts are: flay wheels, return drums and rollers



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PLATFORM

A maintenance platform is provided on one side of the feeder with double row handrails and access ladders. A platform is also included to gain access between the crusher and the power pack.



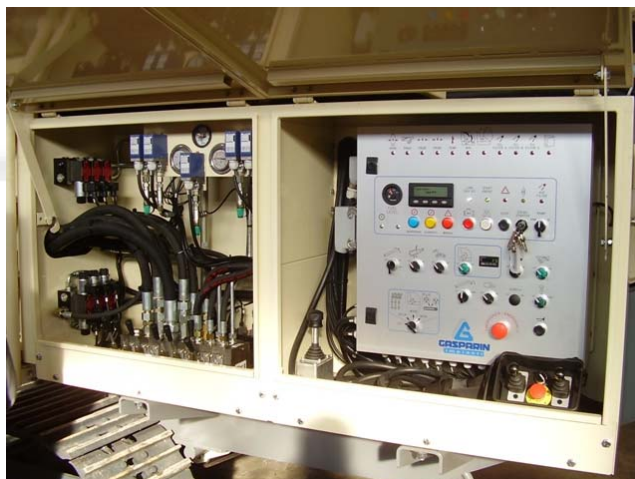
CHASSIS

Heavy duty fabricated "CLOSED BOX" section of welded construction.



CONTROLS PANEL AND HYDRAULIC UNIT

The control panel and the hydraulic unit are concentrated in a single cabinet. This choice is fundamental for an easy maintenance.



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UMBILICAL

A hard wired umbilical control unit is also supplied with the plant. This is fitted with controls for the track motion, start and emergency.



FUEL PUMP

The electric fuel pump with stainless steel case is standard.



MAGNETIC SEPARATOR

Type: Suspended self-cleaning overband.
Magnet width: 600 mm
Magnet length: 1000 mm
Drive: Hydraulic motor.
Discharge chute: Stainless steel



OPTIONAL

- Water pump for dust suppression system
- Side conveyor
- Hydraulically folding side conveyor
- Remote control (Liv.1 or Liv.2.)
- HARDOX 400 wear plate for hopper.
- Bars grid
- Re-circulating screener mesh
- Automatic lubrication system
- Hand lifting swing hoist

PRE-SCREEN FOR "CV" VERSION

Type:	Feeder + independent pre-screen 2320+2000 mm.
Width:	1020 mm.
Drive:	Hydraulic motor
Top deck:	Punched plate Length: 1800mm Square hole 60mm
Bottom deck:	Square mesh 25mm



SIDE CONVEYOR

Width:	600 mm
Length:	4500 mm
Discharge height:	2400 mm
Drive:	Hydraulic motor.
Skirting:	Monolithic wear resistant rubber sealing skirts along the entire conveyor length.



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REMOTE CONTROL

Step 1:

- Start/stop feeder
- Emergency



Step 2:

- Proportional speed tracks.
- Speed track fast/slow
- Start/stop feeder
- Start/stop pre-screen (if installed)
- Stop button for the machine
- Emergency



RE-CIRCULATING SCREENING SYSTEM

The **GI CRUSHER K2R** provides the versatility of a crushing and screening plant on one machine. Based on the **GI CRUSHER K2** this machine features an innovative on onboard re-circulating system and detachable sizing screen. If re-circulation and sizing of materials is not required the sizing screen can be quickly detached from the machine .

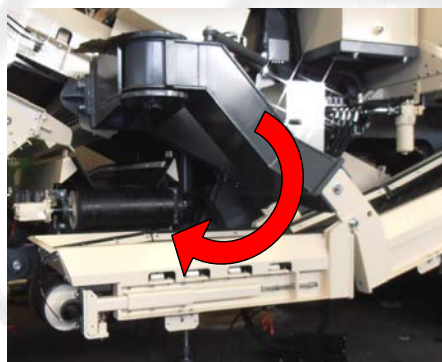
The **GI CRUSHER K2R** offers further versatility in operation with a screen recirculating conveyor which returns oversized product to the crusher for further reduction.

Re-circulating screening system includes :

- Swivelling re-circulating conveyor
- Collection conveyor
- Side transfert conveyor
- Vibrating screen single deck

RE-CIRCULATING SCREENING SYSTEM – SWIVELLING CONVEYOR

Width: 500 mm
Length: 8800 mm
Discharge height: 4470 mm
Conveyor belt : CHEVRON
Swivelling angle: from 0° to 90°
Drive: Hydraulic motor.
Skirting: Monolithic wear resistant rubber sealing skirts along the entire conveyor length.



Swivelling system



Hydraulic folding for transport condition



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RE-CIRCULATING SCREENING SYSTEM – COLLECTION CONVEYOR

Width: 1000 mm
Length: 4400 mm
Discharge height: max 2470 mm
Drive: Hydraulic motor.
Skirting: Monolithic wear resistant rubber sealing skirts along the entire conveyor length.



RE-CIRCULATING SCREENING SYSTEM – SIDE TRANSFERT CONVEYOR

Width: 600 mm
Length: 1900 mm
Drive: Hydraulic motor.
Skirting: Monolithic wear resistant rubber sealing skirts along the entire conveyor length.



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RE-CIRCULATING SCREENING SYSTEM – VIBRATING SCREEN SINGLE DECK

Type:	Double deck two bearings screenbox.
Dimension:	3500x1500 mm.
Bearings:	Special spherical roller bearings for screen application
Lubrication:	By grease.
Drive:	Hydraulic motor directly on the screenbox shaft. Shaft speed from 0 to 1000 rpm.

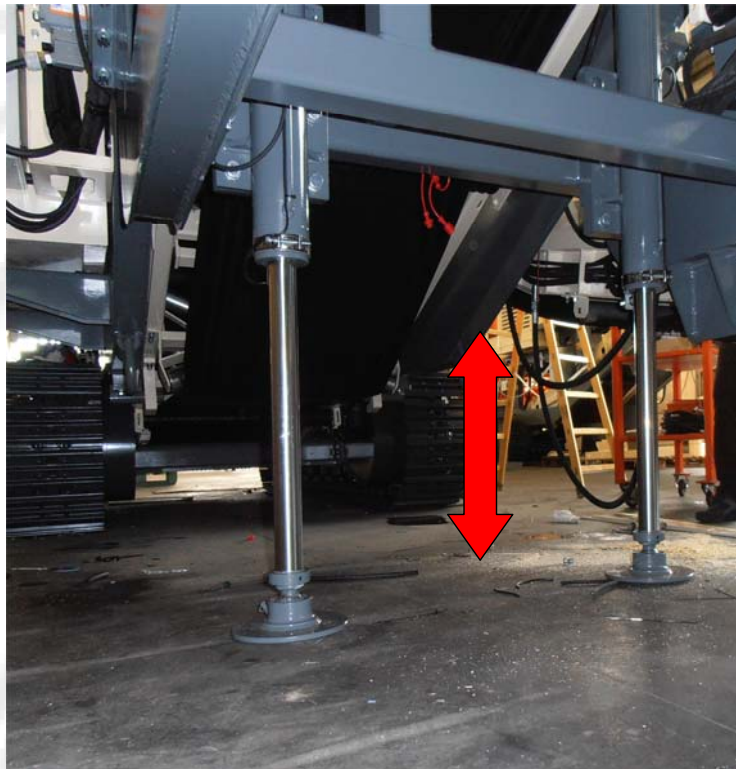


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RE-CIRCULATING SCREENING SYSTEM – HYDRAULIC LEGS

Designed for increase stability of the crusher during the work condition.

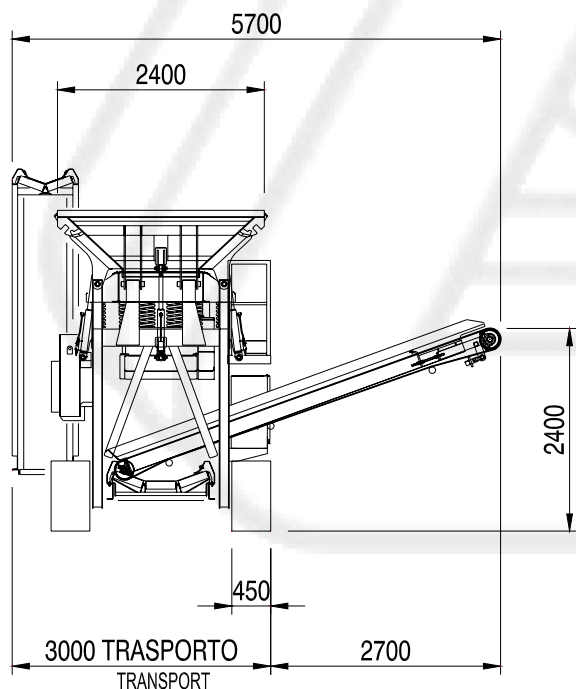
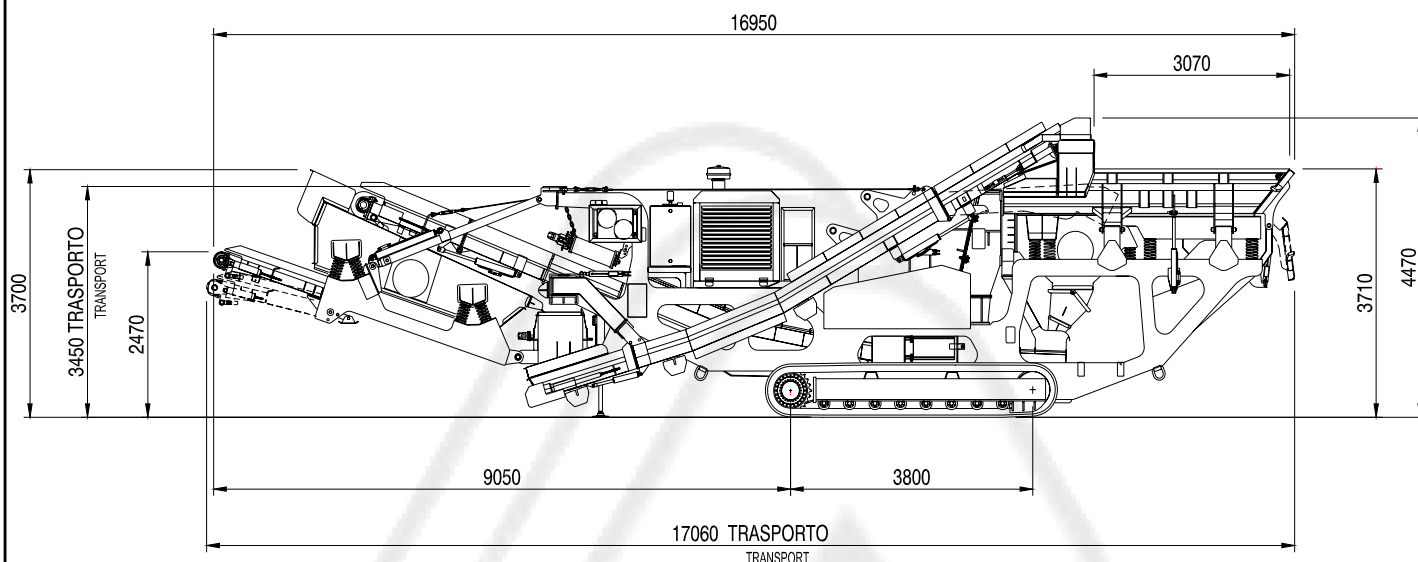


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DIMENSIONS



APPROXIMATE OVERALL PLANT WEIGHTS & DIMENSIONS

- Operating length: 16950 mm
- Operating height: 4470 mm
- Operating width: 3000 mm
- Transport length: 17060 mm
- Transport height: 3450 mm
- Transport width: 3000 mm
- Base machine Grizzly weight: 47000 kg
- Base machine Pre-screen weight: 47000 kg



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SALES ARGUMENTS

- ✓ Height output, up to 360 t/h
- ✓ Big feed size material until 700mm
- ✓ Low maintenance cost
- ✓ Hydraulic management system HCS (hydraulic Crushing System)
(Patented Gasparin Omg)
 - Hydraulic C.S.S. adjustment (CLOSE SIDE SETTING)
 - Active hydraulic safety for un-crushable material
 - Automatic setting of the crushing power
 - variable tip speed from 27 m/s to 40 m/s
to customized your granulometric curve of the end product
- ✓ Double step grid bars (grizzly version)
- ✓ Heavy duty construction
- ✓ Full possibility adjustment
- ✓ Self adjustment feeder's speed
- ✓ Flexibility to use
- ✓ Possibility to install a pre-screen ("CV version")
- ✓ Large openings for the iron extraction under the rotor and for maintenance
- ✓ Exclusive design, made Gasparin Omg
- ✓ Excellent price for maximum performance
- ✓ **MACHINE "ENVIRONMENTALLY FREINDLY"**