

R5100HD PRO

TOWERLESS TRUCK AND TRAILER ALIGNER
FEATURES A TABLET-BASED OPERATING SYSTEM

MONITOR AND CONTROL THE PROCESS FROM YOUR HANDS
- NOT THE CONSOLE - **FEWER STEPS = QUICKER ALIGNMENTS!**



MOBILE PC TABLET OPERATION

- Reduces alignment time with no trips to read a console
- Remotely control and monitor the alignment process from anywhere in the bay
- Equipped with three fixed magnets to secure it on the vehicle lift or on the vehicle chassis

WI-FI READY

Wireless Bluetooth® communication between the front heads and control unit - no interruptions at any lift height

INCLUDES FAST AND EFFICIENT 6-CCD INFRARED SENSORS

- Infrared transmission among 4 supplied measuring heads = a multi-axle ready system

SIMPLE SYSTEM WITH LESS TRAINING TIME

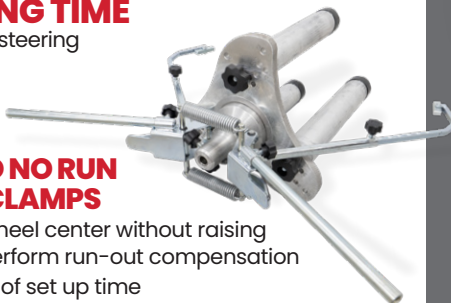
- Double inclinometer allows caster adjustment without steering
- System features step-by-step illustrated procedures



30" MINIMUM
TIRE DIAMETER

SPEEDY SETUP WITH PATENTED NO RUN OUT FAST TIRE CLAMPS

- Quickly reference wheel center without raising wheel position to perform run-out compensation
- Save 15-20 minutes of set up time



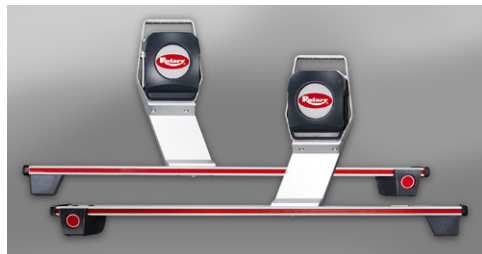
MULTI-AXLE READY
MEASURE UP TO
8 AXLES AS A
TRAILER ALIGNER



REMOTE CONTROLS PROVIDE OPERATION FROM ANY MEASURING HEAD

- LED repeater on front and rear sensors inform tech when adjustment angle is within specification range
- LED SENSORS allow alignment readings up to 59 feet

Scan
code to
watch
product
video



WIRELESS FRONT SENSORS



REAR SENSORS



Side supports house
and recharge measuring
head batteries



ADD ALIGNMENT SERVICES TO YOUR TRUCK SHOP WITH THIS PORTABLE, TOWER-FREE SYSTEM!

- No need for a dedicated alignment bay
- Maximize available workspace WITHOUT OBSTRUCTIONS
- Position aligner console anywhere it is convenient - measure on the floor, a lift or pit

DATA MANAGEMENT PROGRAMS FEATURE:

- Customer data bank for recording jobs with search by customer name or vehicle plate
- Summary and comparison of diagnosis/repair values on a single screen.
- Measurement of multiple axles vehicles using an extremely easy-to-follow procedure.

User's instructions with animated graphics measure axle offset electrically without wasting time manually measuring.

ROTARY[®]

BY ROTARY SOLUTIONS

R5100 HD COMMERCIAL ALIGNER

FEATURES

- Tower-free system
- Mobile PC tablet operation
- Equipped with a double inclinometer allowing caster adjustment without steering
- 6-CCD sensor wheel alignment system that allows Axel Offset calculation
- No run-out compensation needed

TOTAL MEASURING RANGE

	ACCURACY	MEASURING RANGE	TOTAL RANGE
FRONT AXLE			
Total toe	+ / - 3'	+ / - 2°	+ / - 20°
Partial toe	+ / - 1'	+ / - 1°	+ / - 2° 30'
Set-back	+ / - 2'	+ / - 2°	+ / - 5°
Camber	+ / - 2'	+ / - 3°	+ / - 10°
Caster	+ / - 5'	+ / - 10°	+ / - 18°
King pin	+ / - 5'	+ / - 10°	+ / - 18°
REAR AXLE			
Total toe	+ / - 3'	+ / - 2°	+ / - 20°
Partial toe	+ / - 1'	+ / - 1°	+ / - 2° 30'
Set-back	+ / - 2'	+ / - 2°	+ / - 5°
Camber	+ / - 2'	+ / - 3°	+ / - 10°
Thrust angle	+ / - 2'	+ / - 2°	+ / - 5°
Power supply	110v / 1Ø / 60 Hz		

ROTARY WHEEL SERVICE EQUIPMENT carries a 3 year parts and 1 year labor warranty. See website for details.

STANDARD EQUIPMENT

PATENTED WHEEL CLAMPS STDA92

2 sets (4 total)
quick locking
tire clamps

- Deliver a more accurate measurement without raising each wheel position
- Each pair of clamps includes 6 short and 6 long rim adapters



FRONT TURNPLATES STDA29L

- Capacity: 15,500 lbs. each.
- Includes plate handle, plate stop, and upper plate with anti-drip disc



BREAK PEDAL DEPRESSOR

THE PUSH PEDAL is used to lock the brake pedal during the preparation operations for measurements.

STEERING WHEEL LOCK

THE STEERING LOCK is a tool used to hold the steering at a fixed position. It is used before the adjustment procedure.



OPTIONAL APPLICATIONS



TRUCK TRAILER ALIGNMENT FIXTURE STDA49N



CCD CALIBRATION KIT STDA14



CORDLESS VIN SCAN TOOL WS0020

Includes communication / charging base, and 4-port USB adapter



PART OF VSG a DOVER company

ROTARY SOLUTIONS

To learn more about all of our automotive service and repair solutions or to contact your local distributor, visit us at www.RotarySolutions.com today.

Need assistance or have questions? We're here to help:
800.445.5438 / Sales: insidesales@rotarysolutions.com
Technical Support: WS-techsupport@rotarysolutions.com

ROTARY SOLUTIONS™

2700 Lanier Drive | Madison, IN 47250, U.S.A.

Lit# Rotary.R5100HD.Cutsheet.01.01.2026

©2026 VEHICLE SERVICE GROUP™

All Rights Reserved. Unless otherwise indicated, ROTARY SOLUTIONS™, VEHICLE SERVICE GROUP™, DOVER® and all other trademarks are property of Dover Corporation and its affiliates.

Product specifications, part numbers, images and component descriptions are subject to change without notice or liability.