

## VESTAS 5 (VT20025637)

VESTAS 5.5 Without display unit, measuring units and associated items.



## VESTAS 6 (VT20025635)



Alignment of generator and gearbox on wind turbines

*Please note that the pictures show old design of generator and gearbox brackets. The new ones can be used also with XT units.*

# VESTAS

**SYSTEMS**

The Easy-Laser® Vestas shaft alignment systems consist of one general installation kit, one supplement kit for use on more turbines, plus one upgrade kit (or just the bushings, see below).

**Installation kit, Wireless, Vestas 5, (VT20025637)**

Dimensions: WxHxD 670x600x220 mm [26.4x23.6x8.7], Weight 28 kg [61.7 lbs]. **Part No. 12-1143**

**Mechanical bracket kit, Vestas 5.5**

Same as Vestas 5, but without display unit, measuring units, printer and associated items like cables, see items marked with \* in the list to the right.

Dimensions: WxHxD 670x600x220 mm [26.4x23.6x8.7], Weight 25 kg [55.1 lbs]. **Part No. 12-1284**

**Supplement Service kit, Vestas 6, (VT20025635)**

Dimensions: WxHxD 570x470x220 mm [22.4x18.5x8.7], Weight 12.3 kg [27.1 lbs]. **Part No. 12-1142**

**Laser Installation Kit Upgrade**

If you have an older system Vestas 4 (not pictured) you can upgrade this for use at MK3E. **Part No. 12-1183**

Please note that the brackets in all kits fit both E-series and XT-series measuring units.



12-1183 Laser Installation Kit Upgrade		
items included		
Part.no	Description	pcs.
12-1154	Bushings for MK3E , set of 2	1
12-1164	Carrying case Vestas 5	1
12-1165	Carrying case Vestas 6	1

12-1143 Installation kit, Wireless, Vestas 5, (VT20025637)		
items included		
Part.no	Description	pcs.
12-0700	Display unit E52	1*
01-1379	Protective case for display unit E52	1*
12-0777	Measuring unit ELS40, PSD 30 mm, inclinometer	1*
12-0776	Measuring unit ELM40, PSD 30 mm, inclinometer	1*
12-0712	Nut to adapters with magnet M6 V112	5
12-0714	Screw to Adapters V112, L=75mm	4
12-0713	Fixture Kit for V112	2
01-1520	Adaptor for fixture V112	4
03-0613	Distance gauge incl. adaptor, incl. fastening screw L=35mm	1
03-1034	Distance gauge incl. adaptor, incl. fastening screw L=55mm	1
01-2163	Bushings for MK3E / V150	1
01-2142	Bushings for MK3E / V150	1
01-2143	Washer for MK3E / V150	2
12-1140	Screw to bushings V150 L=45mm	2
12-0495	Strap to display unit	1*
03-0914	USB memory stick 4GB	1*
03-0822	USB cable A to B 1.8 m	1*
03-1243	Battery charger (100-240 V AC) Lev. 6	1*
12-0989	DC split cable for charging	1*
12-0751	DC to USB adapter, for charging	1*
03-1004	Printer Seiko DPU-S445, including charger, cable and USB	1*
03-0824	Measurement tape 3 m	1
05-0954	Manual E540 Vestas	1*
12-1164	Carrying Case Vestas 5	1

12-1142 Supplement Service kit, Vestas 6, (VT20025635)		
items included		
Part.no	Description	pcs.
12-0703	Detector-fixture Generator flange	1
12-0297	Screw knob to Generator fixture M12	2
12-0298	Screw knob to Generator fixture M16	2
12-0718	Detector-fixture Gearbox flange	1
01-0815	Adapter for Gearbox fixture 25 mm	3
01-0816	Adapter for Gearbox fixture 24 mm	3
01-0817	Adapter for Gearbox fixture 22 mm	3
01-0818	Adapter for Gearbox fixture 17 mm	3
12-0296	Screw to adapters	3
12-0299	Nut to adapters with magnet M6	4
12-1165	Carrying case Vestas 6	1

Easy-Laser® is manufactured by Easy-Laser AB, Alfagatan 6, SE-431 49 Mölndal, Sweden  
 Tel +46 31 708 63 00, Fax +46 31 708 63 50, e-mail: info@easylaser.com, www.easylaser.com  
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 Publication ID 05-0752 Rev7





*Please note that the picture show old design of generator and gearbox brackets. The new ones can be used also with XT units.*

## Shaft alignment

Shaft alignment of generator and gearbox

# GA1

**A COMPLETE ALIGNMENT SYSTEM**

The Easy-Laser® GA1 shaft alignment system includes kits for alignment of gearboxes and generators. This system is designed especially for Gamesa turbines, and fits all their turbine sizes. The measurement programs are easy to learn and to use, and there are numerous options for documenting and saving the result of the work.

**Part No. 12-1118**

Complete system GA1, Part No. 12-1118 consist of Part No. 12-1113+12-1114, but still come in two separate carrying cases. 12-1113 and 12-1114 also sold separately.

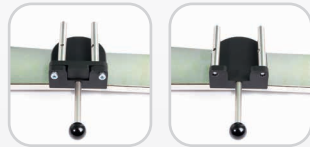
**Part No. 12-1113**

Dimensions: WxHxD 500x400x200 mm [19.7x15.7x7.9"]  
Weight: 8.0 kg [17.6 lbs]

**Part No. 12-1114**

Dimensions: 565x455x210 mm [22.2x17.9x8.2"]  
Weight: 17.0 kg [37.5 lbs]

Please note that the brackets in Part No. 12-1114 fit both E-series and XT-series measuring units.



12-1118



12-1113

12-1114

12-1113		
items included		
Part.no	Description	pcs.
12-0700	Display unit E52	1
01-1379	Protective case for display unit E52	1
12-0777	Measuring unit ELS40	1
12-0776	Measuring unit ELM40	1
12-0016	Shaft bracket with chain	1
12-0626	Chain 900 mm complete	1
12-0059	Rods Ø10x60 mm, set of 4 pcs	1
01-0873	Rods Ø10x120 mm	4
12-0987	Rods Ø10x120 mm, set of 4 pcs	1
12-1147	Magnetic bracket	1
01-1165	Offset bracket	1
03-0045	Screw MC6S M6x16 mm	1
03-0914	USB memory stick 4GB	1
03-0822	USB cable A to B 1.8 m	1
03-1243	Battery charger (100-240 V AC)	1
12-0989	DC split cable for charging	1
12-0751	DC to USB adapter, for charging	1
12-0495	Strap to display unit	1
03-0792	Toolbox	1
12-0967	Hexagon wrench set	1
01-0048	Rod tightening tool, 4 mm	1
03-0824	Measuring tape 3 m	1
05-0809	Manual GA1	1
05-0689	Quick manual	1
12-1020	Carrying Case for 12-1113	1

12-1114		
items included		
Part.no	Description	pcs.
12-0975	Detector-fixtue Generator flange GA1	1
01-1889	Adapters to Generator flange GA1 M24	2
01-1892	Adapters to Generator flange GA1 Ø40	2
01-1891	Adapters to Generator flange GA1 Ø31	2
01-1890	Adapters to Generator flange GA1 Ø25	2
12-0974	Screw to Adapters L=120mm	2
12-0712	Nut to adapters with magnet M6	2
12-0976	Detector-fixtue Gearbox flange GA1	1
12-0977	Screw M24 for Gearbox fixture	3
12-0978	Screw M30 for Gearbox fixture	3
01-1884	Adapters for M24 Screw to Gearbox fixture	3
01-1885	Adapters for M30 Screw to Gearbox fixture	3
03-0613	Distance Gauge (coupling flanges), incl. adapter	1
03-1034	Ext. adapter distances gauge	2
12-1116	Carrying case for 12-1114	1

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Tel +46 31 708 63 00, Fax +46 31 708 63 50, e-mail: info@easylaser.com, www.easylaser.com  
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