Trimax Machinery

SIMPLY BETTER CRUSHERS

PRODUCT CATALOG

SEEING BEYOND CRUSHERS

DRIVING OUR EXCELLENCE

Trimax Machinery is an engineering company with its headquarters in Singapore, with subsidiary companies in Malaysia and Indonesia through Trimax Machinery (M) Sdn Bhd, Trimax Crushing & Screening Sdn Bhd, Sanmax DS Sdn Bhd and PT. Trimax Machinery, as well as distributors in various other countries. Today, we have over a hundred and fifty crushers in operation in various sites around the world.

We offer efficient crushers to assist quarries to make that crucial transition to higher capacity crushing operations producing better quality cubical products. Whether it is setting up a new crushing plant, upgrading an existing plant, or replacing an existing crusher, Trimax Machinery will be able to provide assistance and advice to quarries to make informed decisions on machinery that have long-term effects upon their quarry operations.

All Trimax crushers and machinery are supported by a world-class premium parts and service organisation to ensure optimum product reliability, availability, and customer support. No matter where you are in the world, Trimax Machinery aims to deliver an exceptional level of consistent service and support.

SEEING BEYOND CRUSHERS

Trimax Machinery today is recognised as a valued premium solutions provider to the mining & aggregates industries. We are no longer merely a crushing equipment supplier. We provide unique solutions in several ways that no other industry suppliers can. These are the fundamental principles that we strongly adhere to.

QUALITY
SERVICE
STOCK
TRAINING
ENGINEERING

QUALITY FOCUS

Using modern & accurate measuring equipment, dimensional accuracy of all crusher parts is confirmed before every crusher assembly.

A stringent internal quality control process caters for escalation & subsequent disposition of inspected parts that do not meet tolerances.

Every Trimax crusher comes with a standard 1-Year Warranty on spare parts (excluding wear parts) under normal running conditions beginning from the date of commissioning. As an added assurance after the crusher's first year of operation, an additional 2nd Year Warranty may be purchased. This 2nd Year Extended Warranty extends your coverage up to two years from the original commissioning date of your Trimax crusher.

Trimax Machinery only installs components in our machinery and equipment from brands who are market leaders in their respective fields of expertise. Utilisation of high quality components results in increased durability & reliability.

For over 10 years, we have been using spherical plain bearings in our cone crushers as opposed to a spider bushing.

Why have we been doing it? We incorporated it into our design because it made logical sense to do it.

Similarly, for over 10 years, we have been supplying cone crushers with large lubrication tanks and fan coolers because we understand how important it is for crushers to operate within an optimal temperature range.

As a result of that, in places where other cone crushers over-heat, ours just don't. Ours just continue crushing and crushing.

SERVICE FOCUS

We have dedicated service & support teams who attend to customer issues on an impromptu basis as well as regular scheduled visits as part of our Trimax Customer Service Program. These visits are on a rotational basis regardless of whether any machinery or equipment break-down has occurred.

CRUSHER PARTS STOCK

Assembling our own crushers means that we always have 100% of all parts in our inventory, down to the very last bolt and nut.

We also have multiple stock locations in various countries to further reduce delivery time. This means that we are more than adequate to support your operations so that you never have to worry about prolonged or unnecessary operational down-time ever again.

CRUSHER TRAINING

For buyers of our Trimax crushers, free training on dismantling and assembly of main crusher parts, as well as basic crusher maintenance is conducted for quarry operational staff. This training is conducted by our Trimax Service Engineers at our Trimax Crusher Assembly & Training Facility.

ENGINEERING DESIGN CAPABILITIES

Trimax Machinery has the ability to provide computer-aided modelling & simulation analysis to assist you to properly plan for plant upgrades as well as new plants. International industry-wide smarter & practical structural plant designs are implemented in all our proposals.

Most importantly, we listen, we adapt and we deliver…

TRIMAX TRENT JAW CRUSHERS

HEAVY DUTY JAW CRUSHERS

HEAVY DUTY TRENT JAW CRUSHER

The Trimax Trent heavy duty jaw crusher is our top-of-the-range single-toggle jaw crusher. It is a rugged heavy duty, high capacity jaw crusher capable of crushing any type of feed material. It was designed and engineered to give reliable, high performance in every primary crushing application. Incorporating several design improvements has strengthened its position as a tough and durable jaw crusher.

DESIGN IMPROVEMENTS THAT MATTER

For all models, the Trimax Trent jaw crusher is supplied with a versatile integral motor base. Reducing the need for additional space and long V-belts.

With the operator in mind, the Trimax Trent jaw crusher is equipped with hydraulic wedge closed side setting (CSS) adjustment as standard. Thus, improving the productivity and minimising down-time for the quarry.

It is also designed for easy maintenance with centralised greasing points and installed with durable FAG bearings for added assurance that you will receive many years of service from your Trimax Trent jaw crusher.

In addition, the Trimax Trent jaw crusher offers several optional add-ons to enhance its total package as a modern jaw crusher suitable for your quarry.

MONITORING SENSORS

Optional sensors for temperature and vibration monitoring of bearings can be supplied with your Trimax Trent jaw crusher, enabling real-time monitoring of the bearings.

AUTO-GREASING

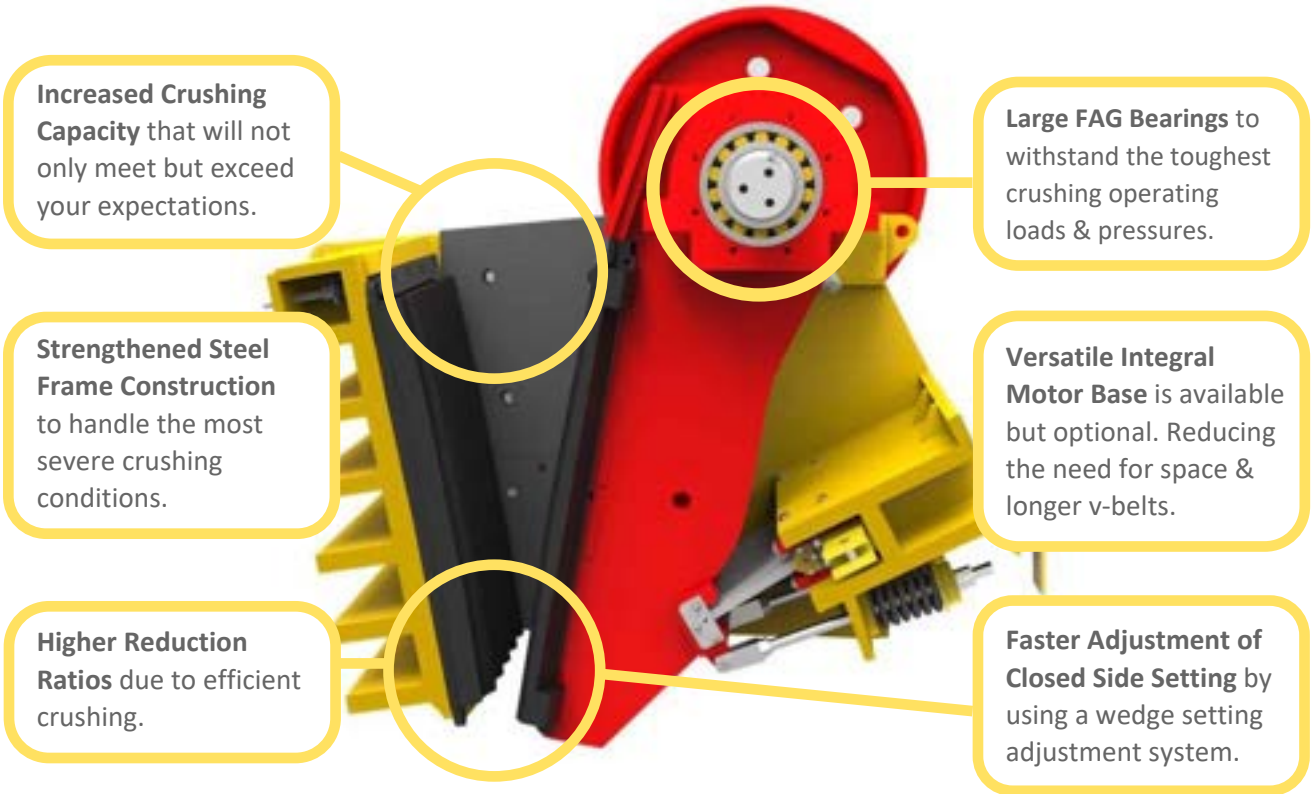
Optional auto-greasing of the Trimax Trent jaw crusher's bearings is now possible with the supply of a lubrication pump system.

Frequent and small measured quantities of greasing gives the bearings better protection as opposed to the common practice of replenishing grease only once before every shift.

MODERN DESIGN IMPROVEMENTS AT A GLANCE

A new model of our largest Trimax Trent Jaw Crusher has been introduced to replace the previous Trent 60-48 Jaw Crusher. This is the Trimax Trent JC160 Jaw Crusher. This new model has been designed with a strengthened steel frame construction but yet, with a relatively lighter overall crusher weight.

This new models is now able to serve the market better especially for direct one-to-one replacements of existing jaw crushers without the need to strengthen the existing steel structures they are installed on.

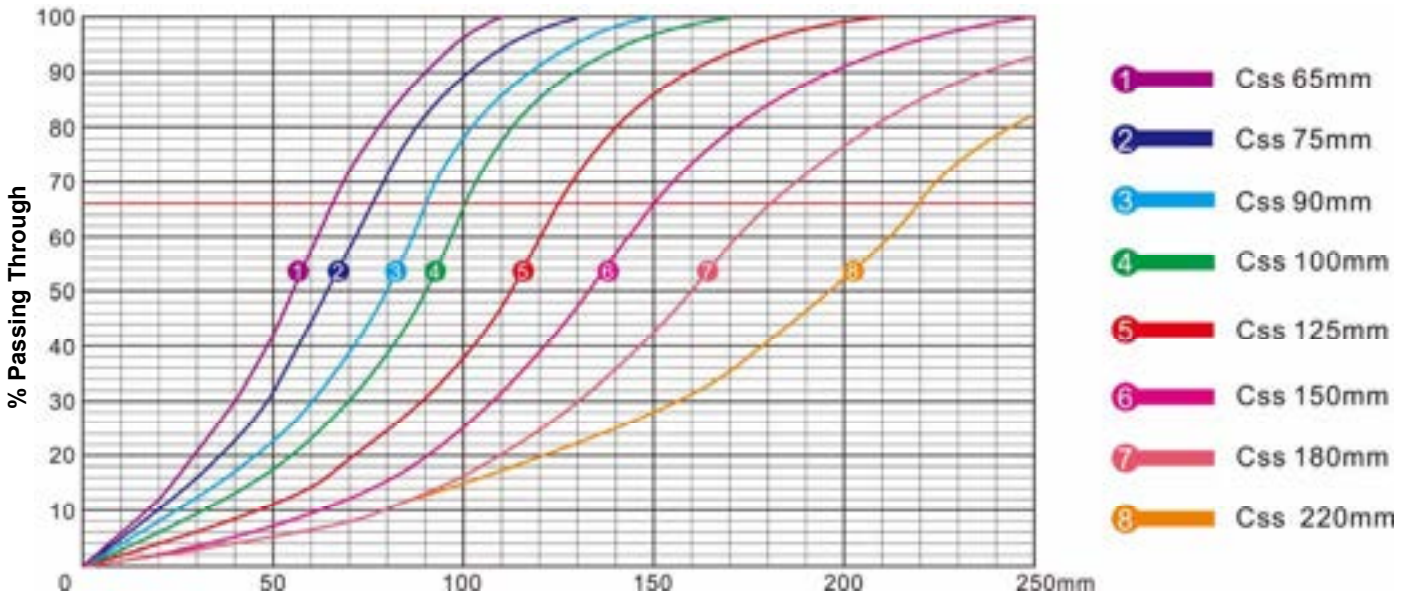


CRUSHING CAPACITIES

TRENT SERIES

MODEL	MOTOR KW (HP)	MAX FEED MM	FEED OPENING MM	NOMINAL CAPACITY IN TPH WITH CSS IN MM											WT. KG
				50	75	100	125	150	175	200	225	250	275	300	
36-25	90 (125)	620	930 x 580 (36" x 25")	125	160	195	225	255	290						18,100
42-30	110 (150)	750	1070 x 700 (42" x 30")		215	260	305	345	390	420					29,500
48-36	160 (200)	875	1220 x 910 (48" x 36")		280	330	385	440	495	535	570				42,300
54-42	185 (250)	850	1370 x 1070 (54" x 42")			395	470	535	615	670	720				62,900
JC160	250 (335)	1020	1600 x 1200 (63" x 47")					565	645	730	710	895	980	1065	78,700

Performance figures are approximate and only give an indication of what the crusher can do. Degree of reduction, material's crushability, size of feed material, and moisture content of feed material, etc. all affect crusher performance.



The product graph and the percentage of the crusher product that is smaller than the closed side setting (square hole, mm) is dependent on the crushability of the material, size distribution of the feed material, as well as other factors.

TRIMAX PFQ HORIZONTAL SHAFT IMPACT CRUSHERS

UNBEATABLE PERFORMANCE

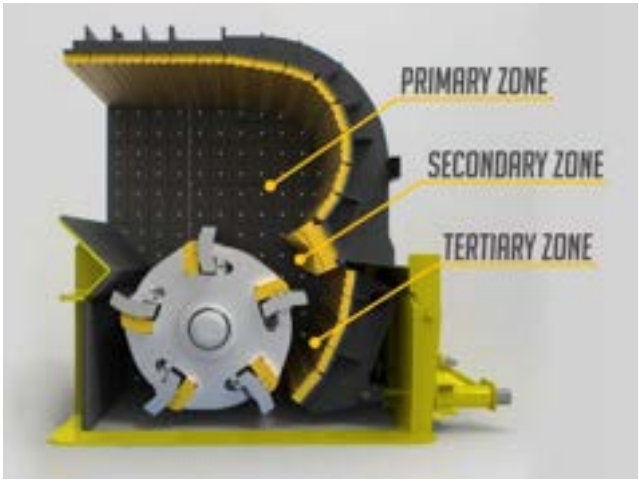
HIGH PERFORMANCE HSI

Trimax PFQ Horizontal Shaft Impact Crusher(HIS) features a combination of optimized rotor design, wear liner material, and crushing chamber design. This combination has proven revolutionary in improving capacity, product quality and in reducing operating and wear costs.

3 CRUSHING ZONES

The PFQ Horizontal Shaft Impact Crusher has 3 innovative crushing zones within its crushing chamber design.

These three innovative crushing zones enable it to achieve higher reduction ratios, high production volumes, and better shaping.



DESIGN FEATURES THAT MATTER

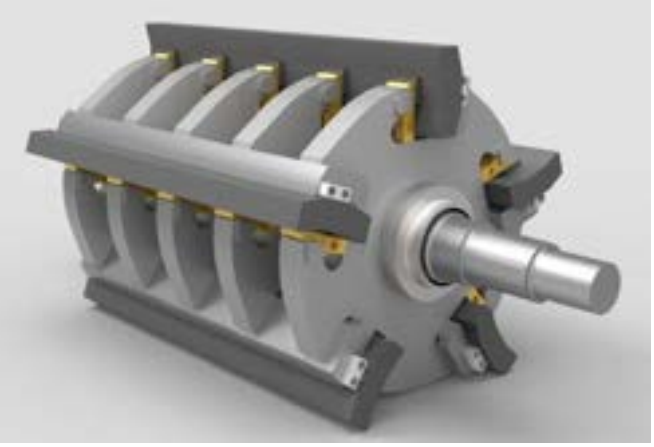
A combination of optimized rotor design and high rotational inertia allows higher crushing yields and greater crushing ratios.

CRUSHING CAPACITIES

PFQ SERIES

MODEL	MOTOR KW (HP)	MAX FEED MM		OUTPUT SIZE	CAPACITY TPH
		150 MPa	250 MPa		
PFQ1108	75 (100)	300	180	≤ 30mm (80 – 90%)	80
PFQ1110	110 (150)	400	200	≤ 35mm (80 – 90%)	110
PFQ1113	132 (175)	400	200	≤ 40mm (80 – 90%)	140
PFQ1310	160 (215)	500	200	≤ 40mm (80 – 90%)	180
PFQ1313	200 (270)	500	250	≤ 40mm (80 – 90%)	225
PFQ1315	250 (335)	500	300	≤ 40mm (80 – 90%)	280
PFQ1320	2 x 160 (2 x 215)	500	300	≤ 50mm (80 – 90%)	350
PFQ1520	2 x 250 (2 x 335)	600	300	≤ 50mm (80 – 90%)	500

Performance figures are approximate and only give an indication of what the crusher can do. Degree of reduction, material's crushability, size of feed material, and moisture content of feed material, etc. all affect crusher performance.



Innovative C-shaped hammers / blow bars made of heavy-duty wear alloy, ensure the stability of the output product shape and particle size distribution throughout its wear life.

The standard modular impact plates and side liners are highly interchangeable within the crushing chamber, enabling maximum versatility. This results in higher utilization rates and longer service wear life.

TRIMAX NS & NH CONE CRUSHERS

HEAVY DUTY CONE CRUSHERS

NS & NH CONE CRUSHERS

We have incorporated the latest cone crushing technology with field proven crushing concepts, and applied them in our range of heavy duty cone crushers.

WHY SIMPLY BETTER CRUSHERS

The Trimax range of heavy duty cone crushers consists of the NS series cone crusher suitable for secondary crushing applications and the NH series cone crusher suitable for tertiary crushing applications.

All Trimax cone crushers are high-speed cone crushers of heavy duty construction, with high reliability and durability that give exceptional production capacity relative to their size.

As a standard safety feature within the Trimax NH series cone crusher, the accumulator & hydraulic system functions as an Automated Overload Protection.

With the operator in mind, Trimax cone crushers are equipped with hydraulic closed side setting (CSS) adjustment at the push of a button. It is also designed for easy maintenance and is installed with SKF and FAG/INA bearings for added assurance that you will receive many years of service from your Trimax cone crusher.

DYNAMIC SETTING ADJUSTMENT

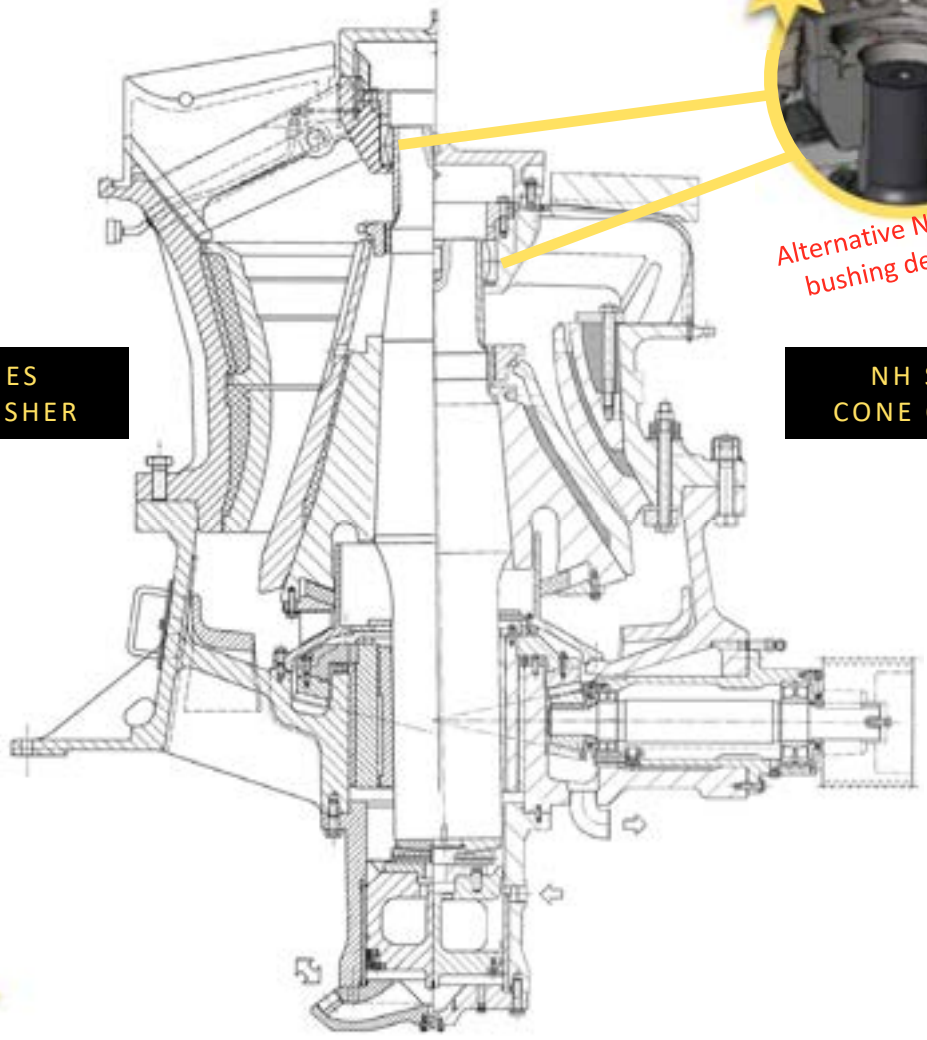
Closed Side Setting (CSS) can be hydraulically adjusted at the push of a button even when the crusher is under load.

EASY MAINTENANCE

All major components of the crusher can be disassembled from above, enabling easy maintenance.

MAXIMUM IN-BUILT VERSATILITY

A key design advantage of the Trimax cone crusher over our competitors is its in-built versatility. With its wide range of manganese liner options and multiple eccentric throw selection, it has the widest range of versatility available in the market and is capable to handle any type of crushing application.



DURABLE MAIN SHAFT BEARING

A spherical plain bearing is used instead of a conventional spider bushing, improving bearing life due to minimised resistance to the movement of the main shaft. This allows better alignment and extends the life of the eccentric and bronze bushings. Alternatively, the spider bushing design is available for customers who are more familiar with this design.

OPTIMISED OPERATING TEMPERATURE

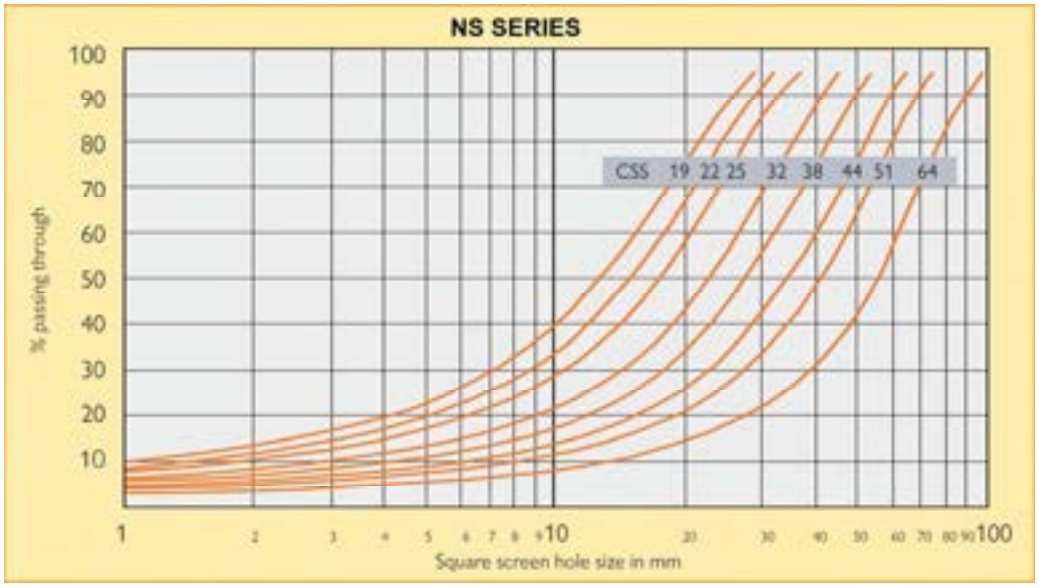
Both the larger lubrication tank and more effective cooling system have been designed to maintain the temperature of the crusher and assist it to operate within an optimal temperature range.

CRUSHING CAPACITIES

NS SERIES CAPACITY

MODEL	MOTOR KW	MAX FEED MM	NOMINAL CAPACITY IN TPH WITH CSS IN MM												
			22	25	29	32	35	38	41	44	48	51	54	60	64
NS300	160	EC 360		180	220	230	280	290	305	310	315	310			
		C 300	150	185	225	240	255	270	280	265					
NS400	220	EC 450				335	390	425	460	465	470	465	455		
		C 400			335	380	390	410	405	400	390	335			
NS600	315	EC 560							475	560	650	690	790	855	900
		C 500						490	510	590	700	725	755	820	790

Performance figures are approximate and only give an indication of what the crusher can do. Eccentric throw, degree of reduction, material's crushability, size of feed material, and moisture content of feed material, etc. all affect crusher performance.

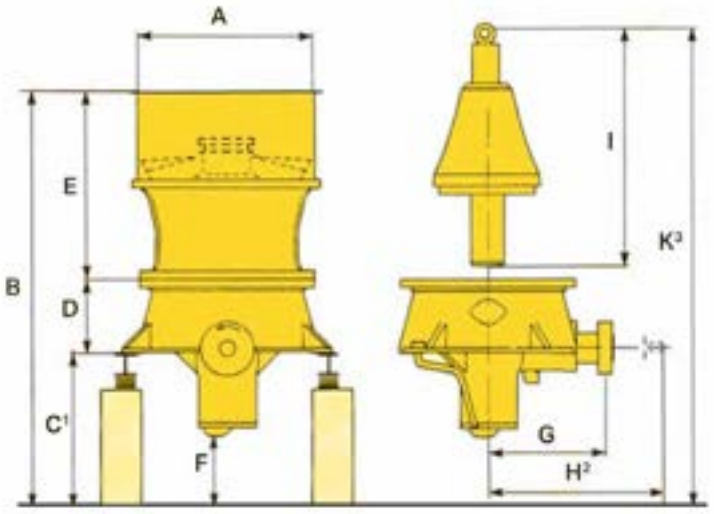


The product graph and the percentage of the crusher product that is smaller than the closed side setting (square hole, mm) is dependent on the crushability of the material, size distribution of the feed material, as well as other factors.

NS SERIES

DIMENSIONS, MM

Dim.	NS300	NS400	NS600
A	∅ 1635	∅ 2000	∅ 2800
B	2485	4075	5100
C1	1125	1300	1600
D	655	745	860
E	1705	2030	2640
F	422	452	631
G	1061	1280	1497
H2	1705	1900	2156
I	2050	2420	2895
K3	4250	4930	5355



Dimensions are intended only as a guide for preliminary planning of the installation and should not be used for the construction of foundations, etc.

APPROXIMATE WEIGHTS, KG

	NS300	NS400	NS600
Heaviest Lift During Maintenance	5100	8100	16500
Total Weight	12000	19300	35700

CRUSHING CAPACITIES

NH SERIES CAPACITY

MODEL	MOTOR KW	MAX FEED MM	NOMINAL CAPACITY IN TPH WITH CSS IN MM											
			6	8	10	13	16	19	22	25	32	38	44	51
		EC 190				105	130	140	150	160	180	210		
		C 145				115	125	130	145	150	170	160		
		MC 115			65	115	125	135	145	155	150			
NH300	160	M 90			90	115	130	135	140	150	140			
		MF 75		70	75	105	115	120	115	110				
		F 50		75	75	80	90	100	105	95				
		EF 35	75	75	80	85	95	100						
		EC 210					165	210	225	240	270	300	305	
		C 175				105	170	205	230	245	280	295	300	
		MC 140				115	195	210	220	235	250	265		
NH400	220	M 110				160	210	215	220	240	250	255		
		MF 85			120	185	200	215	230	245	250			
		F 70		120	145	155	170	180	190	205	200			
		EF 38	100	110	125	140								
		EC 275					210	325	390	415	480	540	590	510
		C 215					215	340	415	440	505	560	565	355
		MC 175					250	370	395	420	480	500	365	
NH600	315	M 135					300	400	425	455	475	480		
		MF 115				230	350	375	400	430	450	460		
		F 85				305	325	350	375	400	395	325		
		EF 65				295	315	300	290					

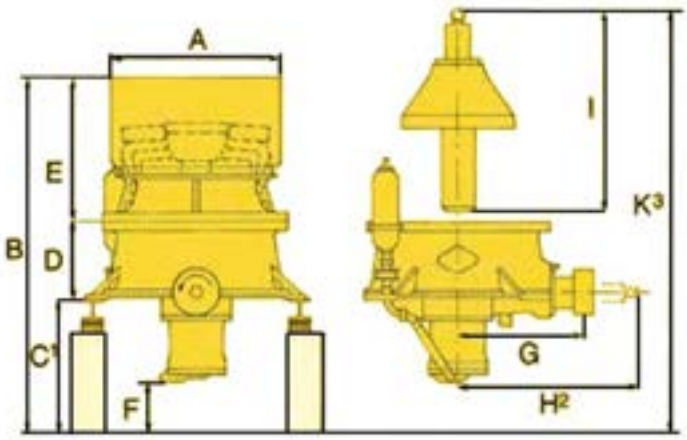
Performance figures are approximate and only give an indication of what the crusher can do. Eccentric throw, degree of reduction, material's crushability, size of feed material, and moisture content of feed material, etc. all affect crusher performance.

The product graph and the percentage of the crusher product that is smaller than the closed side setting (square hole, mm) is dependent on the crushability of the material, size distribution of the feed material, as well as other factors.

NH SERIES

DIMENSIONS, MM

Dim.	NH300	NH400	NH600
A	∅ 1360	∅ 1540	∅ 2104
B	2992	3410	4215
C^1	1125	1300	1600
D	655	745	860
E	1212	1365	1755
F	422	452	631
G	1061	1280	1497
H^2	1705	1900	2156
I	1688	1985	2344
K^3	3570	4000	4835

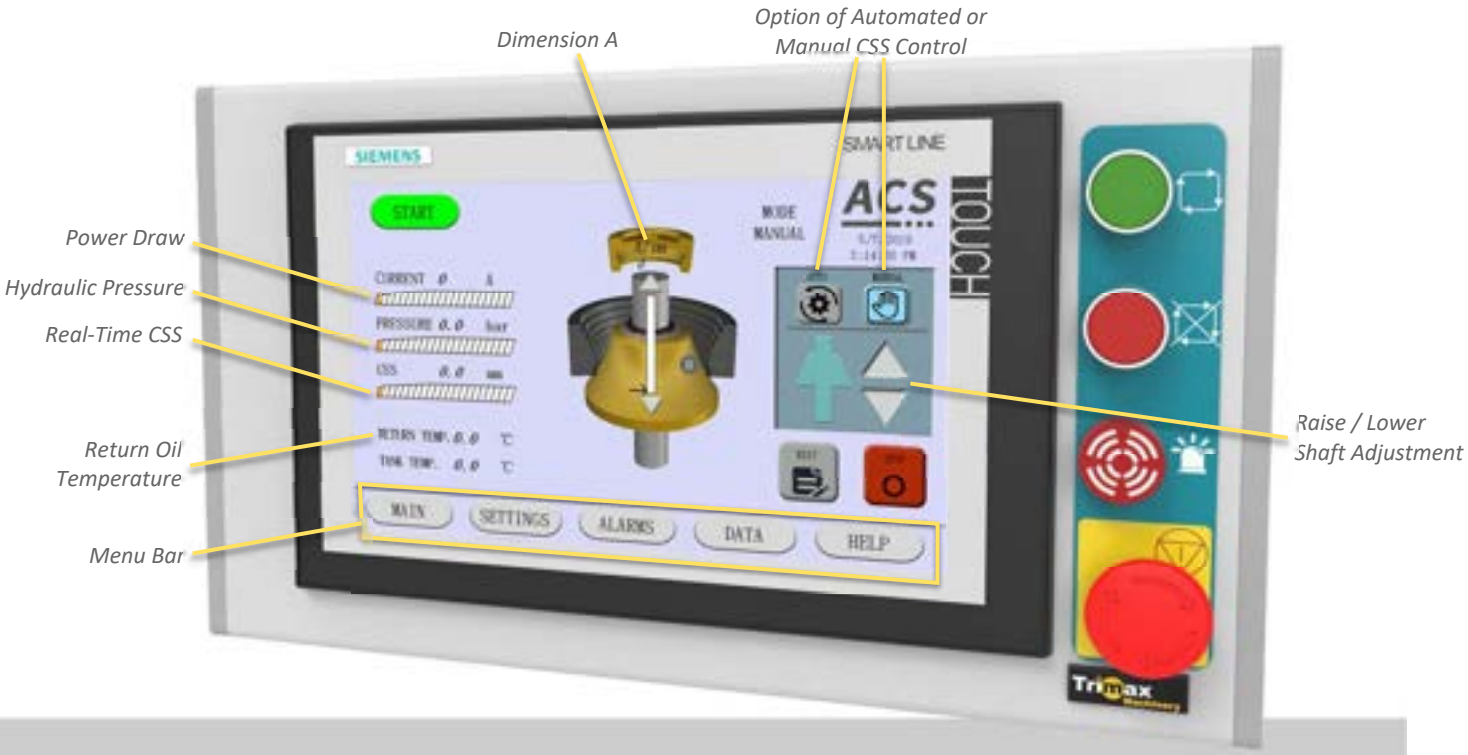


Dimensions are intended only as a guide for preliminary planning of the installation and should not be used for the construction of foundations, etc.

APPROXIMATE WEIGHTS, KG

	NH300	NH400	NH600
Heaviest Lift During Maintenance	2900	4700	8500
Total Weight	9200	14300	26800

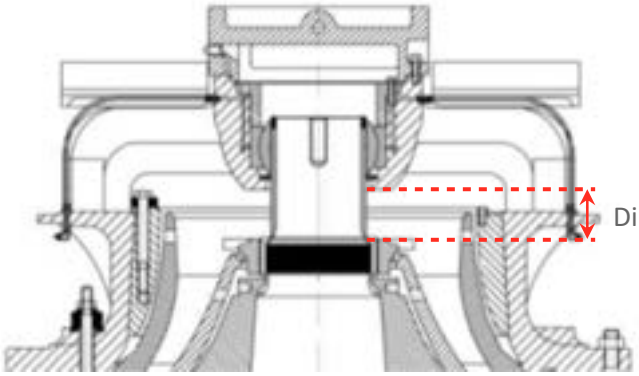

Trinax
Machinery

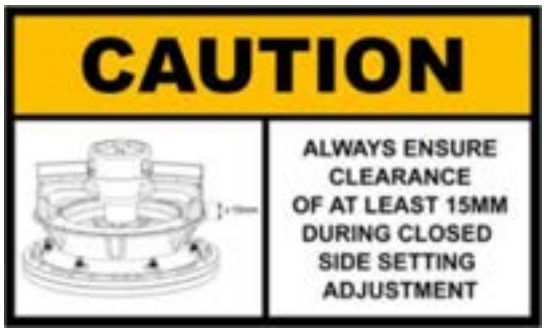


TRIMAX AUTOMATED CONTROL SYSTEM

REAL - TIME CSS MONITORING AT YOUR FINGER TIPS

Dimension A - Clearance Distance Between Main Bearing Chamber & Head Nut





IMPORTANCE OF DIMENSION A

CSS is not measured but instead, calculated by the program. The position of the piston and therefore, the shaft is measured by a position displacement sensor at the bottom of the crusher. By relating to dimension “A”, the CSS can be calculated.

A maximum shaft travel distance is pre-determined by the program settings to ensure that the mantle will not be able to collide with the main bearing chamber.

This figure is used during calibration to determine the bottom position and also a metal-to-metal position.

Once calibrated, dimension A can be checked by measuring between the main bearing chamber & head nut.

KEY COMPONENTS OF THE TRIMAX AUTOMATED CONTROL SYSTEM (ACS)

Position Sensor

Pressure Sensor

Touch Screen LCD

Push Button Control Station

KEY BENEFITS OF THE TRIMAX AUTOMATED CONTROL SYSTEM (ACS)

1. Controls your crusher automatically whilst protecting it from damage.
2. Helps increase production.
3. Helps obtain the highest degree of reduction.
4. Improves product distribution.
5. Achieves better product shapes.
6. Improves consistency of all aspects of final products.
7. Simple colourful graphics and touch-screen interface with built-in instruction manual that is easy for the operator to understand.

Today's customers have to maximise return on their investment. This not only means achieving the maximum throughput from their crushers but having control in a way that maximises the quality and volume of their most saleable products, while reducing maintenance costs especially unplanned and expensive traumatic failure.

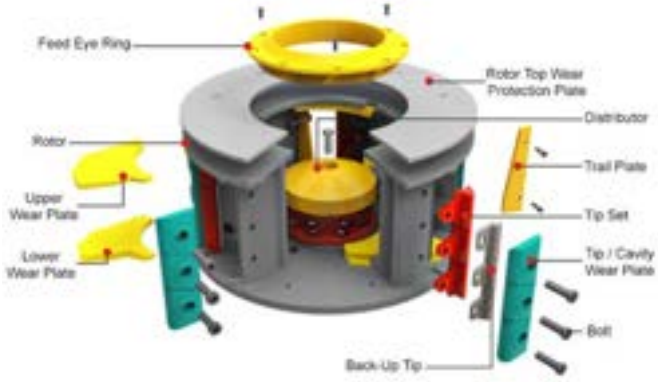
To achieve this, the customer has to have maximum control especially of the setting at which the crusher operates. This can only be accomplished with a setting control system such as the Trimax Automated Control System (ACS).

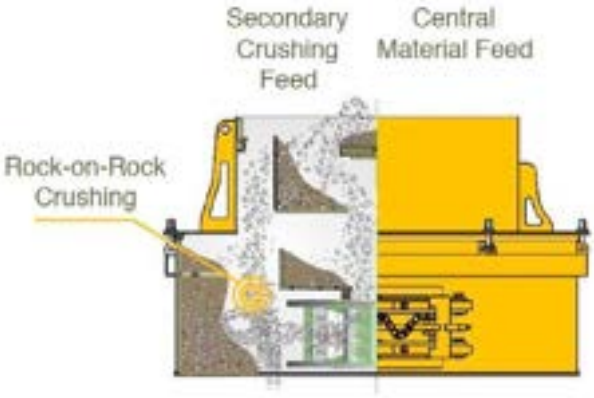
TRIMAX PLS VERTICAL SHAFT IMPACTORS

EXCELLENT SIZE REDUCTION & PRODUCT SHAPING

PLS VERTICAL SHAFT IMPACTORS

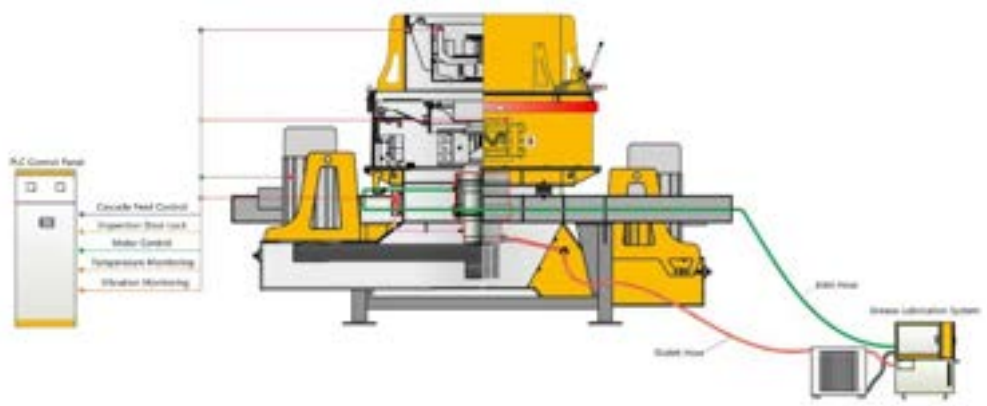
Trimax PLS Vertical Shaft Impactors are used for the production of high quality manufactured sand and high valued cubically shaped aggregates. Other applications include rolled compressed concrete (RCC) for dam construction, recycling industries crushing a wide range of materials (concrete glass, slag, etc.) and industrial mineral plants crushing extremely abrasive high-value materials.





AUTOMATED CONTROL SYSTEM

The optional Trimax Automated Control System (ACS) monitors the temperature of the bearings and vibration levels. An alarm will be raised if any faults are detected. In severe cases, an auto-stop function will be activated in order to protect the crusher.



CRUSHING CAPACITIES

PLS SERIES

MODEL	MAX FEED MM	ROTOR SPEED RPM	MOTOR KW	CAPACITY TPH	WEIGHT KG
PLS-700 II	35	1775 – 2050	55	30 – 38	7,500
			75	40 – 52	
			90	50 – 65	
			110	60 – 78	
PLS-850 II	50	1320 – 1720	2 x 90	95 – 125	11,500
			2 x 110	120 – 160	
			2 x 132	150 – 195	
			2 x 160	200 - 260	
PLS-1000 II	60	1240 – 1460	2 x 160	200 – 260	17,000
			2 x 200	250 – 325	
			2 x 220	275 – 360	
			2 x 250	320 – 410	
PLS-1200 II	60	1040 – 1300	2 x 250	320 – 410	22,650
			2 x 280	375 – 490	
			2 x 315	420 - 550	

Performance figures are approximate and only give an indication of what the crusher can do. Degree of reduction, material's crushability, size of feed material, and moisture content of feed material, etc. all affect crusher performance.

TRIMAX HS GRIZZLY FEEDERS

FIELD-PROVEN, DURABLE & EFFICIENT

SPECIFICATIONS

HS SERIES

MODEL	MOTOR KW	SCREEN SIZE MM	CAPACITY TPH	WEIGHT KG
HS-2	11	950 x 3800	150	4,800
HS-3	15	1100 x 4200	250	5,350
HS-4	18.5	1100 x 4900	300	6,265
HS-5	30	1500 x 4200	400	6,510
HS-6	37	1800 x 4800	600	12,175
HS-7	45	2100 x 5200	800	15,625

HS GRIZZLY FEEDER

The Trimax HS Grizzly Feeder offers the user efficient and fuss-free feeding of material. Exceptionally efficient performance coupled with high durability makes this feeder the preferred choice for many quarries.

KEY FEATURES

Trimax HS Grizzly Feeders are engineered to combine the functions of feeders and screens into one machine and are capable of accepting loads, bypassing material and moving material. The tapered opening design of the grizzly bars is self-cleaning. It nudges rocks hanging between bars along to increasingly wider openings, eventually separating them out from oversize material and bypassing the crusher.

Bypassing material that is already to size helps operators increase overall plant capacity, boost efficiency, control fines and reduce maintenance.

The main frame of a Trimax HS Grizzly Feeder is comprised of deep, fabricated side frames. heavy-duty cross-members, double eccentric shafts, and a pan section that incorporates yield-strength steel; all of which are welded and stress-relieved to provide operators with years of low-maintenance service.

In addition, replaceable grizzly bars and liners that protect the pan are installed in segments for economical replacement.

TRIMAX VIBRATING SCREENS

EFFICIENCY COUPLED WITH TOUGH CONSTRUCTION

SPECIFICATIONS

TRIMAX SERIES

MODEL	MOTOR KW	SCREEN SIZE MM	MODEL	MOTOR KW	SCREEN SIZE MM
1512	5.5	1524 x 3660 x 1 Deck	2720	18.5	2134 x 6096 x 2 Decks
2512	7.5	1524 x 3660 x 2 Decks	3720	18.5	2134 x 6096 x 3 Decks
2612	11	1830 x 3660 x 2 Decks	2820	22	2438 x 6096 x 2 Decks
2616	15	1830 x 4880 x 2 Decks	3820	37	2438 x 6096 x 3 Decks
2716	15	2134 x 4880 x 2 Decks	2824	30	2438 x 7316 x 2 Decks
3716	15	2134 x 4880 x 3 Decks	3824	45	2438 x 7316 x 2 Decks
2620	15	1830 x 6096 x 2 Decks	21024 *	2 x 30	3000 x 7300 x 2 Decks
3620	18.5	1830 x 6096 x 3 Decks	31024 *	2 x 30	3000 x 7300 x 3 Decks

TRIMAX VIBRATING SCREEN

The Trimax vibrating screen is a field-proven vibrating screen that is of heavy duty construction.

It comes in single, double, and triple deck configurations of various sizes for added flexibility.

HEAVY DUTY DESIGN

The use of bended steel side plates prevent warping during prolonged stresses. It also has vertical stiffening angle bars which add rigidity to its already rugged construction.

MINIMAL RESONANCE MOTION

The unique spring-controlled centrifugal counterweight# assembly's innovative feature eliminates excessive resonance motion when the vibrating screen is starting or stopping.

LOW POWER REQUIREMENTS

The Trimax vibrating screen is able to accelerate to optimal operating speeds with a smaller driving torque and drive motor when compared to a fixed counterweight design#.

ADJUSTABLE COUNTERWEIGHTS

Amplitudes of circular motions can be varied by increasing or decreasing the number of counterweights bolted to the counterweight arms on either side of the centrifugal counterweight assembly#.

PERFORMANCE & RELIABILITY

The Trimax vibrating screen is installed with FAG Germany bearings for added performance & reliability.

** Come with twin eccentric shafts.*
 # All models except 21024 & 31024.

TRIMAX MOBILE SOLUTIONS

MORE PRODUCTION. LESS HASSLE.

TRIMAX MOBILE SOLUTIONS

Trimax Machinery manufactures wheeled mobile crushing, screening & conveying equipment. These are customised Primary, Secondary, Tertiary and Quaternary aggregate processing solutions for applications in the quarrying and construction industries.

Our mobile product line includes: Trimax Trent jaw crushers, Trimax NS & NH cone crushers, Trimax PFQ horizontal shaft impact crushers, and Trimax PLS vertical impact crushers, vibrating screens and conveyance systems in a range of sizes and configurations to suit individual requirements.

GUIDING PRINCIPLE

At Trimax Machinery, we are constantly aiming to produce the very best in wheeled mobile crushing, screening & conveying equipment. When designing customised mobile solutions for our customers, we understand how your equipment needs to work together in unison in order to provide you with the best possible end products.

Having spent time in the field, we understand the challenges that you face when it comes to crushing and screening, and so we continually develop and improve our customised mobile solutions in order for you to get the very best performance from your equipment.

More Production. Less Hassle.

TRIMAX COMPLETE PLANT SOLUTIONS

PLANNING & EXECUTION

SEEING BEYOND CRUSHERS

Over the years, Trimax Machinery has progressed beyond being just a supplier of “Simply Better Crushers”. We have evolved to become a complete solutions provider. Compelling both customers and competitors alike to view Trimax Machinery as “Seeing Beyond Crushers”.

When it comes to complete crushing & screening plants, Trimax Machinery has the ability to perform the necessary planning & execution.

Checklist

- ☑ Process Flow Diagrams
- ☑ Plant Design
- ☑ Civil Work Construction (Some Locations Only)
- ☑ Main Equipment
- ☑ Electrical Control & Cabling
- ☑ Shipping & Domestic Transportation
- ☑ Plant Installation
- ☑ Plant Commissioning
- ☑ Operational & Maintenance Training
- ☑ Recommended Spares & Wear Parts List

From developing initial process flow diagrams and plant layouts to furnishing complete systems, Trimax Machinery is ready to help regardless of project size.

All Trimax crushing plants are pre-designed and modular. Compared to traditional crushing plants supplied by other competitors, a modular solution always provides higher efficiency and faster set-up times. Enabling quicker Return on Investment.

COMPLETE PLANT CASE STUDY 1

This was a project completed during the Covid-19 global pandemic. On 2 February 2021, we completed and commissioned a Trimax 550TPH Crushing & Screening Plant in Cigudeg, Bogor, Indonesia. This was the first time that this particular customer had ventured into the aggregates quarrying industry and the close support provided by Trimax Machinery every step of the way, greatly helped in giving customer confidence that the project would be completed successfully.

COMPLETE PLANT CASE STUDY 2

At the height of the Covid-19 global pandemic, we completed and commissioned another Trimax 650TPH Crushing Plant on 31 August 2021.

There were some notable features of this crushing and screening plant. Firstly, part of the project included a washing plant with a thickener tank and filter press for water treatment and recovery. It also had a corrugated steel tunnel underneath the various end product stock piles that would transfer the various end products onto an overland conveyor.

Finally, these final products would be conveyed on this overland conveyor to a cement plant 3.5km away.

MODULAR SKID MOUNTED PLANTS

Trimax Modular Skid Mounted Plants incorporate standardised plant designs of various production capacities, timely manufacturing of machinery and steel structures, optimized packing, and logistics delivery to sites, fast execution upon arrival at sites, fast set-up times, commissioning and operation.

Ask Yourself

- ☑ Do you have a limited contract time period to perform a maximum amount of crushing & screening?
- ☑ Do you want to reduce time consuming civil work construction as much as possible?
- ☑ Do you want to have an operational crushing & screening plant to start earning revenue for you as soon as possible?

Existing crushing plants have existing machinery and unique plant layouts. However, growing and complex markets demand more specific requirements that existing crushing plants may have difficulties meeting. At Trimax Machinery, we respond to this growing demand with individualised solutions that bring you forward and enable your existing crushing plant to upgrade to meet these new requirements. Based on our extensive collected expertise and knowledge, we are able to offer individual customised solutions, that also convince you economically. Our ultimate aim is to offer a solution with real value and tangible results.

EXISTING PLANT UPGRADE CASE STUDY 1

In late 2017, we were requested by a customer to give a proposal to upgrade his existing crushing plant. Through computer-aided simulation, we identified that the existing secondary cone crusher was the bottle-neck. This led to a change to a larger Trimax NS400 Cone Crusher.

We also identified that the existing final product vibrating screen would also need to be upgraded from a 2820 to a 2824 vibrating screen, in order to accommodate the eventual new total plant production.

A new feed chute to the new cone crusher, railings and walk-ways for both machineries, were also supplied as part of the project. The final plant capacity test proved a 30% increase in production as a result of this upgrading project.

EXISTING PLANT UPGRADE CASE STUDY 2

EXISTING PLANT UPGRADES

BRINGING YOU FORWARD

In early 2019, 3 cone crushers were sent to us for reconditioning. Besides inspecting and replacing the usual wear and spare parts normally done for these crushers that were more than 10 years old, Trimax Machinery was asked to convert these cone crusher from the spider bushing design to the field-proven spherical plain bearing design. This conversion was done successfully and these crushers are now operational and back to their original production capacities.

EXISTING PLANT UPGRADE CASE STUDY 3

In late 2021, we were approached by a customer who had an existing crushing plant in Perlis, Malaysia. The primary section of this crushing plant had excess crushing capacity. At the same time, there was an increased demand for more aggregates from his customers. Therefore, he wanted to expand the overall production capacity of his quarry.

Trimax Machinery was tasked to supply a brand new secondary and tertiary crushing plant extending from the existing primary stock pile capable of producing 250tph of aggregates.

A steel tunnel was installed at the side of the existing primary stock pile. A total of 4 products were required. 0 - 50mm crusher run, 10 – 25mm aggregate product, 6 – 10mm chipping product and a 0 – 6mm dust product.

Trimax Machinery designed, supplied and installed a modular plant to meet the needs of this particular customer.

A Trimax ADplus 2512 vibrating screen with 90mm aperture wire meshes on the top relief deck and 50mm aperture wire meshes on the bottom deck served the function of a scalping screen. A Trimax NS300 Cone Crusher was used as a secondary cone crusher accepting scalped feed material above 50mm. Finally, completing the circuit, a Trimax NH300 Cone Crusher was fed with the oversized 25mm material from a Trimax ADplus 3820 vibrating screen fitted with 25mm, 10mm, and 6mm aperture wire meshes.

In August 2022, this crushing plant extension was successfully commissioned and a capacity test was conducted. This crushing plant extension achieved a rated capacity of 330tph for all 4 products, far exceeding the initial 250tph requirement. Completing yet another successful crushing plant upgrade.

CONVEYANCE SOLUTIONS

WE KEEP YOU MOVING

JETTY CONVEYORS, OVERLAND CONVEYORS & GENERAL BULK CONVEYORS

Trimax Machinery implements customer-specific and efficient conveyor systems specific to different objectives and topographical contexts. Catering to challenging routing and intermediate discharge points. Here are some key elements in our conveyance solutions.

IDLER
- BETTER SEALING
- LOW MAINTENANCE
- COST EFFECTIVE

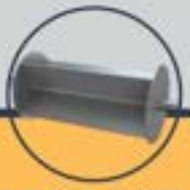
IMPACT ROLLER
- ABSORBS IMPACT
- REDUCES BELT DAMAGE

SELF-CENTERING ROLLERS
- SELF-ALIGNING
- RELIABLE

HEAD & TAIL DRUMS
- CUSTOMISED SIZES
- LAGGING OPTIONS

BELT CLEANER
- EFFECTIVE
- DURABLE
- COMPETITIVE PRICE

CONVEYOR BELT
- HIGH TENSILE STRENTH
- DURABLE



PADDLE WHEEL
- MINIMISES MATERIAL SEGREGATION

IMPACT BED
- ABSORBS IMPACT
- REDUCES BELT DAMAGE

METAL DETECTOR
- EASY INSTALLATION
- ADJUSTABLE SENSITIVITY

PLUMMER BLOCK
- HIGH LOAD RATING
- DUST PROTECTION
- WATER PROTECTION

MAGNET
- HIGH STRENTH
- LOW MAINTENANCE
- COMPETITIVE PRICE

SPEED REDUCER
- HIGH PRECISION
- HIGH EFFICIENCY
- HIGH QUALITY

FOOT MOUNTED MOTOR
- 40 YEARS
- HIGH RELIABILITY

VIBRATORY MOTOR
- ZERO MAINTENANCE
- OPTIMISED DESIGN

GEAR MOTOR
- ALL STEEL
- ROBUST
- HIGH EFFICIENCY

ADPLUS ONLINE SHOP

HTTPS://ADPLUSONLINE.COMPANY.SITE

SEARCH. ORDER. DONE.

CONVENIENCE AT YOUR FINGERTIPS

The ADPLUS Online Shop aims to fulfill many customers' present needs for: -

- Ease of search for crusher parts and other quarry supplies.
- Available 24 x 7 / 365 days a year. Come rain or shine or even during a global pandemic.
- Unparalleled convenience when ordering.
- Centralised purchasing control required by many Purchasing Mangers or Department Heads for their various crusihing sites.
- Monitoring of transparent purchasing decisions by purchasers required by top management.

SINGAPORE HEADQUARTERS
8 Ubi Road 2
04-08 Zervex
Singapore 408538
Tel : +65 6894 8816
sebastian@trimaxmachinery,com

AUSTRALIA
INTEGRATED QUARRY AND MINING SERVICES PTY LTD
2/219 Derrimut Drive
Derrimut VIC 3020
Australia
Tel : 1300 787 240
leigh@iqmaintenance.com.au

QUARRY & MINING MANUFACTURE PTY LTD
24 – 30 Kauna Ave
Edinburgh Parks SA 5111
Australia
Tel : 08 8349 0900
sales@qmm.net.au

INDONESIA
Ruko Citra Grand Blok CW 9 No. 23
Jatikarya Jatisampurna
Bekasi Jawa Barat 17435
Indonesia
Tel : 021 8430 5490
raymond@trimaxmachinery.com

MALAYSIA
No. 19 Jalan Mega 1/6
Taman Perindustrian Nusa Cemerlang
79200 Nusajaya Johor
Malaysia
Tel : 07 509 7877
dennis@trimaxmachinery.com

86 Jalan Sawit Baru 5
Taman Perindustrian Sawit Baru
81030 Kulai Johor
Malaysia
Tel : 07 652 5088 / 6088
bhong@adplus.com.sg

No. 6 Jalan Desa Serdang 5
Desa Serdang
43300 Seri Kembangan
Selangor Darul Ehsan Malaysia
Mobile : 012 670 0161
slcheng@trimaxmachinery.com

KH CHIN TRADING SDN BHD
No. 5 Lorong Saga Jaya 7
Taman Perindustrian Saga Jaya
13600 Perai Penang
Malaysia
Mobile : 012 478 3881
sale@khchin.com