Beissbarth Easy 2-Cam

WHEEL ALIGNMENT USING ML 33, 34, 35

BEISSBARTH

3D technology with 2 cameras – wheel alignment

ML 33
Compact version

Space saving
post installation

Manual

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

t within just 3 minutes

ML 35

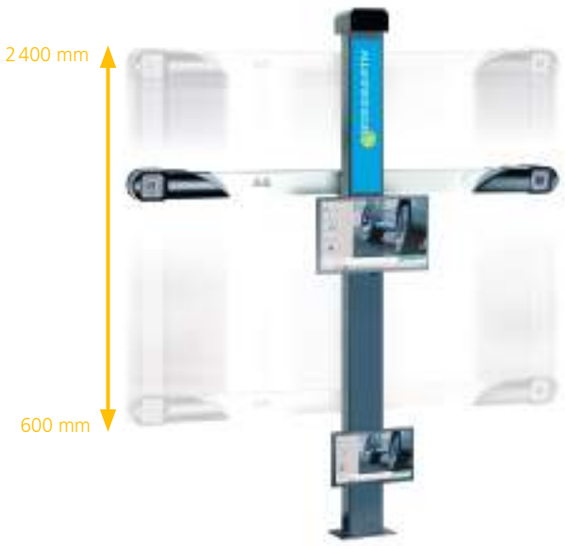
Version with trolley and autotracking

Automatic detection of targets and height adjustment of the camera beam

Increased storage space thanks to separate trolley

Additional control display at the bottom

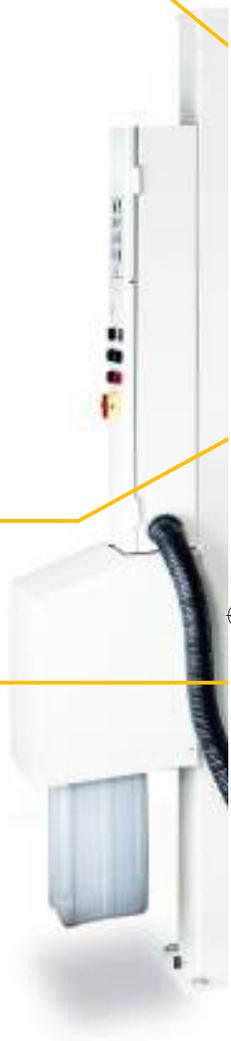
Precise and **quick wheel alignment**

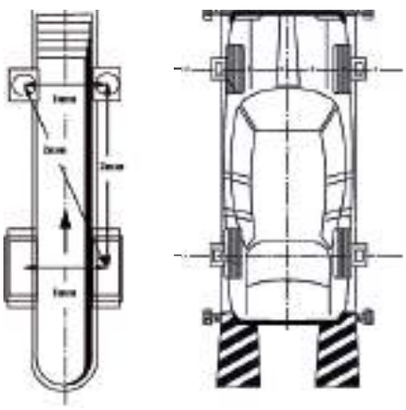


Height adjustment of the camera beam:
between 600 and 2 400 mm for variable working heights (even on ground level)
ML 33: manually adjustable
ML 34: electronic at the push of a button
ML 35: automatic tracking of the targets

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





Pit Lift

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)

Measurement instructions
via monitor or smart camera LEDs for:
- the alignment of the targets
- runout compensation
- steering lock

Small targets
- Space-saving design
- no mechanical spirit level (virtual alignment)

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 axle)	±50°
• Individual toe (front + rear axle)	±25°
• Camber (front + rear axle)	±15°
• Setback (front + rear axle)	±9°
• Thrust line	±9°
• Caster	±22°
• Steering axis inclination	±22°
• Wheelbase	1800-4500 mm
• Track width	1100-1900 mm

Additional measurement parameters

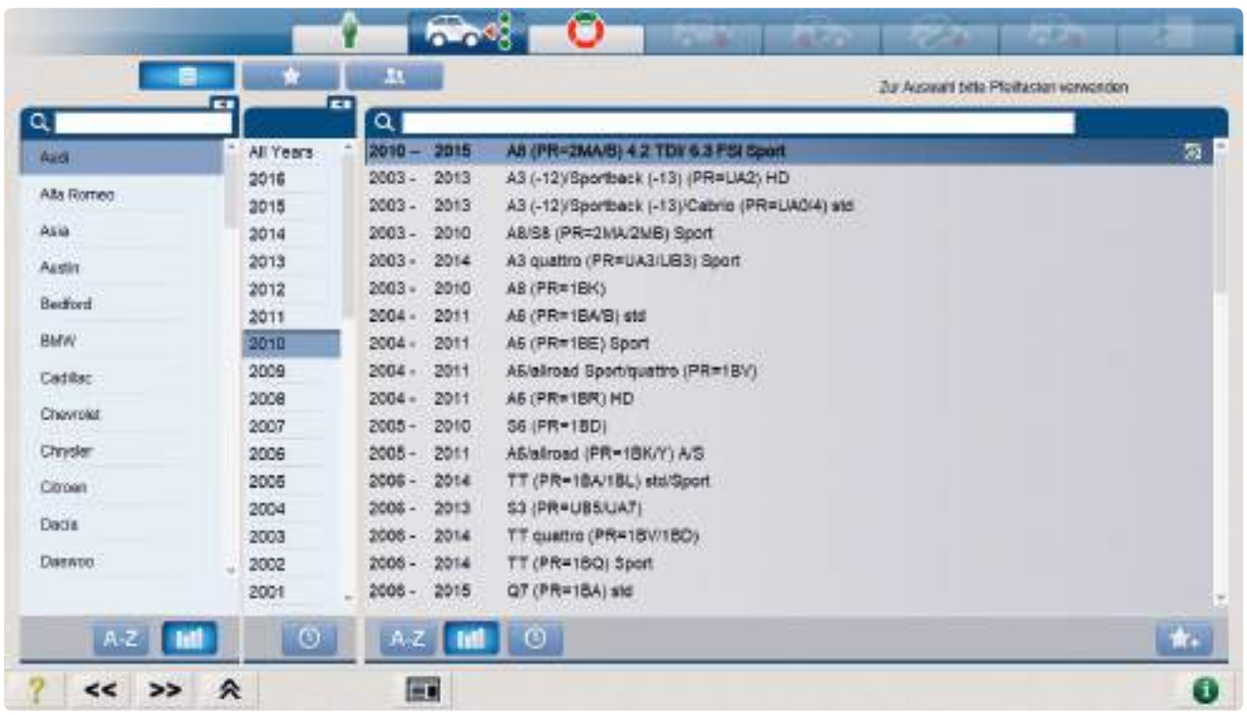
- Side offset
- Axle spacing
- Longitudinal offset
- Difference: axle spacing
- Difference: track width

All measured values at a glance

For large and small wheelbases

Suitable for wheelbases between 1 800 and 4 500 mm.

Comprehensive Autodata vehicle database – with editor



Smart LED indicator system on the camera beam – a

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

- as additional adjustment aid

Scope of delivery and **accessories**

ML 33, 34, 35 standard scope of delivery

ML 33	Description	Order number
	**ML 33** Post with camera beam RAL 5015 (blue) RAL 7040 (grey)	 1 692 000 026 1 692 000 149
	Post tray with PC, mouse, keyboard (US) and standard accessories RAL 5015 (blue) RAL 7040 (grey)	 1 692 000 027 1 692 000 150

ML 34	Description	Order number
	**ML 34** Post with camera beam RAL 5015 (blue) RAL 7040 (grey)	 1 692 000 028 1 692 000 151
	Trolley with PC, mouse, keyboard (US) and standard accessories RAL 5015 (blue) RAL 7040 (grey)	 1 692 000 029 1 692 000 152

ML 35	Description	Order number
	**ML 35** Post with camera beam RAL 5015 (blue) RAL 7040 (grey)	 1 692 000 030 1 692 000 153
	Trolley with PC, mouse, keyboard (US), an extra 19" monitor and standard accessories RAL 5015 (blue) RAL 7040 (grey)	 1 692 000 031 1 692 000 154

Standard accessories included in scope of delivery

Illustration	Description	Order number
	24" monitor	Upon request
	19" monitor (only for ML 35)	Upon request
	Target: front left Target: front right	1 692 000 116 1 692 000 117
	Target: rear left Target: rear right	1 692 000 118 1 692 000 119
	Turntable *2 pieces already included* (1 piece)	 1 692 000 122
	Filling bars for turntables (2 pieces)	 1 692 000 155
	Universal clamp 13-25" *4 pieces (incl. standard car clamps) already included* (1 piece)	 1 692 000 134
	Brake lock	1 692 000 120
	Steering lock	1 692 000 121
	Brake chocks (2 pieces)	 1 692 000 156

(Optional) special accessories

Printer

Illustration	Description	Order number
	Printer	Upon request

Claws for the Universal clamp

Illustration	Description	Order number
	Standard claw for Universal clamp *for normal steel rims* (1 piece)	1 692 000 135
	Special claw 1 for Universal clamp *for standard alloy and alloy softline rims* (1 piece) (16 pieces)	1 692 000 138 1 692 000 142
	Special claw 2 for Universal clamp *for standard 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

Multi-Fit clamp

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
	Standard claw for Multi-Fit clamp *for normal steel rims* (4 pieces)	1 690 311 116
	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

Technical data

Area of application

Rim size	13"-25"
Track width	1 100 - 1 900 mm
Wheelbase	1 800 - 4 500 mm
Clearance between post and turntable	1 800 - 2 400 mm
Clearance between left and right camera	2 240 mm

Power supply

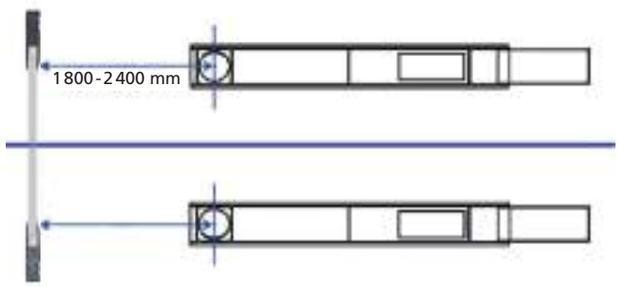
Voltage	120 - 220 V
Frequency	50/60 Hz
Power	0.72 kW

Dimensions

Post height	2 600 mm
Length of camera beam	2 500 mm
Post weight	47 kg
Weight of camera beam	15 kg

Language versions

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



Clearance between camera beam and centre of the turntable

To note with 4-post lifts:
In order to prevent the lift posts from interfering with the field of view of the camera, the following minimum clearances are to be observed:

Clearance beam/turntable	Minimum clearance
1 800 mm	2 650 mm
2 100 mm	2 700 mm
2 400 mm	2 750 mm

Order number 1 693 600 149 **print code** BB XXX/December 8th, 2017 EN Subject to technical and program changes.

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