

# LIGHT WEIGHT DEFLECTOMETER

## Product range



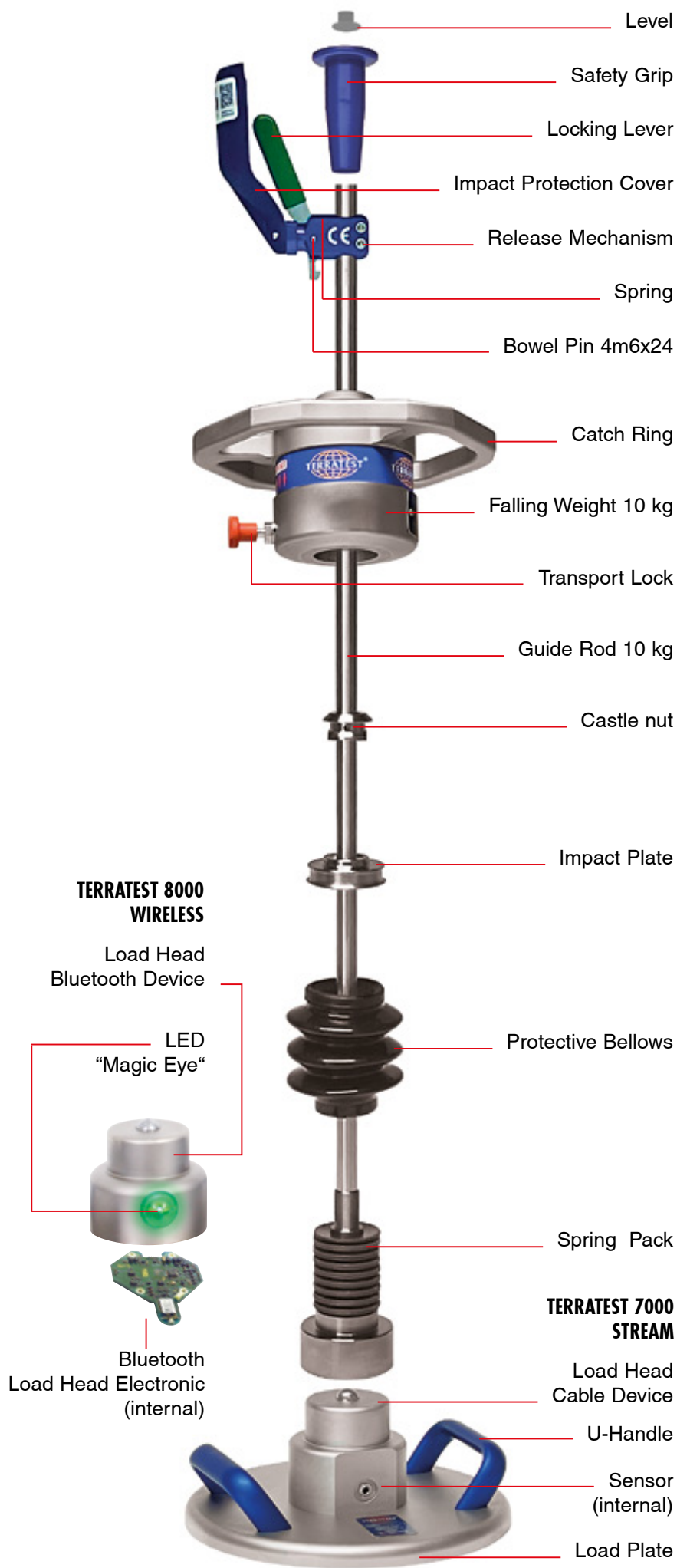







>25 >40 >40 >50 >65



# International Standards

## TERRATEST® equipment approved all over the world



### **ASTM E2835-11**

American Standard Test Method for Measuring Deflections using a Portable Impulse Plate Load Test Device



### **TP BF-StB part B 8.3 edition 2012**

German regulation: Engineering Code for Soil and Rock in Road Construction



### **RIL 836, Deutsche Bahn AG (German railway)**

Guideline for the use of the measuring equipment in railway construction



### **RVS 08.04.04 (March 2008)**

Austrian regulation – Compaction test by means of dynamic plate load test



### **VSS 70 313 (July 2019)**

Swiss regulation – Compaction test by means of dynamic plate load test



### **SB 250 versie 4.1, 4.16.2 (April 2019)**

Belgian regulation – Compaction test by means of dynamic plate load test



### **UNE 103807-2:2021**

Spanish regulation – Plate Load Test by means of the measuring equipment – part 2



### **TB 10001-2016**

Chinese regulation – Design Guidelines Railroad Substructure



### **ČSN 736192 – 1996**

Czech regulation – Design Guidelines Railroad Substructure



### **Test Method Q258A 2021**

Australian regulation – Dynamic modulus of deformation – light falling weight device – accelerometer type

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**MADE IN  
GERMANY**



**THE ONLY ONE  
WITH TÜV CERTIFICATE!**





# The "Every Day One" Testing normal compaction

## TERRATEST 7000 STREAM (Cable)

**2,990 €**

HS Code 9024 8019

According to the german test certification TP BF-StB Part B 8.3

According to american society for testing materials (ASTM) E2835-11

Recognized compaction control in accordance with ZTV E 2009 and ZTV A 2012

2-year manufacturer's warranty

Free smartphone app for iOS and Android

Light Weight Deflectometer 10 kg for compaction tests up to  $E_{v2} = 120 \text{ MN/m}^2$

Suitable for 90% of all requirements in earthworks, civil engineering and road construction

Measuring computer in weatherproof "ROBUSTA" electronics box with voice guidance

**Full equipment:** Wi-Fi, voice output, printer, GPS, power battery, USB-C, PC software

World's best-selling Light Weight Deflectometer – exported to over 100 countries

**Buy directly from the manufacturer – no dealer or sales commission added!**



**WEATHERPROOF. IMPACT-RESISTANT.  
JUST ONE BUTTON.**

**THE TERRATEST ELECTRONICS BOX.**

**Operate smart – even in tough conditions.**

Operate the weatherproof and impact-resistant TERRATEST® electronics box directly on site using the external push button.

Your measuring computer and integrated printer remain perfectly protected against rain, dust and sand – for reliable testing results in any environment.



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GERMANY**



**THE ONLY ONE  
WITH TÜV CERTIFICATE!**



Our General Terms and Conditions apply. You can find them at [light-weight-deflectometer.com/general-terms-conditions/](http://light-weight-deflectometer.com/general-terms-conditions/)  
All prices are net, ex works, price list 10/2025. With the release of a new price list, all previous versions become invalid.



voice guidance



# The "Every Day One" Testing normal compaction

## TERRATEST 8000 WIRELESS

**3,888 €**

HS Code 9024 8019

According to the german test certification TP BF-StB Part B 8.3  
According to american society for testing materials (ASTM) E2835-11



Recognized compaction control in accordance with ZTV E 2009 and ZTV A 2012  
2-year manufacturer's warranty  
Free smartphone app for iOS and Android

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# The "Every Day One"

## Testing normal compaction

### TERRATEST 8000 WIRELESS

**WITHOUT** ROBUSTA MEASURING ELECTRONIC,  
FOR SMARTPHONE OPERATION **ONLY** (iOS® + ANDROID®)



**3,499 €**

*HS Code 9024 8019*

You need just **two components** for testing: the **load plate** and the **drop weight**

Without the ROBUSTA measuring unit,  
you control the device directly via your smartphone using the TERRATEST® App

Send digital PDF test reports by e-mail — no printouts required

World's best-selling Light Weight Deflectometer — exported to over 100 countries

**Buy directly from the manufacturer — no dealer or sales commission added!**



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# The "Every Day One"

## Testing normal compaction

### ALL-INCLUSIVE-SET

## TERRATEST 7000 STREAM (Cable)

**3,490 €**

*HS Code 9024 8019*

According to the german test certification TP BF-StB Part B 8.3  
According to american society for testing materials (ASTM) E2835-11

Inclusive:

Light Weight Deflectometer TERRATEST 7000 STREAM (cable version)

"MILANO" transport box with wheels

"TRETMINNE" support stand for the drop weight and guide rod

5 paper rolls for the mini printer

World's best-selling Light Weight Deflectometer – exported to over 100 countries

**Buy directly from the manufacturer – no dealer or sales commission added!**

## OFF-ROAD WHEELS FOR TRANSPORT BOX

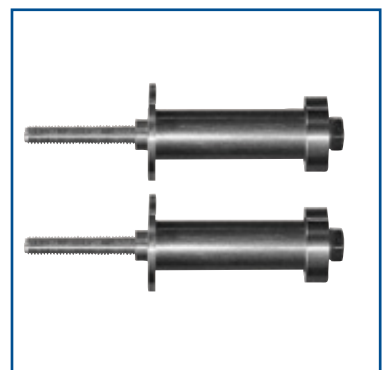
**125 €**

*HS Code 9024 9000*

Drive the transport box across the construction site directly to the test point!

Tubeless solid rubber tires, 260 mm diameter

Compatible with all TERRATEST® transport boxes







voice guidance

# The "Every Day One"

## Testing normal compaction

### ALL-INCLUSIVE-SET

### TERRATEST 8000 WIRELESS

According to the german test certification TP BF-StB Part B 8.3  
According to american society for testing materials (ASTM) E2835-11



**4,299 €**

HS Code 9024 8019

Inclusive:

Light Weight Deflectometer TERRATEST 8000 WIRELESS (BLUETOOTH®)

"MILANO" transport box with wheels

"TRETMINNE" support stand for the drop weight and guide rod

5 paper rolls for the mini printer

World's best-selling Light Weight Deflectometer — exported to over 100 countries

Buy directly from the manufacturer — no dealer or sales commission added!

## OFF-ROAD WHEELS FOR TRANSPORT BOX

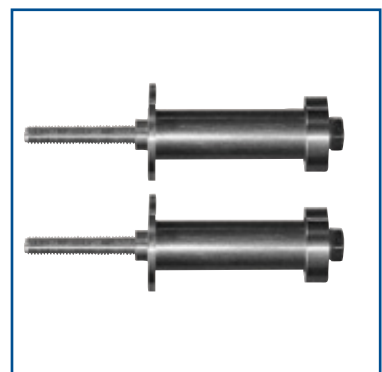
Drive the transport box across the construction site directly to the test point!

**125 €**

HS Code 9024 9000

Tubeless solid rubber tires, 260 mm diameter

Compatible with all TERRATEST® transport boxes



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All prices are net, ex works, price list 10/2025. With the release of a new price list, all previous versions become invalid.



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# The "Every Day One" Testing normal compaction

## ALL-INCLUSIVE-SET TERRATEST 8000 WIRELESS

**WITHOUT** ROBUSTA MEASURING ELECTRONIC,  
FOR SMARTPHONE OPERATION **ONLY** (iOS® + ANDROID®)



**3,666 €**

HS Code 9024 8019

Inclusive:

Light Weight Deflectometer TERRATEST 8000 WIRELESS (BLUETOOTH®)  
**without** ROBUSTA measuring electronics

"MILANO" transport box with wheels

"TRETMINÉ" support stand for the drop weight and guide rod

5 paper rolls for the mini printer

World's best-selling Light Weight Deflectometer – exported to over 100 countries

**Buy directly from the manufacturer – no dealer or sales commission added!**

## OFF-ROAD WHEELS FOR TRANSPORT BOX

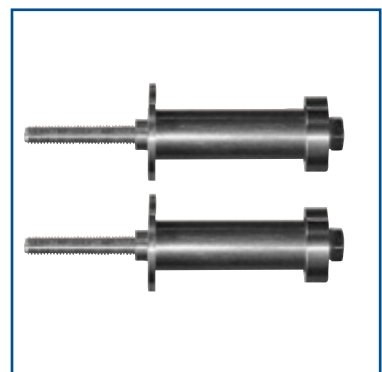
Drive the transport box across the construction site directly to the test point!

**125 €**

HS Code 9024 9000

Tubeless solid rubber tires, 260 mm diameter

Compatible with all TERRATEST® transport boxes



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## The "Slim One" Testing small trenches

### For narrow fiber-optic trenches

#### TERRATEST 7000 TRENCH® (Cable)

**3,333 €**

According to TERRATEST® factory standard, based on German testing specification TP BF-StB Part B 8.3 *HS Code 9024 8019*

5 kg drop weight with half impact force (3,535 N)

Load plate only 100 mm wide — ideal for use in narrow trenches during fiber-optic installation

"ROBUSTA" measuring electronics, Wi-Fi, voice assistant, printer, GPS, power battery,  
and PC software included

### ALL-INCLUSIVE-SET

#### TERRATEST 7000 TRENCH® (Cable)

**3,666 €**

According to TERRATEST® factory standard, based on German testing specification TP BF-StB Part B 8.3 *HS Code 9024 8019*

Inclusive:

Light Weight Deflectometer TERRATEST 4000 TRENCH® (cable version)

"VERONA" transport box with wheels

"TRETMINNE" support stand for the drop weight and guide rod

5 paper rolls for the mini printer

### Additional kit (without measuring electronic)

#### TERRATEST 7000 TRENCH® (Cable)

**2,499 €**

According to TERRATEST® factory standard, based on German testing specification TP BF-StB Part B 8.3 *HS Code 9024 8019*

5 kg drop weight with half impact force (3,535 N)

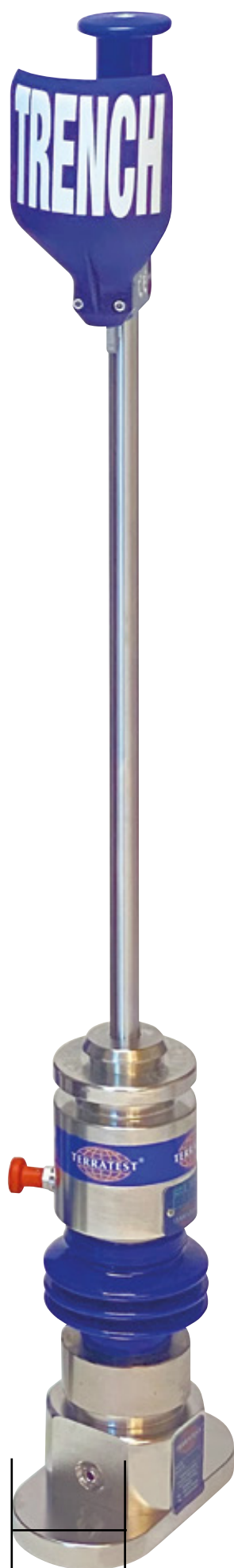
Load plate only 100 mm wide — ideal for use in narrow trenches during fiber-optic installation

**Without** measuring electronic — calibration and firmware update  
performed on the customer's measuring electronics





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100 mm



## The "XL One"

Testing higher compaction

**For highly compacted soil and base layers**

**Medium-sized Drop Weight  
with double impact force**

**"MFG 2.0 Medium Heavy"**

According to German testing standard TP Gestein-StB Part 8.2.1

**1,480 €**

*HS Code 9024 8019*

Medium-heavy falling weight (15 kg) for compaction tests  
on highly compacted soil and base layers with  $E_{v2} \geq 150 \text{ MN/m}^2$

Double impact force of 14,140 N thanks to reinforced spring assembly

World's best-selling Light Weight Deflectometer — exported to over 100 countries

**Buy directly from the manufacturer — no dealer or sales commission added!**





# The "XL One" and "Every Day One" Testing higher compaction

## ALL-INCLUSIVE-SET

### Light Weight + Medium Weight TERRATEST 7000 STREAM (Cable)

**4,999 €**

*HS Code 9024 8019*

According to German testing standards TP BF-StB Part B 8.3 and TP Gestein-StB Part 8.2.1  
According to american society for testing materials (ASTM) E2835-11

Including:

Light Weight Deflectometer TERRATEST 7000 STREAM (cable version)

Medium-heavy loading device with double impact force

Transport box "ROMA" with wheels for LWD and MFG

Support stand "TRETMINNE" for rod and falling weight

5 paper rolls for mini printer

World's best-selling Light Weight Deflectometer — exported to over 100 countries

**Buy directly from the manufacturer — no dealer or sales commission added!**

## OFF-ROAD WHEELS FOR TRANSPORT BOX

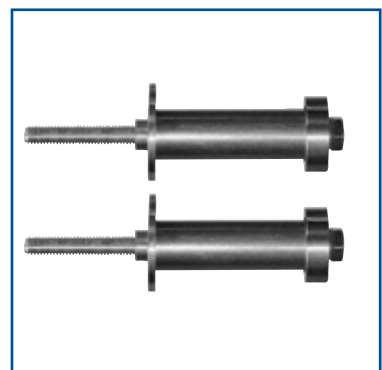
**125 €**

*HS Code 9024 9000*

Drive the transport box across the construction site directly to the test point!

Tubeless solid rubber tires, 260 mm diameter

Compatible with all TERRATEST® transport boxes





voice guidance



# The "XL One" and "Every Day One" Testing higher compaction

## ALL-INCLUSIVE-SET

## Light Weight + Medium Weight TERRATEST 8000 WIRELESS

According to German testing standards TP BF-StB Part B 8.3 and TP Gestein-StB Part 8.2.1  
According to american society for testing materials (ASTM) E2835-11



Including:

Light Weight Deflectometer TERRATEST 8000 WIRELESS (BLUETOOTH®)

Medium-heavy loading device with double impact force

Transport box "ROMA" with wheels for LWD and MFG

Support stand "TRETMINNE" for rod and falling weight

5 paper rolls for mini printer

World's best-selling Light Weight Deflectometer — exported to over 100 countries

**Buy directly from the manufacturer — no dealer or sales commission added!**

## OFF-ROAD WHEELS FOR TRANSPORT BOX

Drive the transport box across the construction site directly to the test point!

Tubeless solid rubber tires, 260 mm diameter

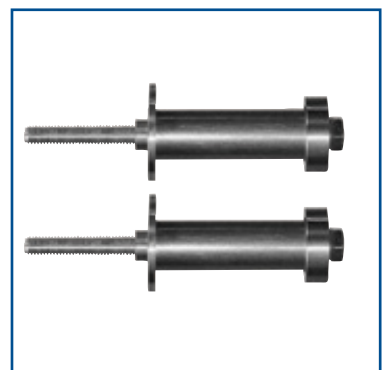
Compatible with all TERRATEST® transport boxes

# 5,888 €

HS Code 9024 8019

# 125 €

HS Code 9024 9000





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# Mobile Testing System “CARRELLO”

**880 €**

Easily move the 35 kg device across the construction site

(price without Falling Weight Deflectometer)

Drive the transport box across the construction site directly to the test point!

HS Code 9024 9000

Handcrafted vehicle construction – not a converted hardware-store trolley

CNC-manufactured stainless-steel components

LWD remains permanently ready for testing on site

Comfortable operation at hip height

No need to lift or carry the LWD anymore

Foldable design for easy transport in a car

Tubeless, puncture-proof solid rubber tires





# Technical details

## Light Weight Deflectometer

according ASTM E2835-11

### Electronic measuring computer "ROBUSTA"

Dimensions "ROBUSTA"-Box (L x W x H)

Weight "ROBUSTA"-Box, incl. measuring computer

Deflection range 0.1 to 2.0 mm  $\pm$  0.02 mm

Measuring range  $E_{vd} < 225$  MPa

Temperature range 0 to 40 °C

Extremely suitable for construction sites, protection class IP43 against dust and water, shock resistant, TÜV certified

Measuring cable using "Klinke"-Connection

Graphic display monochrome, illuminated

High performance 32bit-processor

GPS-system, precision  $< 10$  m

USB-device for data storage

Thermal printer

Bluetooth® System, Bluetooth® Low Energy 4.1, range 10 m

WiFi for web application, 2,4 GHz, IEEE 802.11 b/g/n-compliant

Voice-Command, spoken menu navigation, 10 languages available

Capacity of internal memory

power battery, 6,9 Volt, rechargeable, Capacity: 2000 Tests or 600 printouts, lifetime 5 years/20°C

### Electronic measuring computer Load plate Bluetooth (only 8000 WIRELESS)

Deflection range 0.1 to 2.0 mm  $\pm$  0.02 mm

Measuring range  $< 225$  MPa

Temperature range 0 bis 40 °C

Extremely suitable for construction sites, protection class IP43 against dust and water, shock resistant, TÜV certified

High performance 32bit-processor

Bluetooth® System, Bluetooth® Low Energy 4.1, range 10 m

Lithium-Ionen-battery, 9 V, rechargeable, Capacity 5000 Tests, Lifetime 6-8 years/20°C

### LWD load mechanism, 10 kg falling weight

Steel ST52, chemically nick plated

Total weight 15 kg  $\pm$  150 g

Mass of falling weights 10 kg  $\pm$  100 g

maximum impactforce 7,07 kN  $\pm$  70 N

Time of impact 17.0 ms  $\pm$  1.5 ms

Spring element 17 disk springs

### Load plate

Steel ST52, chemically nick plated

Diameter 300 mm  $\pm$  0.5 mm

Plate thickness 20 mm  $\pm$  0.2 mm

Plate weight 15 kg  $\pm$  250 g

Acceleration meter

2 grips, Aluminium

Load head with Bluetooth® System



## TERRATEST 7000 STREAM (CABLE)

230 x 220 x 170 mm

4 kg

230 x 220 x 170 mm

4 kg

40 x 72 mm

40 x 72 mm

2000

2000





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