

COMPUTER WHEEL ALIGNMENT SYSTEM



wheel balancer

car lift

tire changer

KWA - 200 for PASSENGER CAR and LIGHT TRUCK

" Wheel Alignment System " for Vehicle Maintenance.

Now It is High-tech Age When Rapidity and Precision is Essential !!



KWA - 200

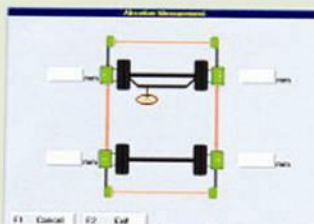
- Built-in infrared filter of fixed sensor module.
- Diagnosis and checking of a suspension, measurement of a ride height.
- Built-in program for preliminary checking and analyzing a vehicle.
- Quickly handle by lifting a vehicle when adjusting caster and camber.
- Capability of suspension body diagnostics(axle offset, side offset, difference between axles, track, setting back of front and rear wheels)
- Use of a sensor for accurate compensation of position when runout.
- Use of plus monitor for convenience of control(optional).
- Self diagnostics alarming the use and failure of devices.
- Advanced wheel alignment system to measure car state at the angle of 360



Plus Monitor (Optional)
LCD monitor for operator's convenience



Focused on convenience for the user to easily select overall measuring data of a car by adjusting the 3-D screen.



Available to measure suspension data precisely by the built-in sorber measure program. (Option)



Easy to set numerals. So the user can display data on the screen at his manner.



This system is programmed that the user can easily amend and enter specifications for existing / new cars.



3D screen for helping adjustment.



When swinging wheel to measure the caster S.A.I angle, both sides of front wheels can be separately measured. the data precision is strengthened.

Specification

Model	KWA200
Operating computer	Intel Pentium4
Sensor	4Heads Infrared, 8 sensor
Operating system	Windows OS
Printing device	Deskjet printer
Wheel clamps	4-point clamps
	11" - 22" range (Optional 24" adapter)
Measuring precision	Setback 0.02 degree
	Toe 0.02 degree
	Caster 0.05 degree
	Camber 0.02 degree
Measuring range	Setback: ± 2 degree
	Total Toe: ± 50 mm
	Caster: ± 18 degree
	S.A.I.: ± 18 degree
	Camber: ± 8 degree
	Thrust angle: ± 2 degree
Power supply	220V $\pm 10\%$, 50/60Hz
Rated Power	250W
Type of data body	4HEAD cable mode
Size	660(L) X 660(W) X 1,200(H)mm

WHEEL ALIGNER KWA 300

KWA 300

Features

- Prompt & precise alignment with 8 CCD image sensors of high accuracy
- Wireless communication with "Bluetooth"(can be used with Wire too)
- Program is designed for user suitably
- Accurate filter minimizes disturbance from the light
- Customer data can be stored in USB or Floppy disk
- Minimize measuring error with electric level sensors
- Function for measurement and adjustment when the front and rear setbacks are hidden.
- Vehicle diagnostic program (Axle-offset, Side-offset, and so on)
- Measurement and adjustment for selected item is available
- Self-diagnosis to inform the operation or malfunction of unit.


*8CCD Image sensors
Bluetooth*



Head

Heads can measure and adjust even if setbacks are hidden.
Setback which is designed by Pultrusion Method to decrease range of error and transformed



 **KOENG Co.,Ltd.**
주식회사코엔지

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Specification

Model	KWA300
Computer	Intel Pentium4
Sensor	4Heads Infrared, 8 sensor
Operating system	Windows XP
Printing device	Deskjet printer
Wheel size	19 ~ 26 inch
	28" - 30" Adapter
Measuring precision	Setback 0.01 degree
	Toe 0.01 degree
	Caster 0.02 degree
	Camber 0.02 degree
Measuring range	Setback: ± 2 degree
	Total Toe: ± 50 mm
	Caster: ± 18 degree
	Camber: ± 8 degree
Power supply	100~240V, 50~60Hz
Rated Power	250W
Type of data body	4HEAD cable mode
Size	660(L) X 660(W) X 1,070(H)mm

WHEEL ALIGNER CCD 525

CCD 525

Features

- Precise measurement by using 8 CCD image sensors
- Easy operating program for user convenience
- Special filter prevents sunbeam obstacles during measurement
- Functions to save customer's data to USB or Floppy disk
- Measure and adjustment for selected item is available
- Electronic level sensors on each head minimized difference of measurement
- Special function for compensation & measurement in case of the front & rear set-back is blocked – Spoiler
- Instruction for advanced inspection & analysis of vehicles status as reference
- Show the simulation of adjustment by 3D dynamic image
- Program for elevated adjustment of CASTER or CAMBER
- Vehicle diagnostic program (Axle-offset, Side-offset, Difference of wheel base and track)
- Self-diagnosis program



Head

- Head for CCD 525



Specification

Model	CCD 525	
Computer system	Intel Pentium4	
Sensor	4Heads, 8 CCD image sensor	
Operating system	Windows XP	
Monitor	17" LCD monitor	
Printing device	Deskjet printer	
Wheel clamps	4-point clamps	
	11" - 22" range (Optional 24" adapter)	
Measuring precision	Setback	0.01 degree
	Toe	0.01 degree
	Caster	0.02 degree
	Camber	0.02 degree
Measuring range	Setback	±2.0 degree
	Total Toe	±50mm
	Caster	±18.0 degree
	Camber	±8 degree
Transmission way	Both wires or wireless communication	
Rated voltage	100 - 240v, 50/60Hz	
Rated Power	250W	
Size	660(L) X 660(W) X 1,200(H)mm	

Operating Screen



Main Menu

Selected Interface for user



Choosing Screen

Selected Manufacturers & Vehicles



Adjusting Screen

Convertible easily to Screen with Numbers for adjusting



Measured Screen

Helping decide how to adjust by showing whole condition with measured each values



Adjusting Screen

Making comfortable with both Graph & Numbers



Runout Screen

Being able to choose precise wheel compensation process



Swing Screen for Caster

Having Three-dimensional Caster for Caster & S.A.I



Adjusting Screen for Rear

Adjustment screen including thrust angle

WHEEL ALIGNER CCD 725

CCD 725

Features

- Precise alignment with 8 CCD sensors of high accuracy
- Both wire/wireless communication (In the emergency, it can be used for wire communication)
- Durably designed new type of measuring heads
- Remote control panel is installed on each head
- Visible and comprehensible graphics for program
- Special filter to minimize beam-block
- Customer data back up using USB or Floppy disk is available.
- Electric level sensors on each measuring head
- Spoiler - Compensation & measurement in case the setback is blocked
- 3D dynamic image for simulation of adjustment
- Instruction for advanced inspection & analysis of vehicles status for user's reference
- Elevated adjustment for CASTER/CAMBER
- Vehicle diagnostic program
- (Axle-offset, Side-offset, Difference of wheel base and track)



Head

- Head for CCD 725



Specification

Model	CCD 725	
Computer system	Intel Pentium4	
Sensor	4Heads, 8 CCD image sensor	
Operating system	Windows XP	
Monitor	17" LCD monitor	
Printing device	Deskjet printer	
Wheel clamps	4-point clamps	
	11" - 22" range (Optional 24" adapter)	
Measuring precision	Setback	0.01 degree
	Toe	0.01 degree
	Caster	0.02 degree
	Camber	0.02 degree
Measuring range	Setback	±2.0 degree
	Total Toe	±50mm
	Caster	±18.0 degree
	Camber	±8 degree
Transmission way	Both wires or wireless communication	
Rated voltage	100 - 240v, 50/60Hz	
Rated Power	250W	
Size	660(L) X 660(W) X 1,200(H)mm	

Operating Screen



Main menu

Each item is displayed in graphics for user's convenience.



Runout

Easy to know the each step of wheel compensation process



Measured Screen

Shows all the measured value together With specification of selected vehicle



3D screen

Shows each value in 3D screen for reference



Adjustment (Numeric & Graph)

Adjustment with values displayed in graph as well as numeric



Adjustment (Only numeric)

Enlarged numeric values are visible during adjustment of rear wheels.

WHEEL ALIGNER CCD 750S

CCD 750S

Features

- Digital type camber embedded with microprocessor / caster/tow measuring device(degree of measurement is same as that of wheel alignment)
- Ensure easy operation and precise measurement for convenient wheel alignments.
- Practical products with reliable data not for simple approval.
- Provide data book with vehicle specification.

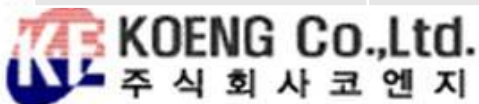
Main function

- Measure camber / caster / king-pin angle by optical gravity angle.
- Tow measurement can be performed at all kinds of vehicles as well as passenger cars.
- Can calculate accurate tow value by measuring the top end of tire tread.
- All data are operated with embedded microprocessor ensuring accurate and stable measurement function.
- Caster lock function



Specification

Model	CCD - 750S
Display	19" LCD monitor
Communication	Blue Tooth (RF)
Clamp	Can measure 11 ~ 21"
Run - Out	Rolling Run-Out
Dimension	1,230 x 615 x 1,480 mm



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Car life for wheel alignment

KEX - 4400A



Features

- Inground installation model available
- Individual control push button on each jacking bridge
- Powerful quad self synchronising cylinder
- Over engineered link structure for lasting performance
- Easily adjustable platform balancing handle
- Precision cylinder locking gear safety system for precise alignment
- Space saving design
- Flush mounted long and wide rearslip plate

KEF - 3600A



Features

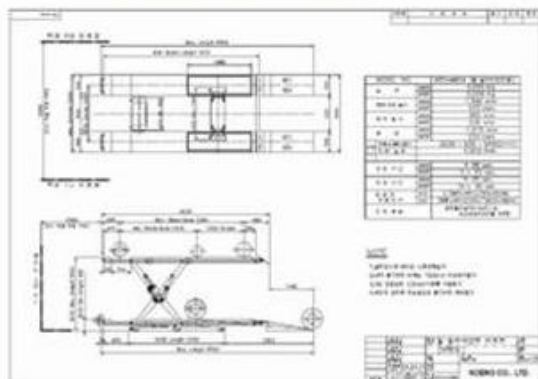
- Longer platform than market standard fit
- Wider between post to accommodate large vehicle
- Bridge equipped with own control push button
- 6 Button cable remote control for any vantage point operation
- Built in outlet on each platform for convenience
- Wide turn table recess and flush mounted slip plate
- Platform and jacks to minimize downtime
- Dual safety lock on each post for accident proof safety system

Specifications

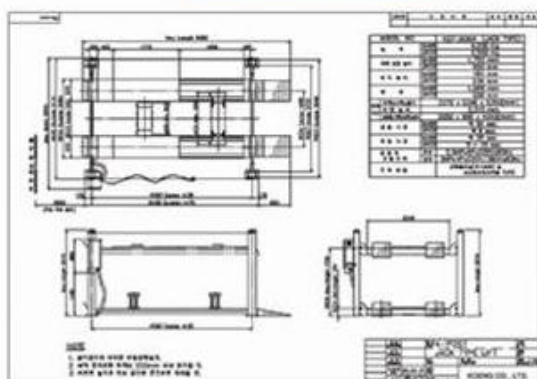
Data	MAX. (CAPACITY)	MAX. HIGHT	LOWEST HEIGHT	SIZE	OPERATION METHOD	POWER & MOTOR SINGLE / 3PHASE	LIFTING TIME 2500kg / UNLOADED	LOWERING TIME 2500kg / UNLOADED	TOTAL WEIGHT
KEX-4400A	4,000 kg	1,900 mm	290 mm	2,000W x 290 H x 5,400L (mm)	Control panel and/or wired remote control type.	2.5HP x 4P x 240V x 50HZ / 2HP x 4P x 415V x 50HZ	About 56 sec / About 38 sec	About 35 sec / About 35 sec	2,500 kg
KEF-3600A	4,000kg	1,750 mm	184 mm	3,370W x 2,215H x 6,116L (mm)	Control panel and/or wired remote control type.	2.5HP x 4P x 240V x 50HZ / 2HP x 4P x 415V x 50HZ	About 50 sec / About 30 sec	About 35 sec / About 35 sec	1,480 kg

INSTALLATIONS

KEX - 4400A



KEF - 3600A



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WHEEL BALANCER



PRODUCT FEATURES

1. Microprocessor based balancer suitable for wheel of cars, van, light trucks and motorcycles.
2. Electronic, computerized wheel balancer with self-calibration and self-diagnostics, specific balancing programs for static (motorcycle wheels) and ALU wheels (alloy rims).
3. The self-calibration program is easy and accurate and does not require a balanced wheel.
4. The self-diagnostic program warns about user's mistakes.
5. One single spin provides all the values. Single phase motor with low power absorption.
6. Automatic wheel stop when data readout is complete.
7. Data input can be entered quickly through the digital system on the the display board.
Display readout of unbalance and positions.
8. An optimising static balancing program allows to find the proper position of rim and tire.
9. Rim diameter and width are displayed in inches or millimeters. Out of balance values are displayed in grams or ounces.
10. Wheel guard & adapter for light trucks(option).

TECHNICAL DATA

Data Model	Max. Wheel Weight	Max. Power Consumption	Max. Rim Diameter	Max. Wheel Width	Standard power Supply	Balancing Speed	Cycle Time	Balancing Accuracy	Net weight Excluding Accessories
KE-20	60 kg	500 W	10"-24"	1.5"-20"	220 / 1Ph / 50-60Hz	280 rpm	6 sec	± 1gr	120 kg
KE-40	70 kg	500 W	10"-24"	1.5"-20"	220 / 1Ph / 50-60Hz	280 rpm	6 sec	± 1gr	145kg

TIRE CHANGER KE 2200

New locking system of the operation arms avoids any clearance and makes the machine stiff in the years.

New Tool

The improved shape reduces drastically the friction between the tool and the bead, and make it impossible to damage the tire.

Bead breaker with 3 support points allows perfect stability of the wheel.

Operated by a 3 tons cylinder handless all up to 13" wide.

New self-centering chuck clamps from outside till 18" including light alloy rims and 17.5" light truck wheel.

Specifications

- Rim diam. (outside locking) : 10" ~ 18"
- Rim diam. (inside locking) : 12" ~ 20"
- Bead removing tool force : lbs 3300(1500kg)
- Motor : 3ph 0.75 kw (1HP)
1ph 1.10 kw (1.5HP)
- Max. torque : ft x lb 918 (125 kgm)
- Weight : lbs 445 (kg 202)
- Air pressure : 120 ~ 175 psi (8 ~ 12 bar)
- Length : min 39" (990 mm), max 62" (1575mm)
- Width : min 29" (750 mm), max 38" (960mm)
- Height : min 58" (1480 mm), max 67" (1710mm)



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