

Beissbarth Easy 2-Cam

WHEEL ALIGNMENT USING ML 33, 34, 35



3D technology with 2 cameras – wheel alignment



ML 34 Version with trolley





Simple workshop installation

- Test-equipment in front of the vehicle
- No calibration at the initial installation
- Height adjustable camera beam
- Adjustable working heights
- For wheel alignment lifts and pits
- From small cars to utility vans
- Smart LEDs as adjustment aid

within just 3 minutes



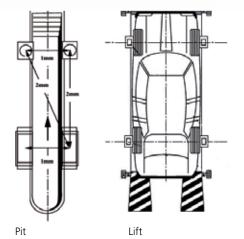




Precise and quick wheel alignment







Height adjustment of the camera beam:

between 600 and 2400 mm for variable working heights (even on ground level)

ML 33: manually adjustable

ML 34: electronic at the push of a button ML 35: automatic tracking of the targets



Exchangeable displays:

- Wall mount, post fitting or fixture on the trolley – as preferred
- Adjustment tasks made easy

ML 34, 35 trolley: -

- More storage than with ML 33
- Increased mobility
- Data transfer via cable
- For PC and (optional) printer
- Attachment rack for clamps and targets

For all professionally levelled wheel alignments bays:

4-post lifts*, scissor lifts, inground lifts, workshop pits

Admissible height deviation	Maximum
Left to right	1 mm
Front to rear	2 mm
Transverse front left to rear right	2 mm

^{*} note the clearances (see back page)



Easy 2-Cam software



Main menu



Overview of standard measured values

Wheel alignment software

- Dell PC running on Windows 10
- User-friendly, intuitive interface
- Program-controlled measurement routines: standard, quick & random
- Comprehensive Autodata vehicle database with editor
- Camber indication in lifted condition eases the adjustment

Standard measurement parameters

 Total toe (front + rear ax 	le)	±50°
• Individual toe (front + re	ar axle)	±25°
 Camber (front + rear axle) 		±15°
 Setback (front + rear axle) 		±9°
 Thrust line 		±9°
 Caster 		±22°
• Steering axis inclination		±22°
 Wheelbase 	1800-45	500 mm
 Track width 	1100-19	900 mm

Additional measurement parameters

- Rim diameter
- Side offset
- Axle spacing
- Longitudinal offset
- Difference: axle spacingDifference: track width

All measured values at a glance







For large and small wheelbases

Suitable for wheelbases between 1800 and 4500 mm.

Comprehensive Autodata vehicle database - with editor



Smart LED indicator system on the camera beam –





Alignment of the targets with virtual spirit levels

on a TFT screen or via LED indicators on the camera beam. There is a LED line for each wheel with target (1-4).



Runout compensation routine

LEDs 1 and 3 indicate the processing progress, 2 and 4 the direction to push in. Left and right indicators are identical.





Notes on the steering lock routine

LEDs 1 and 3 indicate the processing progress, 2 and 4 the direction to steer in. Left and right indicators are identical.





as additional adjustment aid



Scope of delivery and accessories

ML 33, 34, 35 standard scope of delivery

Standard accessories included in scope of delivery

ML 33	Description	Order number	Illustration	Description	Order number
	ML 33 Post with camera beam RAL 5015 (blue) RAL 7040 (grey)	1 692 000 026 1 692 000 149	24"	24" monitor	Upon request
	Post tray with PC, mouse, keyboard (US)		19"	19" monitor (only for ML 35)	Upon request
	and standard accessories RAL 5015 (blue) RAL 7040 (grey)	1 692 000 027 1 692 000 150		Target: front left Target: front right	1 692 000 116
				Target:	1 692 000 118
ML 34	ML 34 Post with camera beam	Order number		rear left Target: rear right	1 692 000 119
	RAL 5015 (blue) RAL 7040 (grey)	1 692 000 028 1 692 000 151		Turntable 2 pieces already included (1 piece)	1 692 000 122
	Trolley with PC, mouse, keyboard (US) and standard accessories			Filling bars for turntables	1 032 000 122
	RAL 5015 (blue) RAL 7040 (grey)	1 692 000 029 1 692 000 152		(2 pieces)	1 692 000 155
•			حادات	Universal clamp 13-25" 4 pieces (incl. standard	
ML 35	Description	Order number	2	car clamps) al- ready included	
T	ML 35 Post with		9	(1 piece)	1 692 000 134
	RAL 5015 (blue) RAL 7040 (grey)	1 692 000 030 1 692 000 153	2	Brake lock	1 692 000 120
	Trolley with PC, mouse, keyboard (US), an extra 19" monitor and standard acces- sories			Steering lock	1 692 000 121
	RAL 5015 (blue) RAL 7040 (grey)	1 692 000 031 1 692 000 154		Brake chocks (2 pieces)	1 692 000 156

(Optional) special accessories

Printer Multi-Fit clamp

Illustration	Description	Order number
	Printer	Upon request

Illustration	Description	Order number
	Multi-Fit clamp 13-22" 4 standard claws for Multi-Fit clamps already included (1 piece) (Set 4 pieces)	1 690 311 089 1 690 311 112
	Extension to 28" for Multi-Fit clamp (4 pieces)	1 690 311 113
	(4 pieces)	1 030 311 113
	Standard claw for Multi-Fit clamp for normal steel rims (4 pieces)	1 690 311 116
	(4 pieces)	1 030 311 110
	Special claw for Multi-Fit clamp for standard alloy and alloy softline rims	
	(4 pieces)	1 690 311 164
	Truck claw for Multi-Fit clamp	
	(4 pieces)	1 690 311 115

Claws for the Universal clamp

Illustration	Description	Order number
	Standard claw for Universal clamp for nor- mal steel rims (1 piece)	1 692 000 135
	Special claw 1 for Universal clamp for stan- dard alloy and alloy softline rims (1 piece) (16 pieces)	1 692 000 138 1 692 000 142
	Special claw 2 for Universal clamp for stan- dard alloy rims (1 piece) (16 pieces)	1 692 000 136 1 692 000 140
	Special claw 3 for Universal clamp for alloy softline rims (1 piece) (16 pieces)	1 692 000 137 1 692 000 141

Technical data

Area of application

Rim size 13"-25" Track width 1100-1900 mm Wheelbase 1800-4500 mm Clearance between post and turntable 1800-2400 mm Clearance between left and right camera 2240 mm

Power supply

120-220 V Voltage Frequency 50/60 Hz 0.72 kW Power

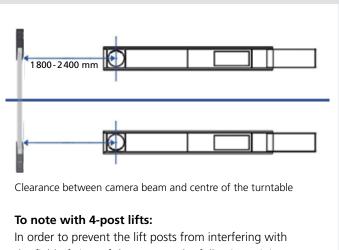
Dimensions

Post height 2600 mm Length of camera beam 2500 mm Post weight 47 kg Weight of camera beam 15 kg

Language versions

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German, English, French, Italian, Spanish, Portuguese, Russian, Polish, Hungarian, Bulgarian, Turkish, Arabic, Chinese, Thai, Japanese, Korean.



the field of view of the camera, the following minimum clearances are to be observed:

Clearance beam/turntable Minimum clearance 1800 mm 2650 mm 2100 mm 2700 mm 2400 mm 2750 mm

