

ACCUSHIM INC.

LASER SHAFT ALIGNMENT AT A PRICE
THAT WON'T BREAK THE PIGGY BANK!



SHAFT HOG™

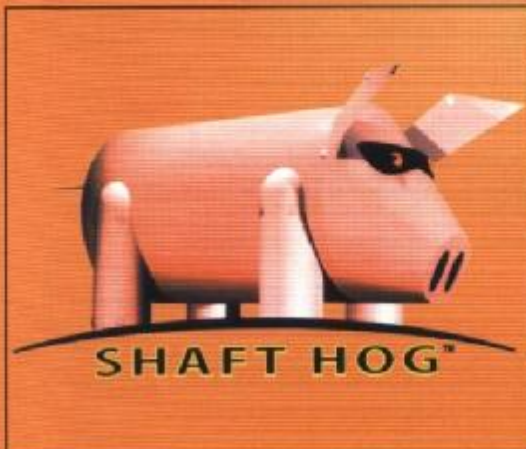
L A S E R S H A F T A L I G N M E N T T O O L

Benefits of precision alignment:

- Reduces vibration levels
- Extends bearing and seal life
- Less unscheduled downtime
- Longer MTBF

Advantages of the Shaft Hog:

- Detector accuracy (0.0001")
- Unique laser line
- Fast setup
- Easy operation
- Live values at all times
- Shows exactly what to do
- From small shafts to big ones
- Complete training manual



SPECIFICATIONS

Measuring Units

Housing material: ABS plastic
Type of laser: Diode laser
Laser Wave Length: 670-675 nm
Laser class: 2
Maximum laser power: 1 mW
Maximum distance:
between measuring units: 2.6 ft (850 mm)
Type of detectors: Single-axis PSD
Cable length: 5.2 ft (1.6 m)
Dimensions: 3.4 x 3.1 x 1.5 in
(87 x 79 x 39 mm)

Display Unit

Housing material: ABS plastic
Display type: LCD 1.4 X 1.9 in (35x48 mm)
Battery type: 2 x 1.5V "C" Alkaline (LR14)
Operating time: 20 hours continuous operation
Auto power off: After 1 hour if no keys are pressed
Displayed resolution: 0.1 mil (0.0001"); (0.01 mm in metric mode)
Dimensions: 9.1 x 3.2 x 2.4 in (230 x 81 x 62 mm)

Complete System

Shaft diameter range: 18" Maximum
Accuracy of system: <2% +/-0.00039 in
Temperature range: 32-140 °F (0-60 °C)
Operating humidity: Non-condensing
Weight in case: 10 lbs

4601 Lawndale Ave., Lyons, Illinois 60534
800-435-4485 or 708-442-6448
Fax: 708-442-6918
www.accushim.com

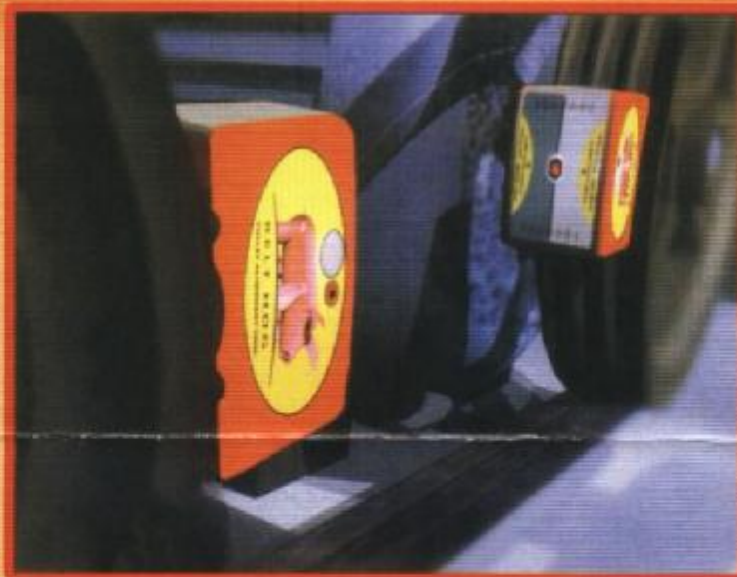
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IF YOU'VE GOT BELTS AND PULLEYS TO ALIGN,
THIS WILL PUT YOU IN HOG HEAVEN.

NEW
AND
IMPROVED

-  Sturdier aluminum housing
-  New feet fit in groove better
-  Recessed, Stronger magnets
-  Ruggedized case



BELT HOG™

L A S E R P U L L E Y A L I G N M E N T T O O L

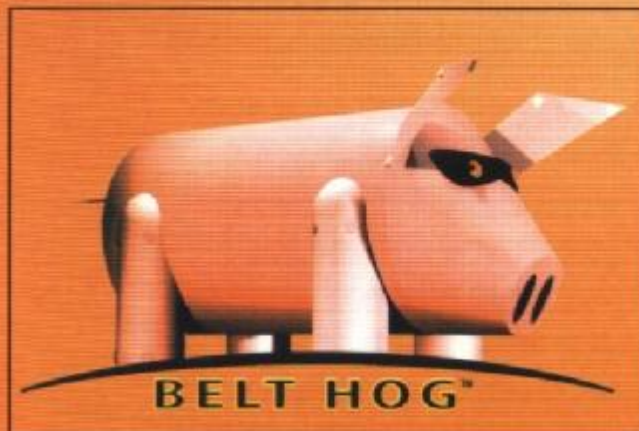
Benefits of good alignment:

- Reduces downtime
- Extends belt and pulley life
- Reduces vibration and belt noise
- Minimizes unscheduled stops

Advantages of the Belt Hog:

- Accurate, measures from the pulley grooves where the belts operate
- Easy to use, no training required
- Fast, one person operation

- No need to remove the belts
- Measures vertical angle, horizontal angle and offset simultaneously
- Measures distances from 6" to 20' feet
- Measures pulley diameters 3" and larger



SPECIFICATIONS

Housing material:	extruded aluminum (molded PA cover)
Dimensions:	2.40 x 3.00 x 2.35 in (h x w x d)
Weight:	approximately 1.4 lbs
Battery type:	(2) AAA Alkaline batteries
Operating time:	20 hours continuous operation
Measuring distance:	6" to 20 feet
Measuring accuracy:	3.49 mils/in (Better than 0.5mm or 0.2 degrees)
Pulley diameter range:	3" and larger
Pulley belt groove width:	ALL known industrial groove profiles
Classification:	Class 2 laser
Output power:	<1mW
Laser wavelength:	630 - 675 nm

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BI: 128 Rev:

Certificate of Calibration

ISSUE DATE: 2006-02-08

This is to certify that the equipment detailed below conforms to the published specifications and has been calibrated against our test instrument, which is traceable to national physical laboratory standards.

INSTRUMENT TYPE : TD Belt Hog 1-0357

SERIAL NUMBER : 59641

CALIBRATION : Angular error: better than 0.2°.
Parallel error: better than 0.5 mm.

LASER CLASSIFICATION : Complies to SS-EN-60825-1-1994, laser class 2 and 21 CFR 1040.10 and 1040.11 (as tested by the Swedish Testing Institute).

OPERATIONAL CHECK : Pass

PHYSICAL CHECK : Pass

SUBMITTED BY : FIXTURLASER AB

AUTHORISED SIGNATURE : 

TEST EQUIPMENT USED : Equipment for calibration, identification no: FL 40-052.

CALIBRATED AGAINST : Optodyne LDDM snr: 9204000831 calibrated by the Swedish National Testing and Research Institute and traceable to their iodine-stabilised He-Ne laser (SP2).

TRACEABILITY : The measurements are traceable to the definition of the metre through regular calibration of the standards and equipment.

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BI: 128

Certificate of Calibration

ISSUE DATE: 2006-02-08

This is to certify that the equipment detailed below conforms to the published specifications and has been calibrated against our test instrument, which is traceable to national physical laboratory standards.

INSTRUMENT TYPE : TD Belt Hog 1-0357

SERIAL NUMBER : 59640


CALIBRATION : Angular error: better than 0.2°.
Parallel error: better than 0.5 mm.

LASER CLASSIFICATION : Complies to SS-EN-60825-1-1994, laser class 2 and 21 CFR 1040.10 and 1040.11 (as tested by the Swedish Testing Institute).

OPERATIONAL CHECK : Pass

PHYSICAL CHECK : Pass

SUBMITTED BY : FIXTURLASER AB

AUTHORISED SIGNATURE : 

TEST EQUIPMENT USED : Equipment for calibration, identification no: FL 40-052.

CALIBRATED AGAINST : Optodyne LDDM snr: 9204000831 calibrated by the Swedish National Testing and Research Institute and traceable to their iodine-stabilised He-Ne laser (SP2).

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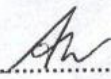
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Certificate of Calibration

CERTIFICATE NUMBER: 12671

ISSUE DATE: 2006-03-24

This is to certify that the equipment detailed below conforms to the published specifications and has been calibrated against our test instrument, which is traceable to national physical laboratory standards.

INSTRUMENT TYPE	: Shaft Alignment Tool ShaftHog
CALIBRATION	: $\pm 2\% \pm 0,01$ mm (over the measuring range of 850 mm).
LASER CLASSIFICATION	: Complies to SS-EN-60825-1-1994, laser class 2 (as tested by the Swedish Testing Institute).
DISPLAY UNIT	
PRODUCT DESIGNATION	: DU ShaftHog
SERIAL NUMBER	: 12671
PROGRAM VERSION	: 2.31
OPERATIONAL CHECK	: Pass
PHYSICAL CHECK	: Pass
SUBMITTED BY	: Vibralign, Inc
AUTHORISED SIGNATURE	: 
TEST EQUIPMENT USED	: Equipment for calibration, identification no: FL 40-047/FL 40-053.
CALIBRATED AGAINST	: Optodyne LDDM snr. 9204000831 calibrated by the Swedish National Testing and Research Institute and traceable to their iodine-stabilised He-Ne laser (SP2).
TRACEABILITY	: The measurements are traceable to the definition of the metre through regular calibration of the standards and equipment.
EXPIRY DATE	: 2 years after date of issue.

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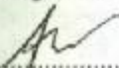
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Certificate of Calibration

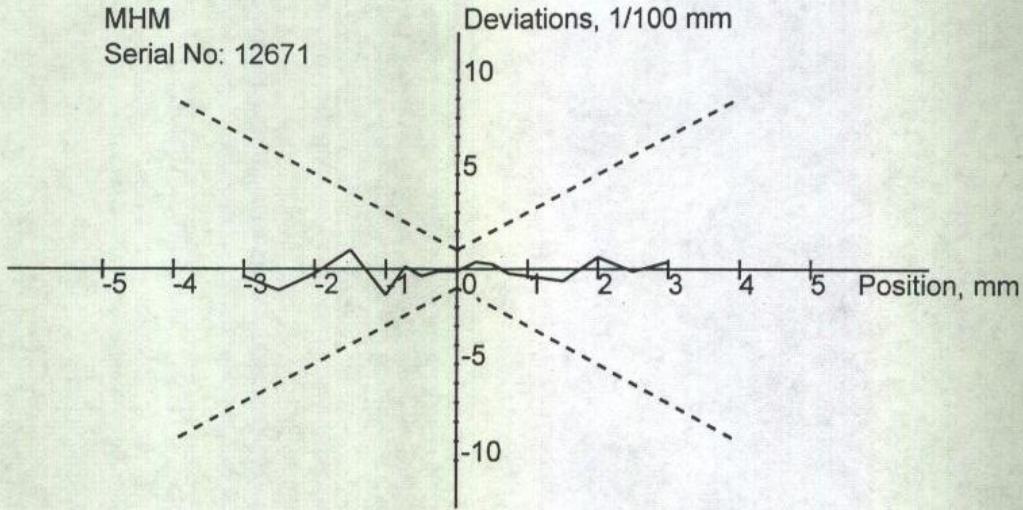
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INSTRUMENT TYPE	: Shaft Alignment Tool ShaftHog
CALIBRATION	: $\pm 2\% \pm 0,01$ mm (over the measuring range of 850 mm).
LASER CLASSIFICATION	: Complies to SS-EN-60825-1-1994, laser class 2 (as tested by the Swedish Testing Institute).
MEASURING UNIT-MOVEABLE	
PRODUCT DESIGNATION	: TD-M ShaftHog
SERIAL NUMBER	: 12671
PROGRAM VERSION	: 1.0
MEASURING UNIT-STATIONARY	
PRODUCT DESIGNATION	: TD-S ShaftHog
SERIAL NUMBER	: 12671
PROGRAM VERSION	: 1.0
OPERATIONAL CHECK	: Pass
PHYSICAL CHECK	: Pass
SUBMITTED BY	: Vibralign, Inc
AUTHORISED SIGNATURE	: 
TEST EQUIPMENT USED	: Equipment for calibration, identification no: FL 40-047/FL 40-053.
CALIBRATED AGAINST	: Optodyne LDDM snr. 9204000831 calibrated by the Swedish National Testing and Research Institute and traceable to their iodine-stabilised He-Ne laser (SP2).
TRACEABILITY	: The measurements are traceable to the definition of the metre through regular calibration of the standards and equipment.
EXPIRY DATE	: 2 years after date of issue.

Measuring protocol

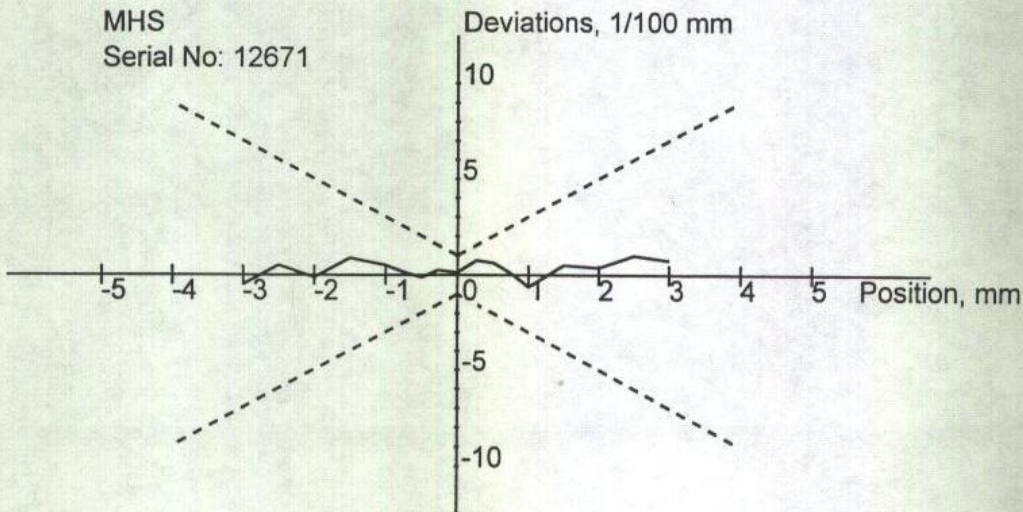
MHM
Serial No: 12671



Max absolute error: 0,01mm

Position mm	Deviation, mm
-3,00	-0,00
-2,50	-0,01
-2,00	-0,00
-1,50	0,01
-1,00	-0,01
-0,75	0,00
-0,50	-0,00
-0,25	-0,00
0,00	0,00
0,25	0,00
0,50	0,00
0,75	-0,00
1,00	-0,00
1,50	-0,01
2,00	0,01
2,50	0,00
3,00	0,00

MHS
Serial No: 12671



Max absolute error: 0,01mm

Position mm	Deviation, mm
-3,00	-0,01
-2,50	0,01
-2,00	-0,00
-1,50	0,01
-1,00	0,01
-0,75	0,00
-0,50	0,00
-0,25	0,00
0,00	0,00
0,25	0,01
0,50	0,01
0,75	0,00
1,00	-0,01
1,50	0,00
2,00	0,00
2,50	0,01
3,00	0,01

Calibrated: 20060327

SW Ver: 2.1

Signature: AW

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