

Easy-Laser[®]

Measurement and Alignment Systems

D200 BTA *digital* Sheave/Pulley Alignment



V-BELTS



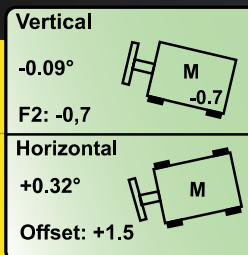
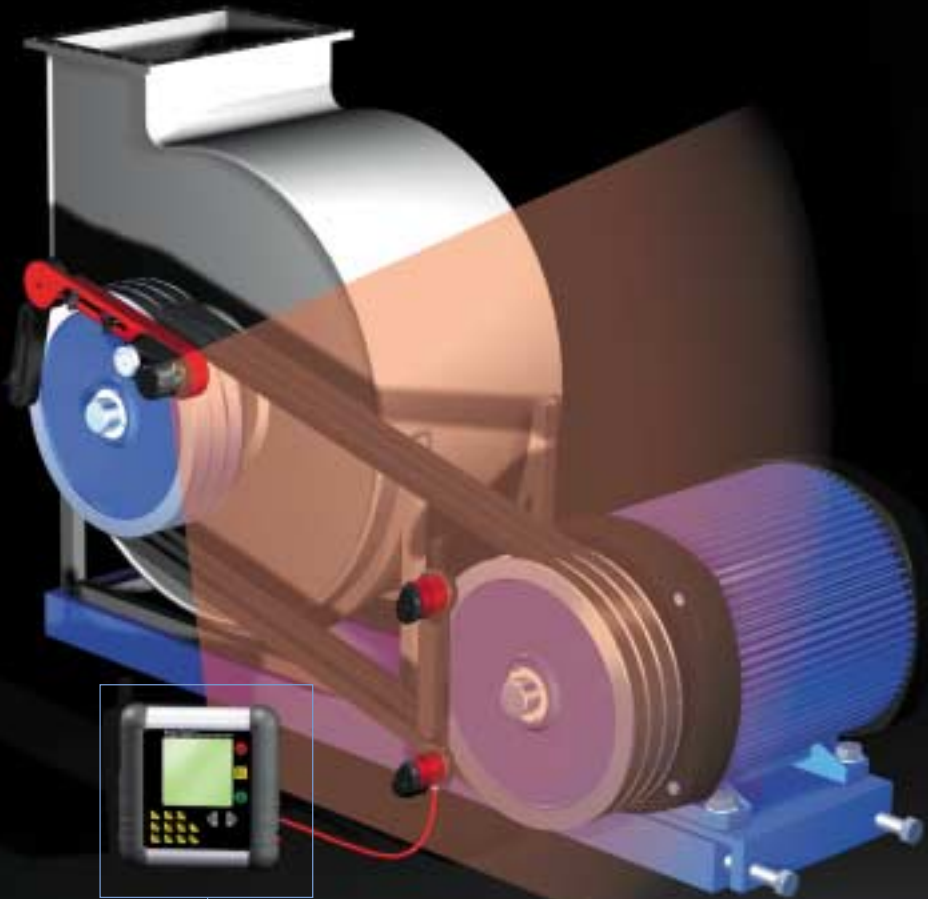
TIMING BELTS



FLAT BELTS

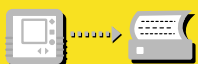


CHAIN DRIVES

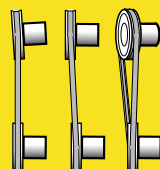


A GREAT ADVANTAGE IS THAT YOU FOLLOW THE ALIGNMENT LIVE AT THE DISPLAY, WHICH MEANS THAT YOU FOCUS ON THE ADJUSTMENT OF THE MACHINE, NOT ON THE SHEAVES.

With the Easy-Laser[®] **BTA digital** there finally is the possibility to document the alignment of a sheave/pulley alignment. Make a printout, store data in the display unit or transfer data to a PC.



PC / PRINTER
CONNECTION
VIA RS232



SHOWS PARALLEL
AND ANGULAR
MISALIGNMENT

- ▶ Shows the parallel and angular misalignment of the sheaves, both digitally and graphically in live.
- ▶ Calculates both shim- and adjustment values.
- ▶ Documentation to printer or PC via RS232-interface.
- ▶ Up to 1000 measurements can be stored.
- ▶ Much faster and more accurate than measuring with other, conventional methods.
- ▶ For both horizontal and vertical mounted machines.
- ▶ Magnetic attachment means that the alignment can be made by one operator.

D200

Easy-Laser®

Measurement and Alignment Systems

BTA digital

Maintenance are savings

In the industry of today, preventive and predictive maintenance is a matter of course. When aligning with the Easy-Laser® BTA you reduce the wear on sheaves, belts, bearings and sealings and reduce vibrations. This will give you less downtime, which of course means that you increase the available machine time. Time that guarantees your income. Increased efficiency also means large energy cost savings.

Document the result

For years the possibility to document the result of an alignment of e.g. a pump and a motor has been standard. With the Easy-Laser® BTA digital there now is the possibility also to document the alignment of a belt transmission alignment, which stands up to the demands one can have of a modern measurement system.

Easy for the user

The tool is attached in a few seconds, and you are lead step-by-step on the screen through the alignment procedure. The adjustment of the machine are displayed in live on the screen with values for angular and axial offset in both longitudinal (X) and transversal (Y) direction plus adjustment values for rear or front feet. The result is a fast, precise alignment. After finished measurement you can easily store, print or transfer the measurement data to a PC.

Technical specifications

Complete tool: Part Nr 12-0166
Delivered in aluminum framed case

Laser transmitter

Sheave diameters	Ø 60 mm [2.5"] and larger
Sheave thickness	Not depending on sheave thickness
Laser aperture	180°
Measurement distance	10 m [33 feet] radial
Battery type	1xR14
Battery operation	4 hours continuously
Laser class	2
Environment protection	IP65
Output power	<1 mW
Laser wavelength	635-670 nm
Housing material	Anodized aluminum
Dimensions	WxHxD: 300x60x65 mm [12"x2 3/8"x2 1/2"]
Weight	1.3 kg [43 oz]



Detector unit

Measurement range	15 mm [5/8"]
Housing material	Anodized aluminum
Dimensions	WxHxD: 250x50x65 mm [10"x2"x2 1/2"]
Weight	600 g [21 oz]

Display unit

Housing material	Anodized aluminum
Type of display	Backlit dot matrix LCD
Displayed resolution	Axial offset 0.1 mm [5 mils] Angular value 0.01°/0.17 mm/m [0.5 mils/inch] Shim value 0.1 mm [5 mils]

Batteries	4 pcs. 1.5 V R14 (C)
Operating time	48 hours
Output port	RS232 for PC and printer communication
Keyboard	Membrane alphanumeric multi function
Memory	Storage for 1000 alignments
Data transfer	PC-program EasyLink™ for Windows®
Dimensions	WxHxD: 175x170x40 mm [7"x6 3/4"x1 1/2"]
Weight	1250 g [2.7 lbs]

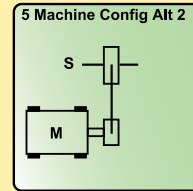
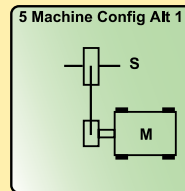
Accessories Portable thermal printer incl. cable and charger



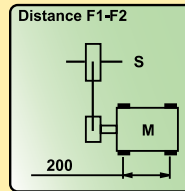
This product complies with:
SS-EN60825-1-1994
21 CFR 1040.10 and 1040.11



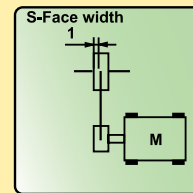
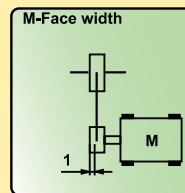
Step-by-step on the screen



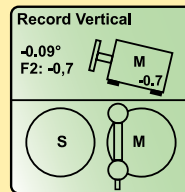
1. Enter which machine is the adjustable (M).



2. Enter the distance between the feet.

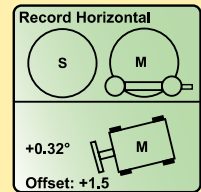


3. Enter the face width for the M-sheave and the S-sheave. The system now automatically compensates for the difference.



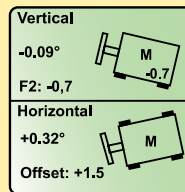
4. Place the detector unit vertically according to the display.

Record the value



5. Place the detector unit horizontally according to the display.

Record the value



6. The display now shows in live the measurement and adjust-/shim values in both vertical and horizontal direction, which makes the alignment really easy. You can now store, print or transfer the measurement data to a PC.

New possibilities

With our new SpinLaserTechnology™ using rotating laser a whole new world of possibilities for the measurement and alignment work are made available. E.g. the Easy-Laser® BTA digital can also be used for dynamic measurements, parallel measurements of planes and shafts etc. The system reads two or more detectors at the same time "live", which gives you a direct feedback of your work. This will result in a faster and easier alignment than before.



Manufacturers of belts recommends a maximum angular misalignment of appr. 0.25° (4.4 mm/m) [4.4 mils/inch].

05-0148 Rev3

Damalini
Measurement And Alignment Technology

Damalini AB
Åbäcksgatan 6B
431 67 Mölndal, Sweden
Tel +46 31 18 87 70
Fax +46 31 18 87 75
e-mail: info@damalini.se
www.damalini.com

Authorized dealer