

Stabila LAR 160 G

Stabila LAR 160 G Green Rotation Self-Leveling Laser Set User Manual

Model: LAR 160 G | Part Number: 04500TR

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your Stabila LAR 160 G Green Rotation Self-Leveling Laser Set. This professional-grade tool is designed for precise leveling tasks in both interior and exterior applications, featuring a highly visible green laser beam and robust construction.

Please read this manual thoroughly before operating the device and keep it for future reference.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury and damage to the device.

- **Laser Radiation:** This product emits Class 2 laser radiation. Do not stare directly into the laser beam. Avoid direct eye exposure.
- **Operating Environment:** Use the laser level only in well-ventilated areas. Keep the device away from moisture, dust, and extreme temperatures.
- **Battery Safety:** Use only recommended battery types. Ensure correct polarity when inserting batteries. Do not mix old and new batteries or different types of batteries. Dispose of batteries according to local regulations.
- **Maintenance:** Do not attempt to modify or repair the device yourself. Refer all servicing to authorized Stabila service personnel.
- **Children and Unauthorized Personnel:** Keep the device out of reach of children and unauthorized personnel.

3. PACKAGE CONTENTS

Verify that all items are present and undamaged upon unpacking:

- Stabila LAR 160 G Green Rotation Laser
- REC 160 R/G Set Receiver
- BST-S Construction Tripod (height-adjustable from 39"–63" / 100–160 cm)
- Hi/Lo Elevation Rod (from 31.5"- 75" / 80-190 cm)
- Magnetic High-Visibility Plastic Target Plate with Cross-Hair

- Hard Shell Carrying Case
- User Manual



Image 3.1: The complete Stabila LAR 160 G laser set, including the laser unit, tripod, grade rod, receiver, target plate, and hard case.

4. PRODUCT FEATURES

The Stabila LAR 160 G offers a range of features for professional leveling applications:

- **Fully Automatic, Motor-Driven Rotation Laser:** Ensures high leveling accuracy of ± 0.1 mm/m (1/8 inch @ 100 ft).
- **Fast Self-Leveling Function:** Achieves level within 20 seconds.
- **STABILA GREENBEAM Technology:** Green laser beams are four times more visible to the human eye than red beams, improving visibility in various conditions.
- **Four Laser Functions:** Supports horizontal rotation, vertical rotation, plumb-line function, and square (90°) in vertical operation for versatile use.

- **IP 65 Protection Class:** Dustproof and waterproof, suitable for demanding job site conditions.
- **Shock-Absorbent Casing:** STABILA soft grip casing provides protection against impacts, with a stable housing cover protecting the laser optics.
- **Easy Control:** Operated via three control buttons: on/off, tilt mode, and manual mode.
- **Accessible Battery Drawer:** Allows for easy battery replacement, even when the device is mounted on a tripod.
- **Large Working Area:** Up to 600 m (2000 ft) in diameter when used with the REC 160 R/G set receiver.
- **Versatile Mounting:** Two 5/8" x 11 threads integrated in the housing for vertical and horizontal applications.



Image 4.1: The Stabila LAR 160 G laser unit, showcasing its robust design and control panel with On/Off, Tilt, and Manual buttons.

5. SETUP

5.1 Battery Installation

1. Locate the battery drawer on the side of the laser unit.
2. Open the battery drawer and insert the required D-type batteries, ensuring correct polarity (+/-).
3. Close the battery drawer securely.

5.2 Mounting the Laser on the Tripod

1. Extend the legs of the BST-S construction tripod to a stable position.
2. Place the Stabila LAR 160 G laser unit onto the tripod head, aligning the 5/8" x 11 thread.

3. Securely fasten the laser unit to the tripod by turning the tripod's mounting screw.
4. Adjust the tripod height as needed for your application.



Image 5.1: The Stabila LAR 160 G laser unit securely mounted on its construction tripod.

5.3 Positioning the Laser

Place the tripod with the laser unit on a firm, level surface. Ensure the area is clear of obstructions that could interfere with the laser beam.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off and Self-Leveling

1. Press the **On/Off** button (marked with a power symbol) to power on the device.
2. The laser will automatically begin its self-leveling process. This typically takes about 20 seconds.
3. Once leveled, the laser beam will rotate continuously.
4. To power off, press the **On/Off** button again.

6.2 Laser Functions

The LAR 160 G supports four primary laser functions:

- **Horizontal Rotation:** For creating a level plane across a large area. This is the default mode after self-leveling.
- **Vertical Rotation:** Mount the laser vertically using the side 5/8" thread. The laser will project a vertical plane.
- **Plumb-Line Function:** In vertical operation, the laser can project a plumb-line (vertical point) for alignment.
- **Square (90°) Function:** In vertical operation, the laser can project a second beam at 90 degrees to the main vertical plane for squaring applications.

6.3 Tilt Mode

The tilt mode allows for manual slope setting. Press the **Tilt** button (labeled 'tilt') to activate. In this mode, the laser will maintain its current angle even if the device is slightly disturbed, but it will not self-level. Use this for setting specific grades.

6.4 Manual Mode

Press the **Manual** button (labeled 'man') to disable self-leveling and manually adjust the laser plane. This is useful for specific non-level applications or when working with a grade rod for slope calculations.

6.5 Using the REC 160 R/G Receiver

For outdoor use or when the laser beam is not visible, use the REC 160 R/G receiver:

1. Power on the receiver.
2. Move the receiver into the path of the rotating laser beam.
3. The receiver will indicate when it detects the laser beam, typically with visual and audible signals.
4. Adjust the receiver's position until the center indicator is active, marking the exact level.

6.6 Using the Hi/Lo Elevation Rod

The elevation rod is used in conjunction with the receiver to measure and transfer heights:

1. Attach the REC 160 R/G receiver to the elevation rod.
2. Extend the rod to the desired height.
3. Use the receiver to find the laser plane on the rod, then read the measurement.

7. MAINTENANCE

7.1 Cleaning

Wipe the device with a soft, damp cloth. Do not use harsh cleaning agents or solvents. Ensure the laser optics are clean and free of dust for optimal performance.

7.2 Battery Care

Remove batteries if the device will not be used for an extended period to prevent leakage. Replace batteries when the low

battery indicator appears or performance degrades.

7.3 Storage

Store the laser set in its hard shell carrying case in a dry, cool place, away from direct sunlight and extreme temperatures.

7.4 Calibration

Regularly check the calibration of your laser level. If you suspect inaccuracies, contact an authorized Stabila service center for professional calibration.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Laser does not power on.	Dead or incorrectly inserted batteries.	Check battery polarity. Replace with fresh D-type batteries.
Laser does not self-level or flashes.	Device is outside its self-leveling range ($\pm 5^\circ$).	Reposition the laser on a more level surface.
Inaccurate readings.	Device out of calibration or unstable setup.	Ensure the tripod is stable. If issues persist, contact Stabila service for calibration.
Laser beam not visible outdoors.	Ambient light too bright.	Use the REC 160 R/G receiver for detection.

9. SPECIFICATIONS

Feature	Detail
Brand	Stabila
Model	LAR 160 G
Part Number	04500TR
Laser Class	2
Output	< 1 mW
Laser Wavelength	510 - 530 nm (Green)
Self-Leveling Range	$\pm 5^\circ$
Leveling Accuracy	± 0.10 mm/m (1/8 in @ 100 ft)
Working Area Diameter (with receiver)	600 m (2000 ft)
Operating Life	20 hours
Battery Type	D

Feature	Detail
Protection Class	IP 65 (Dustproof and Waterproof)
Tripod Connection	5/8"
Product Dimensions (Packaging)	56 x 25 x 10 inches
Item Weight (Laser Unit)	5.6 ounces (approx. 160 grams)

10. WARRANTY AND SUPPORT

The Stabila LAR 160 G Green Rotation Self-Leveling Laser Set is covered by a **2-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or service inquiries, please contact Stabila customer service or visit the official Stabila website. Please have your product model number (LAR 160 G) and part number (04500TR) available when contacting support.

For more information, visit: www.stabila.com



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Related Documents - LAR 160 G

	STABILA LAR 160 / LAR 160 G Operating Instructions Operating instructions for the STABILA LAR 160 and LAR 160 G rotation lasers, covering intended use, safety, components, commissioning, operating modes, functions, LED indicators, accuracy checks, and technical data.
	STABILA LAR 160 / LAR 160 G Rotary Laser Level User Manual User manual for the STABILA LAR 160 and LAR 160 G rotary laser levels. Includes operating instructions, safety information, functions, technical specifications, and accuracy checks for professional use on construction sites.
	Spectra Precision HV1305(G)C Horizontal/Vertical Laser: Operation and Features Comprehensive guide to the Spectra Precision HV1305(G)C Horizontal/Vertical Laser, covering controls, peripherals, battery installation, remote control operation (RC1402), receiver pairing (HL760, CR700), and various operating modes like manual, standby, mask, and slope.

	STABILA LD 220 Laser Distance Meter User Manual Comprehensive user manual for the STABILA LD 220 laser distance meter, covering product overview, instrument setup, technical specifications, message codes, warranty, and contact information.
	STABILA LAX 300 G Laser Level Operating Instructions Comprehensive operating instructions for the STABILA LAX 300 G laser level, detailing its intended use, main components, operating modes, commissioning, calibration checks, and technical specifications.
	Laserliner Centurium Express G: Fully Automatic Green Beam Rotary Laser Comprehensive guide to the Laserliner Centurium Express G, a fully automatic rotary laser with green beam technology. Learn about its features, safety instructions, calibration, and maintenance.

Documents - Stabila – LAR 160 G



[STABILA LAR 160 / LAR 160 G Operating Instructions](#)

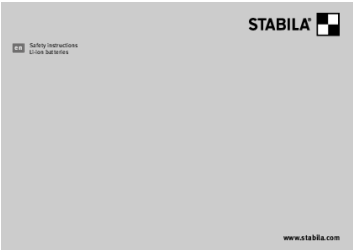
Operating instructions for the STABILA LAR 160 and LAR 160 G rotation lasers, covering intended use, safety, components, commissioning, operating modes, functions, LED indicators, accuracy checks, and technical data.

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How true pro s measure STABILA Messgeräte Gustav Ullrich 5 Operating mode 6 1 Automatic operation with tilt function 2 releveing 7 3 Manual 8 Functions 9 lar160 160g manual en stabila cn zh fu wu xia zai english html file files default LAR 160 G Tilt Tripod socket Safety instructions for laser units In Class your eyes are usually protected from accidental short term expo sure to the beam by eyelid closing reflex and or reaction turn one head If a hits eye deliberately close move

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[STABILA LAR 160 / LAR 160 G Rotary Laser Level User Manual](#)

User manual for the STABILA LAR 160 and LAR 160 G rotary laser levels. Includes operating instructions, safety information, functions, technical specifications, and accuracy checks for professional use on construction sites.

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Sicherheitshinweise fr Lasergerte 3. Gerte-Elemente 4. Inbetriebnahme 4.1 Batterien einsetzen / Batteriewechsel 4.2 Einschalten 5. 5.1 5.2 ...

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Ierīces elementi 4 4. Lietošanas uzsākšana 5 4.1 Bateriju ievietošana / nomaīa 5 4.2.
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Impiego conforme 2 . Istruzioni per la sicurezza di strumenti laser 3. Elementi dello
strumento 4. Messa in funzione 4.1 Inserimento batteria/Sostituzione batteria 4.2
Accensione 5. 5.1 5.2 5.3 Mo...

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Utilização para os fins previstos 2. Instruções de segurança para lasers 3. Elementos do
aparelho 4. Colocação em funcionamento 4.1 Colocar a pilha / Substituição das pilhas 4.2
Ligar 5. Modo de funcionamento 5.1 Modo au...

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How true pro s measure Led Açma Kapama Düğmesi Web Turkey Blog lar160 160g manual tr stabila files
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How true pro s measure LAR 160**LAR 160 G** Kullanma Kılavuzu tr İndekiler Dizini
Blm 1. Amacına uygun kullanım 2. Lazer cihazların güvenliği uyarıları 3. Cihaz
elemanları 4. Alıtırma 4.1 Pillerin takılması / Pillerin değiştirilmesi 4.2 Devreye alma 5. İşletim modu
5.1 Tilt fonksiyonlu otomatik iletim 5.2 Y...

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Stabila LAR 160 G 4 pcs Rotációs lézer Hatótáv max 600 m vásárlása Conrad Electronic hasznalati
utmutató 2320154 stabila lar g rotacios lezer hatotav asset conrad media10 add 160267 c1 fr
002320154ML00 |||

How true pro s measure LAR 160**LAR 160 G** Mode d'emploi fr Sommaire Chapitre 1.
Utilisation conforme 2. Consignes de sécurité pour appareils laser 3. Éléments de l'appareil
4. Mise en service 4.1 Insertion des piles / Remplacement des piles 4.2 Mise en
marche 5. Mode de fonctionnement 5.1 Fonct...

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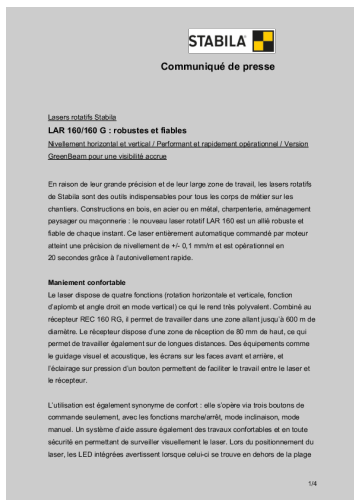
Stabila LAR 160 G 4 pcs Rotációs lézer Hatótáv max 600 m vásárlása Conrad Electronic használati útmutató 2320154 stabila lar g rotacios lezer hatotav asset conrad media10 add 160267 c1 es 002320154ML00 |||

How true pro s measure LAR 160 **LAR 160 G** Manual de instrucciones es ndice Captulo 1. Uso adecuado 2. Indicaciones de seguridad para aparatos lser 3. Elementos del aparato 4. Puesta en marcha 4.1 Colocacin de la pila/cambio de la pila 4.2 Conexin 5. Modo operativo 5.1 Modo automtico con fun...
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4005069191573 lar160 160g manual lv Stabila LAR 160 Automātiskais Rotācijas Lāzera Līmeņrādis Klase 2 19157 STAB prof amfile file Kolvy7FHQtFubsmvaEAel6VhbYZUwTXk product 105630 |||
How true pro s measure LAR 160 **LAR 160 G** Lietosanas instrukcija lv Satura rdtjs Nodaa lpp. 1. Paredztais lietojums 3 2. Drošbas nordes lzera iercu lietotjiem 3 3. lerces elementi 4 4. Lietosanas uzskšanas 5 4.1 Bateriju ievietosana / nomaia 5 4.2. leslgsana 5 5. Darba rezms ...
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Microsoft Word 2020 05 PI LAR160 G FR Website docx stabila fr service communique de presse lasers rotatifs lar 160 g robustes et fiables html file files default images content pressemeldungen lar160 cid 34474 |||
Communiqu de presse Lasers rotatifs Stabila LAR 160/160 G : robustes et fiables Nivellement horizont ... : la poussire et l eau ne sont pas un problme pour lui. Alternative verte Dans la version de modle **LAR 160 G**, le laser rotatif est quip de la technologie GreenBeam de Stabila. Celle-ci assure une mei...
lang:fr **score:27** filesize: 162.98 K page_count: 4 document date: 2020-09-15

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Manual de instruccionesBatería recargable iones litio AE LAR160 STABILA Messgeräte Gustav Ullrich GmbH ESae lar350 ae lar160 manual esstabila files default products static MPALAR160 bedienungsanleitung es esae ||| ||| es Indicaciones de seguridad Paquete de baterías Li-Ion www.stabila.com es Manual de instrucciones STABILA para paquete de baterías Li-Ion y fuente de alimentación Indicaciones importantes Lea atentamente las indicaciones de seguridad y el manual es Indicaciones de seguridad Paquete de baterías Li-Ion www.stabila.com es Manual de instrucciones ... de los contactos con cintas adhesivas. Datos técnicos: Fuente de alimentación: LAR 350 LAR 160 / **LAR 160 G** 100-240 VAC Frecuencia de entrada: 50/60 Hz 3 Hz Temperatura de trabajo: 0C a 40C /... lang:es **score:26** filesize: 76.15 K page_count: 6 document date: 2022-08-30



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INSTRUCTIUNI UTILIZARE LAR 160 Set nivelă laser rotativ orizontal vertical cu receptor REC RG trepid și riglă de 2 4 m Pentagon Romania lar160 160g manual ro stabila en service general romanian romana html file files default ||| How true pro's measure LAR 160**LAR 160 G** Instrucțiuni de utilizare ro Cuprins Capitol 1. Utilizarea conform destinației 2. Indicații privind siguranța pentru aparate laser 3. Elementele aparatului 4. Punerea în funcțiune 4.1 Introducerea bateriilor / înlocuirea bateriilor 4.2 Pornirea 5. Regim de ... lang:it **score:25** filesize: 2.57 M page_count: 14 document date: 2019-04-24





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STABILA Messgeräte Gustav Ullrich MANUAL ALIGNMENT STABILA
 PROTECTOR 1 80 m Rotationslaser Flyer ZH stabila cn files default products static
 MPLAR160 produktflyer zh manual alignment protector ip 65 800 2 motion
 control MPLAR160G
 LAR 350 LAR 300 LAR 160 **LAR 160 G** 0.1 mm/m 600 800 m IP 65 2--3 Florian
 Wilhelmy **LAR 160 G** 26 LAR 160 - 0.1 mm/m20 - 90 IP 65 - - / - REC 160 RG 600 m
 5/8 - 4--5 LASER ...
 lang:nl **score:25** filesize: 2.41 M page_count: 9 document date: 2019-11-18



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EN Specialists in precise work over long distances on off tilt mode manual Battery drawer easy
 replacement even directly the tripod Large working area with REC 160 RG set receiver up to 600 m
 diameter Two 5 8 threads integrated housing for horizontal and vertical use a Stable carrying case
 transport safe storage Rotationslaser Flyer stabila cn zh fu wu xia zai english html file files default en LAR
 350 rotation laser STABILA
 STABILA rotation lasers: Specialists in precise work over long distances. Level large
 areas precis ... he precision and quality of my work. They also achieve faster results.
 LAR 350 LAR 300 LAR 160 **LAR 160 G** Highly accurate Levelling accuracy 0.1 mm/m
 Large working area 600800 m Waterproof and ...
 lang:en **score:24** filesize: 2.3 M page_count: 9 document date: 2020-02-07



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 How true pro s measure LAR 160**LAR 160 G** zh 1. 2. 3. 4. 4.1 / 4.2 5. 5.1 5.2 5.3 6. 7.
 LED 8.1 8.2 8.3 9. 3 3 4 5 5 5 6 6 7 8 9 10 11 11 12 13 2 1. zh 2. . LAR 160 / **LAR 160**
G , . LAR 160 / **LAR 160 G** IP65 . . 5 . . LASER 2 LAR 160...
 lang:i-klingon **score:23** filesize: 2.86 M page_count: 14 document date: 2019-04-24



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Ротационные лазерные приборы STABILA идеальные инструменты для точных работ Rotationslaser

Flyer RU stabila files default products static MPLAR300 produktflyer ru |||

STABILA: STABILA . . . STABILA , . STABILA , . . . LAR 350 LAR 300 LAR 160 **LAR 160 G** 0,1 / 600800 IP65 : . 2--3 Florian Wilhelmy , , 26- **LAR 160 G** STABILA....

lang:nl **score:22** filesize: 2.32 M page_count: 9 document date: 2020-02-07



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Laser rotanti STABILA ideali per lavorare con precisione su grandi distanze Rotationslaser Flyer IT stabila

files default it |||

Laser rotanti STABILA: ideali per lavorare con precisione su grandi distanze.

Livellamento esatto ... aliti del mio lavoro e permettono di ottenere risultati più rapidamente . LAR 350 LAR 300 LAR 160 **LAR 160 G** Massima precisione Precisione di livellamento 0,1 mm/m Ampio campo operativo 600 800 m ...

lang:it **score:22** filesize: 2.31 M page_count: 9 document date: 2020-02-07



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precisión Roto láser Stabila LAR 160 Infoconstrucción Máxima Rotationslaser Flyer ES stabila files

default products static MPLAR160 produktflyer es |||

Roto-láseres STABILA: especialistas para trabajos precisos a grandes distancias.

Nivelación exacta de ... de mi trabajo. Además, permiten obtener un resultado de trabajo más rápido. LAR 350 LAR 300 LAR 160 **LAR 160 G** Alta precisión Precisión de nivelación de 0,1 mm/m Gran alcance 600-800 m Estanco al agua ...

lang:es **score:22** filesize: 2.31 M page_count: 9 document date: 2020-02-07



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Produktinfoblatt STABILA Rotationslaser LAR 160 5 teiliges Set 19157 günstig bei rubart de Flyer DE
 stabila files default products static MPLAR160 produktflyer |||

STABILA Rotationslaser: Spezialisten für präzises Arbeiten auf große Entfernungen.
 Große Flächen exakt ... t meiner Arbeit. Sie führen außerdem zu einem rascheren
 Arbeitsergebnis. LAR 350 LAR 300 LAR 160 **LAR 160 G** Hoch präzise
 Nivelliergenauigkeit 0,1 mm/m Großer Arbeitsbereich 600 - 800 m Wasser- und ...
 lang:de **score:22** filesize: 2.35 M page_count: 9 document date: 2020-02-07



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2 3 MB Downloads French Français STABILA Messgeräte Gustav Ullrich GmbH PL mplar300 mplar160
 mplar160g flyer fr stabila files default |||

Lasers rotatifs STABILA : des alliés pour travailler avec précision sur de grandes
 distances. Nivele ... de meilleure qualité. En outre, ils permettent un travail plus rapide.
 LAR 350 LAR 300 LAR 160 **LAR 160 G** Haute précision Précision de nivellement 0,1
 mm/m Plus grande zone de travail 600800 m t...
 lang:fr **score:22** filesize: 2.31 M page_count: 9 document date: 2020-02-07



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OriginalkatalogEH129479 0160 Rotationslaser STABILA LAR 160 WeberPrevost das Kompetenzzentrum
 für Handwerk Bau und Sicherheit Online Shfly rotationslaser debilder dabag ch documents kataloge
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STABILA Rotationslaser: Spezialisten für präzises Arbeiten auf große Entfernungen.
 Große Flächen exakt ... kus betrieben werden können, sind sie jederzeit einsatzbereit.
 NEU NEU LAR 350 LAR 300 LAR 160 **LAR 160 G** Hoch präzise Nivelliergenauigkeit
 0,1 mm/m Großer Arbeitsbereich 600 - 800 m Wasser- und ...
 lang:de **score:21** filesize: 1.63 M page_count: 16 document date: 2020-07-30



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Stabila LAR 160 5 pcs 360 degree laser Range max 600 m Conrad information 2320153 stabila lar range asset conrad media10 add 160267 c1 de 002320153IN00 |||

STABILA Rotationslaser: Spezialisten für präzises Arbeiten auf große Entfernungen. Große Flächen exakt ... können betrieben werden können, sind sie jederzeit einsatzbereit. NEU NEU LAR 350 LAR 300 LAR 160 **LAR 160 G** Hoch präzise Nivelliergenauigkeit 0,1 mm/m Großer Arbeitsbereich 600 - 800 m Wasser- und ...

lang:de **score:21** filesize: 1.63 M page_count: 16 document date: 2020-07-30



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Stabila LAR 160 5 pcs 360 degree laser Range max 600 m Conrad information 2320153 stabila lar range asset conrad media10 add 160267 c1 en 002320153IN00 |||

STABILA rotation lasers: Specialists in precise work over long distances. Level large areas precisely ... d using rechargeable batteries, they can be used at any time. NEW NEW LAR 350 LAR 300 LAR 160 **LAR 160 G** Highly accurate Levelling accuracy 0.1 mm/m Large working area 600/800 m Waterproof and ...

lang:en **score:21** filesize: 1.68 M page_count: 16 document date: 2020-07-30



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Stabila LAR 160 5 pcs 360 degree laser Range max 600 m Conrad information 2320153 stabila lar range asset conrad media10 add 160267 c1 it 002320153IN00 |||

Laser rotanti STABILA: ideali per lavorare con precisione su grandi distanze. Livellamento esatto ... eria, i laser rotanti STABILA sono sempre pronti all'uso. NOVIT NOVIT LAR 350 LAR 300 LAR 160 **LAR 160 G** Massima precisione Precisione di livellamento 0,1 mm/m Ampio campo operativo 600 800 m ...

lang:it **score:21** filesize: 1.7 M page_count: 16 document date: 2020-07-30



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Stabila LAR 160 5 pcs 360 degree laser Range max 600 m Conrad information 2320153 stabila lar range
asset conrad media10 add 160267 c1 pl 002320153IN00 |||

Lasery obrotowe STABILA: specjaliści do precyzyjnej pracy na dużych odległościach.

Precyzyjne niwelowanie ... które by zasilane akumulatorowo, są zawsze gotowe do działania.

NOWO NOWO LAR 350 LAR 300 LAR 160 **LAR 160 G** Wysoka precyzja Dokładno
niwelowanie: 0,1 mm/m Duży zakres pracy 600/800 m Strona 2--3 W...

lang:pl score:21 filesize: 1.68 M page_count: 16 document date: 2020-07-30