Leica Rugby 320 SG & 410/420 DG

The toughest players on big fields

Provided by Xpert Survey Equipment
Click Leica Rugby 420DG for Product Info and Updated Pricing

n Construction n Machine Control n Agriculture



- when it has to be right

Geosystems

Leica Rugby 320 SG & 410/420 DG When accuracy is the goal, Leica Rugby makes the grade

Making the grade is what the Leica Rugby is all about. Whether your work requires level, single or dual grades and high accuracy over a long distance range, the Leica Rugby's extensive features will ensure both material and labour savings, keeping you on target to increase your bottom line.

The Leica Rugby Grade Lasers are automatic and self-levelling for jobs of any size, large or small. They can be used for any application involving precise grade control such as:

- n Building pads, parking lots and runways
- n Precise depth control for sub-base and fine grade excavation
- n Agricultural applications such as land leveling or tiling
- n Concrete forming and framework
- n Retention ponds and batters
- n Setting foundations and footings
- Absolute compatibility with the widest range of achine control solutions

Why Leica Rugby is the toughest player on the field:

- n Waterproof and dustproof to work reliably in all weather and job site conditions
- n High-impact composite housing with protective rubber overmolding
- n Cast aluminum base withstands rough handling and creates a stable platform
- n Enclosed head for maximum internal component protection
- n Long-range two-way remote control, optional with the Leica Rugby 400 Series
- n Superior battery concept (alkaline or NiMH rechargeable)



n agby functions

n Che tings "on-the-fly"

n Water, dust and shockproof

n Superior radio performance

n Simplify workflow and reduce costs

Remote Control Specifications			
Instrument	Leica Rugby 410/420 DG		
Distance	225 m typical		
Battery Type	four AAA alkaline		
Size (HxWxD)	155 x 70 x 45 mm		
Weight	410 g		



Reliable in General Construction



The Leica Rugby 320 SG/410 DG is perfect for general construction work

- n Easy foundation setting thanks to the 5-button keypad
- n Superior power management for working without interruptions (up to 130 hours)
- n Full-function long-range two way remote control saves time and reduces communication errors from inside or outside the cab of the machine (Leica Rugby 410/420 DG only)
- n High-power laser beam provides enhanced distance performance
- n Rugged and reliable, works when you need it

Tough in Machine Control



In the development of the Leica Rugby 320 SG and 410/420 DG models care was taken to ensure absolute compatibility with the widest range of machine control solutions. Your dealer will be pleased to advise you further.



Highest Accuracy in Agriculture



The Leica Rugby 420 DG is perfectly suited for the agriculture market, where accuracy over a long range is required.

- n Designed for agriculture applications, such as land leveling and tiling
- n Highest accuracy over long distances
- n Align the laser with a simple one-person operation using the manual-axis-alignment feature
- n Eliminate communication errors using the longrange remote control
- n Stable laser plane over the whole temperature range
- n High performance for all day use

User-friendly features give competitive edge for precise g de control



10

Feature access control

using the 5-button concept

the height to

Wind sensitivity settings

make it possible to work

under adverse conditions

elevation errors





ort theft protection

nge two-way control



asking ically shutters m for multiple

longer

Manual mode for special applications



Axis alignment to increase grade accuracy

e communication errc aving mode

225m

Leica Rugby Series Specifications	Leica Rugby 320 SG	Leica Rugby 410 DG	Leica Kugpy 420 DG		
Operating Range (Diameter)	900 m *	800 m *	1100 m *		
Self-Leveling Accuracy	± 1.6 mm per 30 m **				
Self-Leveling Range	±5°				
Grade Capability	- 5 to + 25 %	- 5 to + 25 % in either axis (- 5 to + 15 % in both axes)	- 5 to + 25 % in either axis (- 5 to + 15 % in both axes		
Grade Resolution	0.001 %				
Rotating Speeds	5, 10, 15, 20 RPS				
Laser Diode	635 nm visible red laser	780 nm invisible (IR)	635 nm visible red laser		
Size (H x W x D)	265 x 260 x 200 mm				
Weight	5 kg without batteries				
Operating Temperature	- 20 ° to + 50 ° C				
Battery Type	alkaline or NiMH				
Battery Life	up to 130 hours with alkaline; up to 100 hours with rechargeable ***				
Environmental	watertight to IPX-7 standard				
Warranty	2 years factory warranty / additional 3 years on request				



Leica Rugby Series Features by Model	Leica Rugby 320 SG	Leica Rugby 410 DG	Leica Rugby 420 DG	
Simple to use 5-Button Keypad	(3)	((3)	
Real-Time Grade Matching	((
Superior Dual Battery Concept	•	(
Scope Mount in Both Axes	•	((*)	
Laser Beam Visible (Red)	•	•	(*)	
Laser Beam Invisible (IR)	-	(\$)	•	
Grade Capability X (or Y) Axis - 5 to + 25 %	(\$)	(
Grade Capability in Both Axes - 5 to + 15 %	-	(
Long Range Remote Control	-	((*)	
Axis Alignment	-	(*)	(4)	
Laser Plane Stabilization	-	-	(
Enhanced Operating Range	-		(3)	

Whether you have to precisely lay out a construction site, perform control measurements, collect height and angle data, align concrete forms, install ceilings and partitions, lay gravity flow pipe, locate underground services or complete site preparation and earthworks – Leica Geosystems offers the right instrument, construction laser or machine control installation specifically designed for your construction application.

Easy-to-use, jobsite-tough, accurate and reliable – Leica Geosystems instruments and lasers ensure the efficient use of your materials and resources. High-quality products, such as optical and electronic levels, construction lasers, total stations and machine automation systems, provide fast results, keep you working and increase your profitability.

When it has to be right.

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Leica Rugby 410 DG: Laser class 1 in accordance with IEC 60825-1 resp. EN60825-1

Leica Rugby 320 SG and 420 DG: Laser class 2 in accordance with IEC 60825-1 resp. EN 60825-1



Leica Sprinter
Quick, easy and
efficient digital
leveling



Leica Piper 100/200 The world's most versatile pipe laser



Leica Rugby 100LR Accurate and reliable self-leveling laser



Leica Rugby 260SG, 270SG, 280DG Keeps you working



Leica BuilderThe theodolite built for builder

