



# TRUCORE™ UPIX

Core Orientation System by Boart Longyear

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## TRUCORE™ UPIX

TruCore™ UPIX is an easy-to-use, highly accurate core orientation system featuring step-by-step workflow guidance, wireless communication, and a field-replaceable battery. The patented TruCore UPIX orientation system fits hole sizes ranging from N to P with interchangeable adapters and barrel systems that are easily swapped whenever a change in hole size is required.

### 5 REASONS TO TAKE CONTROL WITH TRUCORE UPIX

1. TruCore UPIX provides accurate orientation and dip data that geologists, drillers, and engineers rely on.
2. Core orientation is easier with TruCore UPIX. There is no need to disassemble the core barrel to obtain an orientation mark.
3. Full-length extended outer tubes eliminate the need for extensions, reducing the number of joints in the drill string for improved reliability.
4. Improve driller health and safety with reduced manual handling time and a better ergonomic position when reading core orientations.
5. Make faster decisions on the direction of your hole with more frequent dip measurements.

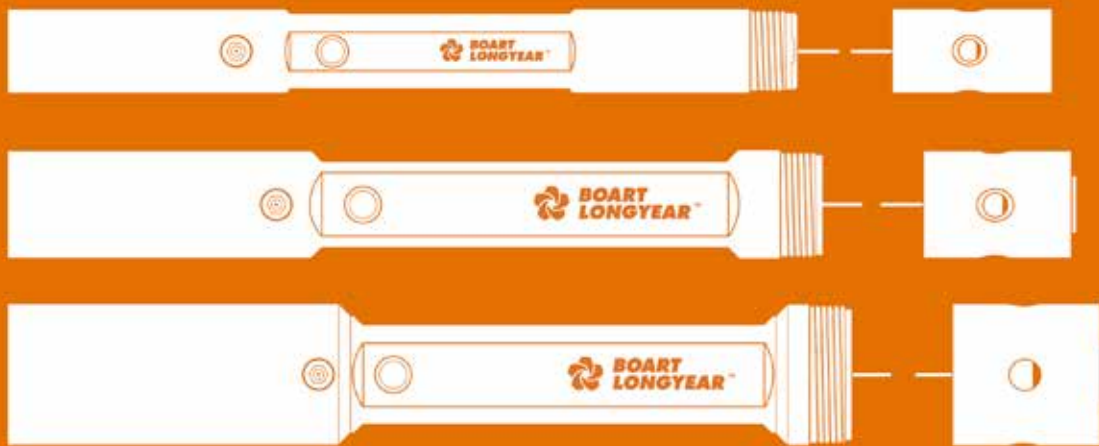
### TAKE CORE. TAKE CONTROL.

Boart Longyear has a living legacy of delivering innovation in drilling technology. As a tool in Boart Longyear's new line of instrumentation, TruCore UPIX is supported by a hands-on team of experts with professional backgrounds in drilling, geology, and engineering.

# TRUCORE™ UPIX BARREL OPTIONS

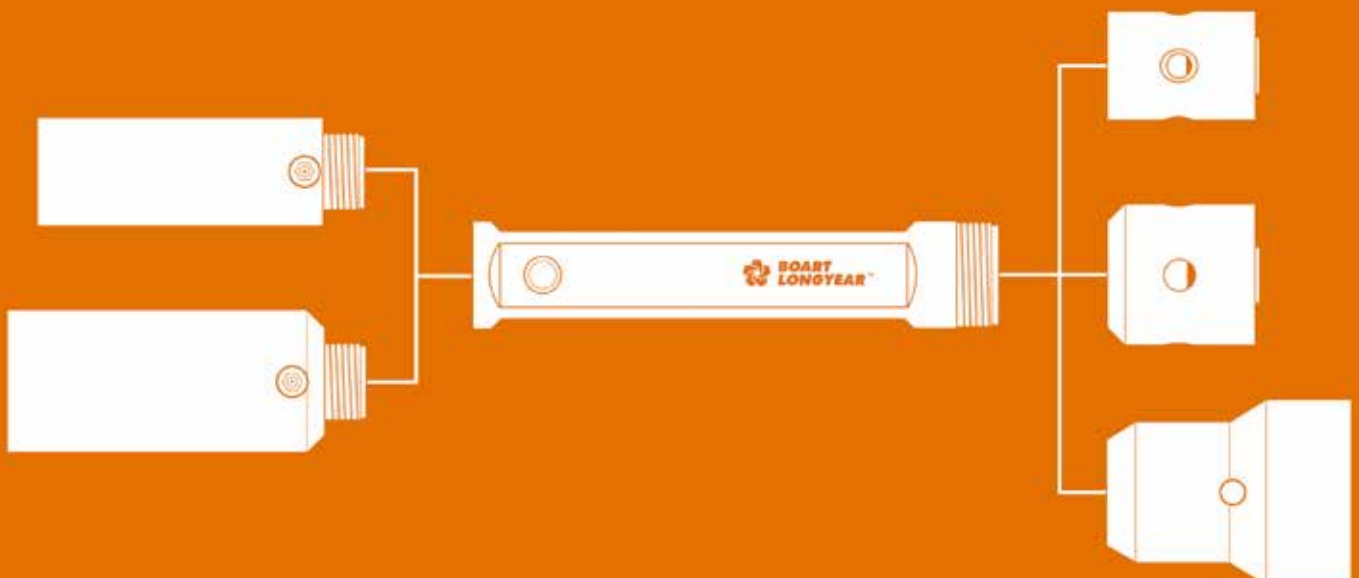
## STANDARD

The standard barrel option is available in dedicated diameters corresponding to B, N, and H size hole applications. These barrel options combine to cover the complete range of hole sizes from B to P with size-specific inner tube adapters and check valve systems.



## ONE

The ONE option is available in a single N size barrel configuration but can cover the complete range of hole sizes from N to P with field-replaceable grease caps, inner tube adapters, and check valve systems.



# TRUCORE™ UPIX AUDIT DATA

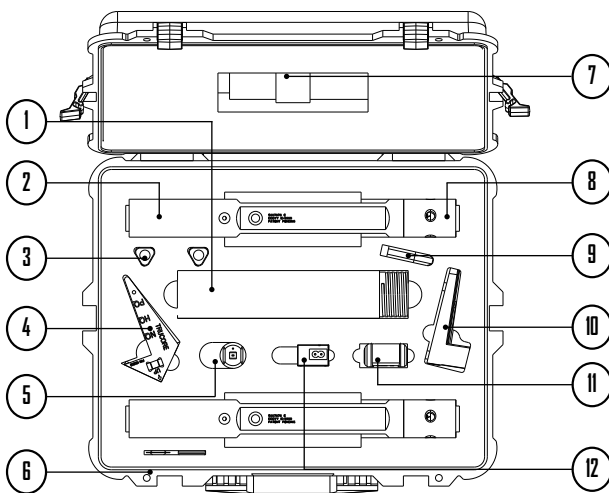
## AUDIT DATA OPTION

TruCore UPIX is now available with optional audit data export functionality to provide a complete digital record of every orientation.

Audit data-enabled handhelds are fully backwards compatible with all TruCore UPIX tools. The audit data functionality is unlocked through the charging docks featuring a USB port. Once downloaded, the data can be accessed using Microsoft Excel.



## KIT CONTENTS



ID	Description
1*	Extension Barrel
2*	2 x TruCore™ UPIX Tools
3	2 x Spare Batteries
4	Level Finder
5	Car Charger
6	O-ring Replacement Kit
7	User Guide and Certificate of Conformance
8*	2 x Inner Tube Adapters with Check Valve Installed
9	Allen Key
10	Handheld Charging Dock
11	TruCore™ UPIX Handheld Unit
12	Power Pack with Electrical Cord

\*ONE kit configurations may include multiple sizes within the kit or shipped separately to cover the sizes requested.

## TRUCORE UPIX IS OFFERED IN SIZES B THROUGH TO P

For information on how to rent TruCore UPIX, visit [www.boartlongyear.com/trucore](http://www.boartlongyear.com/trucore) or email the team at [instrumentation@boartlongyear.com](mailto:instrumentation@boartlongyear.com).

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# SPECIFICATIONS


CORE SIZES	
BQ™, BQTK, NQ, NQ2, NQ3, NTW, HQ, HQ3, HTW, PQ, PQ3, LTK60	
DIMENSIONS	
Kit	
Length x width x height	546 x 420 x 203 mm
Handheld	
Length x width x height	110 x 63 x 31mm
AUDIT DATA TABLE	
Orientation Data	
Format for Successful Orientation Event	
Date	
Time	
Hole ID	
Pass Counter	
Depth	
Event (Successful Orientation)	
Dip	
Temperature	
GTF	
Events Logged	
Start Survey	
Mark Survey	
Successful Orientation	
Pass counter reset	
Data Downloaded	
ACCURACY	
Range	0 to ± 85° dip
Accuracy	±5° RMS
Dip	±2.5°
TEMPERATURE RATING	
Downhole instrument	Operating -30°C to +80°C
Handheld	Operating -20°C to +50°C
DEPTH RATING	
Maximum depth	4216m
Housing pressure	41.4 MPa (6000psi)
BATTERY	
Downhole instrument	User replaceable, non-rechargeable lithium
Storage	Up to 10 years
Normal use	3 months
Handheld	Rechargeable lithium ion
Normal use	1 week per full charge

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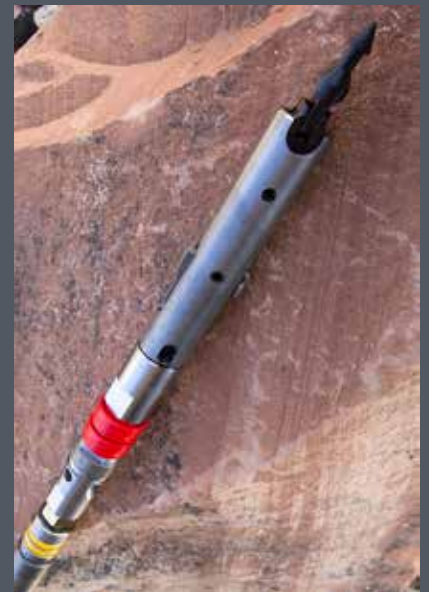
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**TRUSHOT™**  
Digital Survey Tool



**TRUSCAN™**  
Innovative core scanning technology



**Link Latch™ Quick Pump-In™**  
Underground Head Assembly

# INTRODUCING TRUCORE™ NEW CORE ORIENTATION SYSTEM BY BOART LONGYEAR™



## TOP 5 REASONS TO TAKE CONTROL WITH TRUCORE™

- 1 TruCore provides the accurate data and results that your mining clients count on.
- 2 Core orientation is easier with TruCore. There is no need to disassemble the tool to obtain an orientation mark.
- 3 Increase drill string reliability. Drill with confidence using high quality steel extension barrels supplied with every tool rental.
- 4 Improve driller health and safety with reduced manual handling time and a better ergonomic position when reading core orientation.
- 5 It's easy to switch and start using TruCore today.

## TAKE CORE. TAKE CONTROL.

Boart Longyear has a living legacy of delivering innovation in drilling technology. The first tool in Boart Longyear's new line of instrumentation, TruCore is supported by a hands-on team of experts with professional backgrounds in drilling, geology and engineering.

**TRUCORE IS OFFERED IN SIZES  
BQ™ THROUGH TO PQ™**

**RENT ME**

For information on how to rent TruCore™, visit [www.BoartLongyear.com/TruCore](http://www.BoartLongyear.com/TruCore) or email the team at [instrumentation@boartlongyear.com](mailto:instrumentation@boartlongyear.com).



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# SPECIFICATIONS

CORE SIZES	
BQ, BQTK, NQ, NQ2, NQ3, HQ, HQ3, PQ, PQ3, LTK60	
DIMENSIONS	
Kit	
Length x width x height	546 x 420 x 203 mm
Approximate weight	B: 10.4kg, N: 14.4kg, H/P: 19.9kg
Downhole instrument	
Outside diameter	B: 43mm, N: 55.6mm, H/P: 73mm
Length	B: 408.5mm, N: 424.5mm, H/P: 440mm
Weight	B: 2.2kg, N: 4.0kg, H/P: 6.75kg
Handheld	
Length x width x height	110 x 63 x 31 mm
Weight:	0.15kg
ACCURACY	
Range	0 to $\pm 85^\circ$ dip
Accuracy	$\pm 5^\circ$ RMS
TEMPERATURE RATING	
Downhole instrument	Operating $-30^\circ\text{C}$ to $+80^\circ\text{C}$
Handheld	Operating $-30^\circ\text{C}$ to $+80^\circ\text{C}$
DEPTH RATING	
Maximum depth	4216m
Housing pressure	41.4 MPa (6000psi)
BATTERY	
Downhole instrument	User replaceable, non-rechargeable Lithium
Storage	Up to 10 years
Normal use	3 months
Handheld	Rechargeable Lithium Ion
Normal use	1 Week per full charge





# TRUSHOT™ DIGITAL SURVEY TOOL



TruShot™ is an accurate magnetic survey tool optimized for driller deployment. Made for durability, precision and simplicity, drillers can capture high-quality 3D hole path data with confidence.

## THE TRUSHOT ADVANTAGE

### **SURVEY IS EASIER WITH TRUSHOT**

Assemble the TruShot tool with Boart Longyear's high quality running gear and deploy down the hole for accurate azimuth and dip measurement. Ability to complete single-shot, multi-shot and orientation surveys at all angles up to a 4000-meter depth. Captured data is communicated wirelessly from the tool to the easy-to-read, handheld device.

### **ACCURATE AND IMMEDIATE**

Produce accurate surveys with user-adjustable magnetic anomaly detection to flag and filter erroneous data points. Because data is provided in open format, it is immediately accessible and ready to export directly from survey tool and handheld to USB.

## FEATURES

### **WIRELESS COMMUNICATION**

Tool and handheld reliably communicate within seconds, eliminating the need for disassembly to start or end a survey.

### **CHARGEABLE, EASY-TO-READ HANDHELD**

Conveniently charge the handheld through USB. Back-lit screen is easy to read with step-by-step instructions and intuitive workflows to minimize operational errors. Large, glove-friendly buttons and vibration feedback make it easy to operate.

### **USB EXPORT DIRECT FROM HANDHELD**

Export raw data directly to USB in generic .csv or .dif formats.

### **TRUSHOT VIEW SOFTWARE**

Included software allows for quick viewing and assessment of each survey shot. Captured downhole data is easily exported to all industry-standard formats.

### **ROBUST AND DURABLE**

Tool remains calibrated and functional even after prolonged field use. Fully sealed and waterproof.

### **MULTI-FUNCTIONAL**

Single-shot, multi-shot and orientation survey functionality.

### **FIELD REPLACEABLE BATTERY**

Tool battery life is long-lasting and can be easily serviced in the field.

To learn more about TruShot, visit [www.boartlongyear.com/trushot](http://www.boartlongyear.com/trushot)



# TECHNICAL SPECIFICATIONS

DIMENSIONS			
<b>Kit</b>			
Length x width x height	112.7 x 40.6 x 15.5 cm		
Total weight	Tool and Accessory Kit: 24 kg (max)	Extension Rod Kit: 14 kg	
<b>Downhole Instrument</b>			
Outside diameter	35 mm		
Length	1000 mm		
Weight	4 kg		
<b>Handheld</b>			
Length x width x height	240 x 115 x 38 mm		
Weight	0.4 kg		
ACCURACY			
Azimuth	Range: 0° to 360°	Accuracy: 0.3°	
Dip	Range from horizontal: ±90°	Accuracy: 0.2°	
Magnetic Dip	Range from horizontal: ±90°	Accuracy: 0.3°	
Gravity Roll (rotation/toolface)	Range: 0° to 360°	Accuracy: 0.3°	
Magnetic Roll (rotation/toolface)	Range: 0° to 360°	Accuracy: 0.3°	
Tool Magnetic Field	Range: 0 to 100,000nT	Accuracy: ±200nT	
TEMPERATURE RATING			
Downhole Instrument	Full Accuracy: 0°C to 60°C	Operating: -30°C to 75°C	Storage: -45°C to 85°C
Handheld	Operating: -10°C to 50°C	Charging: 0°C to 40°C	Storage: 0° to 30°C
DEPTH RATING			
Maximum depth	4000 m vertical in fresh water, IP68		
BATTERY			
Downhole Instrument	User replaceable, non-rechargeable lithium		
Storage	Up to 10 years		
Normal use	Up to 3 months		
Handheld	USB rechargeable lithium ion		
Normal use	1 week per full charge		
DATA			
Tool to Handheld Communication	Wireless IR communication, no tool disassembly required		
File Types	Handheld to USB drive: .csv or .dif	Desktop export: .xlsx, .csv, .dsv, .tsv	
View and Export	TruShot View software included with every tool		
LANGUAGE OPTIONS			
English, French, Spanish			
APPLICABLE CERTIFICATIONS			
ASTM D4169, MIL-STD 810G, IEC60068, ASTM B117, AS60529, CE			

Technical specifications are subject to change without notification

To learn more about TruShot, visit  
[www.boartlongyear.com/trushot](http://www.boartlongyear.com/trushot)

