



# PRODUCT OVERVIEW

# KRINNER GROUND SCREWS



The pioneer in sustainable foundations construction

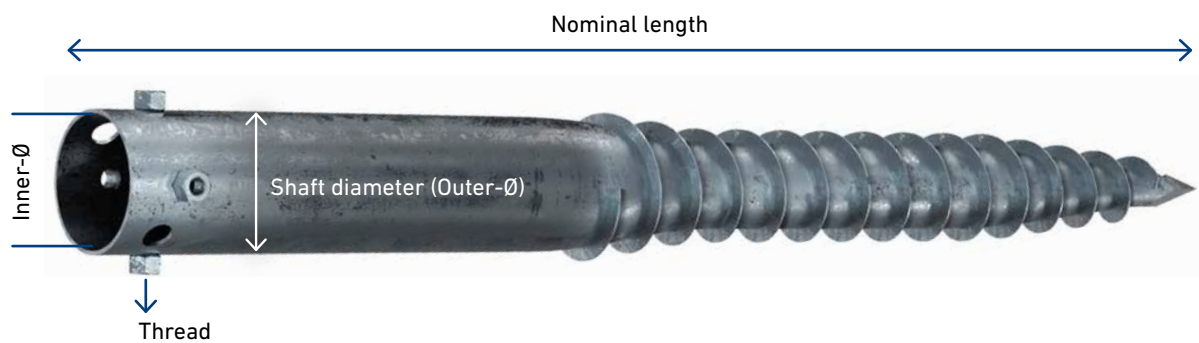
# PRODUCT PORTFOLIO

The perfect solution for every application

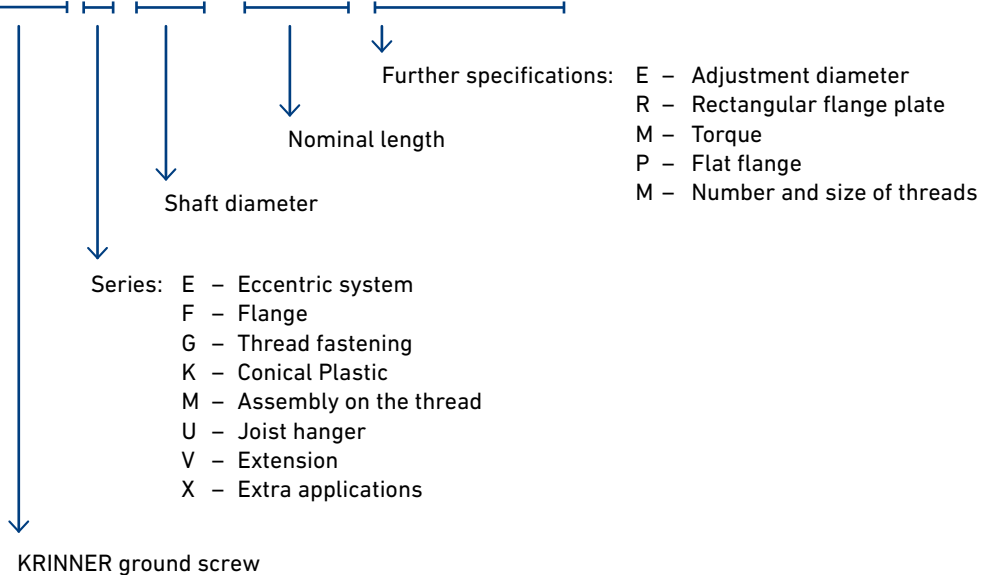
**Construction products:** Professional applications

**DIY products:** Home and hobby applications

## Designation key



e.g. **KSF G 114x1300-4xM16**



# DIY PRODUCTS

Suitable for private use

## G-SERIES

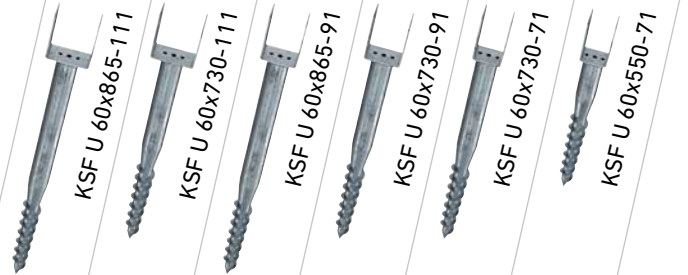
With thread fastening



Article number	21038	21037	21036
Outer-Ø (mm)	68	68	68
Length (mm)	650	650	550

## U-SERIES

Simple wooden beam mounting



21035	21033	21034	21032	21031	21030
60	60	60	60	60	60
865	730	865	730	730	550

# FURTHER PRODUCTS

For installing delineator posts and for building fences

## X-SERIES

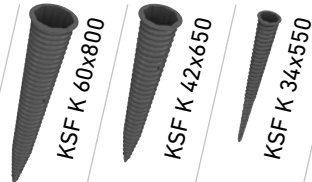
Delineator foundation



Article number	22044
Outer-Ø (mm)	108 x 127
Length (mm)	480
Inner-Ø (mm)	103 x 122

## K-SERIES

Made of plastic



22080	22065	22000
163	136	98
800	650	550

# CONSTRUCTION PRODUCTS

Depending on local building regulations

## E-SERIES

With horizontal leveling for exact alignment

CE



KSF E 140x1600-E76-100



KSF E 140x1300-E76-100



KSF E 89x1000-E60



KSF E 89x800-E60



KSF E 89x550-E60

Article number	26160	25502	24100	24080	24055
Outer-Ø (mm)	140	140	89	89	89
Inner-Ø (mm)	133	133	82	82	82
Length (mm)	1640	1310	1000	800	550
Thread	3xM12	3xM12	3xM8	3xM8	3xM8

## F-SERIES

With flange for flexible mounting

CE



KSF F 140x1600-P



KSF F 140x1300-P



KSF F 76x1600-R



KSF F 76x1300-R



KSF F 76x1000-R



KSF F 76x800-R

Article number	25484	25483	25478	25477	25476	25475
Outer-Ø (mm)	140	140	76	76	76	76
Inner-Ø (mm)	133	133	69	71	71	71
Length (mm)	1592	1262	1575	1275	1045	815

# CONSTRUCTION PRODUCTS

Depending on local building regulations

## G-SERIES

With thread fastening

CE



Article number	24209	24208	24207	24206	24205	24201
Outer-Ø (mm)	114	114	89	89	89	76
Inner-Ø (mm)	107	107	84	84	84	71
Length (mm)	1300	990	1280	1080	830	810
Thread	4xM16	4xM16	4xM12	4xM12	4xM12	4xM12

## M-SERIES

With central inner thread

CE



Article number	24223	24222	24219	24218	24217	24215	24214	24213	24212	24211	24210
Outer-Ø (mm)	114	114	89	89	89	76	76	76	76	76	76
Inner-Ø (mm)	107	107	82	82	82	69	69	69	71	71	71
Length (mm)	2075	1575	2080	1580	1280	2078	1578	1278	1275	1045	815
Thread	M24	M24	M24	M24	M24	M16	M16	M16	M12	M12	M12

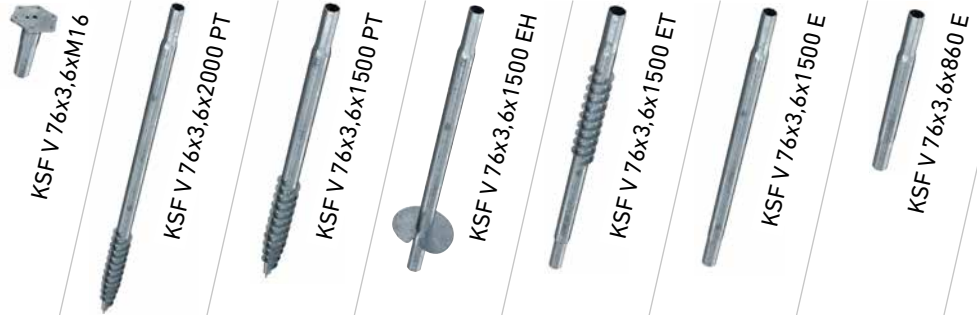
# CONSTRUCTION PRODUCTS

Depending on local building regulations

## V76

High load capacity

CE

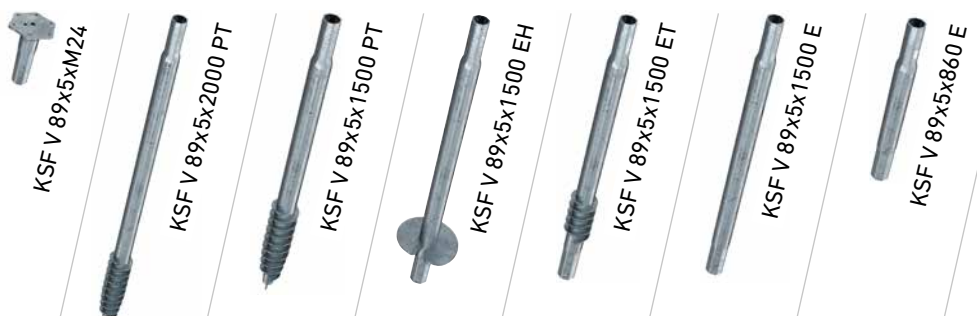


Article number	25672	25656	25655	25658	25657	25659	25660
Outer-Ø (mm)	76	76	76	76	76	76	76
Inner-Ø (mm)	69	69	69	69	69	69	69
Length (mm)	300	2000	1500	1500	1500	1500	860
Thread	M16	-	-	-	-	-	-

## V89

High Load capacity / with static calculations for the internal load-bearing capacity and corrosion report

CE



Article number	25673	25631	25630	25632	25633	25634	25635
Outer-Ø (mm)	89	89	89	89	89	89	89
Inner-Ø (mm)	79	79	79	79	79	79	79
Length (mm)	300	2000	1500	1500	1500	1500	860
Thread	M24	-	-	-	-	-	-



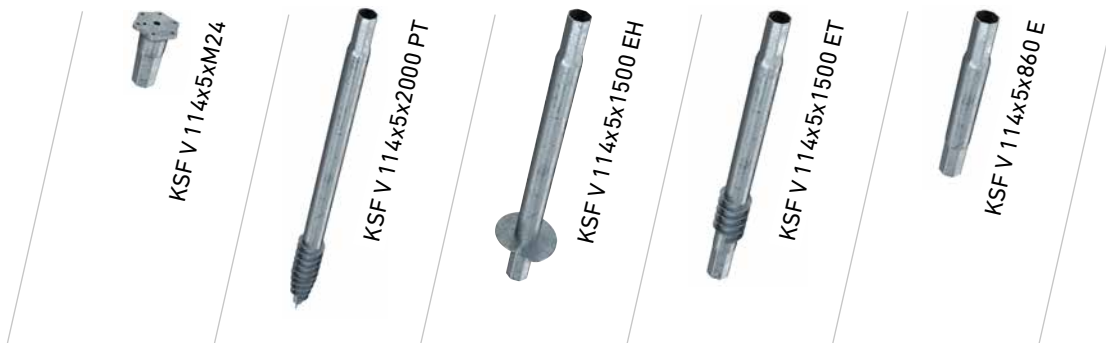
# CONSTRUCTION PRODUCTS

Depending on local building regulations

## V114

High Load capacity / with static calculations for the internal load-bearing capacity and corrosion report

CE

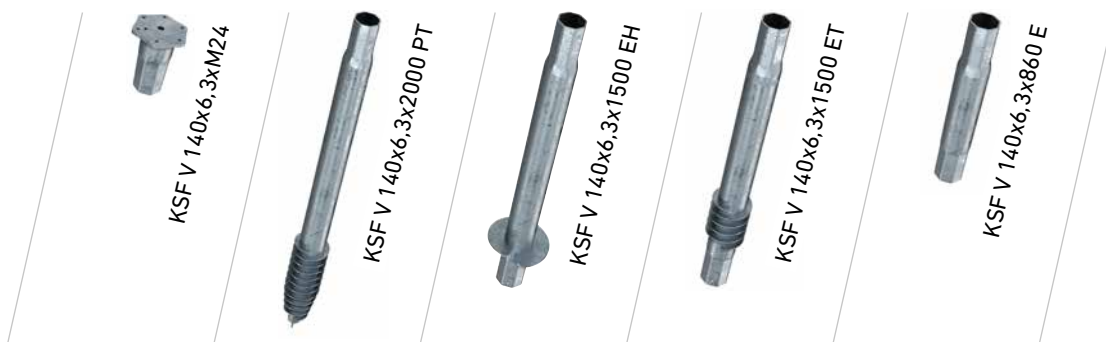


Article number	25674	25611	25612	25613	25614
Outer-Ø (mm)	114	114	114	114	114
Inner-Ø (mm)	104	104	104	104	104
Length (mm)	300	2000	1500	1500	860
Thread	M24	-	-	-	-

## V140

High Load capacity / with static calculations for the internal load-bearing capacity and corrosion report

CE



Article number	25675	25643	25645	25644	25646
Outer-Ø (mm)	140	140	140	140	140
Inner-Ø (mm)	127	127	127	127	127
Length (mm)	300	2000	1500	1500	860
Thread	M24	-	-	-	-

# DATA MANAGEMENT

## Data recording made easy

Thanks to in-house data management, KRINNER as a system provider makes it possible to follow the data recording in real time and thus offers the possibility of valuable project information (torque, distance measurement, embedment depth, etc.) to be communicated to partners and customers.

### SMART CAP

Data recording tool

**For manual KRINNER ground screw drivers KRE 20 & KRE 25**

- Torque recording
- Integrated GPS
- Control via KRINNER app
- Data transfer in real time with automatic report generation



### DOKU KIT

Data recording tool

**For all hydraulic KRINNER ground screw drivers**

- Torque recording including displacement sensor
- Integrated GPS
- Control via KRINNER app
- Data transfer in real time with automatic report generation





# GROUND SCREW DRIVERS

## Additional equipment

KRINNER is a system provider for sustainable foundation construction, and therefore offers the right test and ground screw driver equipment for its ground screws engineered by KRINNER.



# MANUAL GROUND SCREW DRIVER

## KRE 17

Manual ground screw driver

### The affordable entry level model

- 230 Volt
- Approx. 3,000 Nm torque
- Compatible with all KRINNER ground screw attachments



## KRE 20

Manual ground screw driver

### The classic among the manual screw drivers

- 230 Volt
- Approx. 3,500 Nm torque
- Compatible with all KRINNER ground screw attachments
- + Smart Cap



## KRE 25

Manual ground screw driver

### The KRINNER power machine

- 230 Volt
- Approx. 8,000 Nm torque
- Compatible with all KRINNER ground screw attachments
- + Smart Cap

# CATERPILLAR

## KRD 30

Self-driving caterpillar

### Lightweight with high capacity

- Approx. 8,000 Nm torque
- 2.4 m drill lift
- Only about 1m broad and 1.1 t transport weight
- Precisely-defined feed force



# ATTACHMENTS

## KRB 250

Hydraulic excavator attachment

### The power solution

- Approx. 20,000 Nm torque
- Hydraulic ground screw driver attachment
- Automatic alignment in the X-axis

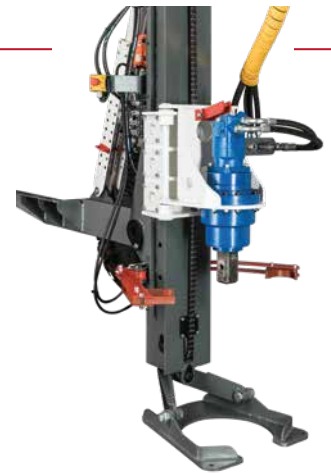


## KRL

Hydraulic excavator attachment (drill attachment)

### Combining precision and strength

- Approx. 15,000 Nm torque option /  
Approx. 20,000 Nm torque option
- Quick change device
- For projects with larger foundations  
(diameter up to 140 mm; wall thickness up to 6.3 mm)



## KR P SYSTEM

Hydraulic excavator attachment

### The starter model for larger projects

- Equipped with a 15,000 Nm or 25,000 Nm Auger torque drive
- Equipment for horizontal attaching of KRINNER ground screws
- Use with KRINNER data recording management





# SUITABLE TEST EQUIPMENT

## Testing according to standards

KRINNER as a system provider of ground screws offers its own range of devices for performing tensile, compression and horizontal tests. There is a suitable test equipment for every requirement.

**DIN**



## TP 50

Tripod

### Tripod for tensile tests

- Maximum tensile force 50 kN
- Light weight of 24 kg
- Easy to transport
- Compatible with common crane scales



## TP 100

Tripod

### Tripod for tensile tests

- Maximum tensile force 100 kN
- Hydraulic tensile cylinder
- Delivery in transport boxes
- Compatible with common crane scales



## TT 100

Test traverse

### Test traverse for tensile, pressure and horizontal tests

- Suitable for static pressure, tension and horizontal tests
- Maximum tensile / compressive force 100 kN
- Compatible with all force transducers
- Distance between tested ground screw and counter bearings according to standards 1.5 m

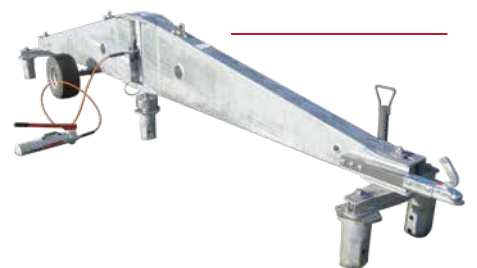


## TT 200

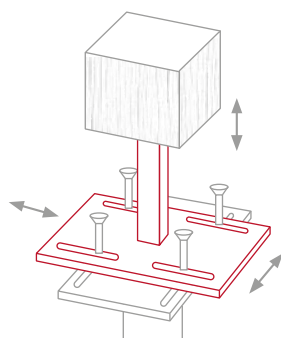
Test traverse

### Test traverse for tensile, pressure and horizontal tests

- Suitable for static pressure, tension and horizontal tests
- Maximum tensile / compressive force 200 kN
- Compatible with all force transducers
- Distance between tested ground screw and counter bearings according to standards 2.5 m

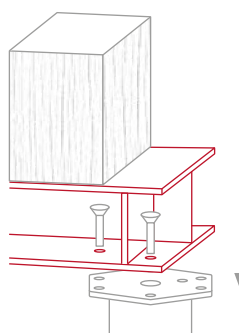


# FASTENING OPTIONS



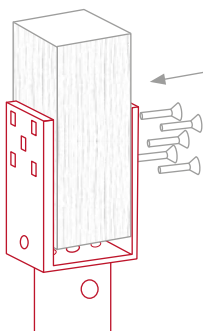
## POST ANCHORS

Precise connection thanks to variable axes and height adjustment



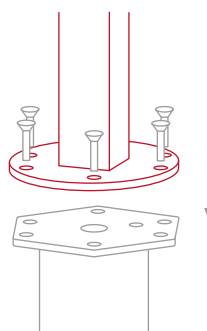
## WOODEN BEAM SUPPORT

Modular when used with flange plates and matched to the given loads in each case



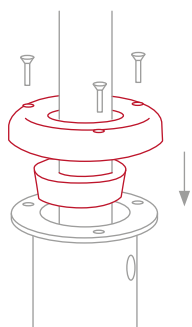
## U-SHAPED BRACKET

Simple attachment with axial and height adjustment for horizontal beams or vertical posts



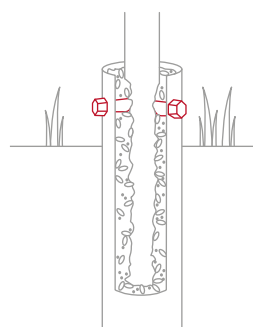
## FLANGE PLATES

Modular when used with flange plates, matched to the given loads in each case



## INNOVATIVE ECCENTER

Patented system for fine adjustment and vertical alignment for a resonance-free assembly



## THREADED SCREWS

Three or four threaded screws for a fast and simple assembly



# ACCESSORIES



## ECCENTER SET

Eccenter set for various tube diameters; contains: clamp ring (screw ring for permanent fastening), eccentric, hexagonal screws (for fastening the clamp ring)

E-SERIES



## ECCENTER

Eccentric for E-series ground screws (E 60) for aligning and fastening

E-SERIES



## LEVEL

Spirit level to set the eccentric E 60

E-SERIES



## CLAMP RING

Clamp ring for E-series ground screws (E 60)

E-SERIES



## CLAMP SCREW

Clamp screw for ground screws

E-SERIES



## POST ANCHORS

F-SERIES



## PIVOT MANDREL

Triangle spirit level to exactly align tubes/posts in ground screws

UNIVERSAL



## COVER

Inner cover for the ground screws G 68x550-1xM8 and G 68x650-1xM8 including allen screw

G-SERIES



## PIVOT COVER

Pivot cover for cross struts in wire mesh fences for use with KSF G 68x550-1xM8 and KSF G 68x650-1xM8

G-SERIES



## REDUCTION SLEEVE SET

5-part reduction sleeve set for ground screws KSF G 68x550-1xM8, KSF G 68x650-1xM8; reduction to 55.5 mm/ 50.0 mm/ 43.0 mm/ 38.5 mm/ 34.0 mm

G-SERIES



## CONNECTION SCREWS

4-part connection screw set

V-SERIES



## COVER SLEEVE

Cover sleeve for delineators and street signs

UNIVERSAL  
X-SERIES



## SPECIAL GRANULATE

Special granulate for fast and permanent tube fastening

UNIVERSAL  
G-SERIES  
K-SERIES



## COVER

Cover for ground screws when not being used

E-SERIES  
F-SERIES  
G-SERIES



## SCREWING BAR

Screwing aid for manual screwing of ground screws

UNIVERSAL  
G-SERIES  
U-SERIES



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