

Metso NW Series™
Portable crushing & screening plants



Bringing
performance
to wherever
it's needed





Right where you need us We supply competitiveness

At Metso, we know that the only real measure of our worth is in the results we deliver to our customers. Our expertise is rooted in more than a century of experience that today provides our customers with an unparalleled knowledge base, rock-solid financial resources – plus the engineering knowhow, innovative technologies and the worldwide presence to ensure that your crushing and screening operations will profit.

Metso NW Series™ portable plants are fully adaptable to all portable crushing and screening needs, opening up a whole new range of business opportunities for contractors, quarry operators, recycling and mining applications. NW Series plants can be operated as independent units or as a two- or three-stage crushing application: from primary to secondary, tertiary and fine crushing.

NW Series portable plants are built around the proven Nordberg® and Barmac® crushers, which are respected worldwide for their engineering quality, crushing efficiency, versatility and cost-effectiveness.

Metso NW Series™

Why choose Metso portable solutions?



Reliability

- High level of engineering
- Persistent quality testing
- Metso's premium-quality components
- More than a century of experience



High capacity

- The best crushers on the market
- Good reliability, good availability
- Metso NW for every application
- Metso's wear parts and cavity design



Energy and environment

- Electric drive
- Advanced dust and noise reduction
- Easy to transport



Safety

- Proper stairs and platforms
- Finger protection and safety wires
- One button process start & stop



Easy to use & maintain

- One button process start & stop
- Real-time diagnostics & easy process optimization
- All main languages available
- Interlocking for multistage process
- Industry-leading service network



Jaw plants

Metso NW Series primary crushing plants are built around Nordberg C Series jaw crushers. The crushers are engineered for the toughest feed materials. The reliability of C Series jaw crushers is based on a revolutionary pinned and bolted, non-welded frame construction. This design provides excellent fatigue strength even in the toughest quarrying and mining applications.

A complete solution

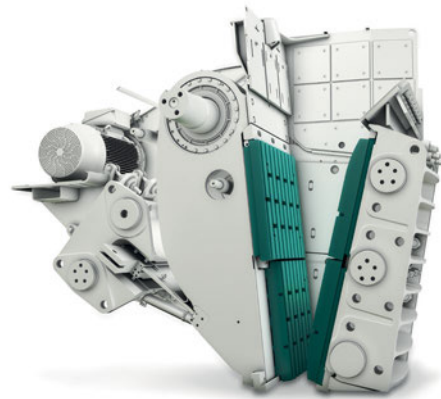
There are seven jaw crusher models for portable applications. These models are recommended for operations that require efficient primary crushing for aggregate production, recycling or mining.

Besides reliable crushers, NW Series jaw plants feature strong, specially designed chassis reducing unit length and weight. Feeders, conveyors and electric parts are all manufactured from first-class Metso components.

By choosing the options available, you can modify your NW portable plant to suit your crushing application accurately.

Benefits

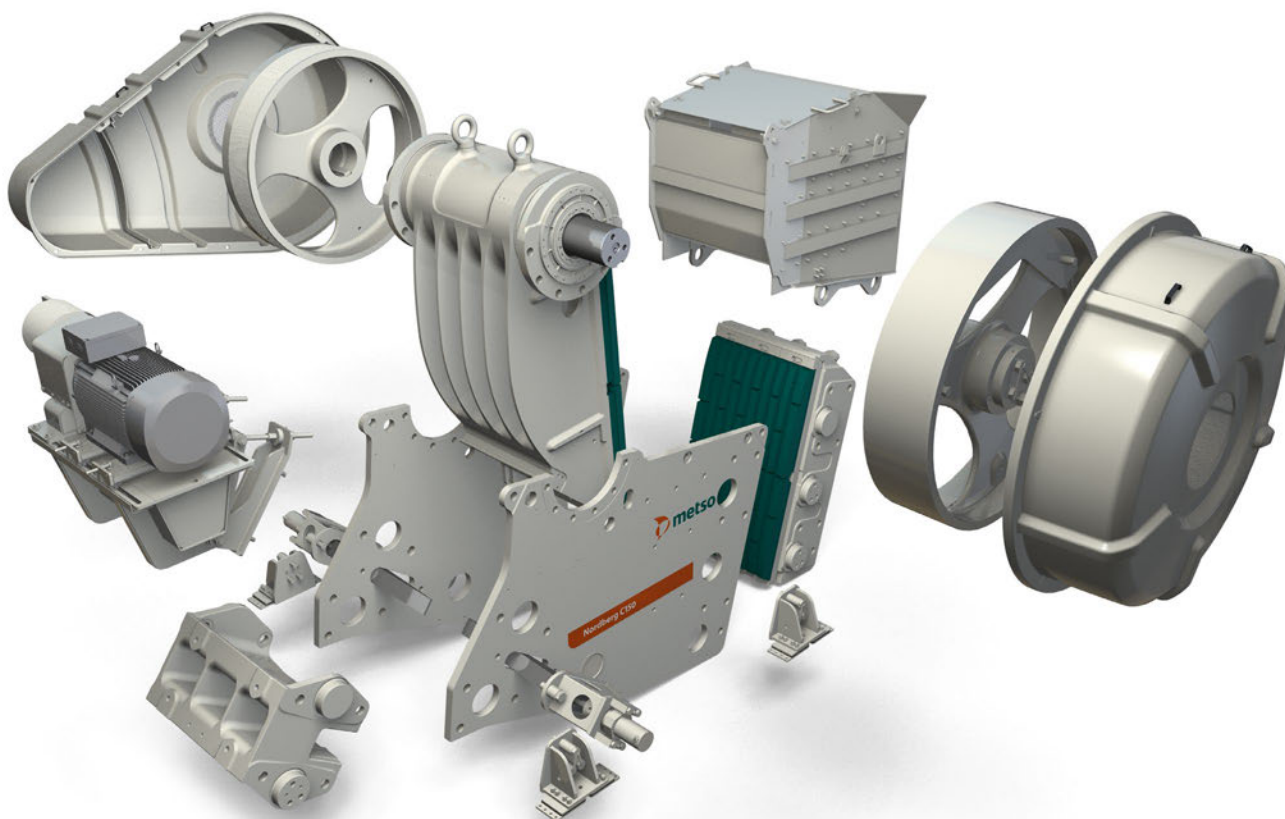
- Efficient and reliable C Series jaw crushers
- Reduced length and weight
- Excellent process flexibility
- Guaranteed customer service worldwide



Nordberg® C120™ jaw crusher

Metso NW Series Jaw Plants

	NW80™	NW96™	NW106™ (Rapid)	NW116™ (Rapid)	NW120™ (Rapid)	NW120UG™	NW130™	NW150™
Transport dimensions						Crusher unit / feeder unit		
Length	9 400 mm	12 000 mm	13 500 mm	15 300 mm	13 725 mm	9 740 mm / 11 630 mm	16 500 mm	17 600 mm
Width	2 500 mm	2 500 mm	3 000 mm	3 500 mm	2 460 mm	3 420 mm / 3 330 mm	3 500 mm	3 500 mm
Height	4 050 mm	3 300 mm	3 700 mm	4 100 mm	4 500 mm	3 350 mm / 3 010 mm	4 500 mm	4 900 mm
Weight	19 600 kg	26 000 kg	35 500 kg	47 000 kg	53 000 kg	36 300 kg / 25 000 kg	65 000 kg	82 000 kg
Bogie weight	9 100 kg	16 000 kg	20 000 kg	30 800 kg	30 000 kg	22 000 kg / 14 000 kg	37 000 kg	50 000 kg
King pin weight	10 400 kg	10 000 kg	15 500 kg	16 200 kg	23 000 kg	14 300 kg / 11 000 kg	28 000 kg	31 500 kg
Crusher								
Model	Nordberg® C80™	Nordberg® C96™	Nordberg® C106™	Nordberg® C116™	Nordberg® C120™	Nordberg® C120™	Nordberg® C130™	Nordberg® C150™
Feed opening (width x depth) (mm)	800 x 510	930 x 580	1 060 x 700	1 150 x 760	1 200 x 870	1 200 x 870	1 300 x 1 000	1 400 x 1 200
Setting range	40 - 175 mm	60 - 175 mm	70 - 200 mm	70 - 200 mm	70 - 200 mm	70 - 200 mm	100 - 250 mm	125 - 250 mm
Motor power	75 kW	90 kW	110 kW	132 kW	160 kW	160 kW	160 kW	200 kW
Feeder								
Model	TK8-27-2V	TK8-32-2V	TK11-42-2V	TK11-48-2V	TKF12-48-2V	B13-56-2V	VF561-2V	VF661-2V
- length	2 700 mm	3 200 mm	4 200 mm	4 800 mm	4 800 mm	5 600 mm	6 100 mm	6 100 mm
- width	800 mm	800 mm	1 100 mm	1 100 mm	1 200 mm	1 300 mm	1 300 mm	1 600 mm





Cone plants

In portable applications with requirements for efficient secondary, tertiary and fine crushing with high productivity, good reduction ratio and excellent cubicity requirements, the ultimate choice is the Metso NW Series portable plant equipped with proven GP and HP Series cone crushers. Nordberg GP and HP Series cone crushers feature a unique combination of crusher speed, throw and cavity design.

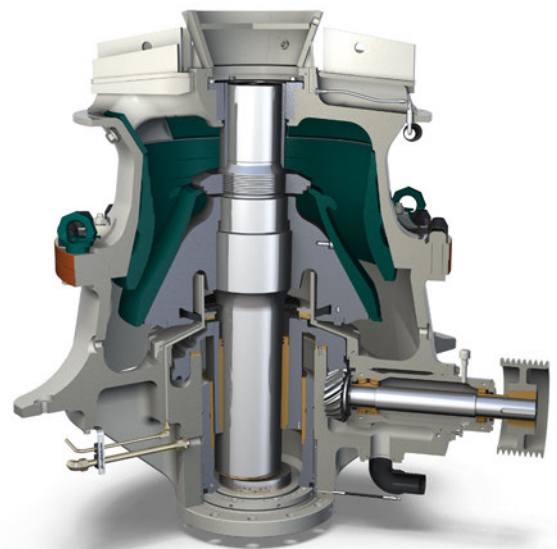
A versatile solution

According to your crushing application, you can choose from seven different portable plants with GP cones and eight with HPs. If your crushing project requires a portable plant with screen, NW100GPC(S), NW100HPC-CC, NW220GPD, NW200HPD, NW330GPS, NW300HPS and NW96200HPS are equipped with an on-board screen.

When needing secondary and tertiary cones for two- or three-stage portable processes, you can find the right cone crushers from the GP and HP series, ensuring accurate adaptability to your crushing process.

Benefits

- Built around Nordberg GP and HP cone crushers
- High capacity and excellent end-product cubicity
- Excellent process flexibility
- Wide range available, also with on-board screens



Nordberg® GP330™ cone crusher.

Metso NW Series Cone Plants

	NW200HPD™ (Rapid)	NW220GPD™ (Rapid)	NW300HPS™ (Rapid)	NW330GPS™ (Rapid)	NW96200HPS™
Transport dimensions					
Length	13 500 mm	13 500 mm	15 000 mm	15 000 mm	20 460 mm
Width	3 000 mm	3 000 mm	2 500 mm	2 500 mm	2 630 mm
Height	4 400 mm	4 400 mm	4 200 mm	4 200 mm	4 130 mm
Weight	33 500 kg	33 500 kg	54 000 kg	54 000 kg	61 100 kg
Bogie weight	19 000 kg	19 600 kg	36 000 kg	36 000 kg	39 000 kg
King pin weight	14 500 kg	13 900 kg	18 000 kg	18 000 kg	21 850 kg
Crusher					
Model	Nordberg® HP200™	Nordberg® GP220	Nordberg® HP300™	Nordberg® GP330™	Nordberg® C96™ Nordberg® HP200™
Feed opening	25 - 185 mm	58 - 213 mm	25 - 230 mm	85 - 225 mm	930 x 580 mm (C96™) 25 - 185 mm (HP200™)
Setting range	10 - 38 mm	8 - 35 mm	10 - 45 mm	8 - 35 mm	60 - 175 mm (C96™) 10 - 38 mm (HP200™)
Motor power	132 kW	220 kW	220 kW	315 kW	350 kW
Screen					
Model	DS1855-4	DS1855-4	CVB2060-4M	CVB2060-4M	ES 6' x 14' TD
- length	5 500 mm	5 500 mm	6 000 mm	6 000 mm	4 300 mm
- width	1 800 mm	1 800 mm	2 000 mm	2 000 mm	1 800 mm

	NW100GPC(S)™	NW100HPC-CC™	NW500GP™	NW550GP™	NW1855D™
Transport dimensions					
Length	12 600 mm	16 800 mm	15 000 mm	13 000 mm	13 500 mm
Width	2 500 mm	3 000 mm	3 500 mm	3 500 mm	3 000 mm
Height	4 060 mm	4 200 mm	4 500 mm	4 300 mm	4 400 mm
Weight	25 400 kg	3 0000 kg	54 500 kg	43 800 kg	33 500 kg
Bogie weight	12 000 kg	2 0000 kg	35 800 kg	28 000 kg	18 200 kg
King pin weight	13 400 kg	10 000 kg	18 700 kg	15 800 kg	7 900 kg
Crusher					
Model	Nordberg® GP100™ Nordberg® GP100S™	Nordberg® HP100™	Nordberg® GP500S™	Nordberg® GP550™	
Feed opening	46 - 142 mm (GP100) 206 - 293 mm (GP100S)	20 - 150 mm	321 - 442 mm	68 - 265 mm	
Setting range	6 - 20 mm (GP100) 20 - 45 mm (GP100S)	6 - 32 mm	45 - 70 mm	10 - 45 mm	
Motor power	90 kW	90 kW	315 kW	315 kW	
Screen					
Model	CVB1540-4	CVB1540-4			DS1855-4
- length	4 000 mm	4 000 mm			5 500 mm
- width	1 500 mm	1 500 mm			1 800 mm



Impactor plants

Metso NW Series portable VSI plants are built around Barmac® B Series™ Vertical Shaft Impactor (VSI). Barmac is the original rock-on-rock impactor. It has become synonymous with high-quality products in quarrying and minerals processing industries.

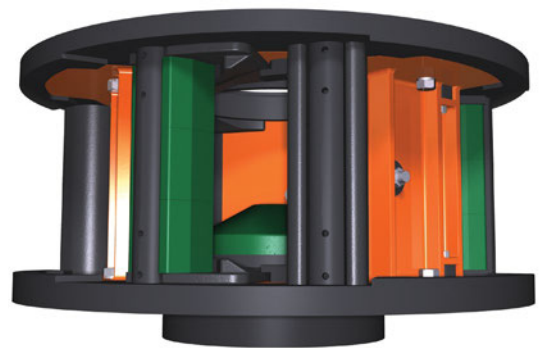
Proven producer of premium quality

The crushing process makes Barmac VSI unique. Whereas most other types of crushers use metallic parts to crush rock, Barmac VSI uses the rock fed into the machine to crush itself. This autogenous crushing action offers the lowest possible cost per ton of any impact crushing method. The high velocity impact crushing achieved in a Barmac VSI improves the soundness and shape of the material and produces the highest quality end products on the market today. It is widely known that the more cubical your product, the better its performance in concrete, asphalt and base mixtures.

Barmac VSI is usually applied in the last phase of the crushing circuit. The quarrying and construction industry has always been Barmac VSI's main application area with thousands of units operating around the world, followed by many demanding manufactured sand, heap leaching, pre-grinding, industrial minerals and recycling applications. This is possible because of the unique free-impact crushing and grinding action combined with the ability to accept fines in the feed and to fine-tune the crusher's performance by simply changing the rotor speed or cascade ratio.

Benefits

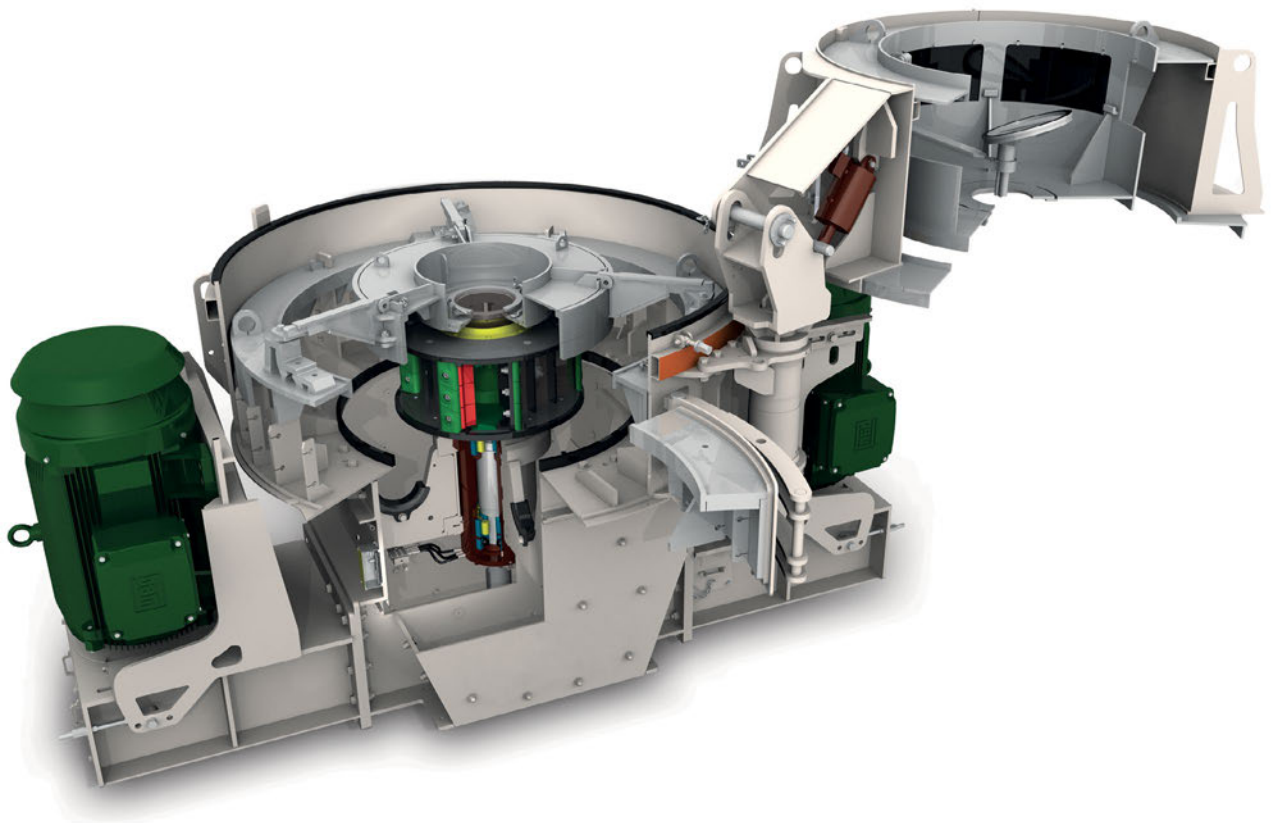
- Based on the original Barmac vertical shaft impactor
- Minimized wear part costs
- Easy to add as the third/fourth crushing stage
- High end-product cubicity guaranteed



Metso's new Orange Series Rotor is a user-friendly and cost-effective solution for your VSI application. Uptime can be significantly increased through shorter maintenance intervals and longer life time of wear parts.

Metso NW Series Impactor Plants

	NW7150D™ Single drive (Rapid)	NW7150D™ Dual drive (Rapid)	NW9100C™	NW1213™ (Rapid)
Transport dimensions				
Length	13 500 mm	13 500 mm	14 530 mm	15 600 mm / 14 200 mm
Width	3 000 mm	3 000 mm	3 480 mm	2 500 mm
Height	4 400 mm	4 600 mm	4 980 mm	4 100 mm
Weight	32 500 kg	33 000 kg	40 000 kg	35 000 kg / 39 000 kg
Bogie weight	18 500 kg	18 600 kg	25 600 kg	19 000 kg / 22 000 kg
King pin weight	14 000 kg	14 400 kg	14 200 kg	16 000 kg / 17 000 kg
Crusher				
Model	Barmac® 7150SE™	Barmac® 7150SE™	Barmac® B9100SE™	Nordberg® NP1213™
Max feed size	45 mm	45 mm	50 mm	250 mm (belt feeder) / 600 mm (grizzly feeder)
Motor power	220 kW	2x 150 kW	2x 220 kW	250 kW
Screen				
Model	DS1855-4	DS1855-4	CVB2060-4M	
- length	5 500 mm	5 500 mm	6 000 mm	
- width	1 800 mm	1 800 mm	2 000 mm	





NW Rapid™

Versatile Metso NW Rapid equipment makes any project, from small to large, profitable. The portable crushing and screening units enable flexible multi-tasking with increased capacity compared to other solutions in the same weight class. The Metso NW Rapid equipment family can be used for a wide range of applications – from concrete, road construction aggregates and ballast to sub-bases and recycling applications. The current Metso NW Rapid range covers capacities from 200 to 350 metric tons per hour. With quick and low-cost movement between sites, critical transportation costs can be minimized. Additionally, the advanced Metso IC™ process control system makes plant operations as easy as pushing a button and keeps downtime to a minimum.

Metso NW Rapid crushing and screening plants always come with industry-leading safety features, such as service platforms, stairs and emergency stop functions, as standard.

Benefits

- Metso NW Rapid plant can be containerized for long distance transportation
- 14 standard layouts and flowsheets for fast quotation and delivery
- Transportation between the sites is fast and easy with the help of hydraulic features
- Plant conveyors and hoppers available for complete crushing and screening solution





Metso NW Rapid(TM) Plants



Complete plants

The Metso NW Series portable plant allows you the use of various crushing and screening operations: from a single, stand-alone unit to two-, three-, even four-stage complete plants providing several end-product fractions.

The NW Series complete plants can be easily adjusted to accurately suit your crushing application. You can choose feeding to crusher or feeding to screen options to meet your end-product requirements.

You can also operate your NW plant as an open or closed circuit operation just by adding an extra return conveyor. This really enhances the versatile use of your equipment.

When knowing the feed material type and required end-product sizes, the Bruno simulation software developed by Metso helps you to create a reliable process flow and makes choosing the right crushers and screens easy.

Benefits

- Easy to modify into different crushing processes
- Can produce up to four accurate fractions
- Quick move and set-up times
- Process planning and customer service guaranteed





Services

Maximizing your return on investment

Our comprehensive services offering includes everything from original spare and wear parts to customizable service solutions fine-tuned to your specific needs. You can count on Metso's expertise and support, available through our worldwide network of service centers, distribution facilities and regional warehouses. So if it's wear or spare parts support, engineered service solutions, a tailored Equipment Protection Plan or a long-term Life Cycle Services contract that you are looking for, we'll make sure that your investments get the attention they deserve.

Spare and wear part support

Our OEM parts help maintain the performance and availability of your equipment, resulting in a lower production cost per ton. Based on a long-term mutual commitment, you can take advantage of benefits such as preferential access to the most critical spare and wear parts.

Metso parts are manufactured according to specific design parameters using high-quality materials, tools and techniques. The use of OEM parts assures optimal performance and equipment availability, resulting in a lower production cost per ton.

Our crusher chamber/liner optimization solution is tailored to your process. This is a continuous improvement program, since the characteristics of the aggregates or the crushing process may vary. Depending on your needs, we can set goals, such as longer wear life, higher capacity throughput, finer material or shorter downtime on liner changes.

Field Services

We understand our customers' real issues and that success comes from helping you reach your operational and financial goals. Combining our global service network and deep industry knowledge with your operational expertise ensures that we provide the best solutions to deliver quality aggregate and increased productivity, eliminate waste and reduce risk.

We offer a comprehensive set of field services to help meet your maintenance, repair and refurbishment needs, offering a cost-effective alternative to purchasing new or replacement equipment. These services are available at our global service facilities or on site through our experienced field service staff. Backed by years of experience, we can repair broken or damaged equipment to "like-new" condition and restore worn or irreplaceable equipment to perfect operating condition.





Life Cycle Services

Our Life Cycle Services (LCS) take the entire range of services Metso provides to our aggregate customers and conveniently bundle them into customizable, easily manageable packages, ranging from the basics to more complete solutions, depending on the scale of your needs. Metso implements industry best practices at each step of your operation to achieve optimum performance and guaranteed results.

Our Life Cycle Services offering includes equipment support, maintenance services and maintenance and optimization packages.

Equipment Protection Plan

EPP is a reliability assurance program that covers key components of your Metso equipment, representing up to 75% of the complete crushing equipment value. Standard freight and service supervisory work are included in the program coverage.

Scheduled equipment inspection visits from a Metso-certified inspector are part of the program, and ensure that any issues are caught early. Certified inspectors help optimize your equipment's life cycle productivity to enable the lowest sustainable cost of production.

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