BAKHEET
FIX
CONCEPT
INVEST. TRAIN. MAINTAIN

CAR-O-TRONIC®

POWERFUL AND ACCURATE

CAR-O-TRONIC®

POWERFUL AND ACCURATE

PRESENTED IN THREE VERSIONS[1] CAR-O-TRONIC® IS THE FASTEST, MOST ACCURATE, AND EASIEST TO USE 3D MEASURING SYSTEM ON THE MARKET. THE SENSOR-EQUIPPED MEASURING SLIDE WITH BUILT-IN VERSATILE REMOTE CONTROL DELIVERS DATA IN REAL-TIME, 3 TIMES PER SECOND!

[1]Car-O-Tronic® Vision2 X1, X2 and X3

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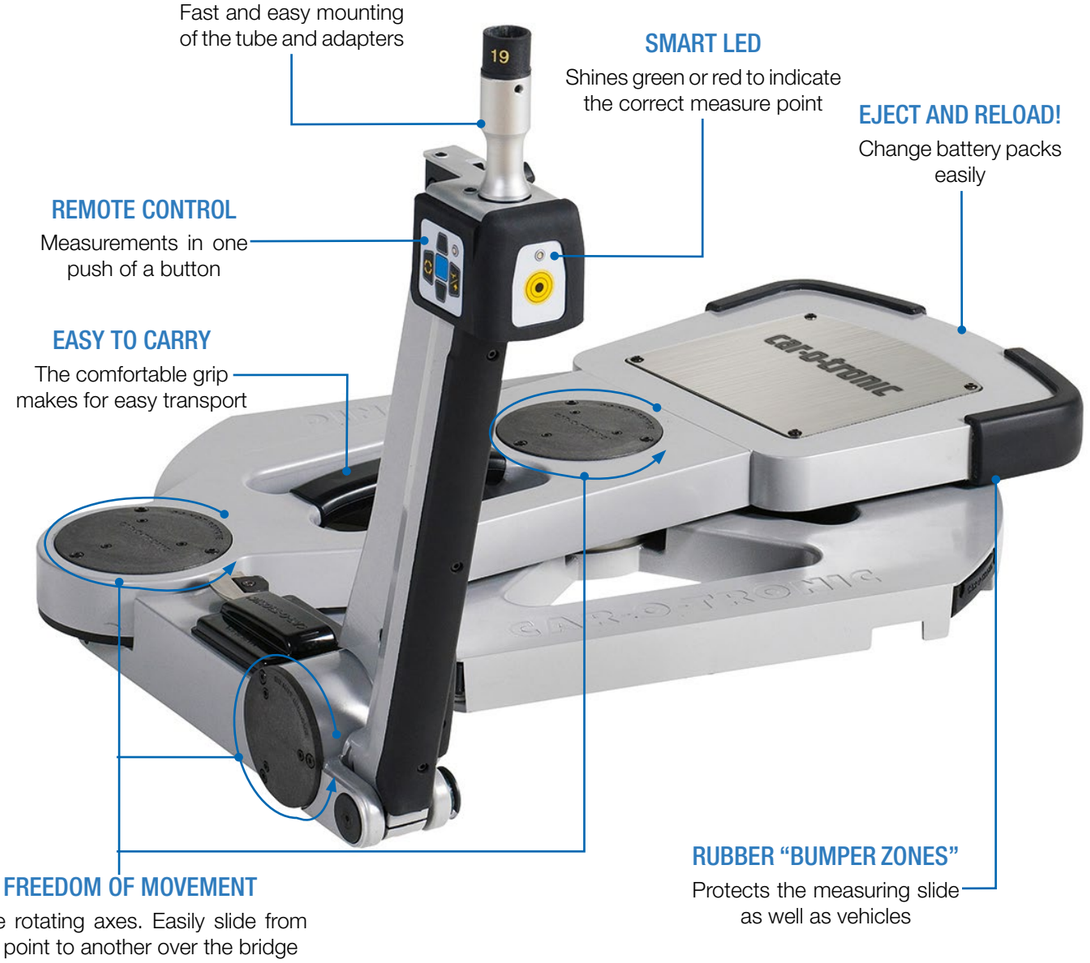
ADVANCED SYSTEM

FOR UPPER AND LOWER BODY MEASURING

Car-O-Tronic Vision2 is the most powerful electronic measuring system for collision damage repair available on the market today. The sensor-equipped measuring slide ,with a built-in versatile remote control[1], delivers real-time data three times per second to the advanced and easy-to-use **Vision2** software. Compatible with any alignment bench, this wireless communication allows the operator to almost effortlessly manage the entire measuring process without having to be at the computer. Photo-based, and backed by **Car-O-Data™**, the world's most comprehensive vehicle measurement database, it allows you to accurately and quickly target measuring points for fast diagnosis and repair.

[1]Remote control features vary according to hardware version.

MEASURING SLIDE WITH REMOTE CONTROL



VISION2™

PROCESS ORIENTATED SOFTWARE INTERFACE

COMPLETE - FAST - ACCURATE

WITH CAR-O-TRONIC® AND VISION2 SOFTWARE

COMBINE THE MOST ADVANCED ELECTRONIC MEASURING SYSTEM ON THE MARKET WITH VISION2

Car-O-Tronic communicates wirelessly with **Vision2,** Car-O-Liner's state-of-the-art measuring software that guides the entire repair process and performs automatic centering, measuring and documentation. Choose between **Vision2 - X1, X2,** and **X3** according to your equipment and body shop needs.

Photo-based and easy-to-learn **Vision2** presents an intuitive workflow that allows for quick and accurate measuring. Integrated with **Car-O-Data®**, the world's largest vehicle database with measurements for over 16,500 vehicles, it is super easy to find the correct measuring points.

Continuous updates via internet ensure that your database will always be up-to-date. All these features working together contribute to reduced cycle times and more efficient diagnosis and repair.

CHOOSE YOUR VISION2 ACCORDING TO YOUR SHOP NEEDS

VISION 2 - X1

- System for lower-body measuring

VISION 2 - X2

- System for lower- and upper-body measuring
- Includes High Measurement Point (HMP) adapter

VISION 2 - X3

- Upper-body point-to-point measuring on vehicles, including full frames, light trucks and SUV's
- Suspension diagnosis check, to find bent suspension parts during the repair process
- Surface damage diagnosis
- The worldwide VIN decoding system integrates seamlessly with the world's largest vehicle dimension database
- Multimedia support for the EVO universal system for anchoring, fixturing and holding

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WIRELESS COMMUNICATION SPEEDS UP THE PROCESS

Through sensors in each joint and a measuring head underneath, the measuring slide communicates wirelessly with Vision2, delivering real-time measuring data three times per second.

The built-in, versatile remote control lets the operator almost effortlessly manage the entire measuring process — without having to be at the computer.

HARDWARE FEATURES	CAR-O-TRONIC M21 + VISION2 X1	CAR-O-TRONIC M22 + VISION2 X2	CAR-O-TRONIC M23 + VISION2 X3	BENEFITS
Click in battery/batteries	X	X	X	No downtime, just click on the other charged battery
Plug in slot/measuring adapters	X	X	X	More accurate measures
Wireless	X	X	X	Cable free
Smart LED	X	X	X	Measuring point location assistant
HMP (high measurement point) accessory		X	X	Quick upper body diagnosis
Built-in remote control			X	Measuring procedure from distance
Endless rotation			X	Continuous 360º movement
SOFTWARE FEATURES				
Work order form	X	X	X	Keep a repaired vehicle database
Complete vehicle index list	X	X	X	Structured vehicle search reference
Vehicle damage analysis	X	X	X	Graphic representation to diagnose vehicle damage
ASP (automatic search point)	X	X	X	Reduces incorrect choice of measuring points
Measuring during pulling	X	X	X	Real time repair monitoring (3 times/sec)
Absolute and comparative measuring mode	X	X	X	Enhances diagnosis of points on the vehicle
Documentation as print-outs	X	X	X	Comprehensive printouts as hardcopy documentation
Guide and instruction manual	X	X	X	Assists in the learning process
Backup	X	X	X	Safely store a database of repairs
VisionWeb support	X	X	X	Online troubleshooting
Upper body measuring mode	X	X	X	Allows repair of upper body damages
Info center	X	X	X	Software information database
Repair info	X	X	X	Complete information on each work order
Online updates	X	X	X	Up-to-date information
Auto screen resolution adjustment	X	X	X	Resolution sets automatically, user friendly
Import/export of work order	X	X	X	Supports several systems
handEye	X	X	X	Smartphone/tablet application
Vehicle and measuring points photo database	X	X	X	Quick vehicle and measuring point identification
Chassis drawings	X	X	X	Clearly identify damage
Automatic centering		X	X	Quality, process control
EVO 1, 2, 3 support (holding and anchoring)			X	Multimedia step-by-step setup information
Ball joint measuring			X	Quick wheel suspension diagnosis
Suspension check			X	Reduction of rework, saves time
Surface damage diagnosis			X	Surface repair estimation
VIN Decoding			X	Fast vehicle identification
Animated setup/clamping information			X	Detailed clamping and set-up information
Point-to-point data, unibody and full frame			X	Fast diagnosis to save time

CAR-O-DATA®

THE WORLD'S LARGEST VEHICLE MEASUREMENT DATABASE

THE VAST MAJORITY OF VEHICLES ON THE ROAD TODAY CAN BE FOUND IN CAR-O-LINER'S DATABASE. WITH CRUCIAL MEASUREMENT REFERENCES AVAILABLE AT YOUR FINGERTIPS, THIS IS GARANTEED TO BE A PROFITABLE ADDITION TO YOUR BUSINESS. NEW AND UPDATED VEHICLE MODELS ARE CONTINUOUSLY MEASURED BY OUR INTERNATIONAL TEAM OF EXPERIENCED ENGINEERS SUPPORTED BY VIRTUALLY EVERY MAJOR VEHICLE MANUFACTURER AROUND THE WORLD.

Covering nearly all new and updated vehicles – presently more than 16,500 models in total – **Car-O-Data** consistently provides access to current and reliable measurement data.

With Car-O-Liner vehicle measurement data service, **Car-O-Data** you receive immediate, via Internet, up-to-date information about the new and updated vehicles that are continuously measured by our team in cooperation with automotive manufacturers around the world.

DECREASE CYCLE TIMES - INCREASE REPAIR QUALITY AND PROFITS

With our comprehensive measuring data you will see an immediate improvement in the level of quality your technicians put into every diagnosis, which in turn gives shorter cycle times and raises your workshop's bottom line.

CAR-O-DATA INDEX

The **Car-O-Data** Index, accessible from the Info Center menu , lets you update your vehicle database instantaneously over the Internet. Every day new interim data sheet and reference data for numerous new and old vehicle makes and models are available for downloading.

SUBSCRIPTION TO CAR-O-DATA® AVAILABLE

One-year exclusive access to **Car-O-Data** may be purchased. Download the database via the internet or receive it on DVD.

CAR-O-DATA FEATURES AND BENEFITS

- **WORLD'S LARGEST DATABASE** for vehicle measurements, currently over 16, 500 vehicles
- **PHOTO BASED** making it easy to find the correct measuring points
- **LOWER AND UPPER[2] BODY MEASURING** points for fast diagnosis and repair
- **ANIMATED SET-UP/CLAMPING** position displayed for easy and accurate mounting
- **POINT-TO-POINT** measurements for light trucks and SUVs[2]
- **VIN NUMBER SEARCH[2]** function for fast vehicle identification
- **HOLDING AND ANCHORING DATA[2]** gives detailed clamping and set-up information
- **NEW VEHICLE DATA** for approximately 300 new vehicles per year for repair of the latest models
- **IMMEDIATE UPDATES** of vehicle information released continuously on-line

[2] Available for Vision2 X3

A CAR-O-DATA® SUBSCRIPTION GIVES YOU THE IMMEDIATE AVAILABILITY OF NEW VEHICLE DATA THROUGH THE CAR-O-LINER VISIONWEB (CAR-O-LINER'S CUSTOMER SUPPORT WEB) DIRECT ACCESS TO SUPPORT, TECHNICAL INFORMATION, FORUMS AND THE LATEST VEHICLE DATA, INCLUDING DIMENSIONS AND VEHICLE SETUP.

VISION WEB FEATURES AND BENEFITS

- **PERSONAL LOGIN** gives quick access to Car-O-Liner's VisionWeb internet site
- **IMMEDIATE CAR-O-DATA UPDATES** via Internet, no waiting for the next DVD release
- **FREE UPDATES** so your measuring equipment software always has the latest data
- **SUPPORT** for data sheets keeps your workflow moving

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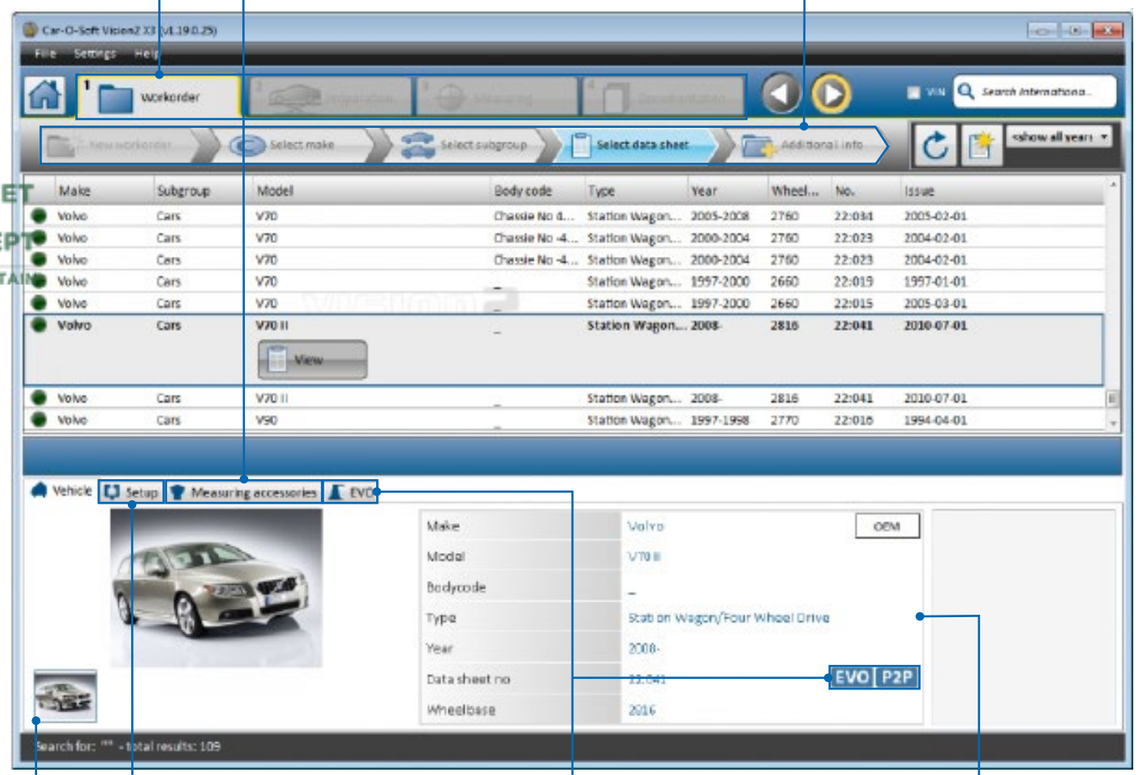
THE DATA YOU NEED

ANY VEHICLE, ANY TIME



EASY TAB STRUCTURE
All steps are guided through the tabs

ACCESSORIES
Special measuring adaptors

WORKFLOW PROCESS
Don't miss any step with the intuitive workflow

SET-UP INFORMATION
Showing the clamping points

EVO SYSTEM
A detailed, guided set-up process

VEHICLE IDENTIFICATION
Thousands of detailed images

VEHICLE INFORMATION
Model, body code, wheel base, year and more

PRODUCT INFORMATION
AND TECHNICAL DATA

“POWERFULL AND ACCURATE”

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STANDARD COMPONENTS | STANDARD COMPONENTS

CAR-O-TRONIC AND VISION2 PACKAGES

Car-O-Tronic Vision2 X1 46731
Car-O-Tronic Vision2 X2 46732
Car-O-Tronic Vision2 X3 46733

BATTERY & BATTERY CHARGER

Part Nos. 35365 (Battery) & 33493 (Charger)

PC CABINET

Steel cabinet with wheels for PC[3] and Car-O-Tronic holder

[3] PC and printer are not included

Part No. 36481

ADAPTERS AND MEASURING PARTS

Part No. 46731

ITEM	PART. NO.	QTY.
Angle Stud M103	30226	1
Meas. Gauge M217-180	30256	1
Meas. Gauge M207-120	30257	1
Angle Meas. M235	30764	1
Adapter M104	30227	2
Adapter Ø 8, M100-08	30200	1
Adapter Ø 10, M100-10	30208	1
Adapter Ø 12, M100-12	30209	1
Adapter Ø 14, M-100-14	30210	1
Adapter Ø 15, M100-15	30205	1
Adapter Ø 16, M100-16	30211	1
Adapter Ø 17, M100-17	30206	1
Adapter Ø 18, M100-18	30212	2
Adapter Ø 19, M100-19	30741	1
Adapter Ø 20, M100-20	30213	1
Adapter Ø 21, M100-21	30742	1
Adapter Ø 22, M100-22	30214	1
Adapter Ø 24, M100-24	30215	1
Adapter Ø 25, M100-25	30207	1
Adapter Ø 26, M100-26	30216	1
Adapter Ø 28, M100-28	30217	1
Stud Ø 25, M101-25	30198	1
Stud Ø 35, M101-35	30199	1
Stud Ø 60, M101-60	30241	1

ITEM	PART. NO.	QTY.
Bushing, M213	34020	1
Bushing Ø 6,5, M201-6	30202	1
Bushing Ø 8, M201-8	30222	1
Bushing Ø 9, M201-9	30228	1
Bushing Ø 10, M201-10	30223	1
Bushing Ø 12, M201-12	30231	1
Bushing Ø 13, M201-13	30204	1
Bushing Ø 14, M201-14	30203	1
Bushing Ø 15, M201-15	30225	1
Bushing Ø 18, M201-18	30220	1
Allen Screwdriver, M300 (4 mm L=250 mm)	30467	1
Meas. Tube L=25, M701-25	31260	1
Meas. Tube L=60, M701-60	31261	1
Meas. Tube L=100, M701-100	31271	1
Meas. Tube L=180, M701-180	31262	1
Meas. Tube L=270, M701-360	31263	1
Meas. Tube L=360, M701-360	31264	1
Meas. Tube L=600, M701-600	31268	1
Meas. Bridge Support M722	34730	2
Screw MC6S 5x6	31418	7

CAR-O-DATA[4]

The vast majority of vehicles on the road today can be found in Car-O-Liner's database. Your **Car-O-Tronic** is delivered with a 14-day trial **Car-O-Data Vision2** subscription. **Car-O-Data** is available with different subscription periods and database.

[4] Check all options with our distributors

VISION 2 SOFTWARE[5]

Presented in three different versions (X1, X2, X3), **Vision2** guides the entire repair process and performs automatic centering, measuring and documentation.

[5] Check the correct version per the chosen hardware.

SOFTWARE	PART. NO.
Vision2 X1	46688
Vision2 X2	46691
Vision2 X3	46695

PRODUCT INFORMATION

AND TECHNICAL DATA

OPTIONAL ACCESSORIES

MEASURING BRIDGE[6]

[6] Observe the different lengths

MEASURING SLIDE SIZE	PART. NO.
M74 (4.0 meters)	39634
M75 (5.0 meters)	39635
M79 (6.1 meters)	39636

HMP[7] (HIGH MEASURING POINT ADAPTER)

[7] Available only for Car-O-Tronic Vision2 X2 and X3. If purchased separately recalibration of the Car-O-Tronic is necessary.

Part No. 36568

CAR-O-TRONIC VISION2 X3 KIT MB

Part No. 41541

ITEM	PART. NO.
Car-O-Tronic Vision2 X3 MB (Includes M62 Measuring parts, M741 Battery charger II, 34572 Measuring Slide, 46697 1 year of Vision2 X3 MB and M81 PC Cabinet)	41513
Car-O-Data Complete 1 year DVD	39525
M75 COT Measuring bridge 5m	39635

OPTIONAL ACCESSORIES

CAR-O-TRONIC VISION2 X3 KIT VW

Part No. 41317

ITEM	PART. NO.
M90 Measuring slide COT Vision	34572
Measuring parts M62	31259
Vision2 **X3** / VW, 1 year	41317
SW 21 Car-O-Data DVD Update	35604
M81 PC cabinet Car-O-Tronic	36481
M74 COT Measuring bridge 4m	39634
M741 Battery charger II	33493

CAR-O-TRONIC VISION2 X2 KIT VW

Part No. 41318

INCLUDED PARTS	PART. NO.
M78 M. slide COT Classic + HMP	36424
Measuring parts M62	31259
Vision2 **X2** / VW, 1 year	41318
SW 21 Car-O-Data DVD Update	35604
M74 COT Measuring bridge 4m	36481
M81 PC cabinet Car-O-Tronic	39634
Battery charger II M741	33493

TECHNICAL DATA

	CAR-O-TRONIC M21 + VISION2 X1	CAR-O-TRONIC M22 + VISION2 X2	CAR-O-TRONIC M23 + VISION2 X3
Supply voltage	Input: AC 100 - 240 V, 800 mA 50 - 60Hz Output: DC 15 V 2.2 mA	Input: AC 100 - 240 V, 800 mA 50 - 60Hz Output: DC 15 V 2.2 mA	Input: AC 100-240 V, 800 mA 50-60 Hz Output: DC 15 V 2.2 mA
Display resolution	± 0.5 mm	± 0.5 mm	± 0.5 mm
Working area (LxWxH):	5,720 x 1,840 x 900 mm	6,720 x 2,120 x 1,985 mm	6,720 x 2,120 x 1,985 mm
Battery working time	6 - 8 hours	6 - 8 hours	6 - 8 hours
Battery recharging time	2-3 hours (80%) 6 hours (100%)	2-3 hours (80%) 6 hours (100%)	2-3 hours (80%) 6 hours (100%)
Weight measuring slide	18 kg	18 kg	18 kg
Wireless communication	Bluetooth, Class 1	Bluetooth, Class 1	Bluetooth, Class 1
Output power and frequency	Max +6dBm I 2.4 GHz	Max +6dBm I 2.4 GHz	Max +6dBm I 2.4 GHz
Quality certificate, Car-O-Liner AB	ISO9001 I ISO14001	ISO9001 I ISO14001	ISO9001 I ISO14001
Calibration	Individual calibration with full traceability to international/national standards of length		

CAR-O-LINER®

WE CARE ABOUT BODY SHOPS

EXCELLENCE. INNOVATION. PASSION.

CAR-O-LINER ACADEMY

We are a competence development partner for the automotive industry, our main objective is to improve quality, safety and profitability for body shops.

THE TRAINING YOU NEED

RIGHT PERSON | RIGHT TIME | RIGHT COURSE | RIGHT COMPLEXITY

We enhance our customer's abilities by identifying the real competence and development needed and by offering solutions to meet these needs and accelarate the business growth.

BAKHEET FIX CONCEPT
INVEST. TRAIN. MAINTAIN

WE OFFER THE SOLUTION

WE IMPLEMENT THE TRAINING | WE FIX THE ROOT OF THE PROBLEMS | WE MEASURE RESULTS

CUSTOMER SUPPORT

The Car-O-Liner Group headquarters is located in Gothenburg, Sweden, with subsidiaries located in Norway, Germany, France, United Kingdon, Italy, China, India, United States, Thailand and the Middle East.
Wherever you are, Car-O-Liner can provide customers with product information, training, support or data subscription/renewal.

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FIND A DISTRIBUTOR NEAR YOU

Rely on our professional service teams in over 70 countries to define which Car-O-Liner product suits you best.
Please visit our website: **www.car-o-liner.com**

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