

Techno Vector 7 Truck computer-based 3D wheel aligners for trucks



computer-based **3D** wheel aligners for trucks





4 digital HD video cameras - one camera for each wheel - determine positions of measurement targets in space





Machine vision system includes 4 video cameras Self-centering wheel adapters allow operating a wide range of wheel disks – from 12" to 24"

Special probe target allows quick and accurate measurements of truck frame position Clamps with targets are mounted onto wheels one after another on measurable axles of a vehicle







allows quick and accurate measurements of truck frame position in order to determine the vehicle centerline



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Techno Vector 7 Truck

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Machine vision system



Machine vision system automatically recognizes the targets installed on the wheels and the position of the probe target and calculates their geometrical position in space to high precision

Machine vision system housings are vertical posts equipped with high-precision network cameras with high quality matrices

Data are transferred from cameras to PC via TCP/IP



Such arrangement of the machine vision system allows taking into account individual peculiarities of a certain workplace and provides drive-through

Clamps





Operation

Clamps can be adjusted

diameters with a special

easily to various disk

handle



Quick and reliable target

with a shaft lock

mounting in wheel adapters



Switching from minimum disk size to maximum disk size is carried out by inserting "claws" into outer holes



Targets

- Compact and easy targets
- One target for each wheel
- Easy to handle
- The front panel is protected with a rubberized border
- No electronic components
- No need to calibrate targets







- allows you to control your PC from the distance up to 10 meters

- duplicates the functional keys on the main control panel

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Techno Vector 7 Truck

C omputer Cab	inets				S pecificati
V series	T series	Y series	L series	S series	
					Camber Front Total To Caster SAI / KPI Lock Angle Camber Rear Total To Front Set Ba Rear Set Ba Thrust Angle Geometrical
Computer cabinet in - electronic unit base		Available colours			P
with Intel Core I3 p and up-to-date vid		RAL 7040			Voltage, W Frequency, Hz
that supports Direc - 22" and above wid	t X11	RAL 5010			Wheel Adapter (0 Mounting Range Operating Tempe
LCD monitor - special bracket		RAL 3002			Power Consump Climatic Categor (All-Union State Sta

ations

	Techno Vector 7 Truck							
Parameter	Measurement Range	Maximum Error in Measurement	Average Error in Measurement					
Front Wheel Alignment								
Camber	±8°	±3'	±2'					
Front Total Toe	±5°	±3'	±2'					
Caster	±19°	±8′	±5′					
SAI / KPI	±19°	±8′	±5′					
Lock Angle	±45°	±10'	±5′					
Rear Wheel Alignment								
Camber	±8°	±3'	±2'					
Rear Total Toe	±5°	±3'	±2'					
Symmetry Angles								
Front Set Back (controllable)	±2,5°	±3'	±2'					
Rear Set Back (uncontrollable)	±2,5°	±3′	±2′					
Thrust Angle	±2,5°	±3′	±2′					
Geometrical Driving Axis	±2,5°	±3'	±2'					

Parameter	Value
Voltage, W	220 ± 10%
Frequency, Hz	50/60
Wheel Adapter (Clamping Arm) Mounting Range, in.	12÷24
Operating Temperature, C	+10 ÷ +35
Power Consumption	350
Climatic Category of the Device according to GOST (All-Union State Standard)	GOST 15150-69

YEAR warranty



- printer

- wireless remote control



Techno Vector 7 Truck

Techno Vector Software



Easy operating away from the color indicators

The Techno Vector 7 software is a powerful

and modern means for checking and

controlling wheel alignment





Measurement Mode Selection





Database

The database that contains thorough information on wheel alignment and is integrated in the software

You can create a user's database

asanetwork

It allows taking orders centrally and sending measurements to vehicle receiving centers.

Help System

The electronic Help system contains thorough information on working with the wheel alignment machine and software - video for working with the equipment - video lectures on working with the software - information on adjustments - diagrams, images, video, 3D animation



Free annual software updates





The Techno Vector 7 software based on PC works with Windows 10

+0°00'

Measurement Mode

Measurements are automatically compared with standard specifications

Quick access to other program modes



3D visualization, 7 modes

+0°02'

+0°02



@ Menu	eistu			
Toe (L) +0*09' +0*19' +0*29'	Total Toe +0*17" +0*38" +0*58"	Toe (R) +0*29' +0*19' +0*09'	-0*03' +0*00' +0*03	
+0°27'	+0°53'	+0°27'	+0°01'	
Camber (L) +2*28' +1*33' +0*38'	Cross Camber	Camber (R) +0*38' +1*33' +2*28'	Setback	
+0°54'	+0°03'	+0°57'	+0°01'	
Caster (L) +0*30' +1*34' +2*38'	Cross Caster	Caster (R) +2*38' +1*34' +0*30'	Thrust Angle	
+2°32'	+0°02'	+2°34'	+0°24'	
Change view	Change ade	Suspended Wheels	View report	

2D visualization, 2 modes







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Configuration

Integrated storage for

targets and clamps on the

computer cabinet

Marking

V7204HT

1 2 3 4 5 6 7

Machine vision system housings are two vertical posts with video cameras installed on them



Floor-mount installation of the wheel aligner Measurements and adjustments are performed on the pit. Drive-through is possible.

Moving clamp along

with target easily

at the same time

The initial installation of the equipment is performed by the manufacturer's service technicians. The device works with a 4 post wheel alignment lift or a repair pit, compliance with the horizontality requirements is strongly recommended.



Wall-mount (or ceiling-mount) installation of the wheel aligner* Measurements and adjustments are performed on the pit. Drive-through is possible.

* design is calculated individually





Measuring truck

frame position

Available colours

RAL 7040 RAL 5010 RAL 3002

1 Letter symbol of a computer cabinet series: T, V 2 Numeric symbol of a device series according to the type of measuring:

clamp and target

easily at the same time

- 7-measuring by video cameras and high-precision image targets (3D)
- 3 Numeric symbol of axis number measured simultaneously
- 4 Numeric symbol of a video camera type:
- 0 stationary
- 5 Numeric symbol of the total number of video camera units in the modification: 4
- 6 Letter symbol of a video camera housing type: H 8 Letter symbol of video camera housing: Truck

7204 HT MC

- 5 movable cameras - 3 video cameras 1.3MPix and 2 video cameras 5MPix - Floor-mount. Two low pillars

Techno Vector 7 3D wheel aligners for trucks designed to take measurements and make adjustments on trucks became the Runner-Up International A' Design Award & Competition in the Engineering and Technical Design Category 2016-2017





A'DESIGN AWARD



Techno Vector 7 7204 HT MC allows measuring trucks with the wheelbase up to 16 meters (or with the wheel base





The Golden Key Award 2017 is the international, independent professional award in the market of supplies and brands of auto service equipment in the Russian Federation

As a result of the contest The Gold Award is given to the winner of the contest for the Techno Vector 7 Truck manufacturing high-quality wheel alignment gauge got Russian products

the Gold Award and the

Novelty of 2016 Certificate

Zin