

ELECTRIC NARROW

A red electric narrow reef support rig with tracks, standing on a dark surface. The rig has a large red upper section and a lower section with tracks. It is positioned in the center of the image, with its tracks visible on the right side. The background is a dark, textured surface.

EFFICIENCY
THROUGH
FULLY
AUTOMATED
CYCLE

REEF SUPPORT RIG

NRE
Support Rig

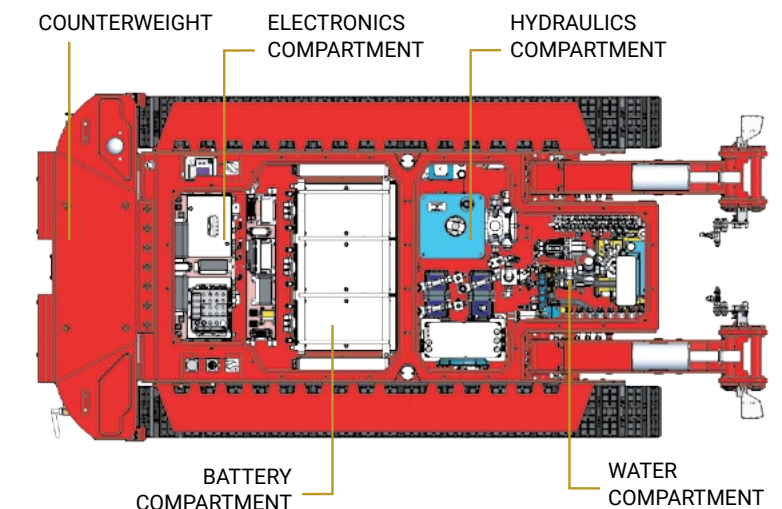
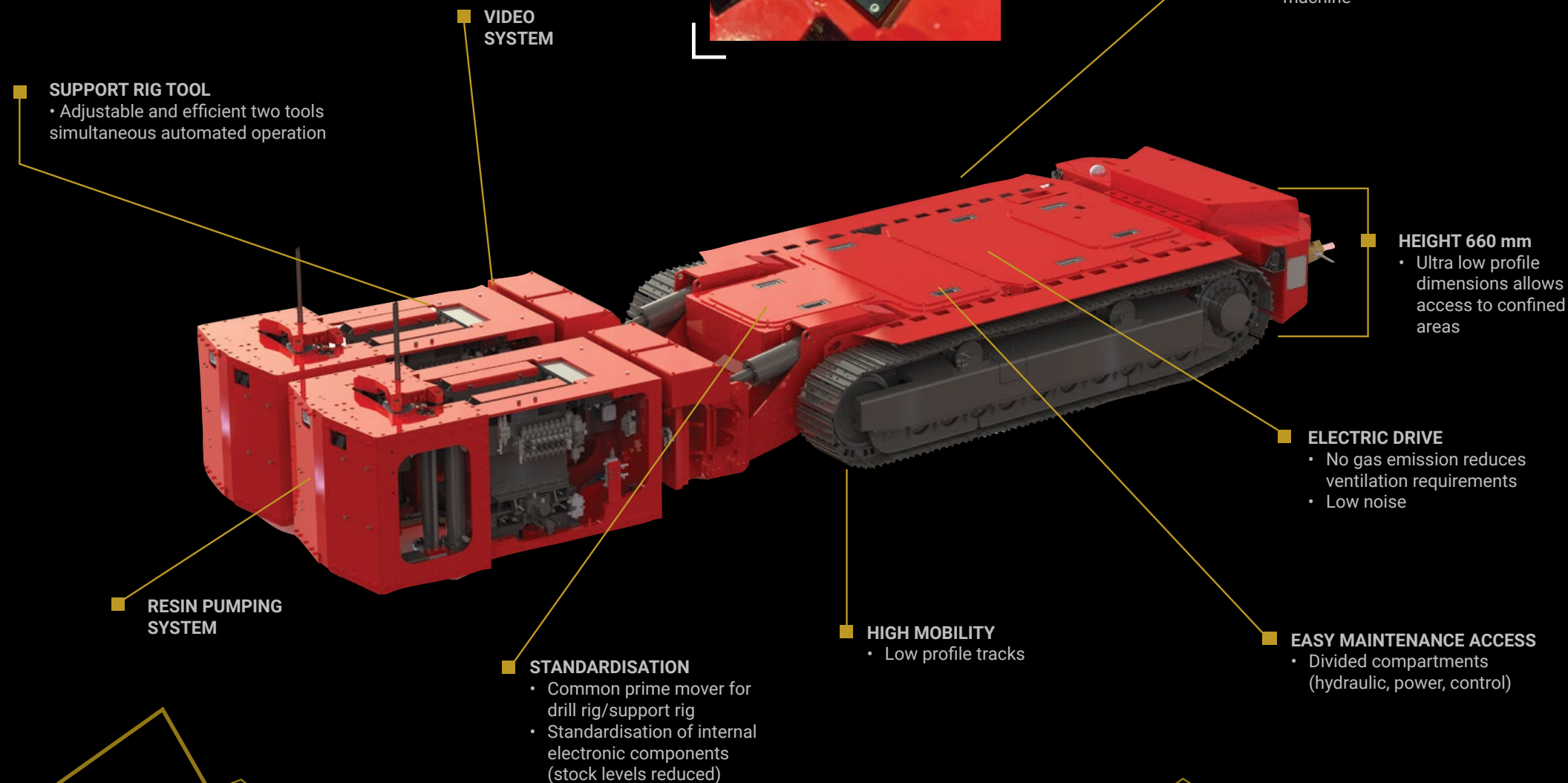
DON'T SEND A MAN
TO DO A MACHINE'S JOB

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NRE Support Rig at glance

EFFICIENCY THROUGH FULLY AUTOMATED CYCLE

The purpose of NRE Support Rig is to install self drilling roof bolts (SDR's) to hanging wall of narrow reef stopes. It is possible for operator to perform all functions from a safe operating distance. Its robust design, small dimensions, low noise level, and nil gaseous emission make this machine the most suitable tool for underground applications. The NRE Support Rig is battery power driven and operated by remote control.



BATTERY POWER DRIVEN AND OPERATED BY REMOTE CONTROL

The NRE Support Rig is designed to work in stoping widths from 0.9, to 1.7m, and can work in reef inclinations of up to 22°. The NRE Support Rig has a dual tool configuration, allowing 2 bolts to be drilled, installed and resin injected simultaneously. Its lightweight, stand-alone remote control allows the operator to remain at a safe operating distance during the production process.

Efficiency

FULLY AUTOMATED RESIN INTEGRATED SDR SUPPORTING

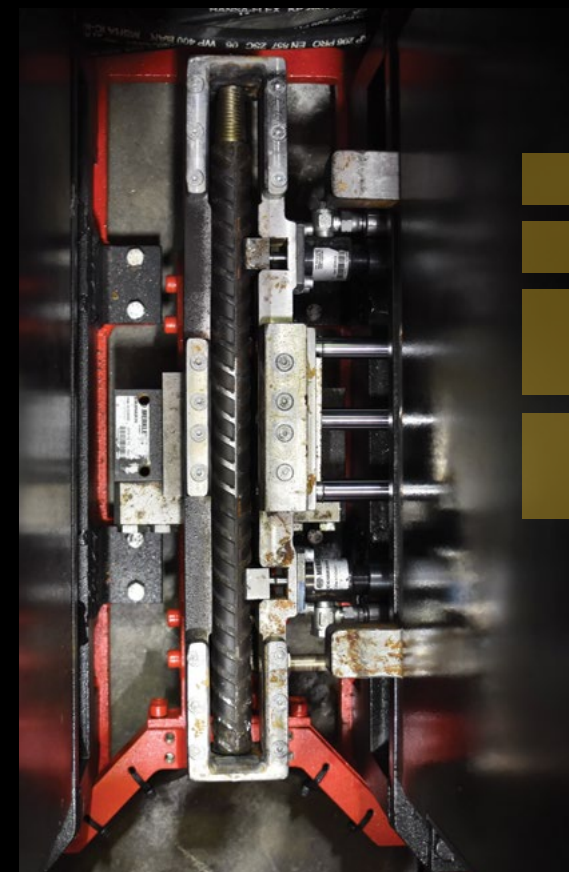
Single button automated
supporting cycle

2 x tools
(drills simultaneously)

Installation bolt length -
1.6m to 2.4m

SDR segment length: 400mm,
up to 6 SDR segments per
single bolt installation cycle

Bolt installation time: 2 bolts
(1.6m) installed in 8 minutes
simultaneously



Camera system per tool

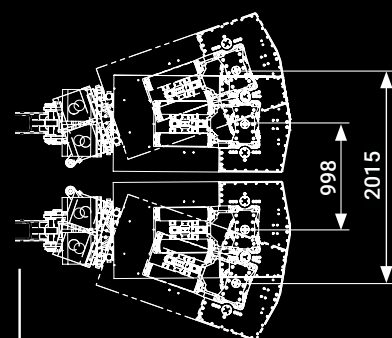
Adjustable tool kinematics

Support pattern flexibility
(1m -2 m)

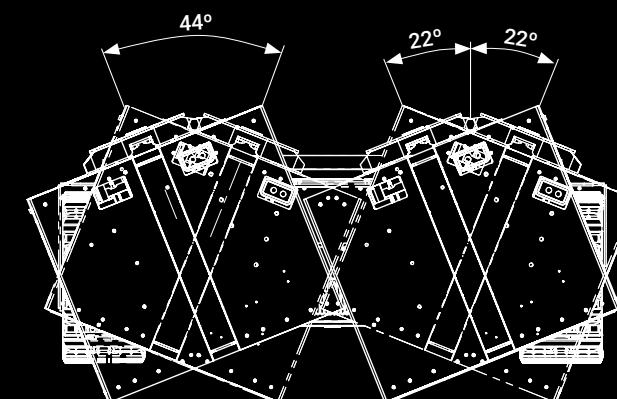
Rotary drilling
(controlled advance rate)

Narrow reef prime mover platform

Interchangeable support rig and drill
rig tool attachments



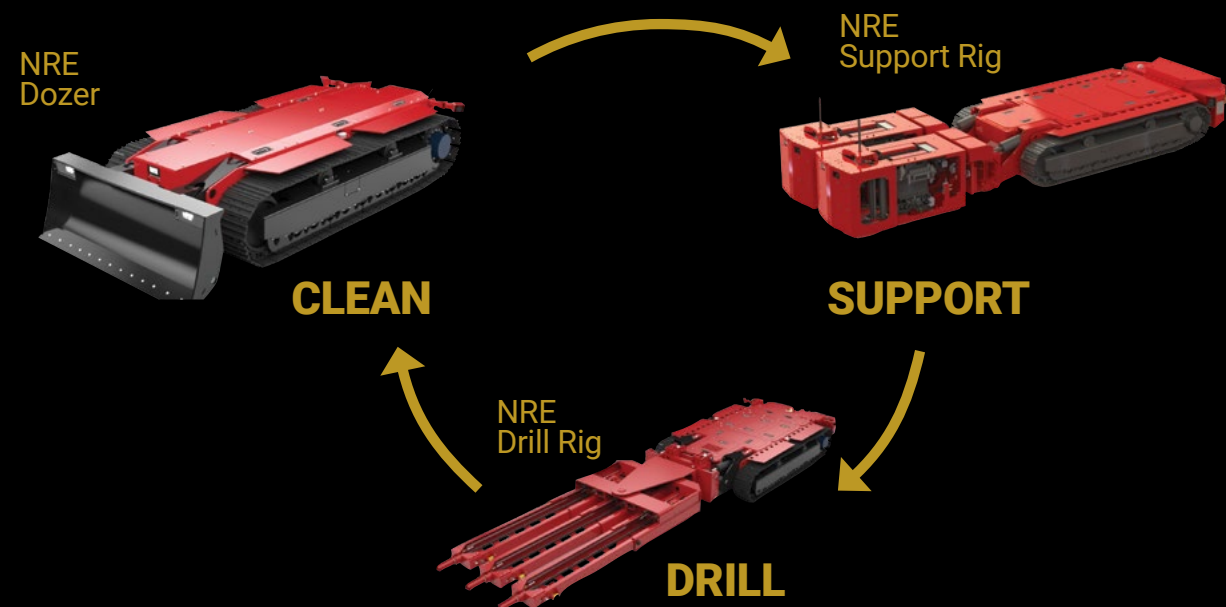
Adjustable tool spread:
998-2015 mm



Adjustable tool roll:
+/- 22°

NARROW REEF MINING MECHANISATION

The NRE Support Rig is a key part of the new powerful electrical NRE suite of equipment which operates in stoping widths between 0.9m to 1.7m and yields improved operational performance in order to mechanise the majority of the mining activities in the cycle.



AFTER SALES

To facilitate end users effective and uninterrupted use of NRE Support Rig, DOK-ING provides the following services.

- Training** Specialized training course for operators and technicians
- Mentoring / Supervision** Ability to provide service/personnel to facilitate day-to-day operation of NRE Support Rig
- Maintenance** Supply of spare parts adequate stock and availability of rapidly responsive technical team worldwide



DOK-ING Ltd. general info

DOK-ING is an international market leader in humanitarian demining industry with its headquarters in Croatia, EU. We design, produce and deliver high quality and combat proven robotic systems for special purposes around the world. Experience gathered through more than 30 years of operational feedback is constantly being built into our products. We are not only the original equipment manufacturer (OEM), but also the user of our own systems.

DOK-ING also provides training by highly skilled professionals who are transferring their field knowledge through systematic and well planned training sessions.

Great knowledge, experience, innovative and purpose-made systems and technologies enable us to be customer-oriented company with flexible approach to end user requirements in order to help solving real operational and environmental problems. With a branch office and workshop in Johannesburg (South Africa), DOK-ING provides a premium service to regional customers.

DOK-ING BUSINESS

PRODUCTS

- MILITARY ENGINEERING
- EMERGENCY RESPONSE
- UNDERGROUND MINING
- COUNTER TERRORISM

SERVICES

DEVELOPMENT

- NEW PRODUCTS
- EXISTING PRODUCTS UPGRADE AND OPTIMISATION

MINE ACTION SERVICES

- MECHANICAL DEMINING AND GROUND PREPARATION
- BATTLE AREA CLEARANCE
- EXPLOSIVE ORDNANCE DISPOSAL
- MECHANICAL TECHNICAL SURVEY AND CLEARANCE

AFTER SALES SUPPORT

- SPARE PARTS DISTRIBUTION
- MAINTENANCE
- SUPERVISION
- TRAINING
- LIFE CYCLE EXTENSION

LOCAL START – GLOBAL REACH NO. OF DELIVERED SYSTEMS

- NORTH AMERICA – 145
- SOUTH AMERICA – 10
- EUROPE – 65
- ASIA – 72
- AFRICA – 59
- AUSTRALIA – 9

DOK-ING MANUFACTURES, DEVELOPS AND PROVIDES ROBOTIC SOLUTIONS FOR SPECIAL PURPOSES IN THE GLOBAL MARKET.

PRESENT IN MORE THAN **40** COUNTRIES WORLDWIDE



DOK-ING

NRE SUPPORT RIG TECHNICAL CHARACTERISTICS

DIMENSIONS

Prime Mover 4150 x 1976 x 745 mm

Toolset 2185 x 1950 x 793 mm

Tool Width (single) 935 mm

GROUND CLEARANCE

Clearance 130 mm

WEIGHT

Prime mover 10 000 kg

Toolset 3000 kg

POWER SYSTEM

Battery Type LiFePO4

Battery Pack Nominal Voltage 346 V

Working off the electrical grid
via trailing cable 380 – 550 VAC 3ph

ON BOARD FAST CHARGER

Charging time 1 h

Charging source 380 – 550 VAC 3ph

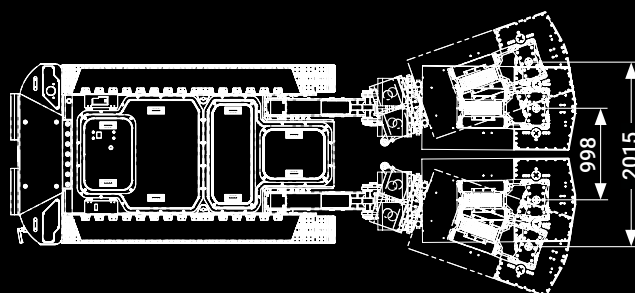
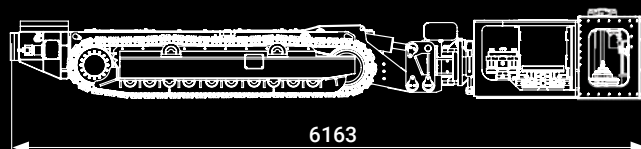
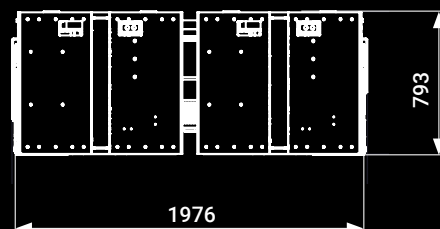
SUPPORT TOOL CHARACTERISTICS

Number of tools 2

Type of drilling Rotary drilling

Maximum drill thrust force 40 kN

Support cycle (2 bolts, 1.6 m ea.) 8 min



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R&TTE Directive 1999/5/EC, EMC Directive
2004/108/EC, Low Voltage Directive 2006/95/
EC, Machinery Directive 2006/42/EC
Other references: IMAS 09.50, CWA
15044:2009, CWA 15832:2008