



# JOSAM CV-Aligner

Commercial vehicle wheel alignment with camera technology for Workshop and Mobile service van



**Save money by reducing fuel cost, tyre wear and much more by JOSAM Wheel Alignment Systems**



# JOSAM CV-Aligner

## Heavy vehicle alignment with camera technology

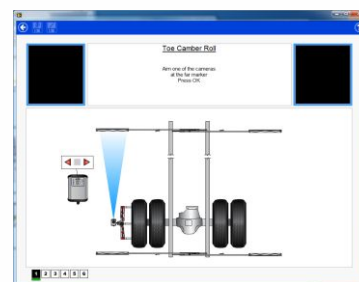
This compact wheel alignment system enables truck and bus workshops, as well as tyre service centers, to offer wheel alignment services quickly and accurately.

Wheel angles like

- Toe, Steering box position, Camber, Out of square, Parallelism and Axle offset
  - Caster, KPI, Toe Out On Turns and Max turn
- are measured using our patented camera technology with the chassis center line of the vehicle as reference.

Enabled by the unique rolling method, toe and camber measurements may be taken while the vehicle is in driving position. No lifting of the axles with run-out compensation is required, alternatively the system can also be operated with standard run-out procedure.

Wireless technology is used for transmitting data between measuring units and the computer. The computer software guides the user through the measuring process and prints out measurement reports of values, before and after alignment.



Vehicle data:		30.12.2012 12:12	
Registration no:	BM 43 ADN		
Make/Type:	77766		
Model:	9229		
Chassis no:	11 P 800000000		
Steer. Axle:			

Wheel	Camber	Toe	Roll	Steering Box	Out of Square	Parallelism	Max Turn
FL	+0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
FR	+0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
FL	+0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
FR	+0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
FL	+0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
FR	+0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
FL	+0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
FR	+0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1



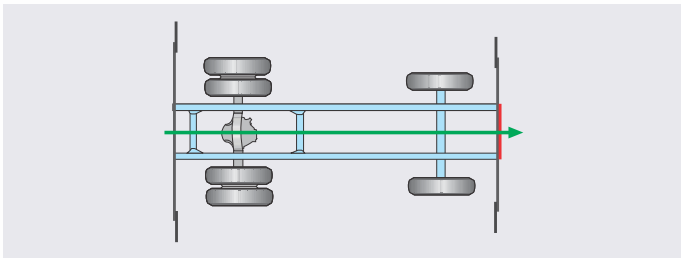
## Why wheel alignment?

By measuring and adjusting wheel angles on a vehicle, fuel costs and tyre wear are reduced. At the same time comfort, security and running characteristics are improved. This leads to a better economy and environment for everyone. It also means that the vehicle travels on the highway without taking up as much space as an incorrectly aligned vehicle would.

Wireless communication between the camera and the PC software.



## Measurement principle



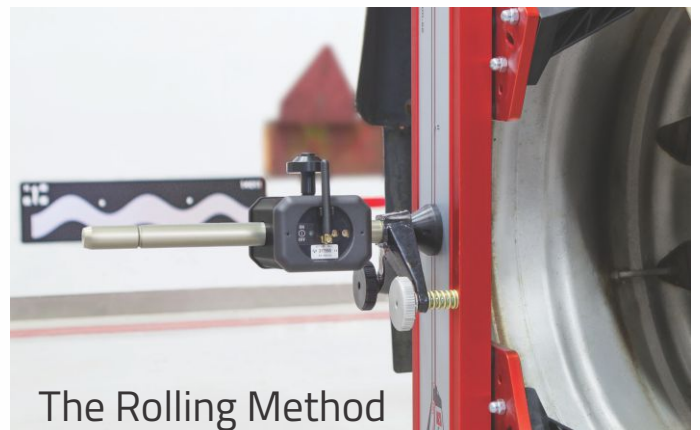
The JOSAM CV-Aligner wheel alignment system uses the centerline principle to determine the position of axles and individual wheels in relation to the centerline of the vehicle. The System does not require any special flooring or pit to do good alignment. It can be used in a workshop or on road Mobile alignment service. On correction it removes commonly found Dog run of vehicle

The system is designed to measure commercial vehicles such as trucks, trailers, buses, light commercial vehicles and multi axel vehicles

## Measuring Caster, KPI and Turn angles

This measurement is based on a single continuous movement of the wheels, from a straight ahead position to maximum left, via maximum right and back to the starting position.

During this procedure the built-in gyroscope and inclino-meter are constantly transmitting data to the computer, which calculates the Caster, KPI and Turn angles in different wheel positions. The entire process can be carried out in a matter of minutes.

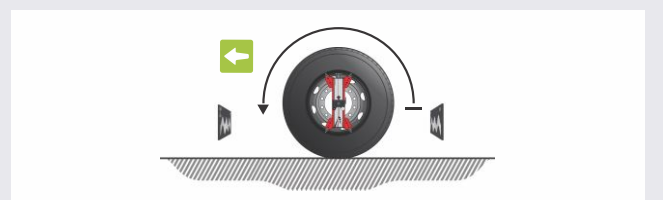


## The Rolling Method

The measuring is carried out as the vehicle stands on the floor, followed by rolling the vehicle so that the wheels turn half a turn and the cameras automatically take the readings.

This method allows the camera system to measure before, during and after rolling, without the need for any run-out compensation. Toe and camber values will be displayed automatically and adjustments can be made if needed.

The axle offset value together with out of square is also presented as a result of the measurement.



# JOSAM CV Aligner standard camera electronic wheel alignment kit (11.91)\*



Technical information	
<b>Description</b>	<b>Specification</b>
<b>Measuring range</b>	
Toe	±40 mm/m
Camber	-6°
Caster	±20°
KPI	±20°
Max. turn	65°
<b>Measuring accuracy</b>	
Toe	±0,2 mm/m*
Camber	±3 min*
Operational time	14 h**
Charging time	3 h
<b>Computer requirements</b>	See latest updated information on <a href="http://www.josam.se">www.josam.se</a>

\* For each camera  
\*\* On fully charged batteries

#	Article	Pcs.	Description
1	AM5-1750 A	2	Gauge extension 1750 mm
2	AM5-1750 B	2	Gauge extension 1750 mm with bubble
3	JT120 A	2	Self centering frame gauge
4	JT167	1	Bracket for "King-Pin"
5	JT510	1	Adapter for bumper
6	JT5-3	2	Hanger 320 mm
7	JT5-6	4	Hanger 620 mm
8	JT5-8	2	Hanger 870 mm
9	JT638	1	Steering wheel holder
10	AM268 A	2	Non friction plate
11	AM10 B	2	Wheel adapter universal 16-24"
12	CVA1001	2	Camera sensor
13	TC-216-10	1	Reflective Target FL
14	TC-216-20	1	Reflective Target FR
15	TC-216-30	1	Reflective Target RL
16	TC-216-40	1	Reflective Target RR
17	CVA1027	2	Charger
18	TC-361	1	USB cable
19	Local	1	Aluminum Case
20	10959	2	Power cord
21	CA1009	1	Wireless server
22	CV1114	1	Software for CV-Aligner
23	OPTIONAL	1	Cabinet for CV-Aligner
24	OPTIONAL	1	Laptop or Desktop

Exclusive Dealer



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