

Sustainability @ terra infrastructure

SUSTAINABLE SOLUTIONS FOR YOUR PROJECTS

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FOREWORD

Sustainability is not an option – it is our responsibility!

The path to fulfil this responsibility is defined by the Paris Climate Agreement. The next milestone in the EU is set for 2030. By then, a 55% reduction in all climate-damaging greenhouse gas emissions compared to 1990 must be achieved.

Every company faces the challenge of implementation and the concrete question of priorities. The targets explicitly foresee a gradual reduction of CO_2 emissions, among other things. This means that we may not yet know all the solutions today, but we must still face the challenge head-on.

With our solutions at terra infrastructure, we are already largely capable of meeting the 2030 targets of the Paris Climate Agreement – sustainably, safely, and efficiently, as always. Instead of relying on certificate trading, we focus on real reductions in CO_2 emissions.

The answers to how this works in our various sectors and what advantages it brings to you and your company are right in your hands. If you have any further questions, our entire team is happy to assist you at any time. Just get in touch with us.

We would be happy to support you as your partner in sustainability.



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OUR COMPANY

We are your global partner for projects and solutions in the fields of shoring, infrastructure and civil engineering.

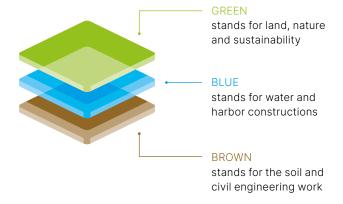
Our solutions always start with a comprehensive analysis of the individual challenges at our customers' respective sites. We therefore always begin by providing comprehensive advice, on which we base our recommendation for a customised solution. Our offer comprises detailed planning and the optimal combination of materials, machinery and installation methods, all tailored to the local conditions.

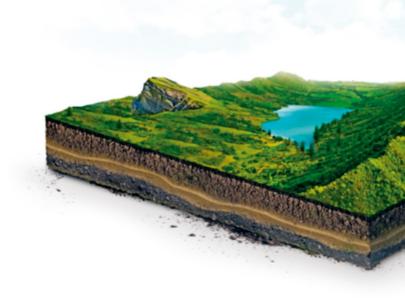
As an innovative partner, we contribute daily to ensuring that safe, efficient and sustainable construction is not a contradiction. Our solutions ensure safety on sites and create a real competitive advantage through efficiency. Our business is aligned with sustainable action, because through our rental business we have been promoting recycling for decades. In doing so, we utilize the longevity of our products and avoid wasting resources. Our main goals are to actively support the path to CO_2 -free steel production and to drive forward the development of emission- and vibration-free machinery.

We are wherever our customers are. Our employees and partners know the regional markets and requirements and can thus optimally meet the specific needs of our clients. Our customers benefit from our knowledge and skills in after-sales services.

We enjoy achieving the goals we set together – while each individual has the possibility to shape the future in their own way, building on our strong and secure foundation.

OUR COLORS





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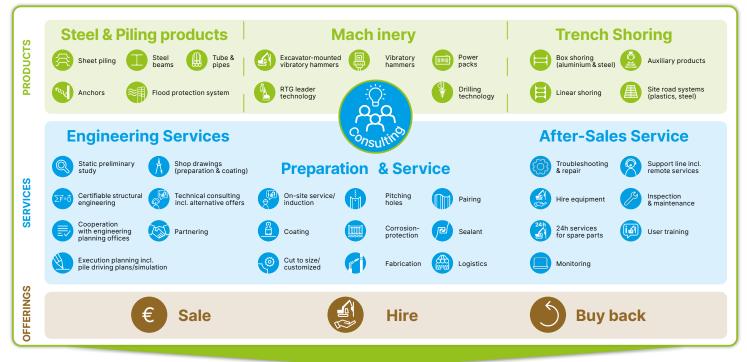
Our approach is holistic, solution-orientated and sustainable!

Our solutions consist of sheet piling, machinery and trench shoring. These three areas are interconnected and can be used in a complementary way. This allows us to create comprehensive solutions for construction sites - all from one single source.

Our services enhance our holistic solutions through engineering expertise, prefabrication and after-sales services. We provide recommendations for the best materials, machinery, and installation methods for each project.

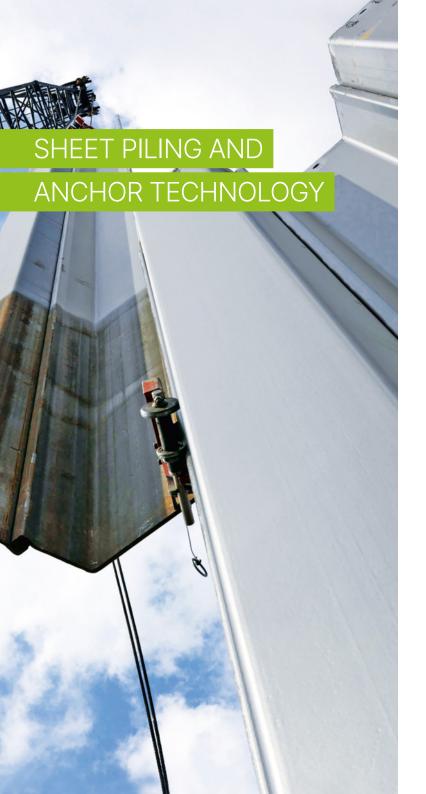
Extensive processing options and the maintenance of our products enable a sustainable product lifecycle and resource-efficient infrastructure projects.







Demolition Various (festivals etc.)





WE OFFER OUR **CUSTOMERS AROUND** THE WORLD AN INTEGRATED RANGE OF SYSTEM SOLUTIONS

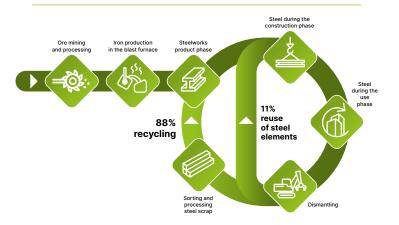
Central components of our offering are the sale and rental of sheet piling, steel beams, anchor equipment and flood protection. We provide a wide range of products from various manufacturers, and we round off our offer with a comprehensive service package comprising advice, technical support, logistics and leasing.

SUSTAINABLE STEELS

Steel is 100% recyclable without any loss of quality. The steel industry in Germany uses around 20 million tons of steel and iron scrap every year to generate new products which means that a well-functioning steel recycling system is established in Germany. For example, the collection rate for construction steel at the end of a building's lifecycle is approximately 97%. All recollected steel is fully recycled.

The transition to climate neutrality in the steel industry is taking place in stages, depending on the increasing availability of green electricity and climate-neutral hydrogen. A classification system is being developed to reflect this step-by-step transformation process and to specifically incentivize and support the efforts and additional costs associated with each transformation phase. Therefore, produced steel is categorised based on process ambition and emission intensity.

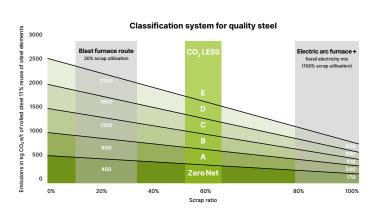
Circular economy with steel



The International Energy Agency (IEA) has proposed a six-tier classification system for this purpose. Building on this, the German Steel Federation (flanked by the Federal Ministry of Economics and Climate Protection) has launched the Low Emission Steel Standard (LESS) initiative. The goal of LESS is to accelerate the development of demand for low-emission steel and to establish initial sales markets. LESS is specifically designed to support the transformation of the steel industry by introducing a labelling system that represents the step-by-step path to climate neutrality and enables the comparison of differently produced steel products.

The LESS system consists of several elements: specifically, a classification scale within the labelling system illustrates whether the steel is categorized as "near-zero" or "low emission (A-D)" steel. The classification thresholds are based on the greenhouse gas intensity per ton of produced hot-rolled steel as well as the stated scrap input. Through a so-called "sliding scale," the system - aligned with the approach of the International Energy Agency - takes into account the globally limited availability of steel scrap. It also ensures that transformative efforts in both, the primary and secondary steel production route, are reflected within a unified scale.

LESS classification system for categorising products depending on their greenhouse gas intensity and scrap quotient



OUR PATH TO GREEN STEEL

Every construction site is different. That's why our service always starts with a consultation, where we work together with our customers to select the right materials and machinery for a customised solution. For every challenge, our range offers more than just one option.

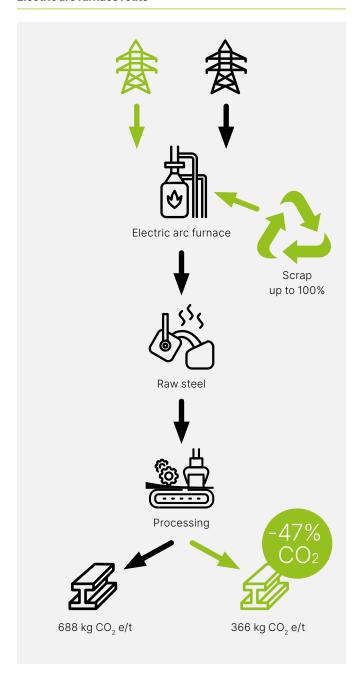
This also applies to sustainability. With a wide variety of products in our portfolio, we already meet the EU's 2030 emission reduction targets today.

It's worth making comparisons here as well - starting from the manufacturing processes to the materials themselves. Our steel beams stand out with an impressive CO₂ value of 688 kg CO₂ e/t, even without the use of green electricity. Since 1996, our beams have been produced using a low-emission electric arc furnace process with 100% scrap recycling. The power supply comes from a residual electricity mix, with no double counting of assigned renewable energy.

For customers with an even stronger focus on their CO₂ footprint, we offer a green alternative: beams with a CO2 value of just 366 kg CO₂ e/t, produced via the electric arc furnace route. This is achieved with 100% scrap recycling and green electricity sourced directly from wind power. With this product range, you can reduce CO₂ emissions by 47% already today!



Electric arc furnace route

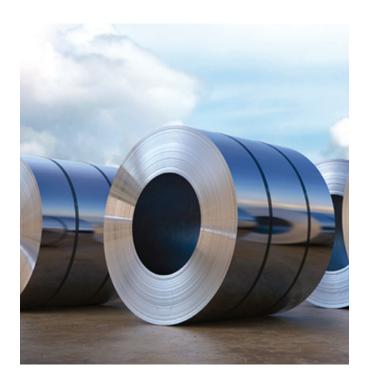


We are following a similar approach with our hot-rolled sheet piling range, offering a CO₂-reduced variant of our primary material produced in the electric arc furnace. By 2027, sheet piles made from slabs with an even lower CO₂ footprint will complement our range. Since 2023, our decarbonisation strategy has been further advanced with sheet piles made from hydrogen-based steel production, enabling us to continuously support you as a reliable

partner in achieving your emission reduction targets with a wide

range of products based on the latest technologies.

In addition, our sheet piling range naturally also includes sheet piles made from cold-rolled coils, which, if the intended use of the project is permissible, can significantly reduce your carbon footprint even further. Our extruded PVC profiles are the alternative with the lowest CO₂ emissions, comprising 88% recycled material and 70% recyclable after use. Alternatively, leftovers can also be used to generate energy.



FOR OUR CLIMATE, IT'S WORTH COMPARING

CO₂ emissions can be reduced by selecting the appropriate sheet piling type and profile as well as the selected base material, focusing on the intended use, the required bearing capacity and the material resistance – this enables a customized and sustainable solution for every project.

Comparison CO₂ footprint of different sheet pile profiles (selection)

Example profile			FLP 700/8	FLP 700/8	PVC GW 600
Manufacturer Example profile	tkL603	tkL603	FLP 700/8	FLP 700/8	PVC GW 600
Manufacturer process	hot-rolled	hot-rolled	cold-moulded	cold-moulded	extruded
Input material	regular	CO ₂ -reduced slabs	regular	CO₂-reduced coils	Recycling products
Length	10,00 m	10,00 m	10,00 m	10,00 m	10,00 m
Weight	107 kg/m ²	107 kg/m²	88.45 kg/m ²	88.45 kg/m ²	23.00 kg/m ²
Section modulus	1,200 cm ³ /m	1,200 cm ³ /m	540 cm ³ /m	540 cm ³ /m	1
CO ₂ - emission/ to*	1.88 E+ 3 kg CO ₂ /to	9.12 E+ 2 kg CO ₂ /to	n.a.	n.a.	5.24 E+ 2 kg CO ₂ /to
CO ₂ - emission/ m ² *	2.01 E+ 2 kg CO ₂ /m ²	9.76 E+ 1 kg CO ₂ /m ²	n.a.	n.a.	1.21 E+ 1 kg CO ₂ /m ²
CO ₂ -emission comparison/ m ^{2*}	100%	49%	n.a.	n.a.	6%

^{*} In relation to the hot-rolled input material tkL603

Data table sheet piles

	^{મુ} લેલુ માં (em)	With Minth paga pige pile (cm)(em)	Sectional the Wy (cm ² (em) ³ /m)	Weig <mark>Meightjaiqible</mark> pile (k <i>q/n</i> thg/m)	Weight per wall (kg/m²)	Co ₂ kg/m ² regular input material	Co₂ kg/m² Co₂-reduced input material
144L69 0N L601	340 310	6800 600	7/44 7/44	46.346.30	77.20	1.45 E+ 02	7.04 E+ 01
tkk 6992 602	340 310	6600 690	842 842	553:4 15 3:40	89.00	1.67 E+ 02	8.12 E+ 01
#KF69#F603	3220 320	600 600	1,2001,200	64.2064.20	107.00	2.01 E+ 02	9.76 E+ 01
tkkl 6004 A	3990 390	689 699	1: 584 :564	<i>71</i> 4.90 7 1.00	119.30	2.24 E+ 02	1.09 E+ 02
tkk 6 864 604	3990 390	689 699	1:6181:618	7/3:107/3:10	121.80	2.29 E+ 02	1.11 E+ 02
tkk169 05146 05 A	429 420	689 699	1:99211:821	7 /5 :2 6 75:20	125.30	2.36 E+ 02	1.14 E+ 02
tkkl68 05116 05 N	420 420	680 600	2,0212.021	882,1082,10	136.90	2.57 E+ 02	1.25 E+ 02
tkrf@ 98878 00 ₩	4390 430	689 699	2,2052:205	855.4 48 5.440	142.30	2.68 E+ 02	1.30 E+ 02
that 66645 1606 N	430 430	680 600	2:5022:502	944.10994.10	156.80	2.95 E+ 02	1.43 E+ 02
4KH 688 628	4555.1455.1	689 699	28412:841	1201:34601:80	169.60	3.19 E+ 02	1.55 E+ 02
that 6667	4565456.5	689 0 600	3.2419.211	11/2:4002:40	187.30	3.52 E+ 02	1.71 E+ 02
FLP 7400F97 00=8	1551 151	7990 700	540 540	661,9 66 1.90	88.40		
FLP 750F8 50-8	295 285	7590 750	19 44 .044	7/6/9/1/6:60	102.00		
KD 6 98/B 2688=8	890 80	689 699	237 237	590 50	83.30		

Data table wide flange beams

	НеідіНе́(він)) (ст)	Widt Minth pagainith pile (em)(em)	Secilartiodulus\VIII s Wy (क्षानं <mark>पमा)</mark> ³/m)	Trech Trictinicati, Netgy) (N g/m)	७७₂शंभ्र/mाल्क्योधाः impdematerialı	ૢઌ૱૾ૣૡૢૺૺૺૺૺૺૺૺૺૺૺૺૺૺૺૺૺૺઌ ઌ૱૾૽ૺૡઌૢૺૺૡઌ ઌૹ૽ૡ૽૽૽ૹૺ
HEEB 1460 160	1680 160	1690 160	38/h 311	4/2.5812.59	2:968 E+011	1,598 E24 Q1
HEEB 1888	180 180	1890 189	42 26 426	5h. 225 1.22	3.52 E4 01	1,9 7 E
HEB 200 200	2000 200	2000 200	5 7/0 570	691.2961.29	4:22E+01	2:24 E+ 01
HEEB 2420 220	2220 220	2220 228	7 /396 736	771.47771.477	4.992 E4 0h	2.962 E4 9h
HEEB 24 0	2,400 240	2400 240	9638 938	883.2003.20	5.72 E+ 01	3.955 E4 O1
HEEB 26 0	2660 260	260 260	<u>ነ</u> ብ ୍ କ୍ରୀ.150	992.2992:28	6:35E+01	39.398 Et+ 991
HEEB 200 200	2 <u>88</u> 0 280	2890 280	1 _{1,380} 1.380	1003.11003.10	7:000 E+01	3 <i>77</i> 7 € 4 011
HEEB 300 300	3999 300	3990 300	<u>ነ 688</u> 7.680	1177:9 91 7:90	8.95E+91	4:2% E+ 9h
HEEB 1990 320	38200 320	300 300	1 193301.930	1/2/6/7/102/6:70	8.72 E+ 01	4.994 E+ 9h
HEEB 8468 349	3 ₄₄₀ 340	3990 300	2,1602.160	134:204:20	9-23-E4-9h	4.9h E+0h
HEEB 36 0	360 360	3990 300	2 <u>4</u> 0 8 .400	17411:98841:80	9.76 E4 01	5.19E+01
HEEB ##88 400	400 400	3990 399	2 ₃₈₈ 8.380	1555:3955:38	1.97€492	5.98 E4 VI
HEEB 450	4560 450	3990 399	3 <u>35</u> 8.350	1774.118771.119	1.18 E4 92	%.2%E+01
바른B 500 500	5990 500	3900 300	4 ₄ 2994 .290	1875.3187:30	1,29 = 402	ରଃ ଖିହ ୍⊬ଖା





OPTIMAL MACHINERY AND EQUIPMENT ARE THE KEY TO COST-EFFECTIVE WORK

We supply our customers with all the machinery and equipment they need to drive steel sheet piles, pipe piles, beams and other pile sections regarding easy to complex pile driving jobs. We also provide drilling technology for every field of application: from anchor and geothermal drilling rigs, drilling mounts and hammer drills to double-head drilling rigs. In addition, we supply convincing technical concepts for an economical realisation of the construction project.

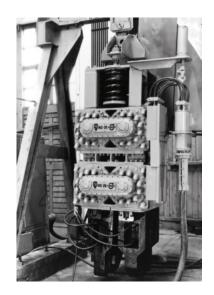
ELECTRIFICATION OF CONSTRUCTION **MACHINERY**

Since the 1960s, electric vibratory hammers have been a core part of the MÜLLER vibration technology product range. At that time, the electric engines mounted on the vibratory hammers still drew their drive power from diesel-powered generators. At that time, the widespread availability of mobile hydraulics was still limited, which is why electric motors were the preferred drive solution.

Although the three-phase asynchronous motors used were robust and easy to handle, they were also heavy and not very powerful characteristics that still apply today (compared to mobile hydraulic components).

With the rise of mobile hydraulics in the late 1970s and early 1980s, the drive technology changed. Hydraulic motors and pumps impressed with their high power density, meaning high performance in a compact design. Diesel remained the preferred energy source: diesel engines were now used to operate pumps that, in turn, supplied hydraulic motors to the vibratory hammers a departure from the diesel generators that had previously powered the electric motors.





MÜLLER MS-26 D (Year of Manufacture: 1965)



MÜLLER MS-60 ET

OUR SOLUTION AT MÜLLER: ZERO EMISSIONS AT HALF THE PRICE

The current situation has changed significantly: modern electric motors, such as the permanent magnet synchronous motor (PMSM), offer significantly better performance than the electric motors from the 1960s. At the same time, the need for CO₂ reduction requires a shift away from traditional diesel as an energy source.

Our solution addresses three key aspects:

- We retain the established hydraulics with its high energy density. This means that all vibratory hammers currently on the market can not only continue to be operated/used but can even do so emission-free in the future.
- When using electric components, we rely on the latest technologies, such as PMSM motors, which offer high performance in a compact design.
- We offer a fully emission-free electric-hydraulic drive unit (when using 100% power from renewable energy sources). This can be operated either with a battery or, if available on-site, by connecting directly to the existing construction power supply. The battery has sufficient capacity to ensure operation for an entire workday. At the end of the day, only the unit needs to be replaced, which is a significant advantage. Accordingly, this results in 100% emission reduction with a 50% investment savings for a new vibratory hammer.



Our four modular power packs, including modular battery storage units, can be operated in completely autonomously or connected to the power grid in parallel to extend usage time or reduce battery size. Vibratory hammers up to the size of an MS-28 HFV (mediumsized) can thus be operated:

MS-A 170 E

170 kW hydraulic output -> approx. 290 l/min. oil flow rate

MS-A 240 E

240 kW hydraulic output -> approx. 410 l/min. oil flow rate

MS-A 315 E

315 kW hydraulic output -> approx. 540 l/min. oil flow rate

MS-A 410 E

410 kW hydraulic output -> approx. 700 l/min. oil flow rate

Our self-sufficient power packs offer the opportunity to optimize the range of the batteries over a long time period or for large construction sites thanks to innovative solutions. Construction machines can be designed to work efficiently under these conditions, ensuring operational continuity through the use of mobile charging units or regular battery changes. Additionally, the battery storage units can be fully recharged overnight using a standard construction site power distributor (63A).



24 | Machinery | RTG HYBRID RTG HYBRID | Machinery | 25

RTG HYBRID

With our RTG ramming technology products from the internationally operating Bauer Maschinen Group, we are your specialist for energy-efficient vibration, ramming and pressing technology. Our RTG telescopic and rigid piling rigs are designed for the transmission of high forces of pressure / compressive force and to absorb torques. Together with the high installed motor capacities, they are ideally suited as carrier machines for a wide range of applications, such as excavation pits, pile foundations, piling work, bridge and port construction, as well as urban construction sites with emission regulations.

To drive the decarbonisation process forward, you will find the eRG19 hybrid telescopic guide in our range. The hybrid drive combines two different driving systems, the diesel engine – for maximum output when high power is required – and the electric motor – for low-emission and low-noise work, ideal for use in environmental protection areas or inner-city sites with strict noise and emissions regulations. The advantages of this technology are convincing:

- **Flexibility:** demand-oriented power control between electric and diesel engine enabling use in areas without direct power supply and in environmentally sensitive zones.
- Productivity: increased productivity through improved efficiency.
- Fuel efficiency: up to 68% reduced fuel consumption through the additional electric drive.
- Emission reduction: up to 45 kg/h reduced CO₂ emissions ideal for achieving sustainability goals.
- Optimised parallel operation of main and auxiliary consumers.
- **Noise reduction:** quieter operation at more sensitive projects reduced sound power of up to 2 dB (A).

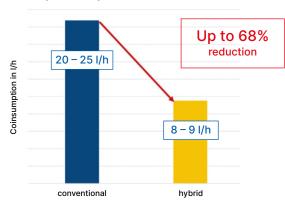


The RG19 T hybrid power unit utilizes an 80 kW electric motor in addition to RTG's 430 kW diesel engine, which can operate either independently or even simultaneously.

- The diesel engine ensures that the system can be used at any time, even without an external power connection.
- The electric motor can be activated when a power connection is available.
- The combined power output of both engines is 510 kW.

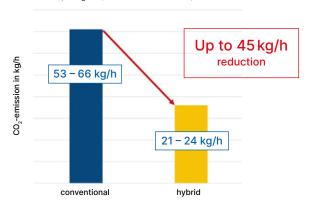
RG19 T Hybrid - real construction site*

Diesel consumption complete



CO₂-emission

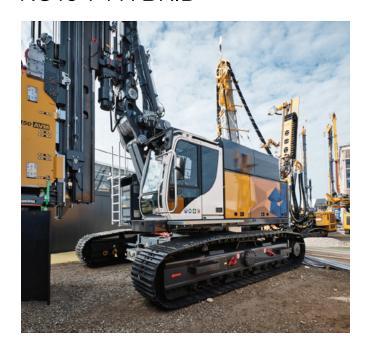
(hypothesis 1 I fuel = 2,65 kg CO₂-emission on exhaust)



^{*} Construction site measurements Friedrich-Krause-Ufer, Berlin, Germany (2024)

26 | Machinery | RTG HYBRID | Machinery | 27

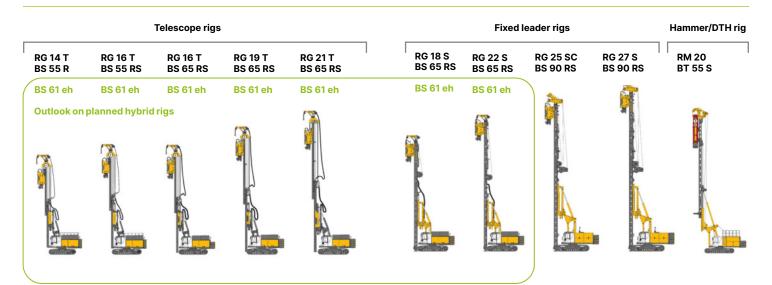
RG19T HYBRID



Machine data RG19T Hybrid

	Unit	
Max. leader height (extended, min. projection)	m	23.9
Max. pile length (with vibrator)	m	19.0
Leader tilt (to the front / back / side)	٥	4 / 10 / 4
Leader rotation (right/left)	o	95 /95
Max. preload force on the vibrating carriage (ramming)	٥	140
Max. preload force on the vibrating carriage (pulling)		200
Permissible torque	kNm	80
Transport length (without auxiliary winch)	m	12.2
Transport height	m	3.4
Transport width	m	3.0
Total weight (without auxiliary winch) approx.	t	54.7
Total weight with auxiliary winch approx.	t	55.5

Modular hybrid Line







UNIQUE EXPERTISE – FOR OVER 75 YEARS

With our E+S and KRINGS shoring systems, we provide cost-effective technical processing solutions for numerous civil engineering projects, both domestically and overseas markets – always considering all safety-relevant aspects. And we have been doing this for over 75 years.

Since every construction site presents its own unique challenges, our project-related consulting services are of particular importance. Together, we will find the right product from our extensive range to secure your trench or excavation.

Whether our E+S Linear and Box shoring for large-scale construction projects – such as very large and wide excavations – or our KRINGS edge-supported shoring system, which is particularly versatile for securing excavations and takes up little space when mounting and transporting thanks to its smaller dimensions. Installation on-site is quick and straightforward.

We offer our shoring systems not only for purchase but also for rental, ensuring maximum flexibility. Our product portfolio is complemented by a range of accessories and additional products, such as lightweight aluminum shoring, fall protection systems, and cable winches.

USE OF CO₂-REDUCED STEELS POSSIBLE

CO2-reduced cold-rolled coils can also be used for our trench shoring plates, following the same steel manufacturing process (using gray/green pre-material as in sheet piling).

Cold-rolled coils offer excellent surface quality and precision, which is advantageous for many applications, including trench shoring. The material is selected based on the specific requirements of each product - such as strength, flexibility, and corrosion protection.

In many cases, special or alloyed steels are also used for trench shoring systems, providing even greater durability and robustness.



RENTAL PROMOTES THE CIRCULAR ECONOMY

Sustainability is not an option – it is our responsibility!

terra infrastructure is among the world's best-known providers of trench shoring. We offer a wide range of trench shoring equipment and supplementary products. Our portfolio also includes temporary construction site roads made of steel or plastic. For the latter we additionally provide installation services

For many construction projects, it is more economical to hire the shoring system. Our extensive range of rental equipment means we can also provide our customers with a suitable system, even for large-scale projects.

However, rental means much more than just cost savings:

Through multiple reuse of our products, their lifecycle is significantly extended. This increases utilisation and reduces resource consumption - making a crucial contribution to environmental protection. Additionally, no extra CO₂ is emitted during the rental period. As a result, renting actively helps protect the environment and serves as a key component of the circular economy.

At the end of the lifecycle, only pure steel scrap remains, which can be 100% recycled and used for the production of new trench shoring elements.



OVERVIEW BOX SYSTEMS

Recommended shoring depth: max. 3.50 m



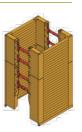
KRINGSKVL Rec. shoring depth: max. 3.50 m Rec.: mobile excavator 9 - 13 t



Rec. shoring depth: max. 3.50 m Rec.: mobile or crawler excavator Base box only: 12 - 18 t With top unit: 18 - 30 t



KRINGS KS 60 Rec. shoring depth: max. 3.50 m Rec.: mobile or crawler excavator Base box only: 12 - 18 t With top unit: 18 - 30 t



KRINGS KS 60 Eck Rec. shoring depth: max. 3.50 m Rec.: mobile or crawler excavator Base box only: 12 - 18 t With top unit: 18 - 30 t

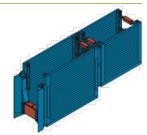
Recommended shoring depth: max. 6.00 m



Rec. shoring depth: max. 5.00 m Rec.: mobile or crawler excavator 18 - 30 t



Rec. shoring depth: max. 6.00 m Rec.: mobile or crawler excavator



Rec. shoring depth: max. 5.00 m Rec.: crawler excavator 30 - 50 t

Recommended shoring depth: max. 4.00 m



Rec. shoring depth: max. 5.00 m Rec.: mobile or crawler excavator Base box only: 12 - 18 t With top unit: 18 - 30 t



KRINGS KS 100 Rec.: shoring depth: max. 4.00 m Rec.: mobile or crawler excavator Base box only: 12 - 18 t With top unit: 18 - 30 t



KRINGS KS 100 Eck Rec. shoring depth: max. 4.00 m Rec.: mobile or crawler excavator



E+S Manhole Rec. shoring depth; max, 4,00 m Rec.: mobile or crawler excavator 18 - 30 t

Recommended shoring depth: variable



KRINGS BLU 2.41 m



Rec.shoring depth:max. 2.40 m Rec. shoring depth: variable Rec.: mobile excavator 9 - 13 t Rec.: mobile or crawler excavator 12 - 18 t



KRINGS DKU 2.27 m/3.00 m/3.81 m



KRINGS DKU 4.55 m/5.80 m Rec. shoring depth; variable Rec.: mobile or crawler excavator 18 - 30 t



E+S DKE 3.63 m/4.03 m Rec. shoring depth; variable Rec.: mobile or crawler excavator 12 - 18 t

Recommended installation depth: max. 3.00 m



KRINGS Flex-shoring Rec. shoring depth: max. 2.00 m Rec.: mini excavator 3 – 9 t



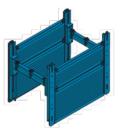
Alu-lightweight shoring Rec. shoring depth: max. 3.00 m Rec: mini excavator 3 - 9 t



KRINGS Corner shoring Rec. shoring depth: max. 2.35 m Rec.: mobile excavator 9 – 13 t

SLIDE-RAIL SYSTEMS E+S LINEAR SHORING

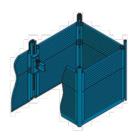
Recommended shoring depth: max. 4.00 m



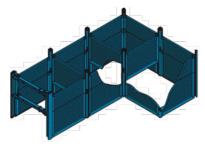
Single slide rail linear shoring Rec. shoring depth: 4.00 m Rec.: mobile or crawler excavator 18 - 30 t



Single slide rail inner-city linear shoring Rec. shoring depth: 4.00 m Rec.: mobile or crawler excavator 18 - 30 t



Single slide rail corner shoring Rec. shoring depth: 4.00 m Rec.: mobile or crawler excavator 18 - 30 t



Single slide rail linear shoring – X-rail Rec. shoring depth: 4.00 m Rec.: mobile or crawler excavator 18 - 30 t

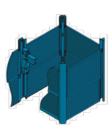
Recommended shoring depth: 5.00 m - 9.00 m



Double slide rail linear shoring Rec. shoring depth: 5.00 m - 9.00 m max. 6.0 m: 24 – 31 t, over 6.0 m: 30 – 50 t



Double slide rail inner-city linear shoring Rec. shoring depth: 5.00 m - 9.00 m max. 6.0 m: 24 – 31 t, over 6.0 m: 30 – 50 t



Double slide rail corner shoring Rec. installation depth 5.00 m - 6.00 m

Recommended shoring depth: max. 12.00 m



Deep linear shoring Rec. shoring depth: max. 12.00 m Rec.: crawler excavator 50 t

More shoring options



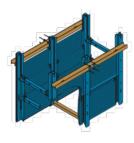
Head end shoring with head end shoring adapter and sheet piles Rec. installation depth: variable



Head end shoring with slide-rail panels Rec. installation depth: variable



Head end shoring with head end shoring strut cart and sheet piles



Outside waler attachment

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