Portable crushing and screening solutions
Metso NW Rapid™

Crush & Go
When time, mobility, and capacity are of the essence

Today, work assignments in new locations can come at short notice, making it difficult for quarries to respond. The faster you can move from idea to action, the better your chances of success.

Civil engineering works, such as road, bridge, airport, and dam construction projects, usually last anything from a couple of months to a couple of years. Projects like these require high volumes of different types of high-precision aggregates. If the material can be sourced on-site or in the surrounding area, the construction company can realize significant economic and environmental benefits, meaning aggregate producers who can deliver on this demand gain a notable competitive edge.

We have designed our Metso NW Rapid™ Portable Crushing and Screening Solutions especially for the needs of multisite quarries that have to move their equipment between sites periodically. They are easy to tow by a standard truck. With Metso NW Rapid Portable Solutions, you can stop compromising between time, mobility and production capacity and tap into new business opportunities.

Metso NW Rapid Portable Solutions are designed to deliver a faster return on investment. We have optimized all the critical milestones in the solution’s lifetime – starting from purchase and continuing all the way to after-sales support.
Choose your winning combination

The modular design of Metso NW Rapid Portable Solutions allows you to choose the optimal equipment combination for your needs. Eleven ready-made layouts - and more to come - with related flowsheets ensure that you can specify your optimal solution in weeks instead of months.

Modularity and automation also make Metso NW Rapid extremely adaptive; you can add modules to existing worksites whenever your requirements change, or modify your equipment to serve different needs and sites.

Getting started

### Step 1
1. How many different end products do you need to produce?

### Step 2
2. What is the planned production capacity (tph)?
3. How consistent is your end product quality?

### Step 3
4. How often do you need to move the plant?
5. How important is production efficiency compared to site mobility?
6. What is the desired automation level (onboard or remote control)?

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### NW Rapid Layout 5B

Simple layout with high mobility

- **Closed circuit can be opened to make sub-base material with cone crusher only**
- **Four-deck inclined screen**
- **Cone crusher or screen feed**

### NW Rapid Layout 9A

Close to stationary plant with high efficiency

- **Feed with wheel loader or dump truck**
- **Cone crusher or screen feed**

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### Feed material

- **Low to very abrasive rock**

### Number of end products

- **4**
- **5**
- **4**
- **4**
- **7**

### Plant capacity tph/sph

- **250 / 275**
- **250 / 275**
- **250 / 275**
- **300 / 375**
- **300 / 375**

### Product cubicity

- **+++**
- **+++**
- **+++**
- **+++**
- **+++**

### Mobility

- **••**
- **•**
- **•••**
- **••**
- **•**

### Efficiency

- **+++**
- **+++**
- **+++**
- **+++**
- **+++**

### Automation

- **Onboard/ Remote**
- **Onboard/ Remote**
- **Onboard/ Remote**
- **Onboard/ Remote**
- **Onboard/ Remote**

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### Your NW Rapid Solution

- **NW Rapid Layout number**
  - **1**
  - **2**
  - **5B**
  - **9A**
  - **9B**
  - **10**

- **Configuration**
  - NW106/NW116 + NW200HPD + NW7150D
  - NW106/NW116 + NW220GPD + NW7150D
  - NW120 + NW300HPS + NW7150D
  - NW120 + NW300HPS + NW330GPS
  - NW120 + NW330GPS + NW300HPS + NW7150D

- **Process type**
  - Feed to crusher
  - Feed to screen

- **Stages**
  - 2
  - 3
  - 2
  - 2
  - 2
  - 3

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### Hours of machines delivered since 2015

- **Hundreds of machines delivered**
Crusher automation is a standard feature in Metso NW Rapid Portable Solutions. When automation and equipment are provided by the same partner, you can be confident that you’re getting the most out of your crushing process.

Metso IC™ Series Automation Solutions for NW Rapid

Crusher automation is a standard feature in Metso NW Rapid Portable Solutions. When automation and equipment are provided by the same partner, you can be confident that you’re getting the most out of your crushing process.

Unlike other crushing automation solutions, Metso IC Series Automation Solution offers a Remote User Interface (RUI). This means that instead of controlling the automation from an individual piece of equipment, you can do it centrally from a remote control room using a PC without additional programming. This has a direct impact on the level of safety at your site and the well-being of your employees, as they don’t have to go to the crushing station to start and stop it, or to change settings.

Automation allows you to adjust process without stopping it, leading to improved productivity and a reduction in unplanned downtime through preventive maintenance. Furthermore, the end product quality will be more consistent as the process is automatically controlled.

Metso LCS & Metso Metrics

Together with Metso Life Cycle Services (LCS) Metso offers a digital solution to help further optimize your NW Rapid Portable Solutions. Through remote data monitoring, Metso Metrics Services gives you access to critical insights on your fleet’s performance and maintenance needs, with optional access to expertise that will help you to analyze the data.

With Metso Metrics integration you get:
- 24/7 access to your data via computer or tablet, using a secured cloud-based platform
- Visibility on your equipment’s key operating data, including utilization rates, energy consumption, alarms, and parameter changes
- Location data for your entire fleet in map format

Scan the QR code to read more about Metso Metrics
NW Rapid
Secondary and tertiary units

Vibrating feeder with optional hydraulic side walls and bypass
Choose the most suitable feeding method for your needs

Jaw crusher – electric driven with optional rock breaker
Choose from proven Metso crushers

Optional lightmast
Service platforms and stairs
Optional magnetic separator
Main conveyor

Optional side conveyor

Chassis with 2-axle bogie (NW106/NW116) / 3-axle bogie (NW120)

Optional hydraulic support legs

Automation as standard
Improved safety and maximized production

Optional lightmast

Electric driven cone crusher
Choose from proven Metso crushers

Dividing hopper with multiple screening process configurations
Multiple end products – up to 7 variations

Four-deck inclined screen

Chassis with 2-axle bogie (NW106/NW116) / 3-axle bogie (NW330GPS, NW300HPS, NW4MXS)

Optional hydraulic screen lifting

Quick setup

NW Rapid
Primary crushing units

Optional side conveyor

Chassis with 2-axle bogie (NW106/NW116) / 3-axle bogie (NW120)

Optional hydraulic support legs

Automation as standard
Improved safety and maximized production

Optional lightmast

Electric driven cone crusher
Choose from proven Metso crushers

Dividing hopper with multiple screening process configurations
Multiple end products – up to 7 variations

Four-deck inclined screen

Chassis with 2-axle bogie (NW106/NW116) / 3-axle bogie (NW330GPS, NW300HPS, NW4MXS)

Optional hydraulic screen lifting

Quick setup
Equipment Protection Services for NW Rapid
It’s all about protecting your assets

As part of Metso’s Life Cycle Services for aggregates, Equipment Protection Services (EPS) brings you added protection for your most valuable assets. The comprehensive EPS plan includes extended warranties, scheduled inspections with Metso-certified technicians, and Metso Metrics.

EPS gives you improved cost predictability by anticipating and minimizing unexpected equipment failures. Along with extended warranties that cover repairs or replacements on key wear parts, the plan includes comprehensive inspections and other services to keep your equipment running smoothly throughout its operational lifespan.

Extended warranty 10,000 h/5 yrs
for specified major components on designated equipment. Scheduled inspections with Metso-trained and certified technicians, as well as parts recommendations.

Annual maintenance contracts
Maintenance planning and reporting for mobile equipment through Metso Metrics.

Metso Metrics
Complete fleet visibility.

Scan the QR code to read more about EPS
Metso NW Rapid™ user experiences
Delivering timely results

With over 1000 plants delivered to more than 20 countries, Metso NW Rapid Portable Solutions have been helping quarries around the world succeed since 2015.

“With Metso’s expert team by our side, our plants are always up and running, and Metso’s services differentiates it from all the players in the market.”
Chakresh Jain, Managing Director PNC Infratech Ltd.

“Completing a project on time is the most crucial aspect for us, and Metso has indeed helped us in doing so by generating more production and saving costs.”
Mr. Sandeep Reddy, Managing Director, Gayatri Projects Ltd.

“We define Metso’s NW Rapid plant as easy to fix and easy to move, which supports the biggest issue of mobility in the construction business. It is aptly suited for those who work on a project-to-project basis, since moving from one project to the next is very critical and involves cost, which can be minimized with the NW Rapid.”
Udit Mittal, Director, M/s M G Contractors Pvt Ltd.

“The new Metso NW Rapid™ plant is a perfect fit for our growing need for more eco-friendly, mobile, and economical solutions.”
Udit Mittal, Director, M/s M G Contractors Pvt Ltd.

Read more customer cases
metso.com/showroom
### NW RAPID PRIMARY CRUSHING UNITS

**Jaw plants**
- Rapid NW106™
- Rapid NW116™
- Rapid NW120™

**Transport dimensions**
- Length: 14,250 mm
- Width: 3,000 mm
- Height: 4,170 mm
- Weight: 35,500 kg
- Bogie weight: 19,000 kg
- King pin weight: 14,500 kg

**Crusher**
- Model: Nordberg® C106™
  - Feed opening: 25 - 185 mm
  - Setting range: 70 - 200 mm
  - Motor power: 132 kW

**Feeder**
- Model: TKF-11-42-2V
  - Length: 4,200 mm
  - Width: 1,100 mm

### NW RAPID SECONDARY AND TERTIARY CRUSHING UNITS (CONE PLANTS)

**Core plants / Impact plants**
- Rapid NW200HPD™
- Rapid NW220GPD™
- Rapid NW300HPS™
- Rapid NW330GPS™
- Rapid NW4MXS™
- Rapid NW7150D™ Single drive
- Rapid NW7150D™ Dual drive
- Rapid NW1213™
- Rapid NW1855D™

**Transport dimensions**
- Length: 13,500 mm
- Width: 3,000 mm
- Height: 4,400 mm
- Weight: 33,500 kg
- Bogie weight: 19,000 kg
- King pin weight: 14,500 kg

**Crusher**
- Model: Nordberg® HP200™
  - Feed opening: 25 - 185 mm
  - Setting range: 70 - 200 mm
  - Motor power: 110 kW

**Feeder**
- Model: TKF-11-42-2V
  - Length: 4,200 mm
  - Width: 1,100 mm

### NW RAPID SECONDARY AND TERTIARY CRUSHING UNITS (IMPACTOR PLANTS)

**TRANSPORT DIMENSIONS**
- Length: 14,250 mm
- Width: 3,000 mm
- Height: 4,170 mm
- Weight: 35,500 kg
- Bogie weight: 19,000 kg
- King pin weight: 14,500 kg

**Crusher**
- Model: Nordberg® C116™
  - Feed opening: 58 - 213 mm
  - Setting range: 70 - 200 mm
  - Motor power: 132 kW

**Screen**
- Model: DS1855-4
  - Length: 5,500 mm
  - Width: 1,800 mm

### SCREEN ONLY

**NW RAPID PRIMARY CRUSHING UNITS**
- Jaw plants
- Rapid NW106™
- Rapid NW116™
- Rapid NW120™

**Transport dimensions**
- Length: 13,730 mm
- Width: 3,000 mm
- Height: 4,750 mm
- Weight: 41,000 kg
- Bogie weight: 35,000 kg
- King pin weight: 18,000 kg

**Crusher**
- Model: Nordberg® HP106™
  - Feed opening: 1,060 x 700 mm
  - Setting range: 70 - 200 mm
  - Motor power: 110 kW

**Screen**
- Model: DS1855-4
  - Length: 6,000 mm
  - Width: 2,000 mm

### Key technical specifications

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See it in action

metso.com/nwrapid

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