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Version 2.0

Distributor for:





McCLOSKEY

Harry 1

PORTAFILL





02 Helping Quarry Owners Enhance Productivity, Financial Performance and Reduce Risk.

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Helping Quarry Owners Enhance Productivity, Financial Performance and Reduce Risk.

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OUR DIFFERENCE

What sets us apart from others in the market? We have extensively analysed our customers and know what you really need in this tough industry. Being responsible for the efficient operation of the quarries you are running – increasing productivity and financial performance while looking after your reputation and the safety of your team is no easy task, that is why we have made ourselves different from 'the others' in the following four points.



Know How

With our extensive training and experience working with big to small quarries and everything in between, we have the knowledge to make your quarry operation run at the optimum balance, increasing the productivity of your quarry and improving your financial performance.



Product Utility

Getting the right machines to suit your application is critical to the success of your operation; that's why we have carefully selected the suppliers that we work with. Partnering with our suppliers in a close-knit way allows us to customise machinery to get the perfect material on the ground.



Parts Availability

Having wear parts, consumables and all other parts readily available is critical to the success of any quarry operation. Losing profit due to machine downtime is something we hate to see happen in any operation – with an extensive range of parts available from our warehouse in Masterton NZ you can be sure to be up and running with the least downtime.



Service Excellence

Service excellence is what defines who we are! Whether it be answering the phone within the first couple of rings or flying a technician to your machine in the unlikely event of a break down, we truly care about being the best in the industry when it comes to service – ask us about our audit program to find out.

ABOUT US

With over 50 years' experience in the earthmoving industry and armed with the knowledge of what effect downtime can have on any operation, we are committed to bringing you the best service ever provided in the industry.

We pride ourselves on being an experienced, proactive and dynamic company that always holds to our values, which we class as being critical to success.

In 2008 we saw an opportunity in the market for importing and selling mobile screening and crushing machines to the construction market, we recognized that it was not being serviced well and that there was a need for different machines to suit different applications.

After delivering a large order of three mobile plants (a Jaw, Cone and Screen) to Oceana Gold in the Philippians in 2009, we realized that we needed to secure an agency for a well-reputed brand that would see us become the market leader in NZ.

A lot of time and research was put into finding the right brands that would be able to support our clients and us, and now after working closely with Keestrack and Portafill for many years we are proud to say we have got a great partnership where we can give you the perfect support.



CORE VALUES

Our values help us define who we are and what we strive to do. We measure our success against how well we measure up to them, and they remind us what's truly important. Integrity and honesty are to be foundational.

MAKE IT BETTER

Whether it's our internal processes or customers operational needs; Make it Better is our core responsibility, to improve and make it better than what was.

ONE DIRECTION – ONE TEAM

We win together; we lose together. It doesn't matter what 'department' we're in, treating everyone with respect and fairness; we work together to solve for the solution. We provide a clean and positive work environment with development for all members.

PASSION FOR CUSTOMERS

Measuring our success by that of our customers, always driven by quality of service. At the end of the day without customers, we are not a business. This is one of our core values as without it, you won't keep your customers happy or for long.

SENSE OF URGENCY

If it needs doing, we get it done quickly. No waiting till next week or for the 'right' person. We understand that meeting deadlines is vital for success.

CAN-DO ATTITUDE

An eager willingness to accept and meet challenges. Keen to give anything a go, in or outside of our comfort zone we're willing to take on responsibility where others shy away or procrastinate.

OUR HISTORY

-1960-

Establishment of Hart Bros Contracting.

Starting off as general earthmoving contractors with the vision and hope of evolving into a hire company as specialists in the construction industry who can be the first and best choice in supplying hire machinery for New Zealand customers.



2003-

-1994-

The Hart's collectively sells C-Dax and their farming business in Manawatu. They re-establish the contracting company, which now includes heavy machinery hire.

-**1998**-

Hireways is established in Palmerston North, Manawatu to supply heavy machinery and specialist equipment to the region. The contracting business changes into Hire only.

Joe Hart moves from Manawatu to Wairarapa and establishes Hiremax.







-2014-

Equip2 becomes the sole distributor of Portafill in New Zealand and Oceania.

-2016—

Equip2 becomes the sole distributor for Sensortechnic in New Zealand and Oceania.

-2017-

Equip2 sets up a support satellite office in Auckland to support clients in the region.







-1976-

The Hart family moves from contracting to farming in Manawatu.

-**1980**-

The Hart's establish C-Dax Sprayers for use in agricultural industry.

Joe Hart; Hiremax's founder; Joins the C-Dax family business.



2008

Hiremax sources and sells Trommel screens.



-2010-

Hiremax sells three mobile plants to Oceania Gold in the Philippines; A Jaw, Cone and Screen.



2013-

-1984-

Equip2 is formed as a separate entity. Equip2 solidify a relationship with Keestrack and become their sole distributors for New Zealand and Oceania.







2019 -



Equip2 Today

Today we continue to see Equip2 expanding their reach throughout NZ and Oceania with the opening of our office and yard in Christchurch earlier in 2019. One of Equip2's key focuses is continuing to strengthen our after-sales technical support and parts capabilities, watch this space for the next big development in this area!



PRODUCT RANGE

OUR EQUIPMENT

Equip2 has the Mobile Crushing and Screening Plant for any application in any context. We stock High-Performance Impact Crushers, Jaw Crushers, Cone Crushers and screens from Keestrack, Portafill and MWS.

OUR BRANDS

16	KEESTRACK
74	PORTAFILL
96	MWS WASHING SYSTEMS
106	SENSORTECHNIK



Keestrack

ABOUT KEESTRACK
KEESTRACK FEATURES
SCREENS
JAW CRUSHERS
IMPACT CRUSHERS
CONVEYOR SYSTEMS
HOW CRUSHERS WORK

ABOUT KEESTRACK

In 1996 Kees Hoogendoorn and his wife, Annet Schoenmaker started Keestrack in Belgium with an ambitious vision: to build the world's first direct feed scalper.

After starting a construction equipment business in1988, they moved into the screening & crushing manufacturing business resulting in the concept of a direct feed mobile scalper. They decided to build their own screen in 1996.

Soon afterwards Kees went on to develop the Keestrack mobile Impact Crusher and, after acquiring OM in 2010 added a full range of Jaw Crushers to the Keestrack product range.

Today direct feed scalpers are the industry standard, with Keestrack proudly leading the way in mobile screening and crushing equipment.

100% privately owned and managed by the Hoogendoorn family, with the ideals of a family culture at the heart of everything they do.

Supporting each other as they strive to continually improve their products, creating an atmosphere that clients recognise and appreciate.

The result gives an unshakable belief in the Keestrack company and their ability to succeed and innovate in the industry.

Building technically superior screens and crushers will continue to be the goal at Keestrack, where they have started by inventing the world's first direct feed scalping screen on tracks.



Kees Hoogendoorn.







Keestrack and the worlds first tracked Scalping Screen.

"The hand that rocks the cradle rules the world".

The first Keestrack scalping screen was produced in 1988 and today, production, research and development are still carried out in-house by founder Kees Hoogendoorn and a team of highly skilled experts.





WIRELESS REMOTE CONTROL

Keestrack's wireless remote offers more than just a convenient way to start and stop the machine. Keestrack's radio remote platform is a fully functional remote that allows operators to control the machine from the comfort and safety of the cab.

The remote enables tracking, start and stop, machinespecific adjustments like Gap adjustments on a Jaw and Apron settings on an Impact Crusher. It also includes an emergency stop switch, making it a safety extension of the equipment.

The remote has 2-way communication with Keestrack's machinery which displays the current configuration and readout on the remote's LCD display, making it an extra productivity extension of the machine.

The Keestrack wireless remote is USB rechargeable like a regular mobile device and is securely connected and configured with the machine. The remote consists of a weather-sealed polycarbonate hardshell and includes a rubberised grip for impact protection.

Available in two stages:

Stage I - 8 Function remote with basic controls Stage II - 10 Function remote with advanced controls



KEESTRACK-ER TELEMATICS SYSTEM

The Keestrack-er Remote Telematics System is an advanced monitoring system built from the ground up for Keestrack's machinery.

From anywhere in the world with an internet connection machinery can be monitored and diagnosed for optimum productivity and peace of mind.

Key components of the system are a cellular modem with a mobile data connection that's connected to the PLC unit on the machine. The Cellular unit stores and transmits the data fed from the PLC unit to the Keestrack-er remote server, from which the service agent and machine owner can access the machine metrics.

Even without a current internet connection, the machine will upload it's stored data when back in signal range. The Keestrack-er unit offers some distinct advantages to machine owners and managers. It allows them to see where the equipment is positioned on a site remotely and how productive the machine has been.

Metrics like fuel usage, engine load, crushing/screening settings and conveyor configurations, means the manager, regardless of location, can see real-time data and spot potential issues before they're a problem.

In addition to the immediate benefits to the operation, it also means Equip2 can help remotely diagnose and solve issues immediately, without the operator having to wait



for a technician visit. Equip2 can also help machinery operators get the most production out of their equipment. By being able to see in real-time previous production data and settings, Equip2 technicians can then make recommendations to boost output with parameters that further tune the machine, often with significant results.

KEESTRACK R3 IMPACT CRUSHER

MIKE JOHNSON OHAU QUARRIES

"We're only a small quarry, just a two-man operation at present, we make a range of products from 20mm through to 100mm rock out of greywacke.

We have had a jaw crusher and a cone crusher – two-foot cone crusher. And we have now gone to the R3 to improve productivity, being mobile we can take the crusher to the metal now, we've been carting metal to the crusher for years, so the economics are a lot better.

Just ease of use all around (of the machine), easy screen change – mat changes for them, easy to adjust the crusher, blow bars easy to change".

KEESTRACK R5

IMPACT CRUSHER, K4 SCALPING SCREEN, C6 SCREEN AND PORTAFILL 3000ST, DW80 and 5000CT

WADE SAUNDERS BYFORDS CONSTRUCTION 2014 LTD

"Why we went to Keestrack and Equip2 was that I did a bit of research, well quite a bit actually... and, with various other products and I found that Keestrack for us was better suited because they're able to listen to what we wanted and then came up with a plan that suited our needs which a lot of other people wouldn't do that. With Equip2's help and Keestrack we made this possible.

The technical support is a very state of the art like we've got Jeff from Equip2, he's very knowledgeable with the computer side of things and how everything runs."

KEESTRACK POWER SYSTEMS

All of Keestrack's machinery feature latest innovations in Power Units, Drive Systems, Hydraulic Pumps and options for Direct Drive Electric machines. Foremost, in their innovative pursuit of reduced cost and increased uptime for businesses is their Load Sensing Pump and E Series Technology.

LOAD SENSING PUMPS

Unique to Keestrack is their use of Load Sensing Pumps in all Diesel powered Machines.

Piston and restrictor pumps used in other machines produce a set amount of power which the pump then restricts the flow of to components based on the settings, therefore wasting precious power through heat and other inefficiencies.

Load Sensing Pumps produce and send power to components based on the load required to meet the set parameters, meaning hydraulic pressure is made to meet demand. Load Sensing Pumps save up to 25% compared to others, are just as reliable and save on wear costs to components.

KEESTRACK ELECTRIC

They are leading the field in Hybrid and Electric mobile machinery. Highly flexible in their deployment, the E-Series of equipment features Hybrid Diesel power units and electric motors to reduce resource consumption.

Utilising E-Motors instead of hydraulic ones these machines have more power for less consumption in addition to less wearable parts.

They can be set up to use the onboard Genset with an additional saving of 50% in fuel usage compared to traditional diesel-powered machines of the same size.

When set up to run from the Grid, the E-Series of machines use up to 70% less power than their equivalent dieselpowered machines as well as dramatically reduced carbon and noise emissions.

BAR STORY



Standard Diesel/ Hydraulic system

By using Load Sensing Pumps, Keestrack Machines use up to 25% less fuel than traditional piston pumps on other machines. Also it enables features like simultaneous tracking and screening and on the fly machine adjustments.

E series Diesel/Electric hybrid system

Using Keestrack's proven Diesel/ Electric Hybrid machines, operations can utilise the onboard Genset to power the E-Motors across the machine. Saving up to 50% on fuel costs compared to traditional Diesel systems.

(i)

E series Diesel/Electric machine plugged into the grid

Plug into the Grid to power an E-Series machine and save up to 70% on fuel costs. Using a E-Motors, there is no Hydraulic pump to power resulting in 95% power efficiency and drastically reduced carbon emissions.

Keestrack Fuel Savings



*KEY

e version available

Where you see a Keestrack machine with 'e-version available' this means the machine can come as an E series Diesel/Electric hybrid machine.

CLASSIFIER SCREEN

KEESTRACK C4

A mobile classifier screen with large interchangeable decks, capable of producing a 4-way split up to 300 tonnes per hour. Built with load sensing pumps for low fuel consumption and emissions, the C4 produces more profitable products while using fewer resources.





Smart Design The C4 is innovatively designed and balanced; therefore, it does not require support legs, and it's easy to transport.



Hydraulic Tipping Grid The hydraulic tipping grid allows easy loading from excavators and loaders of various sizes.



Excellent Screen Access Make what would generally be a tedious job an easy one with superior access to the meshes for fast turn around.



Steel Hydraulic Lines Steel Lines offer better heat dissipation, reduced risk of hose burst and easier repairability.



User-Friendly PLC Unit The large screen PLC makes it easy to control, monitor and tune the screen for maximum production.



Triple Deck Screen The C4 is equipped with three large decks to produce up to four different splits.





Proven across New Zealand and the world in various applications including but not limited to:

- Top soil
- Compost/barks
- Limestone Asphalt Recycling
- Aggregates

Operation Mode



Transport Mode





OVERVIEW





Hopper	

5.4 m²

28,000 kg

8.1 m³

SPECIFICATIONS	
Operating Weight	28,000Kg
POWER UNIT	
Engine	Deutz TCD 2.9 L4, Tier 3 - 55,4 kW
	at 1,800 rpm
FEED HOPPER	
Capacity	8.1m ³
Feeding Height	3,060 - 3,520mm
Feeding Width	2,350mm
Feeding Length	4,500mm
Tipping Grid Angle	Hydraulically Adjustable
BELT FEEDER	
Width	1,200mm
SCREEN BOX	
Decks	Triple Deck - 4-way split
Length	3,600mm
Width	1,500mm
FINES CONVEYOR (UNDER SCR	EEN)
Width	1,200mm
Stacking Height	4,050mm
FINES MIDDLE FRACTION CON	/EYOR (LEFT)
Width	650mm
Stacking Height	4,240mm
COARSE MIDDLE FRACTION (RI	GHT)
Width	650mm
Stacking Height	4,240mm
COARSE CONVEYOR (LEFT)	
Width	650mm
Stacking Height	3,740mm
MAIN CONVEYOR	
Width	1,200mm
OPERATING DIMENSIONS	
Operating Width	14,400mm
Operating Length	15,850mm
Operating Height	4,240mm
TRANSPORT DIMENSIONS	
Transport Width	2,800mm
Transport Length	13,700mm
Transport Height	3,325mm

CLASSIFIER SCREEN

KEESTRACK C6

The biggest of the Classifier screens in the Keestrack range, the C6 is made for high production. Available in a three-deck screen configuration capable of making a three-way or four-way split of products alone. Add in the ability to make this a mobile wash plant with bolt-on parts and you've got a sophisticated setup of high-quality production.





Fast Screen Change Easily change meshes with simple removal and tensioning.



Hydraulically Adjustable Hydraulically adjust components on the C6 to easily tune the screen for better production.



Tipping Grid Grizzly bars are free-hanging for easy dislodging of material and direct feeding of sized material.



Steel Hydraulic Lines Steel Lines offer better heat dissipation, reduced risk of hose burst and easier repairability.



User-Friendly PLC Unit The large screen PLC makes it easy to control, monitor and tune the screen for maximum production.



Big Decks Each deck is equal in size and has a surface area of 8.1m2 each.





Proven across New Zealand and the world in various applications including but not limited to:

- Top soil
- Compost/barks
- Asphalt Recycling
- Aggregates
- Limestone

Operation Mode



Transport Mode





OVERVIEW

Transport Height





Hopper	
8.1 m ³	

8.1 m³

31,000 kg

SPECIFICATIONS		
Operating Weight	31,000Kg	
POWER UNIT		
Engine	Caterpillar C4.4 TA - 85 kW at 1,500rpm	
FEED HOPPER		
Capacity	8.1m ³	
Feeding Height	3,060 - 3,520mm	
Feeding Width	2,350mm	
Feeding Length	4,500mm	
Tipping Grid Angle	Hydraulically Adjustable	
BELT FEEDER		
Width	1,200mm	
SCREEN BOX		
Decks	Triple Deck - 4 way split	
Length	4,500mm	
Width	1,800mm	
FINES CONVEYOR (UNDER SCREEN)		
Width	1,200mm	
Stacking Height	3,700mm	
FINES MIDDLE FRACTION CO	NVEYOR (LEFT)	
Width	800mm	
Stacking Height	4,680mm	
COARSE MIDDLE FRACTION O	Conveyor (Right)	
Width	800mm	
Stacking Height	4,350mm	
COARSE CONVEYOR (LEFT)		
Width	650mm	
Stacking Height	4,000mm	
MAIN CONVEYOR		
Width	1,200mm	
OPERATING DIMENSIONS		
Operating Width	17,800mm	
Operating Length	15,700mm	
Operating Height	4,680mm	
TRANSPORT DIMENSIONS		
Transport Width	3,000mm	
Transport Length	14,300mm	

3,300mm

SCALPING SCREEN



KEESTRACK K3

The Keestrack K3 is robust, compact and highly mobile. Designed for the mobile operator or contractor, this screen will sort through rock that defies its small dimensions. The K3 features everything needed for precision screening; like two large screening decks, mid fraction and fines output conveyors, intelligent controls and PLC.



Key Benefits



Aggressive Screen Action A high eccentric throw gives the screen an aggressive screening action to effectively separate materials.



Steel Hydraulic Lines Steel Lines offer better heat dissipation, reduced risk of hose burst and easier repairability.



Safety

There are five stop switches located around the machine, including one on the remote.



Remote Control Start, stop, track and adjust screening parameters with the wireless remote.



Hopper Split back-wall allowing for two different feeding heights.





Proven across New Zealand and the world in various applications including but not limited to:

- Top soil
- Limestone
- Compost/barks
- Demolition material
- Aggregates
- Asphalt

Operation Mode



Transport Mode





OVERVIEW





	1
I	Hoppe

3.2 m²

17,000 kg

Hopper 3.5 m³

SPECIFICATIONS	
Operating Weight	17,000Kg
POWER UNIT	
Engine	Deutz TD 2011 L04 - 54 kW at 2,200 rpm
FEED HOPPER	
Capacity	3.5m ³
Feeding Height	2,410mm
Feeding Width	2,820mm
Feeding Length	3,380mm
BELT FEEDER	
Width	1,000mm
SCREEN BOX	
Decks	Double deck - 3 way spit
Width	2,700mm
Length	1,200mm
OVERSIZE CONVEYOR (FRONT)	
Width	1,000mm
Stacking Height	3,200mm
MIDDLE FRACTION CONVEYOR	(RIGHT)
Width	650mm
Stacking Height	3,400mm
FINES CONVEYOR (LEFT)	
Width	650mm
Stacking Height	3,280mm
OPERATING DIMENSIONS	
Operating Width	13,330mm
Operating Length	11,968mm
Operating Height	3,400mm
TRANSPORT DIMENSIONS	
Transport Width	2,550mm
Transport Length	9,800mm
Transport Height	3,120mm

SCALPING SCREEN

KEESTRACK K4

The K4 scalping screen is part of Keestracks legendary direct feed scalping screen lineup. Featuring a compact weight and dimensions, it makes the preferred choice for transportability. The K4 exceeds in all areas like production, usability, compactness, fuel consumption and versatility. Thanks to a heavy-duty high-grade steel frame and over-engineered components the K4 can take on the harshest of rock.





Large Screen Box The large screen box allows for high production screening regardless of input feed.



Steel Hydraulic Lines Steel Lines offer better heat dissipation, reduced risk of hose burst and easier repairability.



Steel Plate Apron Feeder Comes with a Steel Plate Apron Feeder as standard for heavy-duty work and increased lifespan.



Hydraulically Adjustable Hydraulically adjust components on the K4 to easily tune the screen for better production.



Hopper Split back-wall allowing for three different feeding heights.



Remote Control Start, stop, track and adjust screening parameters with the wireless remote.





Proven across New Zealand and the world in various applications including but not limited to:

- Top soil
- Compost/barks
- Aggregates
- Limestone Demolition material
- Asphalt recycling
- **Operation Mode**



Transport Mode





OVERVIEW





Hopper

6.3 m²

26,500 kg

7 m³

SPECIFICATIONS	
Operating Weight	26,500Kg
POWER UNIT	
Engine	Caterpillar C4.4 TA - 85 kW
	at 1,500 rpm
FEED HOPPER	
Capacity	7m ³
Feeding Height	2,580mm
Feeding Width	2,975mm
Feeding Length	4,200mm
PLATE APRON FEEDER	
Width	1,120mm
SCREEN BOX	
Decks	Double Deck - 3 way split
Length	4,200mm
Width	1,500mm
OVERSIZE CONVEYOR (FRONT)	
Width	1,200mm
Stacking Height	3,100mm
MIDDLE FRACTION CONVEYOR	(RIGHT)
Width	800mm
Stacking Height	3,790mm
FINES CONVEYOR (LEFT)	
Width	900mm
Stacking Height	4.380mm
5 5 5	,
OPERATING DIMENSIONS	
Operating Width	14,010mm
Operating Length	13,182mm
Operating Height	4,380mm
TRANSPORT DIMENSIONS	
Transport Width	2,550mm
Transport Length	10,681mm
Transport Height	3,130mm

SCALPING SCREEN

KEESTRACK K5

The K5 scalping screen is built off the same platform as the Keestrack K4 but with an extended screen box for a higher production potential while maintaining a transportable profile. The K5 is constructed using high-grade steels and available with a slew of options to suit the needs of various operations.





Steel Plate Apron Feeder Comes with a Steel Plate Apron Feeder as standard for heavy-duty work and increased lifespan.



Steel Hydraulic Lines Steel Lines offer better heat dissipation, reduced risk of hose burst and easier repairability.



Large Screen Box The large screen box allows for high production screening regardless of input feed.



Hydraulically Adjustable Hydraulically adjust components on the K5 to easily tune the screen for better production.



Remote Control Start, stop, track and adjust screening parameters with the wireless remote.





Proven across New Zealand and the world in various applications including but not limited to:

- Top soil
- Compost/barks
- Demolition material

• Limestone

- Aggregates

Operation Mode



Transport Mode





OVERVIEW

Transport Height





Hopper 7 m³

7.5 m²

28,500 kg

SPECIFICATIONS	
Operating Weight	28,500Kg
POWER UNIT	
Engine	Caterpillar C4.4 TA - 85 kW
	at 1,000 ipin
	73
	/m ³
Feeding Height	2,645mm
Feeding Width	2,975mm
Feeding Length	4,200mm
PLATE APRON FEEDER	
Width	1,120mm
SCREEN BOX	
Decks	Double Deck - 3 way split
Length	5,000mm
Width	1,500mm
OVERSIZE CONVEYOR (FRONT)	
Width	1,200mm
Stacking Height	3,100mm
MIDDLE FRACTION CONVEYOR	(RIGHT)
Width	800mm
Stacking Height	3,790mm
FINES CONVEYOR (LEFT)	
Width	900mm
Stacking Height	4,380mm
OPERATING DIMENSIONS	
Operating Width	14,010mm
Operating Length	14,450mm
Operating Height	4,380mm
TRANSPORT DIMENSIONS	
Transport Width	2,550mm
Transport Length	11,296mm

3,330mm

SCALPING SCREEN

KEESTRACK K6

They are Built for the absolute best performance that can be achieved while maintaining mobile characteristics. Keestracks K6 Scalping screening is constructed to handle hard abrasive rock and high throughput.

Introduced by Keestrack back in 1996 as part of their first to market direct feed mobile scalping screens the K6 is the most mature mobile scalping screen on the market with years of R & D in it. Every part is designed and manufactured by Keestrack for a machine of the highest quality.





Steel Plate Apron Feeder Comes with a Steel Plate Apron Feeder as standard for heavy-duty work and increased lifespan.



Large Screen Box The large screen box allows for high production screening regardless of input feed.



Hopper Split back-wall allowing for three different feeding heights.



Steel Hydraulic Lines Steel Lines offer better heat dissipation, reduced risk of hose burst and easier repairability.



Fast Screen Change Easily change meshes and punch plates with simple removal and tensioning.



Remote Control Start, stop, track and adjust screening parameters with the wireless remote.





Proven across New Zealand and the world in various applications including but not limited to:

- Top soil
- Compost/barks
- Aggregates
- Limestone
- Demolition material Asphalt

Operation Mode



Transport Mode





OVERVIEW





8.1 m²

30,000 kg

Hopper 8 m³

SPECIFICATIONS	
Operating Weight	30,000Kg
POWER UNIT	
Engine	Deutz 3.6 L4 - 90 kW at 2,000 rpm
FEED HOPPER	
Capacity	8m ³
Feeding Height	2,420mm
Feeding Width	3,100mm
Feeding Length	4,400mm
PLATE APRON FEEDER	
Width	1,300mm
SCREEN BOX	
Decks	Double Deck - 3 way split
Length	4,500mm
Width	1,800mm
OVERSIZE CONVEYOR (FRONT)	
Width	1,500mm
Stacking Height	3,400mm
MIDDLE FRACTION CONVEYOR	(RIGHT)
Width	800mm
Stacking Height	3,750mm
FINES CONVEYOR (LEFT)	
Width	1,000mm
Stacking Height	3,700mm
OPERATING DIMENSIONS	44.400
Operating Width	14,400mm
Operating Length	15,400mm
Operating Height	3,750mm
TRANSPORT DIMENSIONS	
Transport Width	2,720mm
Transport Length	13,360mm
Transport Height	3,180mm

SCALPING SCREEN

KEESTRACK K7

Keestrack's second-largest mobile scalping screen the K7 is made for serious screening operations looking for the highest productivity from a single machine. The K7 features extra high stacking conveyors and a huge feed hopper to have the operation running at peak efficiency. Built with a heavy-duty screen box to handle the most abrasive rock through to concrete the K7 can outperform in any situation.





Steel Plate Apron Feeder Comes with a Steel Plate Apron Feeder as standard for heavy-duty work and increased lifespan.



Large Screen Box The large screen box allows for high production screening regardless of input feed.



Fast Screen Change Easily change meshes and punch plates with simple removal and tensioning.



Steel Hydraulic Lines Steel Lines offer better heat dissipation, reduced risk of hose burst and easier repairability.



Robust Track Frame Integrating the tracks onto the frame reduces stress points and weight.



Remote Control Start, stop, track and adjust screening parameters with the wireless remote.





Proven across New Zealand and the world in various applications including but not limited to:

- Top soil
- Compost/barks
- Aggregates
- Limestone
- Demolition materialAsphalt

Operation Mode



Transport Mode





OVERVIEW





ł	Hopper	-

8.6 m²

32,000 kg

8 m³

SPECIFICATIONS	
Operating Weight	32,000Kg
POWER UNIT	
Engine	CAT C4.4 - 98 kW at 1,800 rpm
EED HOPPER	
Capacity	8m ³
Feeding Height	2,620mm
Feeding Width	3,100mm
Feeding Length	4,400mm
PLATE APRON FEEDER	
Vidth	1,300mm
SCREEN BOX	
Decks	Double Deck - 3 way split
ength	4,800mm
Vidth	1,800mm
OVERSIZE CONVEYOR (FRONT)	
Vidth	1,500mm
Stacking Height	3,400mm
MIDDLE FRACTION CONVEYOR	(RIGHT)
Vidth	1,000mm
Stacking Height	3,750mm
FINES CONVEYOR (LEFT)	
Vidth	1,000mm
Stacking Height	3,700mm
PERATING DIMENSIONS	
Dperating Width	14,400mm
Dperating Length	15,400mm
Dperating Height	3,750mm
RANSPORT DIMENSIONS	
Fransport Width	2,720mm
Fransport Length	13,360mm
Fransport Height	3,380mm

SCALPING SCREEN



KEESTRACK K8e

The largest direct feed screens in the Keestrack lineup the K8e is built with a difference. Fitted with a massive 12m2 double deck screen, this machine is built specifically for 'difficult to screen' bulk materials. With the option of changing the standard screen box out for a vibrating flip flow screen, this machine can be a massive producer of fine and damp material.





Steel Plate Apron Feeder Comes with a Steel Plate Apron Feeder as standard for heavy-duty work and increased lifespan.



Hopper Split back-wall for 3 different feeding heights.



Remote Control Start, stop, track and adjust screening parameters with the wireless remote.



Large Screen Box The large screen box allows for high production screening regardless of input feed.



Steel Hydraulic Lines Steel Lines offer better heat dissipation, reduced risk of hose burst and easier repairability.


Applications



Proven across New Zealand and the world in various applications including but not limited to:

- Top soil
- Compost/barks
- Aggregates • Limestone

Operation Mode



Transport Mode





OVERVIEW



Weight

Hopper

 $12 \, \text{m}^2$

44,500 kg

10 m³

SPECIFICATIONS	
Dperating Weight	44,500Kg
POWER UNIT	
Engine	Volvo TAD 552 VE - 160 kW at 1,800 rpm
EED HOPPER	
Capacity	10m ³
Feeding Height	3,500mm
Feeding Width	3,400mm
Feeding Length	4,400mm
PLATE APRON FEEDER	
Vidth	1,600mm
SCREEN BOX	
Decks	Double Deck - 3 way split
ength	6,000mm
Vidth	2,000mm
VERSIZE CONVEYOR (FRONT)	
Vidth	1,500mm
Stacking Height	4,109mm
MIDDLE FRACTION CONVEYOR	(RIGHT)
Vidth	1,000mm
Stacking Height	3,450mm
FINES CONVEYOR (LEFT)	
Vidth	1,000mm
Stacking Height	4,096mm
OPERATING DIMENSIONS	
Dperating Width	14,800mm
Dperating Length	17,400mm
Dperating Height	4,370mm
RANSPORT DIMENSIONS	
Fransport Width	2,900mm
Fransport Length	16,200mm
Fransport Height	3,625mm

JAW CRUSHER

KEESTRACK B3

Boasting the largest Jaw opening in its size range the B3 is an ideal Primary Crusher for operations looking to maximise their productivity potential. The B3 features many of Keestrack innovations in the Jaw crushing range like the NSS jaw crushing system, automatic wear recovery and a large eccentric throw.





Remote Control Start, stop, track and adjust crushing parameters with the wireless remote.



Steel Hydraulic Lines Steel Lines offer better heat dissipation, reduced risk of hose burst and easier repairability.



NSS Jaw Protection System Hydraulic and Electronic systems prevent jaw damage and overload while increasing productivity.



Reversible Jaw Drive Reverse the Jaw drive action to fluff up material like asphalt or in the case of oversize or sticky material unblock it.



Low Fuel Consumption With a low emission norms engine and a highly optimised drive system, the B3 has the lowest fuel usage in it's segment.



Large Hydraulic Magnetic Belt Hydraulically lift or lower for maximum steel extraction and easy removal of blockages.

Applications



Proven across New Zealand and the world in various applications including but not limited to:

- Aggregates
- Gravel
- Limestone
- Coal
- Concrete Recycling
- Gravel

Operation Mode



Transport Mode





OVERVIEW

SF





Hopper

4 m³

30,640 kg

SPECIFICATIONS	
Operating Weight	30,640Kg
Engine	at 1,500 rpm
VIBRATING FEED HOPPER	
Capacity	4m ³
Feeding Height	3,700mm
Feeding Width	2,300mm
Feeding Length	4,100mm
PRE-SCREEN	
Width	920mm
Length	1,730mm
PRE-SCREEN CONVEYOR	
Width	500mm
Stacking Height	2,595mm
JAW CRUSHER	
Opening size	1,000mm x 650mm
Outlet Adjustment (C.S.S.)	45mm - 160mm
Feed Size	0-550mm
	Hydraulic and Electronic Management
Swing Crusher	with NSS
MAIN CONVEYOR	
Width	800mm
Stacking Height	3,100mm
MAIN CONVEYOR (option 2)	
Width	1,000mm
Stacking Height	3,736mm
OPERATING DIMENSIONS	
Operating Width	5,525mm (with pre-screen conveyor)
Operating Length	12,300mm
Operating Height	3,700mm
TRANSPORT DIMENSIONS	
Transport Width	2,540mm
Transport Length	12,435mm
Transport Height	3,100mm

JAW CRUSHER

KEESTRACK B4

High efficiency and high-quality product output sets the B4 apart as an ideally suited front line Jaw Crusher, capable of producing more crushed faces for the best sale price and featuring technical innovations that bring running and maintenance costs down with the reduced risk of downtime.





NSS Jaw Protection System Hydraulic and Electronic systems prevent jaw damage and overload while increasing productivity.



Sliding Hopper Gain effortless access to the pre-screen decks and the rear of the Jaw crusher for maintenance and wear part replacement.



Double Deck Pre-Screen Remove unwanted fines before the jaw crushing compartment for better performance and decreased wear.



Rigid Frame The Domex high-tensile strength steel frame makes the B4 lighter and stronger than other models.



Large Hydraulic Magnetic Belt Hydraulically lift or lower for maximum steel extraction and easy removal of blockages.



User-Friendly PLC Unit The large screen PLC makes it easy to control, monitor and tune the Jaw crusher for maximum production.



Applications



Proven across New Zealand and the world in various applications including but not limited to:

- Aggregates
- Limestone
- Concrete Recycling





Transport Mode





OVERVIEW





Hopper

46,000 kg

5 m³

ODEOLEIOATIONO	
SPECIFICATIONS	
Operating Weight	46,000Kg
POWER UNIT	
Engine	Volvo tad 754 Ge - 251 kW / 1.500 rpm
VIBRATING FEED HOPPER	
Capacity	5m ³
Feeding Height	4,070mm
Feeding Width	2,965mm
Feeding Length	2,800mm
PRE-SCREEN	
Decks	Double Deck
Width	1,000mm
Length	2,300mm
PRE-SCREEN CONVEYOR	
Width	800mm
Stacking Height	2,955mm
JAW CRUSHER	
Opening size	1,100mm x 700mm
Outlet Adjustment (C.S.S.)	45mm - 160mm
Feed Size	0-600mm
Swing Crusher	Hydraulic and Electronic Management with N.S.S.
MAIN CONVEYOR	
Width	1,000mm
Stacking Height	3,800mm
OPERATING DIMENSIONS	
Operating Width	5,900mm (with pre-screen conveyor)
Operating Length	15,590mm
Operating Height	4,070mm
TRANSPORT DIMENSIONS	
Transport Width	2 700mm
Transport I ength	14 500mm
Transport Height	3 200mm
nanoport neight	0,200mm

JAW CRUSHER

KEESTRACK B6e

Powerful primary crushing for large and tough rock using technological innovations to produce a lower cost per tonne. Keestracks B6e Jaw Crusher features the ability to crush rock up to 700mm and combines a double deck pre-screen to size material before it enters the crushing chamber, resulting in less wear and cost to the operation to get the very best end product.





Double Deck Pre-Screen Remove unwanted fines before the jaw crushing compartment for better performance and decreased wear.



Steel Hydraulic Lines Steel Lines offer better heat dissipation, reduced risk of hose burst and easier repairability.



Large Hydraulic Magnetic Belt Hydraulically lift or lower for maximum steel extraction and easy removal of blockages.



User Friendly PLC Unit The large screen PLC makes it easy to control, monitor and tune the Jaw crusher for maximum production.



Maintenance Access Simple access to the engine bay, wear and serviceable parts make maintenance quicker and easier.



NSS Jaw Protection System Hydraulic and Electronic systems prevent jaw damage and overload while increasing productivity.

• B

Applications



Proven across New Zealand and the world in various applications including but not limited to:

- Aggregates
- Limestone
- Concrete Recycling

Operation Mode



Transport Mode





OVERVIEW





I	Hopper	-

5 m³

380 tph

60,000 kg

SPECIFICATIONS	
Operating Weight	60,000Kg
POWER UNIT	
Engine	Volvo TAD 1351 GE - 279 kW at 1,500 rpm
VIBRATING FEED HOPPER	
Capacity	5m ³
Feeding Height	4,180mm
Feeding Width	2,890mm
Feeding Length	4,810mm
PRE-SCREEN	
Decks	Double Deck
Width	1,000mm
Length	2,300mm
PRE-SCREEN CONVEYOR	
Width	800mm
Stacking Height	3,100mm
JAW CRUSHER	
Opening size	1,150mm x 800mm
Outlet Adjustment (C.S.S.)	55mm - 215mm
Feed Size	0 - 700mm
Swing Crusher	Hydraulic and Electronic Management with N.S.S.
MAIN CONVEYOR	
Width	1,200mm
Stacking Height	4,120mm
OPERATING DIMENSIONS	
Operating Width	5,895mm (with pre-screen conveyor)
Operating Length	16,745mm
Operating Height	4,180mm
TRANSPORT DIMENSIONS	
Transport Width	2.800mm

Transport Width

Transport Length

Transport Height

2,890mm 15,235mm 3,530mm

JAW CRUSHER

KEESTRACK B7e

The largest of the Keestrack Jaw Crusher range, this Hybrid Jaw Crusher boasts an impressive 1,200 x 800mm Jaw opening. With unrivalled production, the B7e can also form the core of a large scale quarry with its removable power unit to power the crushing and screening chain.





User Friendly PLC Unit The large screen PLC makes it easy to control, monitor and tune the Jaw crusher for maximum production.



NSS Jaw Protection System Hydraulic and Electronic systems prevent jaw damage and overload while increasing productivity.



Sliding Hopper Gain effortless access to the pre-screen decks and the rear of the Jaw crusher for maintenance and wear part replacement.



Reversible Jaw Drive Reverse the Jaw drive action to fluff up material like asphalt or in the case of oversize or sticky material unblock it.



Double Deck Pre-Screen Remove unwanted fines before the Jaw crushing compartment for better performance and decreased wear.



Remote Control Start, stop, track and adjust crushing parameters with the wireless remote.

B

Applications



Proven across New Zealand and the world in various applications including but not limited to:

- Aggregates
- Limestone
- Concrete Recycling

Operation Mode



Transport Mode





OVERVIEW







420 tph

67,120 kg

SPECIFICATIONS	
Operating Weight	67,120Kg
POWER UNIT	
Engine	Volvo TAD 1351 GE - 279 kW at 1,500 rpm
VIBRATING FEED HOPPER	
Capacity	6m ³
Feeding Height	4,375mm
Feeding Width	3,000mm
Feeding Length	3,350mm
Integrated Pre-Screen	2,200mm x 1,080mm
PRE-SCREEN CONVEYOR	
Width	800mm
Stacking Height	3,100mm
JAW CRUSHER	
Opening size	1,200mm x 800mm
Outlet Adjustment (C.S.S)	75mm - 250mm
Feed Size	0-700mm
Swing Crusher	Hydraulic via wedge
MAIN CONVEYOR	
Width	1,200mm
Stacking Height	4,270mm
OPERATING DIMENSIONS	
Operating Width	5,800mm (with pre-screen conveyor)
Operating Length	16,840mm
Operating Height	4,325mm
TRANSPORT DIMENSIONS	
Transport Width	3,000mm
Transport Length	15,131mm
Transport Height	3,675mm

IMPACT CRUSHER

KEESTRACK R3 - 48

The Keestrack R3 Impact Crusher is one of our most popular crushers; being easily transportable, compact, highly productive and cost-effective. It features the largest rotor in it's class, along with class defining features like an integrated pre-screen, load sensing hydraulics and closed-circuit after-screen. The R3 revolutionises any application for both contractors, small quarries and large multi-site applications due to its incredible versatility.





User Friendly PLC Unit The large screen PLC makes it easy to control, monitor and tune the Impact Crusher for maximum production.



Steel Hydraulic Lines Steel Lines offer better heat dissipation, reduced risk of hose burst and easier repairability.



Optimum Blow Bar Placement Blow bars are placed in the optimum position to allow for high utilisation.



Integrated Pre-screen The integrated vibrating pre-screen allows for fines to be removed and stockpiled.



Easy Maintenance Large doors to key parts like the engine, filters and rotor allows for easy access and maintenance.

Applications



Proven across New Zealand and the world in various applications including but not limited to:

- Aggregates
- Concrete recycling
- Stone

• Asphalt recycling

- Rubble

- Roadbase

Operation Mode



Transport Mode





OVERVIEW





Hopper

280 tph

30,200 kg

3.5 m³

SPECIFICATIONS	
Operating Weight	30,200Kg
POWER UNIT	
Engine	Volvo TAD 754 GE - 260 kW
	at 1,800 rpm
VIBRATING FEED HOPPER	
Capacity	3.5m ³
Feeding Height	3,100mm
Feeding Width	2,400mm
Feeding Length	3,450mm
Integrated Pre-Screen	1,200mm x 920mm
IMPACT CRUSHER	
Inlet opening size	770mm x 960mm
Rotor Width	920mm
Rotor Diameter	1,100mm
Rotor Weight	3,200kg
Rotor Speed	603 - 710 RPM
Throughput Capacity	Up to 250 tph
POST SCREEN	
Length	2,800mm
Width	1,200mm
MAIN FINES CONVEYOR	
Width	1,000mm
Stacking Height	3,220mm
OPERATING DIMENSIONS	
Operating Width	5,219mm (with side scalping conveyor)
Operating Length	14,218mm
Operating Height	3,126mm
TRANSPORT DIMENSIONS	
Transport Width	2,540mm
Transport Length	12,584mm
Transport Height	3,100mm

IMPACT CRUSHER

KEESTRACK R3 - 49

The Keestrack R3 impact crusher with plug-in function and hybrid drive to save on energy costs with highest productivityin its weight class.





User Friendly PLC Unit The large screen PLC makes it easy to control, monitor and tune the Impact Crusher for maximum production.



Steel Hydraulic Lines Steel Lines offer better heat dissipation, reduced risk of hose burst and easier repairability.



Optimum Blow Bar Placement Blow bars are placed in the optimum position to allow for high utilisation.



Integrated Pre-screen The integrated vibrating pre-screen allows for fines to be removed and stockpiled.



Easy Maintenance Large doors to key parts like the engine, filters and rotor allow for easy access and maintenance.

Applications



Proven across New Zealand and the world in various applications including but not limited to:

- Aggregates
- Stone • Roadbase
- Concrete recycling
- Rubble
- Asphalt recycling

- Coal and others

Operation Mode



Transport Mode





OVERVIEW

S





1	
Hopper	

300 tph

30,200 kg

35	m ³
0.0	

SPECIFICATIONS	
Operating Weight	30,200Kg
POWER UNIT	
Engine	Volvo TAD 754 GE - 260 kW
	at 1,800 rpm
VIBRATING FEED HOPPER	
Capacity	3.5m ³
Feeding Height	3,200mm
Feeding Width	2,400mm
Feeding Length	3,450mm
Integrated Pre-Screen	1,200mm x 920mm
IMPACT CRUSHER	
Inlet opening size	770mm x 960mm
Rotor Width	920mm
Rotor Diameter	1,100mm
Rotor Weight	3,200kg
Rotor Speed	591 - 709 RPM
Throughput Capacity	Up to 250 tph
POST SCREEN	
Length	3,100mm
Width	1,400mm
MAIN FINES CONVEYOR	
Width	1,000mm
Stacking Height	3,126mm
OPERATING DIMENSIONS	
Operating Width	4,760mm (with side scalping conveyor)
Operating Length	14,218mm
Operating Height	2,715mm
TRANSPORT DIMENSIONS	
Transport Width	2,540mm
Transport Length	12,900mm
Transport Height	3,200mm

IMPACT CRUSHER

KEESTRACK R5

Keestrack's R5 Impact Crusher has extensive customisation options with an advanced design for the sole purpose of making it a high yield and easy to maintain machine. The R5 is a technologically advanced machine to improve productivity, reduce operational risk and downtime. The R5 is the perfect crusher to enhance an already well-performing operation and take it to the next level. With features like a tilting chassis, direct crusher drive, intelligent controls and long pre-screen it will become your star performer.



Key Benefits



Swivelling Oversize Conveyor Swivel the oversize conveyor to either stockpile the oversize or recirculate through the impactor.



Rigid Frame The Domex high-tensile strength steel frame makes the R5 lighter and stronger

than other models on the market.



Double Deck After-Screen Make up to three crushed end products or perfect your end product by recirculating oversize for the best end product quality.



Hydraulic Tilting Chassis The R5 can tilt it's chassis enabling easy transporter loading, levelling on uneven terrain and better screen performance.



Easy Maintenance Large doors to key parts like the engine, filters and rotor allow for easy access and maintenance.



Integrated Pre-screen The integrated vibrating pre-screen allows for fines to be removed and stockpiled.

Applications



Proven across New Zealand and the world in various applications including but not limited to:

- Aggregates
- Concrete recycling
- Stone
- Rubble

- Roadbase

• Asphalt recycling

Operation Mode



Transport Mode





OVERVIEW

SF





Hopper

5 m³

400 tph

50,170 kg

SPECIFICATIONS	
Operating Weight	50,170Kg
POWER UNIT	
Engine	Volvo TAD 1354 GE - 328 kW at 1,500 rpm
VIBRATING FEED HOPPER	
Capacity	5m ³
Feeding Height	3,692mm
Feeding Width	2,900mm
Feeding Length	3,800mm
PRE-SCREEN	
Decks	Double Deck
Width	1,000mm
Length	2,200mm
IMPACT CRUSHER	
Inlet opening size	800mm x 1,050mm
Rotor Width	1,000mm
Rotor Diameter	1,260mm
Rotor Weight	5,100kg
Rotor Speed	456 - 563 RPM
POST SCREEN	
Decks	Double Deck
Length	3,300mm
Width	1,500mm
MAIN FINES CONVEYOR	
Width	1,200mm
Stacking Height	3,660mm
OPERATING DIMENSIONS	
Operating Width	5,800mm (with pre-screen conveyor)
Operating Length	19,000mm
Operating Height	3,500mm
TRANSPORT DIMENSIONS	
Transport Width	3,000mm
Transport Length	16,860mm
Transport Height	3,490mm

IMPACT CRUSHER

KEESTRACK R6

Unrivalled in performance the Keestrack R6 mobile impact crusher has one of the largest hoppers and output capacity of the Keestrack machines. It is designed to take your already good-sized operation to the next level. Highly technically advanced with all the great features and more of the smaller Keestrack R5. This beast features a huge 6.1-tonne rotor and massive pre-screen and double-deck after screen.





Hydraulic Tilting Chassis Allows the R6 to easily adjust to loading onto a transporter and levelling on the machine on uneven terrain.



Swivelling Oversize Conveyor Use the oversize conveyor to either return for crushing or stockpile the oversize stone for later crushing.



Double Deck Pre-Screen The R6 can be set up to remove fines before getting to the primary crushing compartment, increasing performance.



Double Deck After-Screen Create up to three crushed end products or perfect your end product by recirculating oversize for the best end-product quality.



Steel Hydraulic Lines Steel Lines offer better heat dissipation, reduced risk of hose burst and easier repairability.



Remote Control Start, stop, track and adjust crushing parameters with the wireless remote.

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Applications



Proven across New Zealand and the world in various applications including but not limited to:

- Aggregates
- Concrete recycling
- Stone

• Asphalt recycling

- Rubble

- Roadbase

Operation Mode



Transport Mode





OVERVIEW

SP







7 m³

500 tph

61,000 kg

SPECIFICATIONS		
Operating Weight	61,000Kg	
POWER UNIT		
Engine	Volvo TAD 1650 GE - 439 kW	
-	at 1,500 rpm	
VIBRATING FEED HOPPER		
Capacity	7m ³	
Feeding Height	3,870mm	
Feeding Width	2,800mm	
Feeding Length	4,950mm	
PRE-SCREEN		
Decks	Double Deck	
Width	1,250mm	
Length	3,100mm	
IMPACT CRUSHER		
Inlet opening size	970mm x 1,300mm	
Rotor Width	1,250mm	
Rotor Diameter	1,267mm	
Rotor Weight	6,100kg	
Rotor Speed	443 - 532 RPM	
Throughput Capacity	Up to 450 tph	
DOST SOREEN		
Decks	Double Deck	
Length	4 500mm	
Width	1.500mm	
	1,0001111	
MAIN FINES CONVEYOR	4.000	
Width	1,200mm	
Stacking Height	4,150mm	
OPERATING DIMENSIONS		
Operating Width	11,800mm (with pre-screen conveyor)	
Operating Length	20,100mm	
Operating Height	4,150mm	
TRANSPORT DIMENSIONS		
Transport Width	3,200mm	
Transport Length	17,800mm	
Transport Height	3,670mm	

CONE CRUSHER

KEESTRACK H4e

Keestracks innovatively designed cone crusher this machine uses a removable diesel Genset to power the cone and hydraulic e-motors. Exceptionally fuel-efficient and powerful the H4e will crush the toughest of rock and ore effectively.

Additionally equipped with up to a triple deck after screen this Cone can be used for primary, secondary, tertiary, or quaternary crushing.





Volvo Genset Comes standard with the Volvo TAD fixed speed engines, running at 1,500 Rpm and euro stage IIIA rated.



Rigid Frame Built from a Domex high-tensile strength steel frame means the H4e is lighter and more robust.



Triple Deck After Screen Allows flexibility in material production to produce more crushed and shaped end products with just one machine.



Advanced Cone It features an advanced pressurised Cone with Constant liner performance through the life of the liner.



Remote Control Start, stop, track and adjust crushing parameters with the wireless remote.



Longlife E-Motors E-Motors require less maintenance, produce more power and outlast equivalent hydraulic motors.

H4e

Applications



Proven across New Zealand and the world in various applications including but not limited to:

- Limestone
- Aggregates
- Chip

Operation Mode



Transport Mode





OVERVIEW

SPE







300 tph

42,300 kg

SPECIFICATIONS		
Operating Weight	42,300Kg	
POWER UNIT		
Engine	Volvo TAD 1354 GE - 328 kW at 1,500rpm	
VIBRATING FEED HOPPER		
Capacity	8m ³	
Feeding Height	3,400mm	
Feeding Width	3,450mm	
Feeding Length	3,800mm	
CONE CRUSHER		
Max Feed Size	EC: 185mm, C: 145mm, MC: 115mm, M: 90mm, MF: 75mm, F: 50mm	
C.S.S. Settinas	EC + C: 13-38mm, MC + M: 10-32mm MF: 8-25mm, F: 6-25mm	
Weight	9,200kg	
MAIN OUTPUT CONVEYOR		
Width	1,000mm	
Stacking Height	4,000mm	
POST SCREEN		
Decks	Triple Deck - 4 Way Split	
Length	3,600mm	
Width	1,500mm	
FINES CONVEYOR		
Width	1,200mm	
Stacking Height	3,760mm	
OPERATING DIMENSIONS		
Operating Width	9,960mm	
Operating Length	18,405mm	
Operating Height	3,760mm	
TRANSPORT DIMENSIONS		
Transport Width	3,000mm	
Transport Length	17,580mm	
Transport Height	3,450mm	

CONE CRUSHER

KEESTRACK H6e

The largest in the cone crusher range, this secondary crusher is the machine to turn up the production of any high capacity quarry in NZ. Keestracks innovatively designed cone crusher this machine uses a removable diesel Genset to power the cone and hydraulic e-motors. Exceptionally fuel-efficient and powerful the H6e will crush the toughest of rock and ore effectively. Additionally equipped with up to a triple deck after screen this Cone can be used for as a secondary, tertiary, or quaternary crusher.





Advanced Cone It features an advanced pressurised Cone with Constant liner performance through the life of the liner.



Triple Deck After Screen Allows flexibility in material production and can easily be used in primary crushing applications.



Rigid Frame Built from a Domex high-tensile strength steel frame means the H6e is lighter and more robust.



Hopper Split back-wall for 3 different feeding heights.



Engine Unit It has a noise-absorbing canopy with a dust filter to keep out dust from the diesel engine.



Remote Control Start, stop, track and adjust crushing parameters with the wireless remote.

H6e

Applications



Proven across New Zealand and the world in various applications including but not limited to:

- Limestone
- Aggregates
- Chip

Operation Mode



Transport Mode





OVERVIEW







415 tph

60,750 kg

8 m³

SPECIFICATIONS		
Operating Weight	60,750Kg	
POWER UNIT		
Engine	Volvo TAD 1354 - 328 kW at 1,500 rpm	
VIBRATING FEED HOPPER		
Capacity	8m ³	
Feeding Height	3,700mm	
Feeding Width	3,980mm	
Belt Feeder Width	1,200mm	
CONE CRUSHER		
Max Feed Size	EC: 215mm, C: 175mm, MC: 140mm, M: 110mm, MF: 85mm, F: 70mm EF: 38mm	
C.S.S. Settings	EC: 16-44mm, C + MC + M: 13-38mm MF + F: 10-32mm, EF: 6-7.5mm	
Capacity	Up to 415 tph	
MAIN CONVEYOR		
Width	1,200mm	
Stacking Height	4,800mm	
POST SCREEN		
Decks	Triple Deck - 4 Way Split	
Length	4,500mm	
Width	1,800mm	
FINES CONVEYOR		
Width	1,200mm	
Stacking Height	4,160mm	
OPERATING DIMENSIONS		
Operating Width	10,500mm	
Operating Length	20,720mm	
Operating Height	4,100	
TRANSPORT DIMENSIONS		
Transport Width	3,000mm	
Transport Length	20,329mm	
Transport Height	3,653mm	

CONVEYOR SYSTEMS

KEESTRACK S3 & S5

Able to stack piles of processed material up to 9.3m high or 15,000 tonnes of rock, the Keestrack S3 & S5 Stackers are a high productivity machine made to enhance a quarries processing equipment and plant. Built for mobility; S3/S5 is also rugged with a tracked drive system and hardened steel and wear part construction.





Heavy duty Feeding Chute The chute liners are made of Hardox steel for longer wear life, less wear cost and time spent swapping them out.



Full Mobility Independently powered and tracked the Stacker can be moved around the site quickly.



Hydraulically Adjustable Stacking It has an adjustable stacking height of 9.35m to 6.05m with a maximum 500tph throughput.



Steel Hydraulic Lines Steel Lines offer better heat dissipation, reduced risk of hose burst and easier repairability.

S3 & S5

Applications



Proven across New Zealand and the world in various applications including but not limited to:

- Stockpiling
- Transport
- LoadingSorting and others

Operation Mode



Transport Mode





Operating Weight	10,300Kg	
POWER UNIT		
Engine	Deutz D 2011 L04 - 29.4 kW at 1500rpm	
BELT CONVEYOR		
Width	800mm	
Length	18,000mm	
Stacking height	7,780mm	
Feed capacity	up to 250 tph	
OPERATING DIMENSIONS		
Operating Width	2,290mm	
Operating Length	16,200mm	
Operating Height	7,780mm	
TRANSPORT DIMENSION	S	
Transport Width	2,290mm	
Transport Length	11,900mm	
Transport Height	2,330mm	
OVERVIEW		



Weight 12,200 kg

Length

S5 SPECIFICATIONS	
Operating Weight	12,200kg
POWER UNIT	
Engine	Deutz TD 2011 L4 - 35.2 kW at 1,800rpm
BELT CONVEYOR	
Width	1,000mm
Length	23,000mm
Stacking height	9,350mm
OPERATING DIMENSIONS	
Operating Width	2,290mm
Operating Length	21,200mm
Operating Height	9,350mm
TRANSPORT DIMENSIONS	
Transport Width	2,290mm
Transport Length	12,000mm
Transport Height	2,760mm

CONVEYOR SYSTEMS



EQUIP2 S2

A great range of smaller wheeled mobile conveyors for use as stockpiling conveyors or link conveyors for a wide variety of applications. These conveyors are dependable, versatile and provide Excellent value for money.



Key Benefits



Radial Stacking

Designed to simply radial stack - easily change the direction of the wheels and you have a radial stacker rotating around the pivot table at the feeding end.



Hydraulic Couplings Coming complete with Extra hoses and hydraulic couplings this machine is ready to be plumbed up straight away to your primary machine.

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UW	FRV		
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Transport Height





3,500 kg

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15 m

SPECIFICATIONS POWER UNIT Coupled onto suitable primary machine or power pack **BELT FEEDER** Width 750mm Length 15,000mm Stacking height 7,009mm **OPERATING DIMENSIONS Operating Width** 2,000mm **Operating Length** 13,500mm **Operating Height** 7,009mm TRANSPORT DIMENSIONS **Transport Width** 2,000mm **Transport Length** 11,900mm

3,221mm

KEESTRACK K4 SCALPING SCREEN

TINY SHAILER HOOPER CONTRACTING LTD

"We're a proud owner of the Keestrack K4. We're doing reclaimed, sieving rocks and all that. One of the best screens I've used, pretty versatile, you can do everything from the cab of the digger.

I throw some pretty decent rocks over it, and she still chews it up and keeps going. The Backup staff from Equip2 is very good, no complaints".

HOW KEESTRACK IMPACT CRUSHERS WORK!

An Impact Crusher could be described as a 'rock smasher' via a fast-moving rotor with a large mass hitting the rock, causing it to fracture. In this article, we'll delve a little deeper into the principles of impact crushers and how they work to produce in-spec aggregate products.

WHAT A KEESTRACK CRUSHING COMPARTMENT LOOKS LIKE

Keestrack R3 Impact Crushing Chamber

1. Chains:

The chains stop large feed material from being rebounded out of the crushing chamber.

2. Curtain:

The curtain prevents smaller debris from being rebounded out of the crushing chamber.

3. Primary Apron:

The Primary Apron is responsible for the first crushing reduction and is adjustable hydraulically to a GAP setting (the gap between the apron and blow bars.)

4. Secondary Apron:

The Secondary Apron is what produces the final product; its GAP setting is what the final product should be crushed to on exiting the chamber.

5. Rotor:

The Rotor is the large moving part of the crusher and holds Blow Bars. The Rotor itself doesn't do any crushing but provides weight and inertia to the Blow Bars.

6. Blow Bars: The Blow Bars are the primary crushing component, also referred to as hammers. The impact these provide imparts energy to the material, causing it to fracture, it also directs the material to the Aprons for additional crushing.





WHY CHOOSE A KEESTRACK IMPACT CRUSHER?

One machine, that does two jobs

An Impact Crusher has more adjustability and variability to its operation than a Jaw or Cone crusher; this is due to its ability to fulfil both crushers' roles in one machine, that is primary and secondary crushing.

An Impact Crusher can reduce an input material to a higher ratio than a standalone Jaw or Cone Crusher; it does this via the use of two aprons suspended over the rotor. Each apron is responsible for 1/2 of the crushing reduction with the 1st apron accountable for the primary crushing operation and 2nd apron fulfilling the secondary crushing; each usually set at 1/3 jumps.

1. Reduction 1:

The Primary Apron produces the first reduction in feed size; generally this is 1/3 of the initial size of the product. Until crushed down to pass it will stay in this part of the chamber

2. Reduction 2:

The Secondary Apron takes the material from the Primary Apron and reduces it again: it generally is set to 1/3 of the Primary Apron or 2/3 of the Feed Material.

3. Feed Material:

The input material will determine the optimal crusher settings including the Apron GAP size due to the crushing force that the Rotor and Blow Bars can impart.



CRUSHING EXAMPLE

Using a Keestrack R3

A suitably set up Impact Crusher will have feed pushed through the crushing compartment at 65% capacity (generally speaking, more fines will mean a lower capacity to reduce clogging). The reduction ratio of an Impact Crusher is stipulated in the operating manual; in this example, we will use a Keestrack R3 which is capable of a 1:10 reduction ratio by itself or 1:20 with an after screen and oversize recirculation conveyor.

1. Reduction 1:

The Primary Apron it set to 150mm, the measurement is the distance from the Blow Bars when new. This is 1/3 of the materials original size.

2. Reduction 2:

The Secondary Apron is set to 40m; the measurement is the distance from the Blow Bars when new. This is 1/3 of the size of the material from the first reduction.

3. Feed Material:

Input material is Alluvial Graywacke with a feed size up to 400mm across.

CRUSHING FORCES IN THE CRUSHING COMPARTMENT

How Rock is Fractured

1. Blow Bars

The impact imparted by the blow bar makes up approximately 75% of the total crushing work done in an Impact Crusher.

2. Aprons

The impact between material and aprons makes up approximately 20% of the total crushing work done in an Impact Crusher.

Autogenous Crushing

Autogenous or Rock on Rock impacts makes up approximately 5% of the total crushing work done in an Impact Crusher. Although this can be increased with proper load and capacity management as this type of crushing produces no wear.

Crushing Reductions And Ratios









MATERIAL FACTORS AND IMPACT CRUSHERS

Tuning Impactors to the Feed

Below are some factors and how Impact Crushers can be set up to compensate:

High Fines Content

All of Equip2's Impact Crushers are equipped with prescreens to remove fines that are unwanted in the produced product. Fines increase wear as they have a friction quality to them and removing them means less wear and more throughput.

No Large Rock to Crush

When there is no feed over 100mm like out of some regional rivers, Impact Crushers are preferred to be set up with four blow bars for more hits per pass; fines tend to bounce rather than fracture so more passes mean more hits. Additionally, Ceramic (or harder) blow bars have a higher tolerance for friction over heavier impacts, reducing wear from processing fines.

Very Soft Material

Soft material has the downside of being too easy to crush and is pulverised into fines on impact. Impact Crushers, in this situation, may produce an end product with too many fines regardless of the apron GAP setting. In this instance, using two blow bars at a low power setting and a reduced rotor velocity will reduce over energised impacts. Since the initial impact is more than enough to break the feed material down the primary apron can be opened up further to allow for higher input to the secondary apron to adequately size the material. Materials like Asphalt and Lime have these characteristics, and the impact from blow bars themselves is enough to break the product up.

HOW KEESTRACK IMPACT CRUSHERS SAVE MONEY

Superior Product Shape with One Machine

Impact Crushers when initially introduced to the market were almost exclusively used as secondary crushers to reduce consistent feed size to a well-graded cubical end product.

Since being brought to the market several decades ago, they have gone through numerous innovations and improvements, cementing them as excellent primary crushers for the last decade that can produce the same reduction ratio that two machines were initially needed to complete.

That's not to stay Jaw, and Cone Crushers have been wholly replaced or superseded, these also have their place in quarry and crushing operations with features and benefits over Impact Crushers.

How the Keestrack Range of Impact Crushers produces a more profitable product:

Less speed = Less wear

The high-speed characteristics of Impact Crushers can result in higher wear. Keestrack's entire range of Impact Crushers are built around reducing wear, by decreasing the speed necessary to impart energy to the feed material; this reduces wear on the blow bars and aprons with a more meaningful crushing action occurring from the first pass. Keestrack accomplishes this with heavier rotors that have higher inertia to them, resulting in more energy at a lower speed.

Less fuel usage

As mentioned above, Keestrack's Impact Crushers have a heavier rotor than other brands in the same weight and production class. This results in lower, not higher fuels costs, a more massive rotor is harder to slow down, so as it impacts the material, less energy is being sapped by the impact, meaning less load on the engine.

The Hydraulic system on Keestrack's Crushers features Load Sensing Pumps that, as their names suggest sense the load on the system and distribute hydraulic power to components accordingly. This feature directs the pumps generate and direct hydraulic power when needed as opposed to most systems that generate and restrict it to components resulting in unused power and fuel usage to produce it. This system saves most machine users around 20-25% in fuel costs, which can be equated to around \$10,000 a year.

Automation

All of Keestrack's machinery feature load, level and capacity sensors to determine what the machine is doing at any moment. By detecting what the crushing compartment is doing the machine can adjust the feeder speed to compensate to keep the crusher at its optimal set capacity. All of which is adjustable from the PLC.

Smart Features

In addition to the purpose-built cost-saving features, Keestrack Impact Crushers are also high-productivity friendly. With abilities like Wireless Remote adjustability of crushing and screening parameters on the fly as well as simultaneously allowing the operator to track and crush.

HOW KEESTRACK JAW CRUSHERS WORK!

Jaw Crushers are ubiquitous in Quarrying, Mining and Recycling across the world. Their widespread use can be attributed to their ease of use, simple design and powerful mechanical principles to achieve material and rock resizing. Invented back in 1858 by Eli Whitney Blake patented the Blake Jaw Crusher and is a testament to its sound mechanical engineering as it forms the basis of all modern Jaw Crushers today.

In terms of brute strength and simplicity, the Jaw is unsurpassed and is a common sight in heavy-duty rock and ore crushing.

KEESTRACK B4 JAW CRUSHER CHAMBER

1. Eccentric Shaft

The Eccentric Shaft is responsible for producing the 'rocking' movement that defines Jaw Crushers.

2. Swing Jaw

This is the moving Jaw component, driven by the eccentric shaft it swings forward with a downward motion to compress material against the fixed Jaw.

3. Fixed Jaw

As the name suggests, this Jaw is fixed in position. The swing Jaw pushes material onto it at up to 290 RPM.

4. C.S.S Adjustment Cylinders

The Hydraulic Rams push the Pivot Plate into the Swing Jaw to adjust the C.S.S Gap between the plates at the bottom of the Jaw Chamber. It pivots on a bracket just below the Eccentric Shaft.

5. Pivot Plate

The Pivot Plate is a wide plate that sits between the C.S.S Adjustment Cylinders and the Swing Jaw.





Today Single Toggle Jaw Crushers have been refined form this 160-year-old design. Using the Keestrack B4 as an example; we can see how modern technologies and design improvements further the field of high production material processing.

A Jaw Crusher uses compression-based crushing to resize material, unlike an Impact Crusher which uses impacts to break up material. In a V configuration, the Jaw Crusher has one Fixed Jaw and one Moveable Jaw. The Moveable Jaw (also known as a Swing Jaw) pivots on an Eccentric Shaft at the top of the Jaw; this has the effect of a 'rocking motion'. The motion carries down the Jaw where it also moves the bottom portion of the Swing Jaw.

Jaw Crushers are simply set by adjusting the C.S.S. (Closed Side Setting), the C.S.S. is the width of the opening during the compressive stroke (the stroke pushing the rock against the fixed Jaw).

The reverse of this is the O.S.S. (Open Side Setting), the O.S.S. is the width of the opening during the open stroke, where the swing jaw is pulling away from the fixed Jaw. This setting is not adjustable; its distance is dependent on the physical size of the Jaw Crusher and Eccentric Throw.

KEESTRACK B4 JAW CRUSHER CHAMBER

1. Feed Material

The feed material enters the crusher via the apron feeder. The B4's opening allows for material as large as 560mm wide to enter.

2. Reduction

As the material moves through the crushing chamber, the swing jaw is 'rocking' and progressively resizing the material till it is small enough to leave the chamber. Material smaller than the O.S.S. will be able to exit the crusher.





Jaw Crushers reduction ratio is dependent on the actual size of the crushing chamber/box, the larger the opening for feed material, the larger the minimum C.S.S. will be. This is due to the geometry of larger boxes having a larger feed opening, and the feed exit scales up with it.

KEESTRACK B4 JAW CRUSHER REDUCTION EXAMPLE

Why This Number?

Due to the action of the Jaw, the exit GAP is not constant with the set C.S.S. Since C.S.S. stands for Closed Side Setting this only refers to the closed stroke of the Jaw. The O.S.S. refers to Open Side Setting or the open stroke. In the case of the B4 the Eccentric throw is 32mm meaning crushed material on this setting will be between 130mm and 162mm, not including fines that pass through.



The Possible C.S.S. range on a Keestrack B4 is 45mm to 160mm. If the C.S.S. is reduced while maintaining a large feed size of 400mm machine load will go up as more energy is needed to complete the Swing Jaws rotation around the Eccentric Shaft.

The ideal Reduction ratio for Keestracks range of Jaw Crushers is 3:1; this is where it is mechanically at its optimum and will produce material efficiently and at a high throughout. At 3:1 it will handle nearly any type of material, particularly hard stone and rock. For medium hardness material, the Keestrack range can produce a 5:1 reduction ratio and with a soft material like asphalt and lime, it can produce an 8:1 reduction ratio.

What separates Keestrack apart from other mobile Jaw Crushers is the extensive development and refinement of the mechanism and introduction of intelligent features that protect the components and reduces possible downtime.

Keestrack implements a full Digital P.L.C. control and monitoring unit on all their crushers, and the Jaw Crusher line is no exception. One of the key benefits is that the P.L.C. will automatically control the feeder to maintain high throughput based on the operators desired input. The P.L.C. monitors and adjusts the Apron Feeder, Jaw Drive and the Non-Stop System for high production and in line with the operator set parameters.

One of Keestrack's flagship features if the Non-Stop System (N.S.S.) which encompasses a flew slew of hydraulic adjustment and electronic monitoring systems. It allows on the fly C.S.S. adjustments while crushing, which means that small modifications or substantial changes can be done without having to stop the crushing process.

It incorporates a monitoring sensor which shows the actual C.S.S. of the Jaw to the operator. Whereas most other systems make the operator manually inspect it, to see what it's set and performing too.

Every 20-50 hours the crusher completes a Jaw reset where the P.L.C. resets the Jaw and C.S.S. according to the wear on the Jaw Plates. The gap setting will always be accurate, regardless of plate wear.

The systems automatic C.S.S. recovery monitors the set Gap,

and if it is pushed back by more than 10mm, the system will attempt to readjust it back to the programmed C.S.S. If readjustment is unsuccessful and hydraulic pressure on the Gap adjustment rams continues to rise, the system will stop pressurising these rams. Simultaneously the P.L.C. actuates the counter tension ram which pulls the Swing Jaw as far open as possible to dump the uncrushable material.

The Non-Stop System has two overload protections. The first of which is electronic as described above. It also has an instantly operable mechanical relief system. It incorporates 600 Bar pressure relief valves on the cylinders. Should an uncrushable piece of material enter the chamber before the electronic system can adjust for it; the mechanical system prevents damage to the crushing chamber and importantly, their components. Both of these systems also stop the Feeder and Eccentric drive, stopping material pile up.

Lastly, the Gap adjustment cylinders can be manually operated to crush material that is blocking regular crushing action. This prevents the need for someone to manually unblock the crusher, making it safer and reducing potential downtime.

The Keestrack line of Jaw Crushers are true mobile quarrying and processing machines, highly capable and designed for performance. They save companies money.

HOW THE KEESTRACK RANGE OF JAW CRUSHERS ACHIEVE A MORE PROFITABLE PRODUCT:

Less Fuel Usage

Keestrack's Jaw Crusher range feature Load Sensing Pumps that distribute hydraulic power to components accordingly. This feature doesn't restrict hydraulic flow; instead, it directs the pumps to generate and direct hydraulic power when it's needed. This system saves companies around 20-25% in fuel costs, which can add up to around \$10,000 a year.

Autom

Sensors located throughout the machine monitor load, fill levels and capacity. The P.L.C. can report on what the Jaw Crusher is doing at any moment in addition to working in the set range, keeping the crusher running efficiently and at capacity.

Smart Features

The smart features add to the Jaw Crushers productivity. The wireless remote enables total machine adjustment and even tracking while crushing.

KEESTRACK N.S..S OVERLOAD PROTECTION

1. C.S.S. Monitoring

Unlike most other Jaw Crushers, Keestrack machines monitor the C.S.S setting and relay this back to the control panel for operators to see what the C.S.S. is set to and, what it is performing too.

2. C.S.S. Recovery

In addition to the automatic Jaw reset, the system continually monitors cylinder pressures and the C.S.S. gap. If pressures increase and the gap is beyond 10mm out, the N.S.S. system will work to get the C.S.S. back to it's original setting, If it cannot restore the C.S.S. it will stop pressurizing the cylinders and continually open the Jaws until the uncrushable material passes.

3. Mechanical Overload Redundancy

Should a large uncrushable item enter the chamber before the electronic system can account for it, the mechanical fail-safe incorporates two 600 Bar pressure relief valves on each GAP cylinder relieving them of pressure before any damage occurs.

4. Manual Crushing

If the system is jammed due to overfeeding, the GAP Adjustment Cylinders can be manually actuated to crush material and get the Jaw going again with minimal manual work.



HOW KEESTRACK CONE CRUSHERS WORK!

Similar in Ubiquity to their Jaw Crusher cousins, Cone Crushers are a common feature to most quarries processing aggregates and medium hard ore.

Cone Crushers (sometimes also referred to as Gyratory Crushers) made their appearance back in 1877 as a contender to the Jaw Crusher. It was in 1881 that they adapted to a smaller size and served as a secondary crusher.

Cone Crushers are also compression based crushers, like Jaw Crushers, but also have an extra designation of 'finecrushers' due to their ability to resize material that Jaw Crushers would be unable to achieve.

Modern Cone Crushers are a refinement of the Hydro-Cone. They are called Hydro-Cones because the bottom assembly of the Cone is sealed and bathed in oil, which lubricates the entire action up to the Mantle.

Two designs of the Hydro-Cone commonly exist in the market today, the Symons Cone and the Spider Cone.

Keestrack Cone Crushers utilise the Spider Cone Crusher variant for reasons discussed further in this article.

A Cone Crusher utilises a Mantle on an offset shaft (the amount of offset is called the eccentric) that oscillates around the fixed circumference of the Liner (also called concave).

Material is fed into the Cone where each revolution hits and compacts the material, crushing it, as this happens the material then moves further down the Liner until it passes the nip point.

The key part of this crushing process is the Liner Type, Mantle, Eccentric and C.S.S. each of these, are customisable to suit the input material and size and desired output product.

KEESTRACK H4e CONE CRUSHER CRUSHER CHAMBER

- 1. Spider Bearing
- 2. Top Shell
- 3. Liner
- 4. Mantle
- 5. Main Shaft
- 6. Dust Seal Ring
- 7. Bottom Shell
- 8. Eccentric Assembly
- 9. Pinion Shaft
- 10. Step Washer Assembly
- 11. Hydroset Piston





3

KEESTRACK H4E CRUSHING CHAMBER SAMPLE

1. Feed Material

The Feed Material must be the correct size before entering the crushing chamber based on the desired product output and what Liners, Mantle, Eccentric and C.S.S. has been set.

2. C.S.S. Pass

The Closed Side pass is what compresses and crushes material against the Liner by the Mantle. On the H4e the Mantle is oscillating around the chamber at around 340 RPM.

3. Nip Point (C.S.S. Gap)

The Nip Point or the gap during the C.S.S. pass is simply the point crushed rock passes once it has been crushed enough to pass.

MANTLES AND LINERS

Mantles and Liners are one of the areas where Cone Crushers start to differ from other Crushers like Impactors and Jaws. Other Crushers allow a wide variety of inmachine adjustments to adapt to input feed and desired output; Cone Crushers rely on customisation to achieve this.

Two of the commonly customised parts on a Cone Crusher are the Mantle and Wear Liner.

The Keestrack Cone utilises two mantle options; A and B, which are simply two different sizes for fine or coarser applications. Most Cone Crushing operations working in varied crushing environments will own both mantles types and change them out based on the use-case and desired product size range.

The Liners in the Cone Crusher is where most of the wear part customisation comes in, The Keestrack H4e and H6e offer seven different liners that coupled with the Mantle provide a full spread of coarse to extra fine crushing options.



Why so many options?

The very nature and design of Cone Crushers means that they are not intended to crush different types and sizes of input rock with just one generic set of liners.

By having different options suited to the input and desired output makes Cones more efficient. By always having the perfect chamber to make cubical products with the minimum of wear and energy required.

Having this many different chamber options allows for efficient crushing of the input material to the desired output product. The right Liner fully utilises the amount of crushing forces in the chamber, has better wear characteristics and produces a well-shaped product.

Selecting the right Liner is based on the desired end product, where applicable the Mantle will also need to be changed to suit the very coarse and very fine spectrums.

THE ECCENTRIC

The Eccentric throw is the variance of angle which the Cone's Main Shaft operates. The angle is measured by how far off-centre the shaft is. A larger offset means a higher reduction ratio with the C.S.S. decreasing (closer to Liner) and the O.S.S. increasing (further from Liner).

Keestrack's Mobile Cone line makes this task simpler for operations to perform this efficiently. One of the benefits to a Spider Cone is its mechanical simplicity, and it utilises a unique keyway function on the Eccentric Bush that can be lifted and shifted to change the Eccentric offset that suits the Liners in the chamber.

C.S.S. ADJUSTMENT

Adjusting the C.S.S. on a Cone is tied in with the Liner, Mantle and Eccentric which determines the G.A.P. size. Cones have in-machine adjustability via a Hydroset hydraulic piston at the bottom of the Main Shaft. This piston pushes the Main Shaft up or down to adjusting C.S.S. opening at the Nip point.

CONE PROTECTION CIRCUIT

Much like Keestrack's Jaw Crusher line, Keestrack's Cone Crusher line utilises Hydraulic and Electronic monitoring and protection circuits to protect the Cone from damage from packing and uncrushable materials.

The first of these protections is the Hydroset piston which allows for slight movement to the C.S.S. during high load crushing. An accumulator on the ram allows for movement while maintaining Cone Pressure during peaks. Still, in the case of packing or large immovable material, it will relieve pressure to drop this material out.

In tandem with the Hydroset piston, the P.L.C. monitors hydraulic pressure and drive load on the Cone. The P.L.C. monitors the hydraulic pressure of the Hydroset cylinder. If it should exceed pre-set parameters, it will actively reduce pressure to the piston, lowering the Mantle and allowing material to pass more freely.

The P.L.C. also monitors the direct load on the E-Motor powering the Pinion Shaft, and if this exceeds the safety threshold will stop or reduce power and speed to the Cone Chamber to avert damage.
KEESTRACK CONE OVERLOAD PROTECTION



1. Feeder Control

The feeder is controlled and monitored by the P.L.C. unit, which uses the Magic Eye sensor to determine the correct load level in conjunction with the drive load and Hydroset piston pressure. When these parameters are exceeded, the feeder is stopped to prevent clogging of the Cone.

2. P.L.C. Electronic Monitoring

The P.L.C. monitors all of the Cones parameters, ensuring a well-defined product is produced at maximum throughput. When packing, clogging or an uncrushable material is in the crushing chamber it will actuate the Hydroset Ram to drop material through the chamber actively.

It also monitors drive load to stop overloading and damage to the Cone and its main components. An alarm is triggered when any of the protection circuits are activated.

3. Hydroset Piston

The Hydroset cylinder located at the bottom of the Main Shaft holds up the Eccentric Shaft to the set C.S.S. It includes a safety buffer at each end of potential adjustment.

An accumulator is connected to the piston that allows movement on Mantle during peak loads, and will recover back to the original C.S.S. The accumulator automatically allows the Mantle to lower during overloading, preventing damage and if the pressure goes past the set threshold, the P.L.C. then works to stop any further crushing.

SPIDERLESS CONE VS. SPIDER CONE

As mentioned above the main difference between a Symons Cone and Spider Cone is the use of a bearing suspended above the Cone to secure it.

The difference amounts into a substantial change of mechanical complexity, reliability and strength. **Spider Cone Crushers key benefits are:**

• Longer Crushing Chamber

Being supported at the top and bottom allows the chamber to be longer while still maintaining strength and leverage against the material; this gives a superior shape with more 'hits' per pass.

Eccentric Throw Adjustability

The Eccentric is changed by turning the Eccentric Bush to the desired setting. The most extensive of any in the market.

• Single Piston C.S.S. Adjustment

Spiderless Cones rely on moving the Upper Shell and Liners to adjust the C.S.S; Spider Cones have full structural rigidity across the Chamber and Main Shaft due to its extra support.

Mechanically Simpler

Simpler is not less productive; instead, it means that there's no need for complicated and expensive bushes and bearings to support the Main Shaft from one point.

HOW THE KEESTRACK RANGE OF CONE CRUSHERS ACHIEVES A MORE PROFITABLE PRODUCT:

Constant Liner Performance

The Fixed Spider Head Cone Crusher allows Keestrack to utilise C.L.P. liners that enable operations to operate the Cone to the full Liner life without the need to adjust the C.S.S. halfway through the Liner life.

Less Fuel Usage

Keestrack's Cone Crusher range are Hybrid powered, which in comparison to regular diesel-powered Cone Crusher uses 50% less fuel. By integrating E-Motors energy, efficiency is boosted to 95% over hydraulic motors that are only 75% efficient.

Automation

Sensors located throughout the machine monitor load, fill levels and capacity. The P.L.C. can report on what the Cone Crusher is doing at any moment in addition to working in the set range, keeping the crusher running efficiently and at capacity.

Smart Features

The smart features add to the Cone Crushers productivity. The wireless remote enables total machine adjustment and even tracking while crushing.



PORTAFILL

ABOUT PORTAFILL
 SCREENS
 JAW CRUSHERS
 IMPACT CRUSHERS
 CONE CRUSHERS
 CONVEYOR SYSTEMS

ABOUT **PORTAFILL**

Portafill is a world-leading designer, developer and supplier of a range of cost-effective, innovative and highly mobile screens, crushers, trommels, wash systems and conveyors.

The company's products have been deployed in a variety of testing applications including quarries, sand and gravel pits, landfill sites, Gabion stone, waste management sites and topsoil. You'll find Portafill machines operating in just about every continent in the world.

Portafill has been designing and manufacturing quality products for more than a decade. Incorporated in 1993, the company can call upon the rich local expertise and history that has made this part of Ireland a hub of excellence when it comes to screening plant production.

Portafill's dedicated engineering team employs the latest 3D CAD and data management technologies, ensuring accurate life cycle management of their products through all stages of design, manufacturing and after-sales service.

Portafill's commitment to constant innovation and improvement can be seen in the quality of their final product.







PORTAFILL 3000ST DECK SCREEN

SANDY SHIRTCLIFF ELLESMERE EXCAVATION & AGGREGATE LTD

"Equip2's been quite a big part of getting to where we have got to, and we've got plans to go a lot further.

This wee machine here is probably one of the backbones of the business, and it used a minimum of 4 days a week. We load it with a 12 ton Cat digger, and we take away with a 14 ton Hitachi loader, and the Hitachi loader has trouble keeping up with the 12 ton Cat digger.

This thing can smoke out stones like you wouldn't believe, the thing is not very big, and people think because it's not very big it's not going to produce much, but its still got the big 8' deck in it, and the thing just smokes out stones faster than you can imagine."

CLASSIFIER SCREEN

PORTAFILL MS-3

The Portafill MS-3 with an optional live head Twin Deck is a high through-put yet ultra portable screening plant. Combining compact design & low operating weight with a highly productive 2.9m x 1.2m vibratory screen, making this unit among the most portable, versatile plant in New Zealand.



Key Benefits



Quick Setup The MS-3 sets up and is ready to start screening in 10 minutes.



Adjustable Conveyor Speed Adjusting the conveyor speed allows for the right amount of material to enter the screening decks.



Low Running Cost Only using 6-7 litres an hour of diesel, it is incredibly efficient while also using a simple to maintain Deutz Tier 3 Engine.



Triple Conveyor System Get three separate products on each side of the machine from the triple conveyor system.



Hydraulic Tipping Grid It allows easy loading from excavators and loaders of various sizes while maintaining its compact dimensions.



Optional Wash System Optional full wash system for 2 deck.

MS-

Applications



Proven across New Zealand and the world in various applications including but not limited to:

- Top soil
- Compost/barks
- Limestone

Sand

- Aggregates
- RAP Recycling
- Operation Mode



Transport Mode





OVERVIEW







3.4 m²

11,500 kg

3.3 m³

SPECIFICATIONS	
Operating Weight	11,500Kg
POWER UNIT	
Engine	Deutz D2011 L04I Tier 3 36kw (49HP)
FEED HOPPER	
Capacity	3.2m ³
Feeding Height	3,560mm
Feeding Length	3,191mm
Tipping Grid	100mm spacing
BELT FEEDER	
Width	800mm
SCREEN BOX	
Decks	Bolted, 2 Deck, 2 Bearing Screen
Length	2,890mm
Width	1,200mm
WING CONVEYORS	
Width	600mm
Stacking Height	2,700mm
MAIN FINES CONVEYOR	
Width	800mm
Stacking Height	2,400mm
OPERATING DIMENSIONS	
Operating Width	10,968mm
Operating Length	9,982mm
Operating Height	3,560mm
TRANSPORT DIMENSIONS	
Transport Width	2,329mm
Transport Length	8,721mm
Transport Height	2,582mm

CLASSIFIER SCREEN

PORTAFILL MS-6

The big extended deck on the MS-6 is one of it's stand out features due to its low weight, making it great for often changing sites. This screen comes with multiple options and is easy to configure for changing locations and needs. Available in both double and triple deck configurations. Ideal for contractors or mobile operations across many industries like quarries, bark, mulch and recycling.



Key Benefits



Big Deck

The large decks feature 5.88m2 of deck area each with the ability to have up to 3 decks.



Optional - three deck, four way split Optional 3 deck screen.



Deck Chute When the 3rd deck isn't required, it can be closed off to speed up production.



Optional wash system Optional full wash system on 2 or 3 decks.



Bi-Folding Tipping Grizzly Grid At times the grizzly grid won't be required or the screen will be fed by another machine.



Easy screen changes Lift main conveyor and lower fines conveyor.

Applications



Proven across New Zealand and the world in various applications including but not limited to:

- Top soil
- Limestone
- Compost/barks
- RAP Recycling
- Aggregates

Operation Mode



Transport Mode





OVERVIEW







5.88 m²

22,000 kg

4 m³

SPECIFICATIONS Operating Weight 22,000kg POWER UNIT Deutz TD2.9 L4 (EU Stage IIIB, EPA Tier Engine 4) 55Kw (74HP) FEED HOPPER 4m³ Capacity **Feeding Height** 3,242mm **Feeding Width** 3,975mm **Feeding Length** 4,200mm **BELT FEEDER** Width 1,000mm SCREEN BOX Decks Bolted, 2 Bearing Screen Length 4,900mm Width 1,200mm **OVERSIZE CONVEYOR (LEFT)** Width 1,000mm **Stacking Height** 3,995mm MIDDLE FRACTION CONVEYOR (RIGHT) Width 750mm **Stacking Height** 3,849mm FINES CONVEYOR (FRONT) Width 1000mm **Stacking Height** 3,995mm **OPERATING DIMENSIONS** 13,965mm **Operating Width Operating Length** 13,300mm **Operating Height** 3,995mm TRANSPORT DIMENSIONS Transport Width 2,755mm Transport Length 11,899mm Transport Height 2,900mm

SCALPING SCREEN

PORTAFILL MR-5

Designed for versatile screening in a portable and compact package that is inexpensive to transport. The Portafill MR-5 is constructed from heavy-duty steel to handle heavy and abrasive materials. With its aggressive screening action, this mobile scalping screen is well suited to sorting rock and concrete through to recycling and topsoil — the ultimate mobile machine.



Key Benefits



Hydraulic Folding Hopper Sides Fold over and unfold the Hopper walls for extra room or unfold to direct feed from another machine or make the MR-5 more compact for transport.



Low Running Cost Only using 6-7 litres an hour of diesel, it is incredibly efficient while also using a simple to maintain Deutz Tier 3 Engine.



Foldable Oversize Conveyor Fold the oversize conveyor to cut length on the MR-5 transport profile; Making it that much easier to move around.



Compact Ideal for tight access and confined spaces.



2 in 1 Main Conveyor Mix both the mid-size and over-size fraction together for a two way split, increasing efficiency when needed for jobs that don't require three splits.



Transportable Easy transport from site to site.

MR-5

Applications



Proven across New Zealand and the world in various applications including but not limited to:

- Top soil
- Limestone
- Compost/barks Aggregates
- RAP Recycling

Operation Mode



Transport Mode





OVERVIEW







2.8 m²

14,000 kg

4 m³

SPECIFICATIONS	
Operating Weight	14,000kg
POWER UNIT	
Engine	Deutz D2011 L04I Tier 3 36kw (49HP)
FEED HOPPER	
Capacity	4m ³
Feeding Height	3,005mm
BELT FEEDER	
Width	1,000mm
SCREEN BOX	
Decks	Bolted, 2 Deck, 2 Bearing
Width	1,200mm
Length	2,900mm
OVERSIZE CONVEYOR (FRONT)	
Width	1,000mm
Stacking Height	2,638mm
MIDDLE FRACTION	
Width	750mm
Stacking Height	2,880mm
MAIN FINES CONVEYOR	
Width	750mm
Stacking Height	3,100mm
OPERATING DIMENSIONS	
Operating Width	11,424mm
Operating Length	10,690mm
Operating Height	3,005mm
Transport Width	2 273mm
Transport Length	10.629mm
Transport Height	2,566mm

SCALPING SCREEN

PORTAFILL MR-6

The largest Scalping Screen in Portafill's range, the MR-6 has 76% more screening area than the MR-5; Maintaining Portafill's key machine attributes of easy portability, simplified maintenance and usability;

Weighing less than 20 tons and available in a two-deck, three split format. The MR-6 is a suitable all-round candidate for anyone looking for a high output very mobile scalping screen.



Key Benefits



Large Screen Box Designed for maximum vibration for a machine with a lot of screening potential in any application.



Simplified Maintenance Engine The engines components are easy to get to for maintenance, decreasing time spent carrying out routine maintenance.



Easy Screen Changes The transfer belt hydraulically raises and lowers to make getting to screens hassle-free and changing them easy.



Internally Routed Hydraulics Saving weight and space while adding strength and preventing potential line damage.



2 in 1 Main Conveyor Mix both the mid-size and over-size fraction together for a two way split, increasing efficiency when needed for jobs that don't require three splits.



Easy operation The Smart PLC makes operating and adjusting the MR-6 quick and straightforward with intuitive controls and large colour screen.

MR-6

Applications



Proven across New Zealand and the world in various applications including but not limited to:

- Top soil
- Compost/barks
- AggregatesLimestone

Operation Mode



Transport Mode





OVERVIEW







5 m²

18,000 kg

7 m³

SPECIFICATIONS	
Operating Weight	18,000Kg
POWER UNIT	
Engine	Deutz TD2.9 L4 Tier 3 - 55 kW
FEED HOPPER	
Capacity	7m ³
Feeding Height	3,300mm
Feeding Width	2,550mm
Feeding Length	4,480mm
SCREEN BOX	
Decks	Double deck - 3 splits
Width	1,300mm
Length	3,900mm
OVERSIZE CONVEYOR (FRONT)	
Width	1,000mm
Stacking Height	3,200mm
MIDSIZE CONVEYOR	
Width	800mm
Stacking Height	3,620mm
FINES CONVEYOR	
Width	800mm
Stacking Height	3,775mm
OPERATING DIMENSIONS	
Operating Width	13.960mm
Operating Length	12.975mm
Operating Height	3,775mm
TransPORT DIMENSIONS	2.550mm
Transport Length	2,0000000 10.680mm
Transport Length	3 000mm
παπορυτετισιγιτε	0,00011111

TROMMEL SCREEN

PORTAFILL MT-5

Utilising the latest in Trommel Screening technology the MT-5 tracked Trommel Screen from Portafill is lightweight specialist screening machine. It is built specifically for screening materials like topsoil, compost, mulch, wood, landfill waste, light rubble and even rock. Due to its durable design, the MT-5 Trommel Screen can take on a diverse range of screening jobs that other trommels would struggle to do.



Key Benefits



Heavy Duty Tracked Undercarriage On-site movements are quicker with the MT-5 having an independent tracked drive unit.



Variable Drum Speed The Drum speed can be adjusted to suit load and material; Allowing for better control over output and less wastage.



Adjustable Brushes The brushes prevent clogging and keep the drum unit screening effectively.



Hydraulically Folding Hydraulically fold the wing and product conveyors for snap setup and quick takedown and transport.



Changeable Drum/meshes Changeable, quick release drum to screen broad variety of fractions.



Low Running Cost Only using 6-7 litres an hour of diesel, it is incredibly efficient while also using a simple to maintain Deutz Tier 3 Engine.

MT

Applications



Proven across New Zealand and the world in various applications including but not limited to:

- Compost • Organics
- Topsoil Mulch
- Greenwaste
- Timber
- Food Waste
- **Operation Mode**



Transport Mode





OVERVIEW





Hopper

19.8 m²

14,300 kg

2.9 m³

SPECIFICATIONS	
Operating Weight	14,300Kg
POWER UNIT	
Engine	Deutz D2011 L04I - 36 kW (49HP)
FEED HOPPER	
Capacity	2.9m ³
Feeding Height	3,191mm
BELT FEEDER	
Width	900mm
Feeder Drive	Variable Speed, Adjusts to Drum Load
ROTARY SCREEN	
Length	4,200mm
Diameter	1,500mm
Drum Drive	Direct Drive - Variable Speed
Throughput	80-100m3 per hour
FINES CONVEYOR	
Width	750mm Chevron Belt
Stacking Height	3,239mm
OVERSIZE CONVEYOR	
Width	1,000mm Chevron Belt
Stacking Height	3,168mm
OPERATING DIMENSIONS	
Operating Width	6,223mm
Operating Length	13,054mm
Operating Height	3,168mm
TRANSPORT DIMENSIONS	
Transport Width	2.358mm
Transport Length	10.295mm
Transport Height	3.440mm

JAW CRUSHER

PORTAFILL MJ-9

A contractors dream machine, the MJ-9 folds down to less than 10m, has a low feeding height with a large hopper and a wide crusher opening. The Portafill MJ-9 is a small machine with unsurpassed mobile results. Not lacking in resource-saving features like load sensing hydraulics the MJ-9 is made to make operation simple and cost-effective.



Key Benefits



Load Sensing Hydraulics Stops full hydraulic power being diverted to components under minimal load saving fuel and reducing wear.



Adjustable Magnet Height The adjustable height enables it to be as close to the crushed material as oversize allows.



Reversible Jaw Drive Reverse the Jaw drive action to fluff up material like asphalt or in the case of oversize or sticky material unblock it.



Easy Change Wear Parts Change wear parts quickly and easily with the MJ-9's practical and simple design.



Easy access Two large doors to the engine bay give unlimited access to the engine and make servicing easy.



Optional After-Screen The bolt on after-screen can be used to split an additional sized product or re-circulate the oversize for an optimal end product.

MJ-9

Applications



Proven across New Zealand and the world in various applications including but not limited to:

- Aggregates
- Limestone
- Demolition Recycling

Operation Mode



Transport Mode





OVERVIEW







200 tph

26,000 kg

Hopper 4 m³

SPECIFICATIONS	
Operating Weight	26,000 Kg
POWER UNIT	
Engine	CAT or Volvo, 129 kW
VIBRATING FEED HOPPER	
Capacity	4m ³
Feeding Length	4,100mm
Integrated Pre-Screen	1,160mm x 720mm
JAW CRUSHER	
Opening size	850mm x 500mm
	40mm - 100mm
Outlet Adjustment C.S.S.	(depending on toggle plate)
Feed Size	600mm x 400mm
Jaw Crusher	Hydraulic via wedge
MAIN FINES CONVEYOR	
Width	900mm
Stacking Height	3,015mm
OPERATING DIMENSIONS	
Operating Width (optional)	5,490mm
Operating Length	12,160mm
Operating Height	3,300mm
TRANSPORT DIMENSIONS	
Transport Width	2,550mm
Transport Length	9,630mm
Transport Height	2,970mm

IMPACT CRUSHER

PORTAFILL MI-7

Portafill's modern Impact Crusher is a contractors dream machine for easy transportation and varied workloads. The MI-7 makes crushing a variety of materials into desired products simple with easy to use controls to get the right product on the ground.



Key Benefits



Low Feeding Height Extra low feeding height make the MI-7 easy to load across a variety of machines, big or small.



Overband Magnet Prevents oversized steel from recirculating through the crushing compartment.



After Screen and Return Belt Swivelling belt can be used to recirculate oversized material in one machine, no need to screen, load it again.



Highly transportable Easy transport from site to site.



Large Crusher Opening A compact machine with large inlet dimensions of 810mm x 610mm allowing the chunkiest of feed.



Vibrating feeder The vibrating feeder helps feed the material into the crusher preventing blockages.

Applications



Proven across New Zealand and the world in various applications including but not limited to:

- Aggregates Concrete
- Asphalt
- Rubble
- Stone
- Roadbase
- Operation Mode



Transport Mode





OVERVIEW







150 tph

20,000 kg

2 m³

SPECIFICATIONS	
Operating Weight	20,000Kg
POWER UNIT	
Engine	CAT C4.4 129kw (172HP) EU Stage IV or V, EPA Tier 3 or 4F
/IBRATING FEED HOPPER	
Capacity	2m ³
Feeding Height	3,100mm
Feeding Width	1,977mm
Feeding Length	3,865mm
ntegrated Pre-Screen	1,000mm x 700mm
MPACT CRUSHER	
nlet opening size	810mm x 600mm
Rotor Width	750mm
Rotor Diameter	800mm
Rotor Speed	600 - 700 RPM
POST SCREEN	
_ength	3,180mm
Width	1,125mm
MAIN FINES CONVEYOR	
Width	900mm
Stacking Height	2,900mm
OPERATING DIMENSIONS	
Operating Width	2,270mm
Operating Length	12,000mm
Operating Height	2,510mm
FRANSPORT DIMENSIONS	
Fransport Width	2,270mm
Fransport Length	9,438mm
Fransport Height	2,539mm

CONE CRUSHER

PORTAFILL MC-8

The ideal unit for smaller quarries and contractors within New Zealand who are seeking to produce a specified material. This secondary crusher paired with the Portafill MC-8 makes for an ideal 1-2 crushing unit, add the after screen and return conveyor and produce any spec material required, from M4 to roading chip.



Key Benefits



Metal detector Unwanted metal is found to prevent entering the crushing chamber and therefore damaging it.



Hydraulic Folding Hopper Sides Fold over and unfold the Hopper walls for added room or to direct feed from another machine or to transport.



Magic eye feed control Feeder is controled by magic eye fitted over the crusher to ensure feed is kept at the optimum level getting the best out of your setup.



Radio Remote Control Start, stop, track and adjust crushing parameters with the wireless remote.



Easy Change Wear Parts Change wear parts quickly and easily with the MC-8's practical and simple design.



Highly transportable Easy transport from site to site.

MC-8

Applications



Proven across New Zealand and the world in various applications including but not limited to:

- RAP Recycling
- Limestone
- Aggregates

Operation Mode



Transport Mode





OVERVIEW





Hopper

4.5 m³

165 tph

SPECIFICATIONS

Operating Weight

POWER UNIT

FEED HOPPER Capacity Feeding Height

Feeding Width Belt Feeder Width CONE CRUSHER

Max Feed Size

C.S.S. Settings Capacity

Engine

23,800 kg

23,800Kg
CAT or Volvo, 129kw
4.5m ³
2,630mm
3,190mm
1,000mm
a: 160mm, b: 100mm, c: 65mm, d: 35mm
a: 20-35mm, b: 9-25mm, c: 5-25mm, d: 4-20mm

Up to 165 tph

900mm 2,800mm

MAIN CONVEYOR

Width	
Stacking	Height

OPERATING DIMENSIONS

Operating Width	3,400mm
Operating Length	12,800mm
Operating Height	3,650mm

TRANSPORT DIMENSIONS

1

ransport Width	2,290mm
ransport Length	10,560mm
ransport Height	3,000mm

DE-WATERING SYSTEM

PORTAFILL DW-80

The Portafill range offers a complete wash system to meet the needs of small to medium size aggregate producers. The Portafill DW-80 unit is a single bucket wheel with a sand screw and comes complete with its own power unit and water pump - giving you a complete washing solution when paired with a Portafill wash screen.



Key Benefits



Screw

The 940mm diameter by 2,123mm long sand screw ensures less sand is wasted and sent to the settling ponds.



Pump and power unit This makes it a complete solution, meaning you don't need any extra power unit.



Water Tanks

A good size 2.8m³ water tank allows for plenty of room for the sand to settle, floating off the excess water.



Bucket wheel A compact bucket wheel removes the fine material from the water completing the dewatering process.

DW-80

Applications



Sand



Transport Mode





OVERVIEW







40-50 tph

3,300 kg

3,300kg

2.8 m³

SPECIFICATIONS

Operating Weight

POWER UNIT

Height

Coupled onto suitable primary machine or power pack/pump

WATER TANK	
Capacity	2.8m ³
SCREW	
Diameter	940mm
Length	2,123mm
BUCKET WHEEL	
Diameter	2,360mm
Width	750mm
Number of Buckets	20
Mesh size in Buckets	748 x 274mm
SAND CONVEYOR	
Width	750mm
Stacking Height	2,388mm
OPERATING DIMENSIONS	
Operating Width	1,686mm
Operating Length	9,897mm
Operating Height	2,516mm

WATER PUMP SPECIFICATIONS		
Operating Weight	1,100Kg	
POWER UNIT		
Engine	Deutz D2011 L04I	
PUMP		
Capacity	up to 4,000L/min	
Water reservoir for priming suction line		
DIMENSION		
Width	1,112mm	
Length	2,708mm	

1,387mm

McCloskey Washing Systems is a leading player for providing equipment to the Materials, Mining and Minerals Industry. They are focused on delivering the highest quality and highly productive products to their customers.

McCloskey Washing Systems, a division of McCloskey International are committed to developing class-leading innovative and efficient production equipment to assist customers in meeting their requirements.

A significant investment in people and facilities means that only the very best, highly motivated individuals are selected to work for our customers. Operating in more than 100 countries, MWS is the obvious choice to be the preferred partner in delivering the Modular, Mobile and Static washing systems across the globe.

McCloskey Washing Systems has an excellent reputation in the international market. As a business with a rich heritage, their company mission is to be the no one provider of reliable and highly productive equipment to the Materials and Minerals Washing industry.



NINSERSAND PLANTWASHING PLANT

RINSER

MWS \$130/\$190

McCloskey Washing Systems S130 and S190 Mobile Rinsers are incredibly adaptable and high capacity mobile washing units.

Available as a tracked or wheeled unit, the S130 and S190 3 deck comes complete with three side conveyors and split catchbox for up to 3 grades of aggregate and two grades of sand. The S130 and S190 Rinser's fast set up and relocation abilities, make it ideal for contractors and hire fleets. Also, as two machines in one, the Rinsers can be easily converted to dry screen mode.



Key Benefits



32 spray bars

Eight independently controlled spray bars on each deck, delivering two bar/29psi of water pressure to each nozzle.



High Capacity Hopper A 10m³ Hopper allows a alot of material to be fed into the S130 and processed without the screen running dry.



Huge Decks It can be configured with two or three decks with a massive 18.6m2 of screening area on the triple deck screen.



Radio Control Adjust screening functions and start and stop the screen on the fly and from within the Excavator or Loader.



Hydraulically Adjustable Catch Box Adjust the catch boxes position hydraulically for easier access to meshes for screen changes.



Sand Out Put Water, waste and sand exits through the output.

S130/S190

|--|



SPECIFICATIONS S130





10 m³

OVERVIEW S190





Hopper

10 m³

9.3 m²

36,500 kg

SPECIFICATIONS S190	
Operating Weight	36,500Kg
POWER UNIT	
Engine	CAT 4.4 - 98 Kw
FEED HOPPER	
Capacity	10m ³
Feeding Height	3,100mm
Feeding Width	2,400mm
Feeding Length	3,450mm
BELT FEEDER	
Width	1,050mm
Angle	Hydraulically Adjustable
SCREEN BOX	
Top Deck	6,100mm x 1,524mm
Middle Deck (3 deck only)	6,100mm x 1,524mm
Bottom Deck	5,490mm x 1,524mm
LEFT AND RIGHT CONVEYORS	
Width	800mm
Stacking Height	5,100mm
AUXILIARY CONVEYOR	
Width	4,700mm
Stacking Height	6,500mm
OPERATING DIMENSIONS	
Operating Width	3,220mm
Operating Length	18,200mm
Operating Height	3,450mm

TRANSPORT DIMENSIONS

Transport Width	2,900mm
Transport Length	18,450mm
Transport Height	3,400mm

Operating Weight	27,200Kg
POWER UNIT	
Engine	CAT 4.4 - 98 Kw
FEED HOPPER	
Capacity	10m ³
Feeding Height	3,100mm
Feeding Width	2,400mm
Feeding Length	3,450mm
BELT FEEDER	
Width	1,050mm
Angle	Hydraulically Adjustable
SCREEN BOX	
Top Deck	4,270mm x 1,524mm
Middle Deck (3 deck only)	4,270mm x 1,524mm
Bottom Deck	3,660mm x 1,524mm
LEFT AND RIGHT CONVEYORS	
Width	800mm
Stacking Height	4,600mm
AUXILIARY CONVEYOR	
Width	500mm
Stacking Height	4,700mm
OPERATING DIMENSIONS	
Operating Width	3,240mm
Operating Length	16,520mm
Operating Height	3,450mm
TRANSPORT DIMENSIONS	
Transport Width	2,900mm
Transport Longth	15.610mm

- Transport Length **Transport Height**
- 15,610mm 3,400mm

COMPACT MODULAR SAND PLANTS

MWS Compact Sand Plant

The McCloskey Compact Sand Plant (CSP) range enables superior separation efficiency from the final washed sand product, producing in-spec sands to your desired grade.

These plants have been designed with an absolute focus on the machine operator. In addition to the highest level of quality and performance, significant benefits include simple and fast assembly times, ease of operation, low maintenance and an overall reduced footprint.

Each CSP is individually tailored to suit any application regardless of desired tonnage, from 20tph-250tph, or silt percentage in the feed material.

Easy Accessibility

The CSP 120 has wide walkways along the side and rear of the screen and cyclone allowing easy monitoring of the plant and particularly the underflow

This allows operators to safely view areas of the machine and make adjustments without leaning over areas to see components and production.

Main Tank

- Access hatch
- Self regulating
- LH/RH Drain valve
- Anti turbulence cell
- Large access hatch for maintenance

MAYIMUM DOWED DECITIOEMENT

Walkways

- Galvanised walkways & access steps
- 30 inch (760mm) wide walkways
- Side and back of screen walkways for maintenance

Chasis Raised modular chasis for ease

of cleaning

	6	60		120			200			250		
	ONE SAND	TV SA	VO ND	ONE SAND	TWO SAND		ONE SAND	TWO SAND		ONE SAND	TWO SAND	
TOTAL KW	23.9	27	7.9	44	51 61.6		61.6	76.6		93.4	93.4	
total HP	31.8	37	7.2	58.7 68.0		82.1	102.1		124.5	124.5		
PUMP KW	18.5	15	7.5	30	22	15	45	30	40	75	45	30
PUMP HP	24.7	20	10	40	29.3	20	60	40	40	100	60	40
DEWATERING Screen KW	2 OFF 2.69	2 OFF 2.69		2 OFF 4.5	2 OFF 4.5		2 OFF 8.3	2 OFF 8.3		2 OFF 9.2	2 OFF 9.2	
DEWATERING Screen HP	2 OFF 3.6	2 (3)FF .6	2 OFF 6	2 OFF 6		2 OFF 11	2 OFF 11		2 0FF 12	2 0FF 12	



Hydrocyclones

- Hydrocyclones produce highly accurate separation of silts and clays from the final washed sand product
- Pump to hydrocyclone delivery system fully rubber lined ensuring maximum wear resistance

Chute Wear lined discharge chute

Dewatering Screen

- Dual and single sand options up to 250TPH
- Dewatered sand is discharged ready for market
- Twin vibrating motors with adjustable throw
- 200mm high Polyurethane side liners
- Fitted with Polyurethane modules

Screen Sizes

- 3m x 1.2m (10ft x 4ft)
- 3.6m x 1.5m (12ft x 5ft)
- 4.2m x 1.8m (14ft x 6ft)
- 4.2m x 2.1m (14ft x 7ft)

Easy Setup

This plant is quick and easy to set up, needing less than a day to install and start production of sands.

Due to its simple design and transportable dimensions, this can be used by the sand production company that needs the ability to relocate.

OVERVIEW







120 tph

Cyclones

30 m³/h

1

SPECIFICATIONS	
Dry Weight	11,000Kg
POWER UNIT	
Engine	Three phase connection - 44 kW
PUMP SYSTEM	
Pump	Warman - 30 kW
HYDROCYCLONE	
Hydrocyclone	Single
Diameter	600mm
Throughput capacity	120 tph
Avg. Water Requirement	300 m³/h
DEWATERING SCREEN	
Length	3,600mm
Width	1,500mm
Media	Polyurethane with Pin and Wedge
LEFT AND RIGHT CONVEYORS	
Width	800mm
Stacking Height	4,600mm
AUXILIARY CONVEYOR	
Width	500mm
Stacking Height	4,700mm
OPERATING DIMENSIONS	
Operating Width	3,800mm
Operating Length	6,600mm
Operating Height	6,800mm

MODULAR SAND PLANT

MWS AggStorm[™] 150

The AggStorm[™]150 is a modular designed plant to remove harsh, clay-bound material from natural and crushed gravel, stone and or feed that cannot be removed by rinsing or screening alone. AggStorm[™] is an effective solution to be used in the aggregate and mining industries.

The AggStorm[™] produces cleaner material at a faster rate. It consists of a trough and two spiral axles running in sync with exchangeable blades which intensively mix the feed material creating 'stone on stone' attention. The exchangeable blades come in various options including AR500 and Cast Manganese.

Pipework

- Pre-plumbed at factory
- Rubber lined pipework at wear points

Trash screen

8ft x 4ft (2.4m x 1.2m) linear vibrating dewatering screen for dewatering lights and trash contaminants from log washer.

Sump tank

 Integrated sump tank to collect discharged water & grit

Log washer

Twin shaft log washer

• 100/100 slurry pump

MCCLOSKEYWASHING.COM

• Fully rubber lined pipework

150

Log washer Pre-screen

- 12ft x 5ft (3.6m x 1.5m) linear vibrating prescreen to remove sand prior to logwasher
- Single and double grade sand options
- Isolated spray bars
- Rubber lined catch box and chute for wear and noise reduction





トス КЛ



200 tph

Screen Area

Water Requirement 200 m³/h

11.2 m²

SPECIFICATIONS

PRE-SCREEN	
Length	3,700mm
Width	1,500mm
Motors	2x 4.5 kW Invictus Motors
Spray Bars	5x Independent Spray Bars - 2 Bar Pressure
AS150 LOG WASHER	
Length	3,700mm
Width	1,500mm
Angle	8°
Spray Bars	3x 50mm
Pumps	100/100mm Linatex/Warman
Motors	Dual Gearbox Drive 2x 22 kW with isolators
TRASH SCREEN	
Length	1,820mm
Width	600mm
Motors	2x 3 kW Invictus Motors
SIZING SCREEN	
Decks	Triple Incline Sizing Decks
Length	2,700mm
Width	1,200mm
Spray Bars	1x Each Deck Mounted to Substructure
STRUCTURE AND PIPING	
Walk ways	Galvanised - 760mm wide
Structure	Mild Steel Modular Substructures
Lining	Rubber chutes and Rubber Piping
OPERATING DIMENSIONS	
Operating Width	6,100mm (Without Conveyors)
Operating Length	15,300mm (Without Conveyors)
Operating Height	7,700mm (With Post Rinsing Screen)
POWER REQUIREMENT	
Total kW	100
kVA Approx	140
AVERAGE WATER REQUIREMENT	
m³/h	200

Walkways

- Full access to all areas of machine
- Galvanised walkways as standard
- 2.5ft (762mm) wide walkways



- 8ft x 4ft (2.4m x 1.2m) linear vibrating rinsing screen for rinsing aggregate prior to sizing screen
- Isolated spraybars
- Rubber lined catchbox and chute for wear and noise reduction

MODULAR WASHING PLANT

MWS SandStorm[™] 620

The SandStorm[™] 620 offers outstanding performance producing up to 3 aggregates and two sand products. Its unique features deliver exceptional results with minimal maintenance and site work required.

Built with power and durability, SandStorm[™] 620 design is unique and modern, delivering effective results.

Washbox

- Fully enclosed, sealed and rubber lined wash box
- Easily replaceable rubber lining
- Water saturation of material
- Targeting of material at rear of screenbox
- · Maximising screening area

Dewatering Screen

- 14ft x 6ft (4.5m x 1.8m)
- Dual and single sand options up to 200TPH
- Dewatered sand is discharged ready for market

Hydrocyclones

- Hydrocyclones produce highly accurate separation of silts and clays from the final washed sand product
- Pump to hydrocyclone delivery system fully rubber lined ensuring maximum wear resistance

Main Tank

 Large inspection door(s) on tank

Sand Conveyors 1 or 2

- 37ft (11.3m) sand conveyors
- Automated Radial
- 20 degree incline
- Stockpile capacity 575yds3 (440m3)
- High quality polyurethane scraper
- Galvanised undercarriage
- 100ft (30.5m) conveyor option

Walkways

- Galvanised walkways
- 30 inch (760mm) wide walkways
- Isolated spraybars

ease of maintenance

deck

Rinser Screenbox

 Integrated fully sealed subframe and catchbox

• 20ft x 6ft (6.1m x 1.8m) 2 deck or 3

• 18 degree optimum working angle

· Rosta tensioned belt drive unit for

increased belt life, efficiency and



OVERVIEW

Main Conveyor

- 41 inch (1050mm) wide belt
- High quality polyurethane scraper
- Galvanised undercarriage
 Overband magnet option

Feed/Hopper

- Adjustable feeder and hopper door for consistent material feed
- Large capacity 15ft hopper 16yds3 (12m3)
- Radio controlled Tipping grid
- Grid spacing 4"
- Vibrating grid option
- Variable speed belt feeder

Powerpack

 Electric hydraulic powerpack 30kW (40Hp) for maximum control of feeder functions

Aggregate E Conveyors 2 Or 3

- 37ft (11.3m) aggregate conveyors
- Positioned to the left or right
- 18 degree incline
- Stockpile capacity 125yds3 (95m3)
- High quality polyurethane scraper

Chute

- Blending chute
- Chute rolls back for maintenance

Capacity 200 tph

Screen Area 41 m²

ea Water Re 45(

ter Requirement	
450 m ³ /h	

SPECIFICATIONS	
FEED HOPPER	
Capacity	200 tph
MAIN CONVEYOR	
Width	1,050mm
RINSER SCREEN BOX	
Decks	2 or 3 Deck option
Length	6,100mm
Width	1,800mm
Lining	Rubber
Angle	18°
HYDROCYCLONES	
Hydroclones	Single or Dual
Lining	Linatex Rubber
DEWATERING SCREEN	
Length	4,500mm
Width	1,800mm
Media	Polyurethane with Pin and Wedge
AGGREGATE CONVEYORS	
Length	11.300mm
Angle	18°
Stockpile Capacity	95m ³
Length	11.300mm
Angle	20°
Stockpile Capacity	440m ³
Walkways	Galvanised - 760mm wide
Structure	Mild Steel Modular Substructrues
Lining	Rubber Chutes and Rubber Lined Piping
OPERATING DIMENSIONS	1 0
Operating Width	34.000mm
Operating Length	45.200mm
Operating Height	7,900mm
POWER REQUIREMENT	
Total kW	148 - 172*
kVA Approx	258 - 300*
AVERAGE WATER REQUIREMEN	Π
m ³ /h	450





VOLUMETRIC OPTICAL BELT SCALE SYSTEM

SENSORTECHNIK

Sensortechnik Optical Belt Scale is a contact-free volumetric scanner. Using the latest laser technology, Sensortechnik effectively scans the material crossing the belt with a measurement accuracy of 1mm variance. Whether your conveyor is stationary or on tracked equipment, you can rely on the precise production data unaffected by external conditions. Beyond its practical measurement application, Sensortechnik Optical Belt Scale is the ultimate operations management tool.





HOW DOES IT WORK?

To accurately measure the volume and weight, Sensortechnik Optical Belt Conveyor Scale uses a volume data calculation to produce a 99.8% accurate result.



Smart Device Connected

The optical belt conveyor scale scans and measures the material in real-time, and wirelessly transmits the data to your smartphone or tablet.

From the device, you can set Customer and Material profiles, as well as configure scan settings. With the touch of a button, you can download, print or email your measurement results directly to your office or computer.

Forget to email or print your data results? No problem, the Sensortechnik unit will store a full year of data. Simply download to your smart device at any time.



Live Remote Monitoring

Receive your data measurements in Excel spreadsheets direct from the field; allowing you to review your site's production, see exactly when the equipment started, when it was down and address operation performance issues as they happen.

Your office team estimating costs for projects will receive specific data which provides a basis for more accurate bidding, ensuring you turn a profit for all your hard work.
Operations Management Advantages



Set Goals and production benchmarks



Know exactly when your equipment starts and stops each day



Increase operation profitability



Verify Equipment Productivity



Manage inventory control



Manage multiple sites or remote sites



SPECIFICATIONS

SMARTPHONE

Weight: 172g Dimensions: 127 x 70 x 16 (5" x $2^{3/4}$ " x $1^{1}/16$ "x ")

PRINTER

Printer (Type H-55BT) Weight: 350g (0.77 lbs) Dimensions: 87 x 110 x 58 (3 ⁷/16" x 4 ⁵/16" x 2 13/¹⁶")

VOLUME SCANNER

Power: 24V DC +/- 20%, 5 A Operating Temperature: -45°C (-49°F) to + 70°C (158°F) Dimensions: Standard sizes range from 24" up to 78" belt widths Com-Ports: Var 1: RS-422 (4 line) Var 2: Bluetooth (class 1) Var 3: Analog output (4-20mA) *Optional Measuring rate: 200 frames / second Storage capacity: Production data over 1 year

ADJUSTABLE HOLDING FRAME

Accommodates Scale size range from 24" up to 78" belt widths Powder coated steel frame easy mount and dismount (Fixed with only 4 bolts)



SUPPORT

SUPPORT VEHIC

FREEPHONE OF

MOBILE SCREENS & CRUSHERS



HIGHLIGHT CONTENT

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800 872 254

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76	SERVICE



KEESTRACK-ER REMOTE MONITORING

Keestracks unique Keestrack-er system allows us to have full remote access to your fleet 24/7; which means we can quickly help you out with your machine in anyway wherever it is in the world at a moments notice – no waiting for a technician to drive or fly to your machine.

CONTROL

The Keestrack-er gives us total control of the machine from anywhere in the world.

MONITOR

We can know where your machine is and what it is doing 24 hours, seven days a week; we can also run remote diagnostic tests so we can identify an issue remotely.

TEST

We can remotely check machine parameters, run tests and receive real-time reports to help keep your machine running at optimum performance.

SERVICE

Remotely update all software, accurately plan maintenance and reduce your service time all from our offices.





SUPPORT

SERVICE EXCELLENCE IS WHAT REALLY MAKES EQUIP2 WHAT IT IS

We believe that the quality of our equipment and our sales team sells the first machine to the customer, but it is the After Sales backup that sells the subsequent machines to that customer. This level of support means we build solid, lasting relationships with our customers with many of our customers being with us since our beginning in 2009. With our technical and support team outnumbering our sales team by 4:1, this shows our dedication to helping our customers.

WHAT DEFINES OUR SERVICE EXCELLENCE?



Fast Response Time

In the unlikely event of a break down it is our number one priority to get you back up and working with as little downtime as possible – we have even been known to charter aircraft to get things happening.

Training

Training of your operators and team is vital to ensuring your machine is running at optimal performance at all time. Upon delivery of a new machine, we will conduct a 1-3 day induction with follow up training on the first 100-hour service.

Regular Servicing

We can provide continuous servicing as an ongoing service, or we can build this into a dedicated support package specifically for you – this gives you the peace of mind that your machine will continue running smoothly day in day out.

SERVICE AND SUPPORT

Support that's ahead of the game.

TECHNICAL EXPERTS

Equipment needs servicing and support, Unless your processing soft foam, parts will need serving, wear parts replacing and configuration changes based on specific applications.

Equip2 technicians are OEM and trade certified with real application experience to get machinery configured and running the way you want. We have a nationwide network of service agents and direct communication with our brands in Europe to find solutions to even the trickiest and stickiest of issues.



14.8.9

WE ARE THREE TIMES CLOSER TO YOU!

With our headquarters in Masterton, our support vehicles in Auckland and Christchurch as well as key service partners around New Zealand, Equip2 can supply immediate support upon the rare event of a breakdown!



PARTS **AVAILABILITY**

OUR SERVICE COMMITMENT

Equip2's Service, Parts and Support are second to none in the machine dealer industry in New Zealand and Oceania. We offer onsite inductions on all our machines, and we keep all the parts you need to keep it running effectively. We also offer fast and reliable support for equipment across New Zealand, all performed in-house by our technicians to manufacturer specifications. We don't skimp on our service commitment to our clients.



Overnight Shipping

From our centrally placed depot in Masterton, we are well located to offer overnight shipping to most areas in New Zealand. We keep in stock the necessary parts of running equipment and servicing them without having to wait for overseas suppliers and long shipping times. Keeping machines running with minimum downtime.



Authorised OEM Dealer

Equip2 is an authorised OEM dealer and parts supplier for our Machine brands. With expertise and knowledge to support any operation Equip2 can look after all parts requirements for the specified application and need.



Quality Machine Components

We understand the application's machine are subjected to; Whether it's environmental, difficult material or high wear product production we stock only the best components and wear parts to keep machines running optimally and get the highest output.



Nationwide Support

We have nationwide support coverage so that expertise is always available when it's needed. We carry an extensive range of parts, consumables and specialist components that in the event of a breakdown we have what's required in order to get production resumed.

PRODUCT SUPPORT:

OVERNIGHT DELIVERY TO ALL MAIN CENTRES

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NATIONWIDE NETWORK OF SERVICE AGENTS

PARTS RANGE WE STOCK AN EXTENSIVE RANGE OF SPARE PARTS

WORLDWIDE

PARTS FROM EUROPE TO YOUR SITE WITHIN 5 – 7 DAYS

EQUIP2 SERVICE **NETWORK MAP**

EUROPE

- **≥** Czech Republic
- 🔁 Austria
- 🔁 Italy
- ど Ireland
- ≥ Belgium
- 🔁 Great Britain



- Auckland
- Masterton
- Christchurch

Equip2's extensive service network around New Zealand ensures we can supply immediate support upon the rare event of a breakdown. With our headquarters in Masterton, our dedicated support vehicle in Auckland and key service partners around the country, we are always just around the corner.

NEW ZEALAND

- ど Whangarei
- Auckland
- ≥ Hamilton
- 🔁 Taupo
- **New Plymouth**
- ≥ Gisborne
- **Napier**
- **Palmerston North**

Su

- Masterton
- **Nelson**
- Greymouth
- Christchurch
- **Dunedin**
- ≥ Invercargill



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