

Metso

Nordwheeler™

Portable crushing and screening plants



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MIMICO



When time, flexibility, and capacity are of the essence

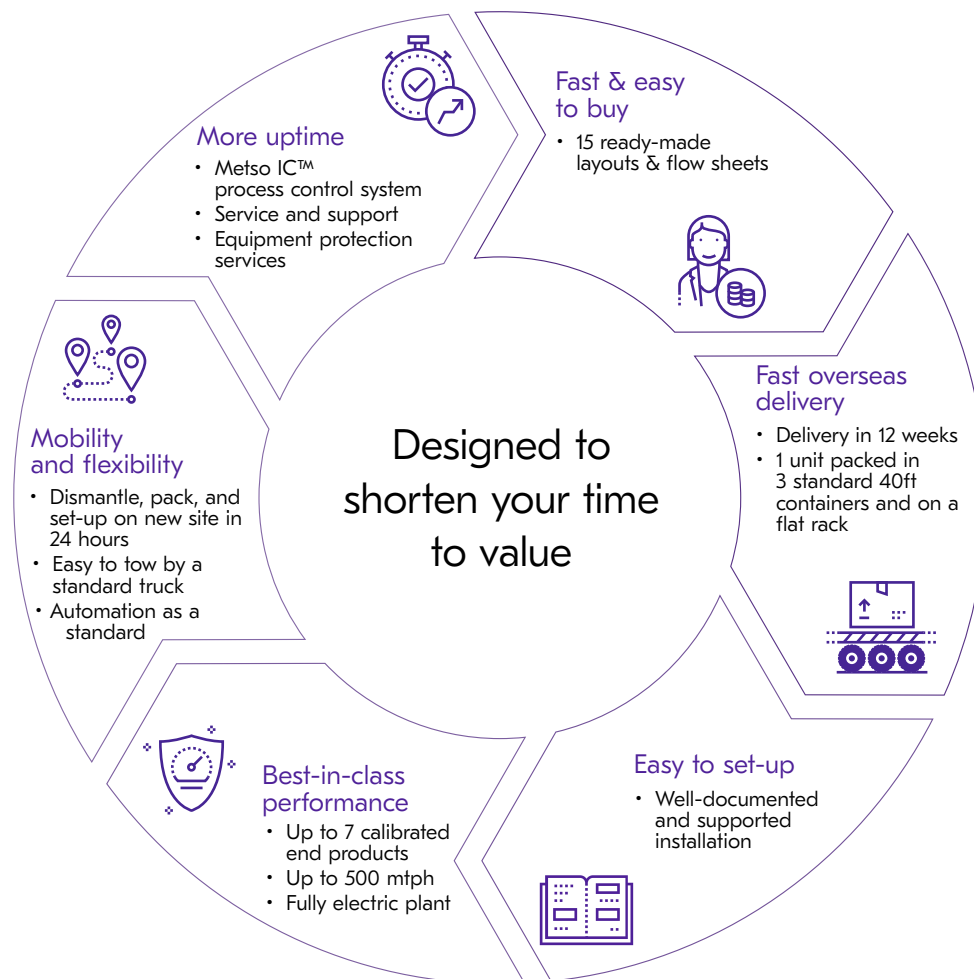
Today, work assignments in new locations can come at short notice, making it difficult for quarries to respond. The faster you can move from idea to action, the better your chances of success.

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 fully electric Metso Nordwheeler™ 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 making it easier to get a crushing permit. With NW Rapid Portable Solutions, you can stop compromising between time, mobility and production capacity, and tap into new business opportunities.

Crush and go

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 NW Rapid portable solutions allows you to choose the optimal equipment combination for your needs. Fifteen ready-made layouts with related flowsheets ensure that you can specify your optimal solution easily.

Modularity and automation also make 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.

1. Step							
How many different end products do you need to produce?	Number of end products	4	5	4	4	4	7

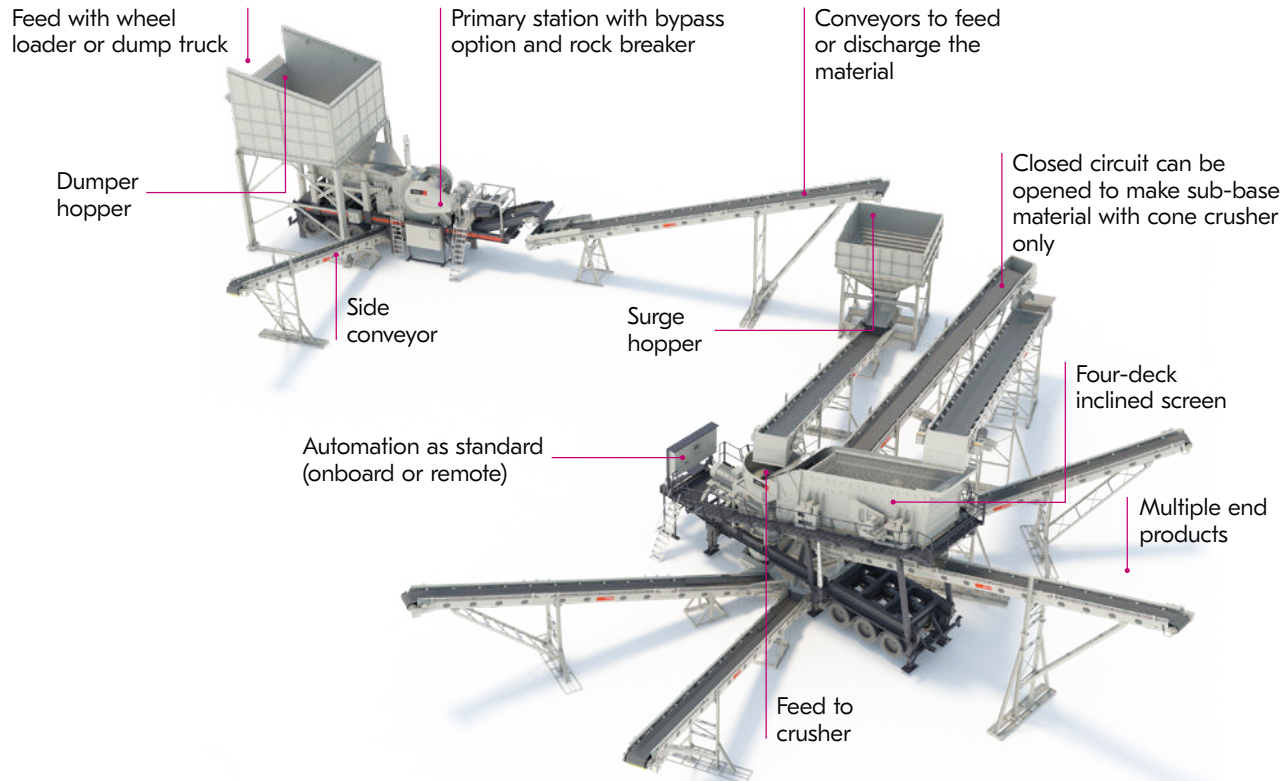
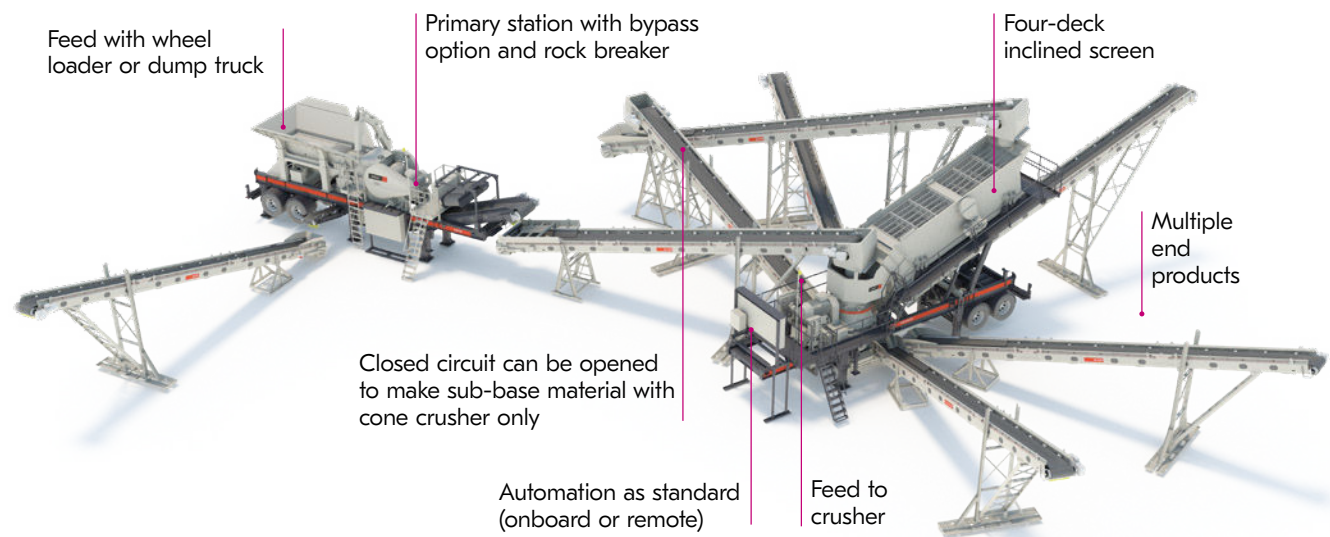
2. Step							
What is the planned production capacity (mtph)?	Plant capacity tph/stph	250 / 275	250 / 275	250 / 275	350 / 375	350 / 375	350 / 375
How consistent is your end product quality?	Product cubicity	...	...	...	..	..	...

3. Step							
How often do you need to move the plant?	Mobility	..	.	...	..	..	.
How important is production efficiency compared to site mobility?	Efficiency	...	...	..	...	...	...
What is the desired automation level (onboard or remote control)?	Automation	Onboard/ Remote	Onboard/ Remote	Onboard/ Remote	Onboard/ Remote	Onboard/ Remote	Onboard/ Remote

4. Your NW Rapid solution						
NW Rapid layout number	PT1	PT2	PT5-B	PT9-A	PT9-B	PT10
Configuration	NW106/ NW200HPS/ NW220GPS	NW106/ NW200HPS + NW7150S	NW106 + NW220GPS	NW120 + NW300HPS NW120 + NW300HPS/ NW330GPS	NW120 + NW300HPS/ NW330GPS	NW120 + NW330GPS/ NW300HPS + NW330GPS/ NW300HPS/ NW7150S
Process type	Feed to crusher	Feed to crusher	Feed to crusher	Feed to crusher	Feed to screen	Feed to crusher
Stages	2	3	2	2	2	3

NW Rapid Layout PT5-B

Simple layout with high mobility



NW Rapid Layout PT9-A

Close to stationary plant with high efficiency



Metso IC™ series process control for NW Rapid

Process control is a standard feature in Metso NW Rapid portable solutions. When process control system 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 process control automates, monitors, and controls the crushing process, as well as optimizes it.

Unlike other process control systems, Metso IC offers a Remote User Interface (RUI) which is included with NW Rapid plants with no extra license costs. Instead of controlling the process from machines at the field, you can control the entire process with a PC from the control room. No additional programming or software is needed as the RUI is displayed on a browser.

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.

Process control 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 IC series process control

A field-proven platform

Easy configuration to meet alternative worksite layouts

- Devices can be enabled or disabled from the automatic sequence
- Switch between closed circuit and open circuit

Choice of **automatic control options** (e.g. metal detector, magnetic separator, water sprays, etc.)

Automatic **start and stop sequence** with single button

Touch display with **data logs** and option to export data to USB



Crusher condition monitoring and early warning of any problems

Automatic **crushing optimization** by feed-rate control, based on material level and crusher's load conditions

Automatic **CSS** (closed side setting) calibration and control

Automatic **lubrication and hydraulics** control for cooling, heating, and circulation

Life Cycle Services and Metso Metrics

Together with Metso Life Cycle Services (LCS) we offer 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.

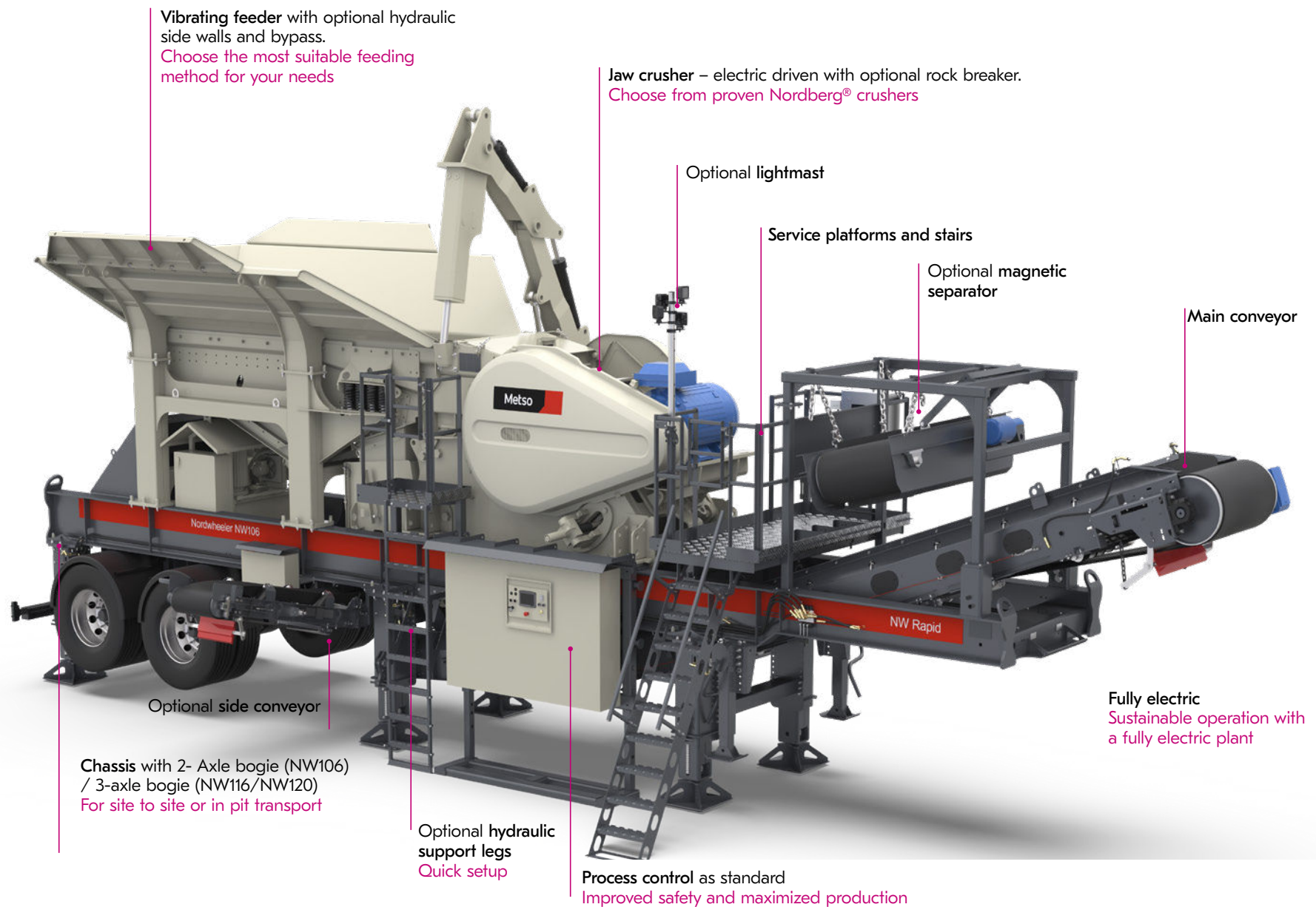


With Metso Metrics integration you get:

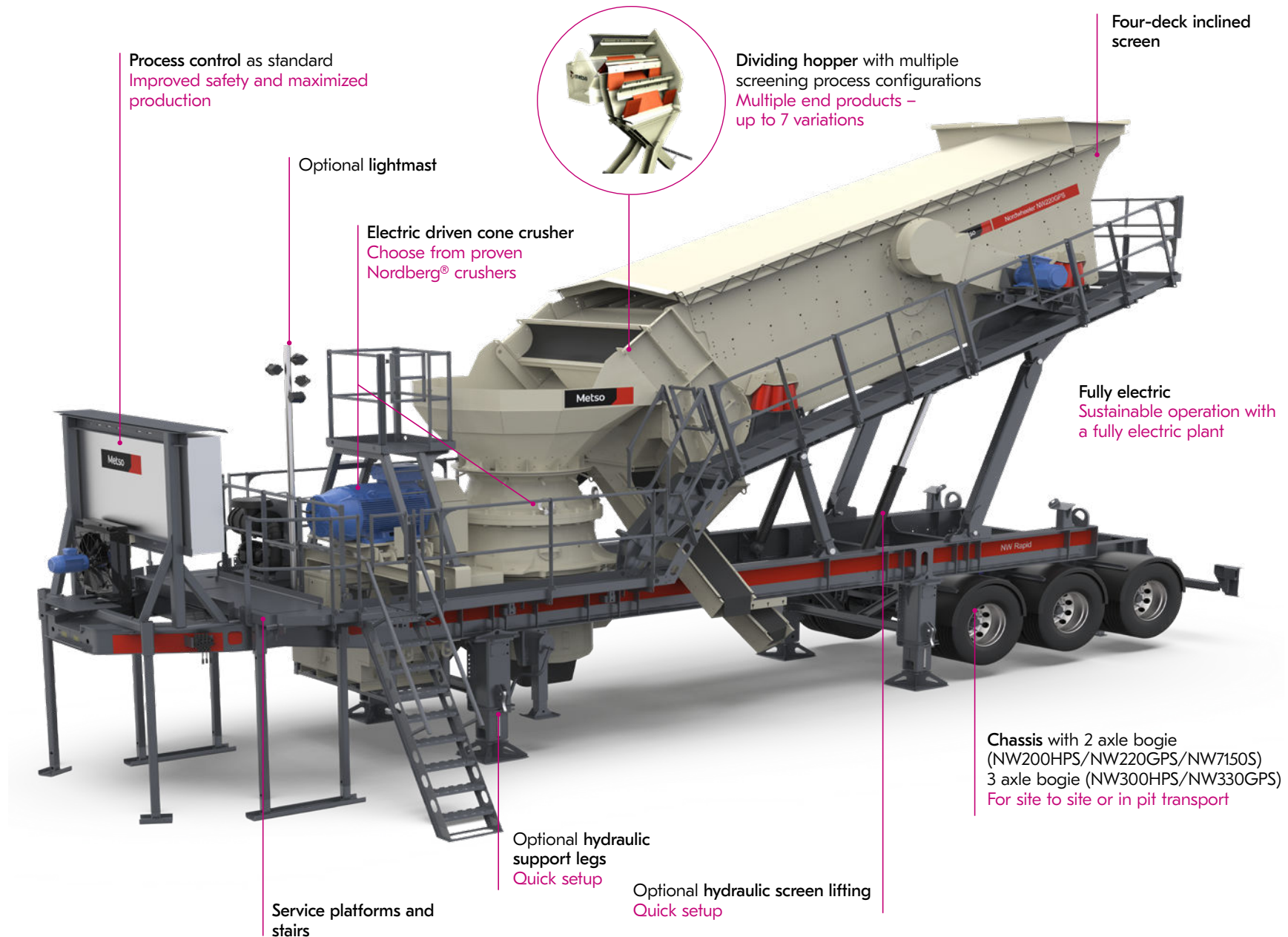
- 24/7 access to your data via computer or tablet, using a secured cloud-based platform
- visibility on your equipment's key operating data, including utilization rates, energy consumption, alarms, and parameter changes
- location data for your entire fleet in map format
- access to equipment specific maintenance plans and required part lists

Nordwheeler NW Rapid

Primary crushing units



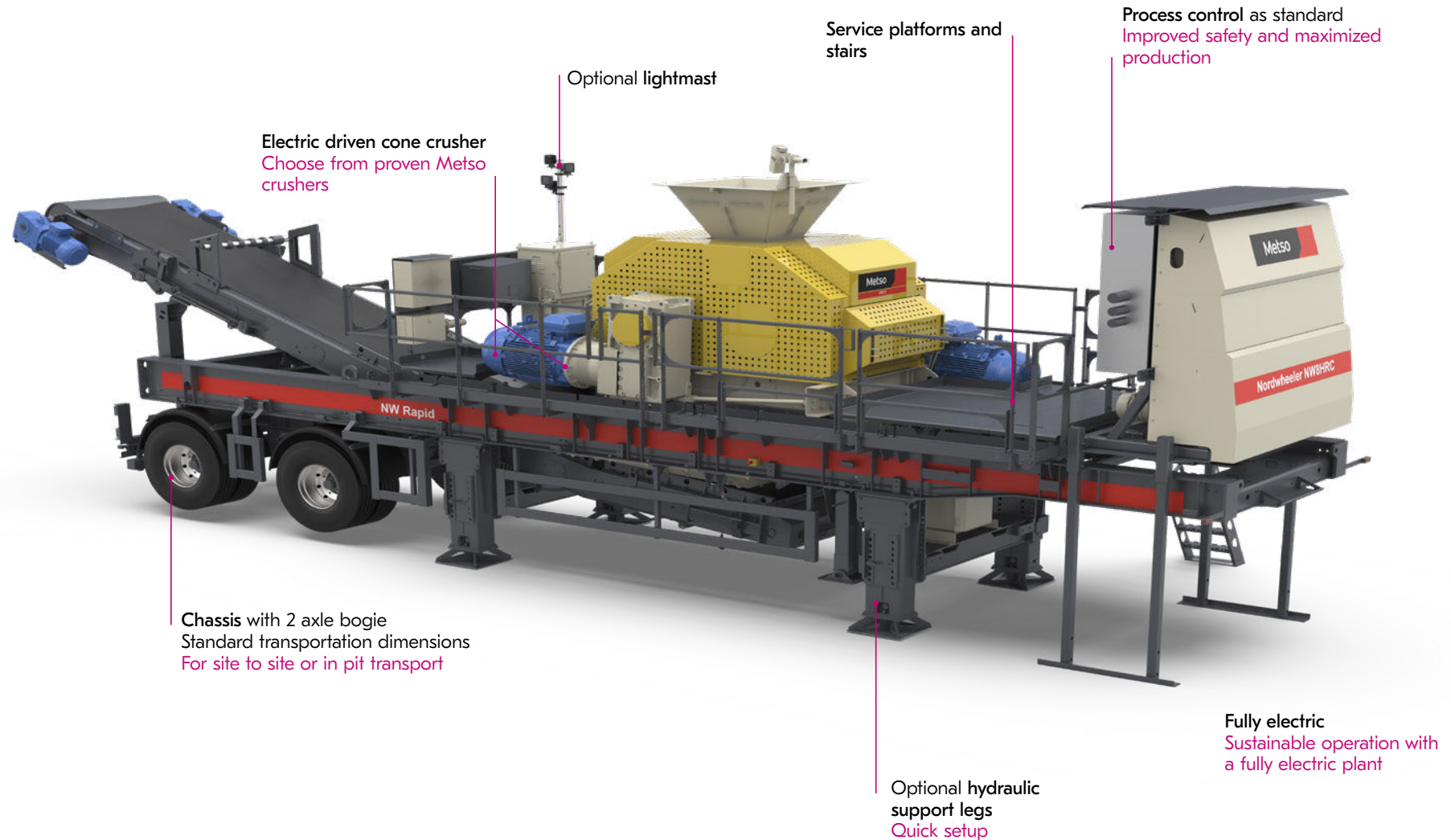
Secondary and tertiary units with integrated screen



Nordwheeler NW Rapid

Secondary and tertiary units without integrated screen

Increased flexibility in plant layout



Equipment Protection Services for Nordwheeler

It's all about protecting your assets

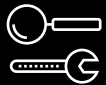
As part of Metso's Life Cycle Services for aggregates, Equipment Protection Services (EPS) brings you added protection for your most valuable assets. The comprehensive EPS service package includes extended warranties, scheduled inspections with Metso certified technicians, and Metso Metrics.

EPS gives you peace of mind through improved cost predictability by anticipating and minimizing unexpected equipment failures. Along with extended warranties that cover repairs or replacements on designated key components, the package includes scheduled inspections and other services to keep your equipment running smoothly throughout its operational lifespan.



Extended warranty 10,000 h/5 yrs

Extended factory warranty up to 4,000h/2 yrs and extended coverage for specified major components on designated equipment up to 10,000h/ 5 years



Scheduled 1,000h inspections

Scheduled 1,000h inspections with recommendations from our certified inspectors/ technicians



Metrics

24/7 access to how your equipment is operating (production data, alarms, parameters and analytics). Maintenance planning made easy through access to equipment specific maintenance plans and required part lists.



Nordwheeler user experiences

Delivering timely results

With over thousands of plants delivered globally, Nordwheeler 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 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 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.

Metso is a frontrunner in sustainable technologies, end-to-end solutions and services for the aggregates, minerals processing and metals refining industries globally. We improve our customers' energy and water efficiency, increase their productivity, and reduce environmental risks with our product and service expertise. We are the **partner for positive change**.

metso.com