





Nordberg NW Series portable 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

In all there are seven jaw crusher models for portable applications. The Nordberg NW80, NW96, NW106, NW116, NW120, NW130 and NW150 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 to accurately suit your crushing application.

### **Benefits**

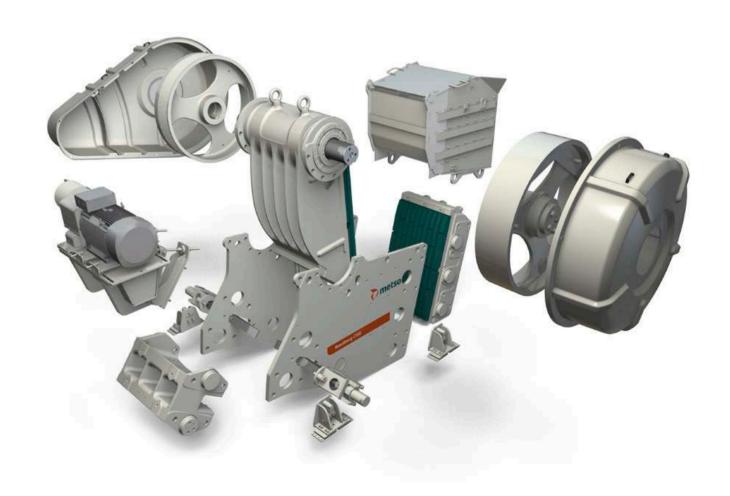
- Efficient and reliable C Series jaw crushers
- Reduced length and weight
- Excellent process flexibility
- Guaranteed customer service world-wide



Nordberg® C120™ jaw crusher

# Nordberg NW Series

NW80™	NW96™	NW106™	NW116™	NW120™	NW130™	NW150™
9 400 mm	12 000 mm	13 500 mm	15 300 mm	17 300 mm	16 500 mm	17 600 mm
2 500 mm	2 500 mm	3 000 mm	3 500 mm	3 500 mm	3 500 mm	3 500 mm
4 050 mm	3 300 mm	3 700 mm	4 100 mm	4 400 mm	4 500 mm	4 900 mm
19 600 kg	26 000 kg	35 500 kg	47 000 kg	68 000 kg	65 000 kg (20 000 kg)	82 000 kg (39 000 kg)
9 100 kg	16 000 kg	20 000 kg	30 800 kg	41 000 kg	37 000 kg	50 000 kg
10 400 kg	10 000 kg	15 500 kg	16 200 kg	27 000 kg	28 000 kg	31 500 kg
Nordberg® C80™	Nordberg® C96™	Nordberg® C106™	Nordberg® C116™	Nordberg® C120™	Nordberg® C130™	Nordberg® C150™
800 mm	930 mm	1 060 mm	1 150 mm	1 200 mm	1 300 mm	1 400 mm
510 mm	580 mm	700 mm	800 mm	870 mm	1 000 mm	1 200 mm
40-175 mm	60-175 mm	70-200 mm	70-200 mm	70-200 mm	100-250 mm	125-250 mm
75 kW	90 kW	110 kW	132 kW	160 kW	160 kW	200 kW
75 kW	90 kW	110 kW	132 kW	160 kW	160 kW	200 kW
75 kW TK8-27-2V	90 kW TK8-32-2V	110 kW TK11-42-2V	132 kW TK11-48-2V	160 kW VF561-2V	160 kW VF561-2V	200 kW VF661-2V
			12-111			
	9 400 mm 2 500 mm 4 050 mm 19 600 kg 9 100 kg 10 400 kg Nordberg® C80™ 800 mm 510 mm	9 400 mm 12 000 mm 2 500 mm 2 500 mm 4 050 mm 3 300 mm 19 600 kg 26 000 kg 9 100 kg 16 000 kg 10 400 kg 10 000 kg  Nordberg® C80™ Nordberg® C96™  800 mm 930 mm 510 mm 580 mm	9 400 mm 12 000 mm 13 500 mm 2 500 mm 3 000 mm 4 050 mm 3 300 mm 19 600 kg 26 000 kg 35 500 kg  9 100 kg 16 000 kg 20 000 kg 10 400 kg 10 000 kg 15 500 kg  Nordberg® C80™ Nordberg® C96™ Nordberg® C106™  800 mm 930 mm 1 060 mm 510 mm 580 mm 700 mm	9 400 mm 12 000 mm 13 500 mm 15 300 mm  2 500 mm 2 500 mm 3 000 mm 3 500 mm  4 050 mm 3 300 mm 4 100 mm  19 600 kg 26 000 kg 35 500 kg 47 000 kg  9 100 kg 16 000 kg 20 000 kg 30 800 kg  10 400 kg 10 000 kg 15 500 kg 16 200 kg  Nordberg® C80™ Nordberg® C96™ Nordberg® C106™ Nordberg® C116™  800 mm 930 mm 1 060 mm 1 150 mm  510 mm 580 mm 700 mm 800 mm	9 400 mm 12 000 mm 13 500 mm 15 300 mm 17 300 mm  2 500 mm 2 500 mm 3 000 mm 3 500 mm 3 500 mm  4 050 mm 3 300 mm 4 100 mm 4 400 mm  19 600 kg 26 000 kg 35 500 kg 47 000 kg 68 000 kg  9 100 kg 16 000 kg 20 000 kg 30 800 kg 41 000 kg  10 400 kg 10 000 kg 15 500 kg 16 200 kg 27 000 kg  Nordberg® C80™ Nordberg® C96™ Nordberg® C106™ Nordberg® C116™ Nordberg® C120™  800 mm 930 mm 1 060 mm 1 150 mm 1 200 mm  510 mm 580 mm 700 mm 800 mm 870 mm	9 400 mm 12 000 mm 13 500 mm 15 300 mm 17 300 mm 16 500 mm  2 500 mm 2 500 mm 3 000 mm 3 500 mm 3 500 mm 3 500 mm  4 050 mm 3 300 mm 4 100 mm 4 400 mm 4 500 mm  19 600 kg 26 000 kg 35 500 kg 47 000 kg 68 000 kg (20 000 kg)  9 100 kg 16 000 kg 20 000 kg 30 800 kg 41 000 kg 37 000 kg  10 400 kg 10 000 kg 15 500 kg 16 200 kg 27 000 kg 28 000 kg  Nordberg® C80™ Nordberg® C96™ Nordberg® C106™ Nordberg® C116™ Nordberg® C120™ Nordberg® C130™  800 mm 930 mm 1 060 mm 1 150 mm 1 200 mm 1 300 mm  510 mm 580 mm 700 mm 800 mm 870 mm 1 000 mm



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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 Nordberg NW Series portable plant equipped with the 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, NW100HPC-CC, NW1100C, NW220GPC and NW200HPC 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 is the latest member of Nordberg GP range.

## Nordberg NW Series

	NW100GPC(S)™	NW100HPC-CC™	NW220GPC™	NW200HPC™			
Transport dimensions							
Length	12 600 mm	16 800 mm	13 300 mm	13 500 mm			
Width	2 500 mm	3 000 mm	2 900 mm	2 980 mm			
Height	4 060 mm	4 200 mm	4 315 mm	4 370 mm			
Weight	25 400 kg	30 000 kg	34 400 kg	35 000 kg			
Axle weight	12 000 kg	20 000 kg	19 000 kg	19 500 kg			
King pin weight	13 400 kg	10 000 kg	15 400 kg	15 000 kg			
Crusher							
Model	Nordberg® GP100™ / GP100S™	Nordberg® HP100™	Nordberg® GP220 / GP200S™	Nordberg® HP200™			
Feed opening	46-142 mm (GP100) 206-239 mm (GP100S)	20-150 mm	58-213 mm (GP220) 222-295 mm (GP200S)	25-185 mm			
Setting range	6-20 mm (GP100) 20-45 mm (GP100S)	6-32 mm	8-35 mm (GP220) 25-50 mm (GP200S)	10-38 mm			
Motor Power	90 kW	90 kW	160 kW	132 kW			
Screen							
Model	CVB1540-4	CVB1540-4	CVB 1845-4	CVB 1845-4			
- length	4 000 mm	4 000 mm	4 500 mm	4 500 mm			
- width	1 500 mm	1 500 mm	1 800 mm	1 800 mm			

	NW100GP(S)™	NW220GP™	NW330GP™	NW550GP™	NW500GP™		
Transport dimensions							
Length	10 000 mm	10 600 mm	10 700 mm	13 000 mm	15 000 mm		
Width	2 500 mm	3 000 mm	3 500 mm	3 500 mm	3 500 mm		
Height	4 150 mm	4 000 mm	4 300 mm	4 300 mm	4 500 mm		
Weight	14 000 kg	20 200 kg	30 000 kg	43 800 kg	54 500 kg		
Axle weight	8 700 kg	14 100 kg	20 000 kg	28 000 kg	35 800 kg		
King pin weight	5 300 kg	6 100 kg	10 000 kg	15 800 kg	18 700 kg		
Crusher							
Model	Nordberg® GP100™ / GP100S™	Nordberg® GP220™ / GP200S	Nordberg® GP330™ / GP300S™	Nordberg® GP550™	Nordberg® GP500S™		
Feed opening	46-142 mm (GP100) 206-239 mm (GP100S)	58-213 mm (GP220) 222-295 mm (GP200S)	**85-225 mm (GP330) 247-332 mm (GP300S)	68-265 mm	321-442 mm		
Setting range	6-20 mm (GP100) 20-45 mm (GP100S)	8-35 mm (GP220) 25-50 mm (GP200S)	8-35 mm (GP330) 25-50 mm (GP300S)	10-45 mm	45-70 mm		
Motor Power	90 kW	200 kW / 160 kW	315 kW / 250 kW	315 kW	315 kW		

	NW100HP™	NW200HP™	NW300HP™	NW400HP™	NW4HP™	NW6HP™	
Transport dimensions							
Length	10 000 mm	10 600 mm	13 700 mm	13 500 mm	13 500 mm	15 000 mm	
Width	2 500 mm	3 000 mm	3 500 mm	3 500 mm	3 500 mm	3 500 mm	
Height	4 150 mm	3 600 mm	4 300 mm	4 400 mm	4 400 mm	4 500 mm	
Weight	14 000 kg	23 000 kg	35 000 kg	39 500 kg	39 500 kg	52 500 kg	
Axle weight	8 700 kg	15 000 kg	22 000 kg	24 500 kg	24 500 kg	35 000 kg	
King pin weight	5 300 kg	8 000 kg	13 000 kg	15 000 kg	15 000 kg	17 500 kg	
Crusher							
Model	Nordberg® HP100™	Nordberg® HP200™	Nordberg® HP300™	Nordberg® HP400™	Nordberg® HP4™	Nordberg® HP6™	
Feed opening	20-150 mm	25-185 mm	25-230 mm	30-300 mm	74-250 mm	35-330 mm	
Setting range	6-32 mm	10-38 mm	10-45 mm	10-51 mm	8-45 mm	10-45 mm	
Motor Power	90 kW	132 kW	200 kW	315 kW	315 kW	450 kW	

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Nordberg 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**

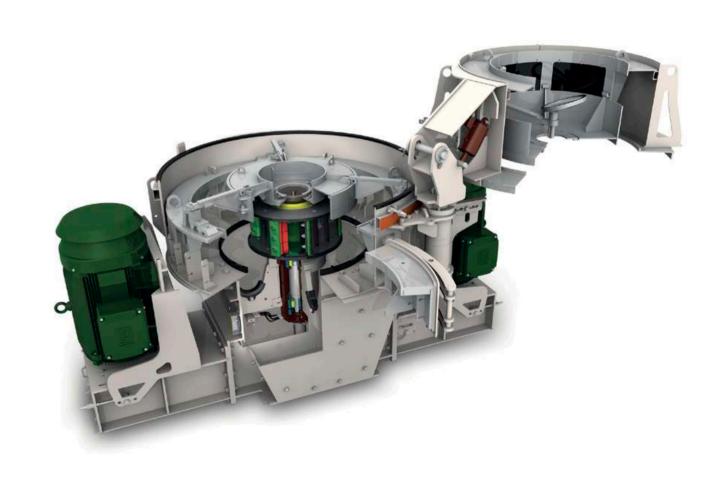
- Based on the original Barmac vertical shaft impactor
- Minimized wear part cost
- Fasy to add as the third/fourth crushing stage
- High end-product cubicity guaranteed



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

## Nordberg NW Series

	NW7150™	NW9100™	NW6150C™	NW7150C™
Transport dimensions				
Length	15 000 mm	14 865 mm	11 720 mm	14 000 mm
Width	3 130 mm	3 130 mm	2 500 mm	3 000 mm
Height	4 080 mm	4 300 mm	4 060 mm	4 440 mm
Weight	26 000 kg	30 000 kg	24 900 kg	35 000 kg
Axle weight	16 050 kg	18 775 kg	11 600 kg	21 500 kg
King pin weight	9 950 kg	11 225 kg	13 300 kg	13 500 kg
Crusher				
Model	Barmac® 7150SE™	Barmac® 9100SE™	Barmac® 6150SE™	Barmac® 7150SE™
Max feed size	66 mm	66 mm	43 mm	66 mm
Feed hopper volume	9 m³	9 m³	-	-
Motor power	2 x 160 kW	2 x 350 kW	132 kW	220 kW
Screen				
Model	-	+	Nordberg® CVB1540-4™	Nordberg® CVB1845-4™
- length	-	÷	4 000 mm	4 500 mm
- width	-	+	1 500 mm	1 800 mm
- number of decks	-	-	4	4



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When requiring accurate classification of different end products after crushing, Metso offers portable screen plants to precisely match your application needs. Likewise with the portable crushing plants, the wheeled screens are based on our long experience and know-how in crushing and screening.

The key elements in the portable screens are the Nordberg ES and CVB Series screens, designed to be both modular and robust with exceptional performance in a wide range of applications.

Nordberg NW Series screens are specifically designed for portable applications. Their construction is modular with most components being huck-bolted: the screen media support rails, cross members, feedbox, etc., and can be individually replaced.

### **Benefits**

- Based on Nordberg ES and CVB Series screens
- Modular design for easy service and parts change
- Efficient and easy to service MV modular vibrator
- Two- and three-deck screens available

## Nordberg NW Series





The Nordberg 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.

Likewise, you can 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.

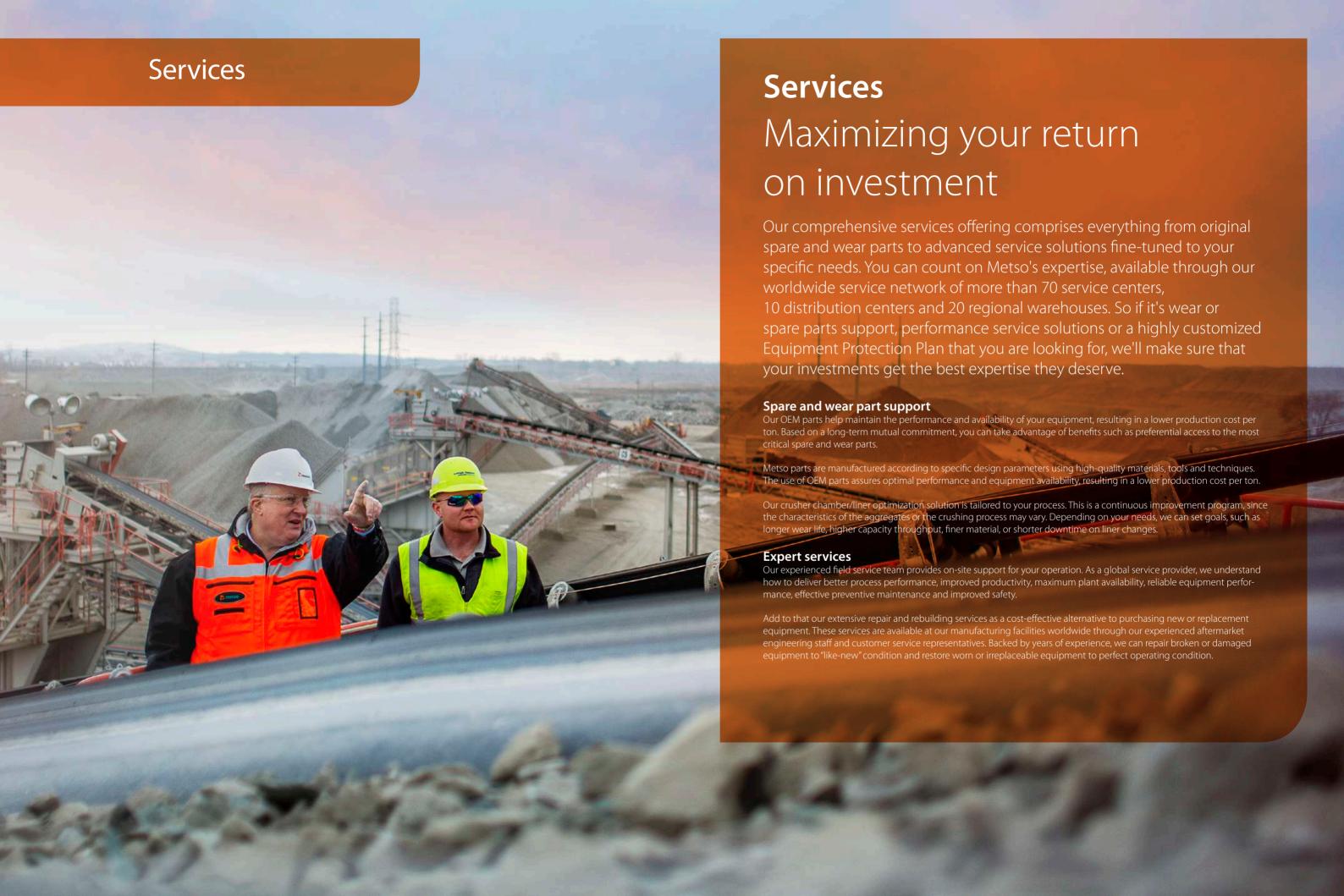
When knowing the feed material type and required end-product sizes, the Bruno simulation software developed by Metso helps you to create a reliable process flow and makes choosing the right crushers and screens easy.

### **Benefits**

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

# Nordberg NW Series











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