

NEUMEIER

A current list of our dealers is available on our website.



DEALER CONTACT INFORMATION



Specifications are subject to modification, and this brochure may not represent the most current specifications. Images in this brochure may not depict the present market configuration. Kindly reach out to your dealer to verify specifications and configurations. All rights to this brochure are reserved by NEUMEIER GmbH. Please review the operating instructions prior to using NEUMEIER machines.

Stand: 12/2024

 NEUMEIER GmbH Böhmerstraße 10
93437 Furth im Wald

 +49 9973 / 8466-0
 +49 9973 / 8466-20

 www.neumeier-gmbh.com
 info@neumeier-gmbh.com

Engine power: 13.4 kW
Machine weight: 2,000 kg

NR20F



NEUMEIER

Construction machinery offering an unparalleled price-performance ratio.

DISCOVER THE NR 20F MINI EXCAVATOR: YOUR ANSWER FOR EFFECTIVE AND ADAPTABLE WORK!

Welcome to the introduction of the NR20F mini excavator—the quintessential tool for your construction and excavation endeavors. With its cutting-edge design and robust features, the NR20F is poised to surpass your expectations and enhance your workflows.

SLEEK DESIGN, REMARKABLE PERFORMANCE:

The NR20F captivates with its compact and durable design, facilitating effortless maneuverability even in confined construction sites. Despite its dimensions, this mini excavator boasts a powerful engine that ensures remarkable performance and dependability. Whether engaged in gardening, landscaping, or construction, the NR20F adeptly addresses any challenge with ease.

IMPRESSIVE VERSATILITY:

With a selection of attachments specifically designed for the NR20F, you can enhance your productivity significantly. From buckets to grapples to drills, the adaptability of this mini excavator enables you to accomplish a wide array of tasks with a single tool. Whether your requirements involve digging, loading, lifting, or drilling, the NR20F is consistently prepared for action.

EFFICIENCY AND ECOLOGICAL SUSTAINABILITY:

The NR20F is both powerful and environmentally friendly. Featuring a fuel-efficient engine and low emissions, this mini excavator minimizes environmental impact while reducing operating costs. This enables you to work more efficiently while also contributing to environmental protection.

INVESTING IN THE FUTURE:

The NR20F mini excavator transcends mere functionality; it represents a strategic investment in the future of your construction endeavors. Boasting robust construction, remarkable performance, and user-friendly operation, the NR20F is engineered to enhance your productivity, enabling you to complete projects more swiftly and efficiently than ever before.

Discover today the myriad of features of the NR20F mini excavator and be captivated by its performance and versatility. Reach out to us for further information and to acquire your NR20F mini excavator today!



Rudolf Neumeier, NEUMEIER GmbH

KEY HIGHLIGHTS AT A GLANCE

- **SIMPLE TRANSPORT** facilitated by the capacity to load the vehicle, along with equipment, onto a car trailer with a vehicle registration of up to 3.5 tonnes.
- **EXCEPTIONAL DURABILITY** due to flaps and hoods constructed from sheet steel
- **ROBUST IN OPERATION**, facilitated by a hydraulic line for power tilt and a quick coupler integrated into the dipper stick.



- **VERSATILE APPLICATION OPTIONS** enabled by up to two supplementary controllable hydraulic circuits extending to the dipper stick.
- **EFFECTIVE OPERATION** attributed to the authentic YANMAR engine and NACHI hydraulics.
- **LOW-VIBRATION DRIVING** achieved through short-pitch rubber tracks and three-flange track rollers
- **OPTIMAL VISION** Achieved through LED Work Lights
- **SAFE TRANSPORT** ensured by standard lashing eyes on the undercarriage
- **STABLE SUPPORT** provided by an extended and elevated dozer blade
- **QUICK OVERVIEW** facilitated by the well-organized LCD display
- **EXCEPTIONAL COMFORT** provided by a weight-adjustable driver's seat featuring a high backrest.
- **SIMPLE FUEL MANAGEMENT** via the fuel gauge displayed on both the dashboard and the tank.

THE LODGE

IDEALLY SUITED: THE WORK ENVIRONMENT

The benefits of a ROPS (Roll Over Protective Structure), TOPS (Tip Over Protective Structure), and FOPS (Falling Object Protective Structure) secured cabin in a mini excavator, complemented by features such as a radio and a suspended fabric seat with a high backrest, include Headrests, heating features, safety elements, safety belts, and safety hammers are varied, providing both comfort and security for the operator.

Here are several key advantages:

ACCIDENT PREVENTION MEASURES:

The ROPS, TOPS, and FOPS structures offer robust protection for the operator in the event of accidents, including excavator rollovers, tipping on uneven terrain, or the threat of falling objects. This substantially mitigates the risk of injury.

PLEASANT WORKING ATMOSPHERE:

The equipment, which comprises a radio, a suspended fabric seat, and a heater, enhances the working environment. The operator can enjoy their preferred music while working, and the suspended seat promotes an ergonomic seating posture, alleviating fatigue during extended work hours. The heater enables the operator to maintain comfort even in chilly conditions.

ENHANCED SECURITY:

The safety belt offers enhanced protection by ensuring the operator remains securely seated, particularly when navigating uneven terrain or during abrupt movements of the excavator. The safety hammer serves as an emergency tool, enabling a swift exit from the cab if required, such as in the case of an accident or other urgent situation.



OUR PILOT-OPERATED JOYSTICKS DESIGNED FOR MINI EXCAVATORS.

Explore the future of excavator operation with our user-friendly and ergonomically designed joysticks. Their strategically placed controls ensure effortless and precise management for every task at the job site.

Experience enhanced performance and diminished fatigue.

The NEUMEIER NR20F machines come standard with two proportional joysticks.



NR20F

LEGAL OBLIGATIONS AND CRITERIA:

Compliance with ROPS, TOPS, and FOPS standards is mandated by law in numerous countries to safeguard the safety of construction vehicle operators. The installation of these structures and safety features enables the mini excavator to adhere to relevant regulations and standards.

USER-FRIENDLY AND INTUITIVE INTERFACE

Experience the simplicity of operation with our cutting-edge display and intuitive control buttons for our mini excavator. Our advanced system makes managing your construction vehicle more straightforward than ever. The clear display presents all pertinent information at a glance, while the ergonomically designed buttons facilitate effortless navigation. Whether you are an experienced professional or a beginner, our user interface ensures that operating the mini excavator is a seamless experience. Enjoy unparalleled efficiency and comfort.

In summary, a ROPS, TOPS, and FOPS-secured cabin, equipped with enhanced comfort and safety features such as a radio, suspended fabric seat, heater, and safety elements, offers optimal protection and comfort for the operator while utilizing the mini excavator, thereby ensuring efficiency and safety in the workplace.

STANDARD EQUIPMENT OF THE NR 20F

WORK EQUIPMENT

- Two proportionally controlled auxiliary control circuits fully routed with connections on the dipper stick.
- Dedicated hydraulic circuit for a hydraulic quick coupler
- Transitioning to a pressureless return for the supplementary control circuit.
- Pressure relief for the auxiliary hydraulics
- Lifting cylinder safeguard
- Piercing gaze
- Three LED work lamps
- Pipe rupture protection and load-holding valve on the lifting cylinder

DOZER BLADE

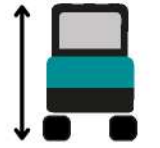
- securable with eyelets
- Shield expanding to track width

DRIVE

- Short-Pitch-Gummiketten
- Three-flange drive rollers
- A support roller.
- Braked traction motors (automatic)
- Automatic transmission
- Road expansion



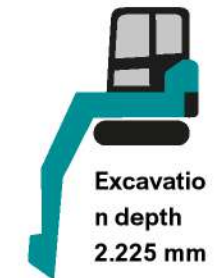
Machine
dimensions
1.360 mm



Machine
elevation
2.371 mm



Digging
height
3.533 mm



Excavation
depth
2.225 mm



Machine mass
2.000 kg



Engine output
13.4 kW (18.2 hp)

NR20F

ENGINE/HYDRAULICS

- YANMAR Diesel Engine
- Euro V emissions standard
- Electric fuel pump
- Robust NACHI hydraulic pump
- High-performance oil/water coolers
- Automatic swing brake
- Automatic fuel venting system

CABIN

- Safety Structure: TOPS/ROPS/OPG Level 1
- Ergonomic seat featuring a textile cover, elevated backrest, and integrated headrest.
- Hydraulically actuated pilot-controlled drive levers
- Cabin heating system
- Retractable windscreen featuring two gas pressure dampers.
- Tinted windows in the cabin
- Windscreen wipers featuring an intermittent function
- Radio featuring a USB port and Bluetooth connectivity
- Cupholder
- Onboard tools and lubrication gun

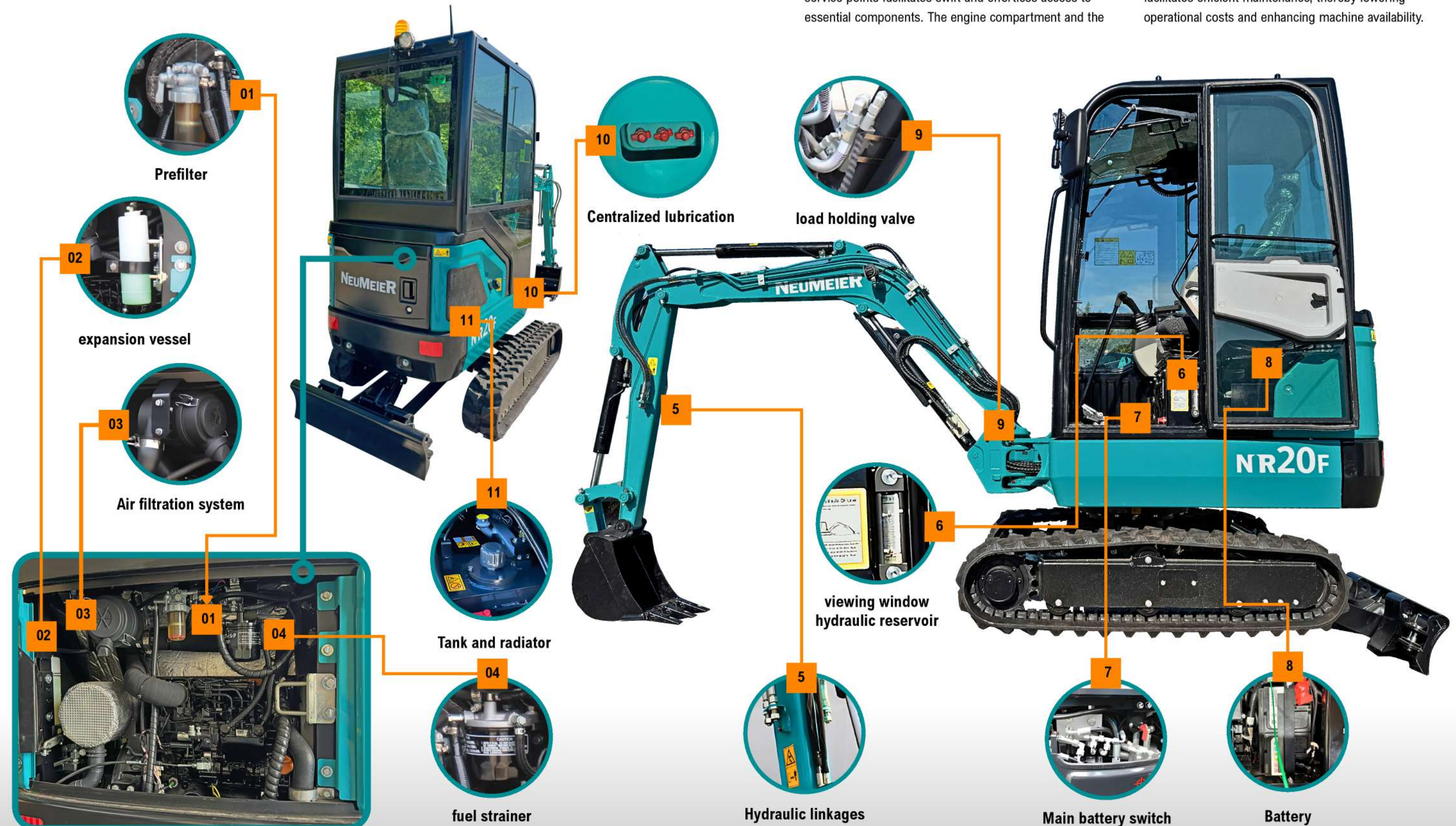
SIMPLIFIED SERVICE AND MAINTENANCE

UNMATCHED VALUE FOR THE PRICE!

NR20F

The NR20F mini excavator boasts a notably service-friendly design. The strategic layout of maintenance and service points facilitates swift and effortless access to essential components. The engine compartment and the

Hydraulic systems are engineered to ensure that all pertinent components are easily accessible. This facilitates efficient maintenance, thereby lowering operational costs and enhancing machine availability.



ROBUST COMPONENTS FOR A FORMIDABLE MACHINE

NR20F

MAXIMUM DIGGING CAPABILITY, OPTIMAL REACH: OUR MINI EXCAVATOR ESTABLISHES BENCHMARKS.



NR20F – maximum 3.883 mm

Our mini excavator provides unparalleled digging power and reach in the market. With its robust hydraulics and precise controls, it adeptly handles any challenge. Its extended reach facilitates efficient operations across diverse tasks.

environments. Depend on its durable construction for exceptional performance, regardless of the conditions. Prepared to succeed – explore the opportunities with our mini excavator today.

CYLINDER AND PISTON SAFEGUARDING ON THE BOOM CYLINDER ENHANCES THE MACHINE'S SERVICE LIFE.

The implementation of cylinder and piston guards mitigates the risk of damage to the hydraulic cylinders and pistons, thereby prolonging the service life of the mini excavator.

Reduce downtime:

Damaged hydraulic cylinders and pistons can result in expensive repairs and operational delays. An efficient protection system mitigates potential damage, thereby maximizing the mini excavator's operational uptime.

Enhanced safety for employees:

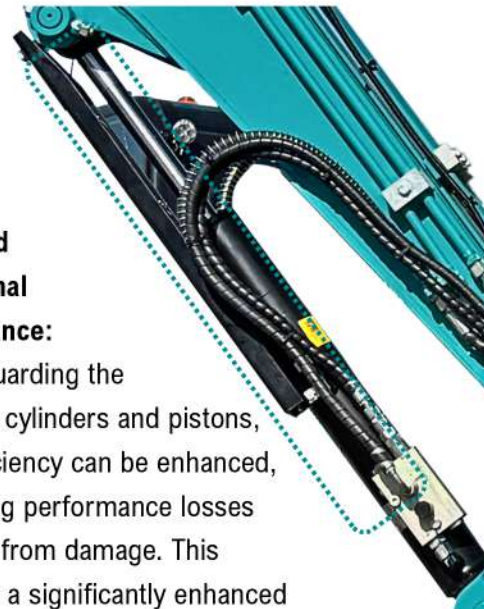
Cylinder and piston guards mitigate the risk of accidents on construction sites by safeguarding the cylinders and pistons from dirt, stones, and other materials that could lead to unexpected hydraulic failures.

Enhanced operational performance:

By safeguarding the hydraulic cylinders and pistons, their efficiency can be enhanced, preventing performance losses resulting from damage. This results in a significantly enhanced operational performance of the mini excavator.

Cost-effectiveness:

Investing in a cylinder and piston guard can result in substantial long-term cost savings by mitigating the need for costly repairs. Downtime can be mitigated and maintenance expenses can be minimized.



AUTOMATIC GEAR SHIFTING FOR MINI EXCAVATORS: EFFICIENT OPERATION, ENTIRELY AUTOMATED.

Our cutting-edge automatic gearshift enhances the operation of your mini excavator by seamlessly transitioning between higher and lower gears as required.

Work requirements. Experience a seamless driving experience that effortlessly adapts to your work style and enhances productivity.

THE YANMAR 3TNV80F ENGINE PRESENTS SEVERAL COMPELLING ADVANTAGES. FOR HIS DEDICATION TO OUR NR 20F:

The engine is distinguished by its exceptional reliability, which is essential for prolonged use in an excavator, particularly in challenging working conditions.

Its fuel efficiency facilitates economical operation, leading to reduced operating costs and enhancing the excavator's profitability.

With its exceptional low-speed torque, the engine is perfectly suited for excavating and lifting substantial loads, thereby enhancing the performance and efficiency of the excavator. Its service-oriented design facilitates swift and straightforward maintenance, reducing downtime and optimizing productivity.

YANMAR STAGE V ENGINE



The engine adheres to stringent emissions standards, promoting environmentally sustainable operation and ensuring compliance with regulatory requirements, which is essential for functioning in diverse environments.

OTHER SIGNIFICANT ELEMENTS OF PREMIUM BRANDS



KYB
Cartridge valves
and joystick



LKC
Primary pump



KYB
traction motor



NACHI
Rotary actuator

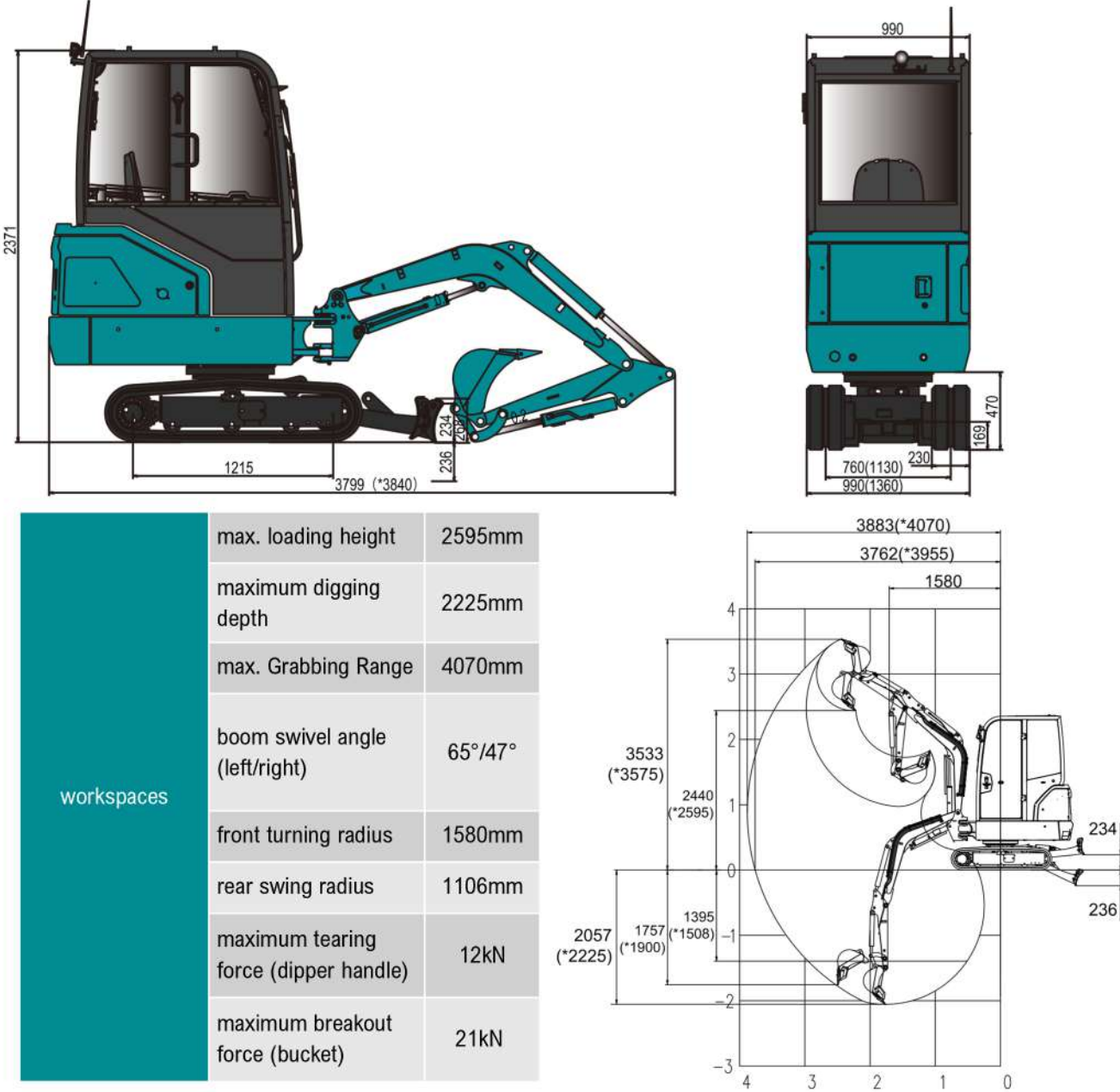
TECHNICAL SPECIFICATIONS

NR20F

TECHNICAL SPECIFICATIONS

cabin classification		Complete cabin
machine mass		2000kg
dimensions	overall dimensions (mm) (LxWxH)	3840Lx1360Bx2371H
	ground clearance	169mm
motor	brand	Yanmar
	model	3TNV80
	emission level	EU Stage V
	displacement	1,267 l
	performance	13.4 kW / 2200 rpm
chassis	type	rubber track
	chain width	230mm
undercarriage	chassis dimensions	1560 mm
	distance to the center of the rollers	1215mm
	length to the midpoint of the chain	760mm/1130mm
	driving velocity (mixed/maximum)	2.5/4.5 km/h
	climbing proficiency	30°
panning velocity		10 rpm
ground pressure		30kPa
bulldozer blade	width	990mm/1360mm
	height	260mm
	range of motion vertical	234/236mm
hydraulic pump	type	LP028
	flow	62L/Min.
	hydraulic pressure	21 MPa
rotary actuator	rotary actuator	Nachi
drive	drive	LKC
fuel tank capacity		21L
hydraulic reservoir capacity		26L

OPERATIONAL DIMENSIONS



workspaces	max. loading height	2595mm
	maximum digging depth	2225mm
	max. Grabbing Range	4070mm
	boom swivel angle (left/right)	65°/47°
	front turning radius	1580mm
	rear swing radius	1106mm
	maximum tearing force (dipper handle)	12kN
	maximum breakout force (bucket)	21kN

A	Max.		3.0 m		2.5 m		1.0 m	
B	front	side	front	side	front	side	front	side
2.5 m	370*	370*	/	/	172	182	/	/
2.0 m	380*	370*	390*	390*	362*	362*	/	/
1.0 m	395*	276*	450*	350*	540*	420	708*	556
0 m	472*	276*	488*	/	595*	385	/	533
-1.0 m	470	368*	/	/	/	/	/	458

SUPPLEMENTARY APPARATUS

- Trench cleaning bucket
- sieve bucket
- excavator rake
- Tele-bucket
- Quick coupler
- Quick coupler featuring a swivel motor
- Auger
- Hydraulic breaker



UNMATCHED TRANSPORTABILITY

With a width of merely 1360 mm and a weight of 2000 kg, our mini excavators exemplify mobility. Their compact dimensions and lightweight design facilitate easy transportation on trailers or transport vehicles, all while maintaining robust power and functionality. Whether moving between job sites or navigating confined construction areas, our models provide the flexibility and mobility essential for the efficient completion of your projects.



The automatic swivel lock and the six lashing points on the machine guarantee safe and effortless transportation of the machine and its accessories.

GLOBAL DISTRIBUTION AND SUPPLY OF SPARE PARTS



Thanks to NEUMEIER GmbH's strategic location in Europe, the delivery of spare parts and machinery is efficient and can be accomplished in a remarkably short timeframe. Deliveries within Germany are made via overnight express, to European countries within 1-2 days, and to destinations outside Europe via air freight.

GUARANTEED SUPPLY OF SPARE PARTS AND DISTRIBUTION

From its headquarters in Furth im Wald, NEUMEIER GmbH facilitates the seamless shipment of spare parts from Germany within a 24-hour timeframe.

Machines can be acquired from designated NEUMEIER dealers or directly from us within approximately one to two weeks. Selected accessories and attachments are frequently in stock, enabling you to equip your machine in the shortest possible time.



GLOBAL DISTRIBUTORS:

Our products are not only available globally but are also backed by a network of committed dealers. These partners are equipped not only to sell our products but also to offer local support and comprehensive services.

Regardless of whether you reside in a bustling metropolis or in secluded regions, our dealers are equipped to assist you with inquiries, installations, maintenance, or repairs. Their dedication to excellence and expertise renders them invaluable partners for your requirements.



Local assistance, accessible everywhere

No matter your location, you can depend on the assistance and service provided by our dealers.