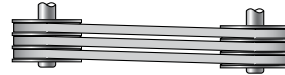


## SHEAVE / PULLEY ALIGNMENT

*For use in potentially explosive environments (ATEX/Ex)*



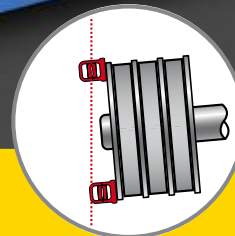
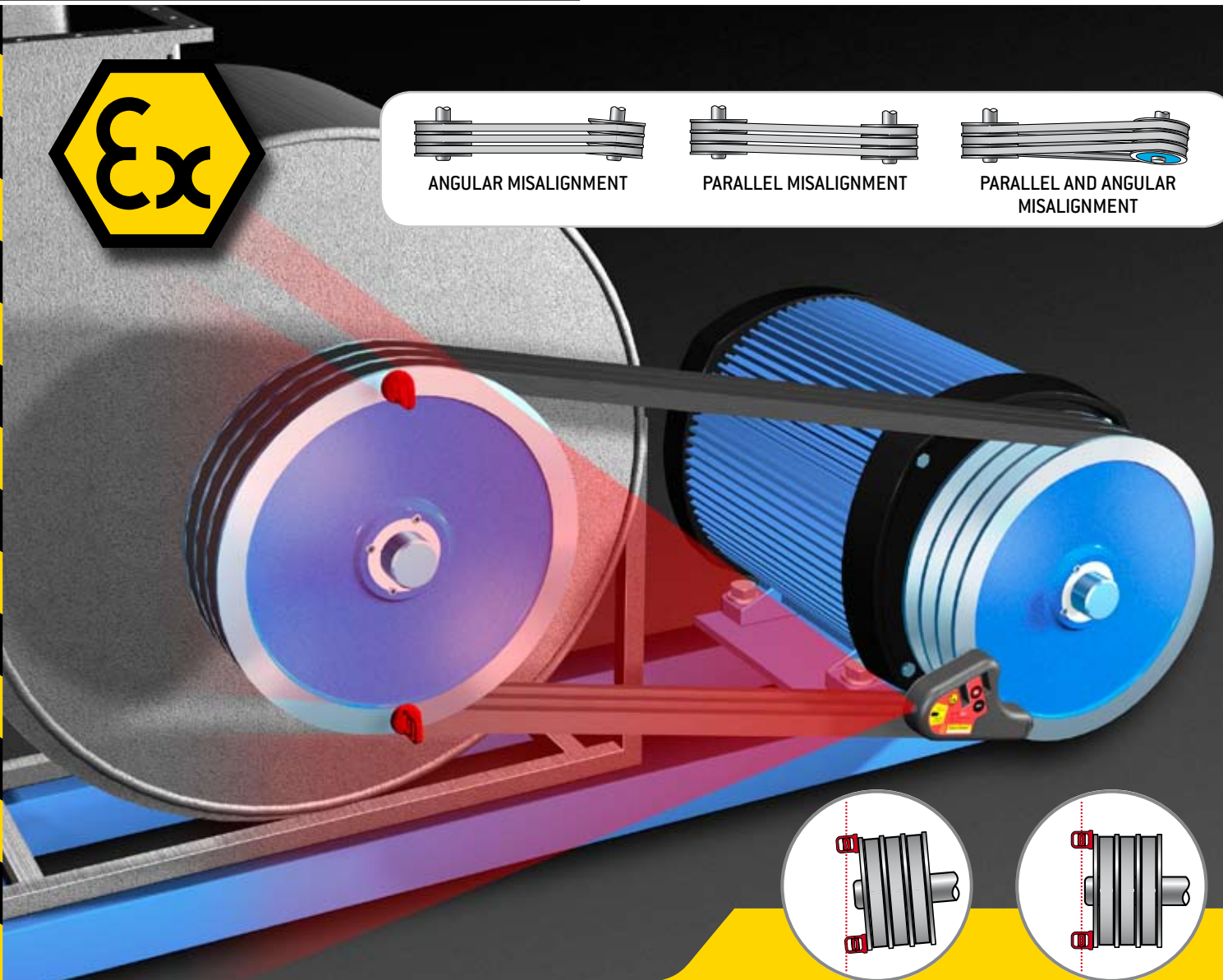
ANGULAR MISALIGNMENT



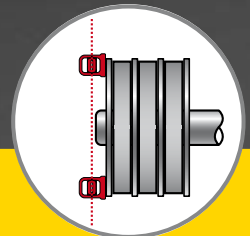
PARALLEL MISALIGNMENT



PARALLEL AND ANGULAR MISALIGNMENT



MISALIGNED



ALIGNED

- Intrinsically safe and approved for use in potentially explosive environments.
- Shows the parallel and angular misalignment between the sheaves.
- Much faster and more accurate than measuring with earlier, conventional methods.
- For both horizontal and vertical mounted machines.
- Alignment can be made by one operator.
- Also suitable for non-magnetic sheaves.
- Fits almost any kind of sheaves:

Easy-Laser® BTA is the perfect tool for sheave and pulley alignment. Mounted in a few seconds, the laser line projected onto the targets allows you to quickly ascertain and correct the misalignment. It couldn't be easier!



V-BELTS



FLAT BELTS



TIMING BELTS



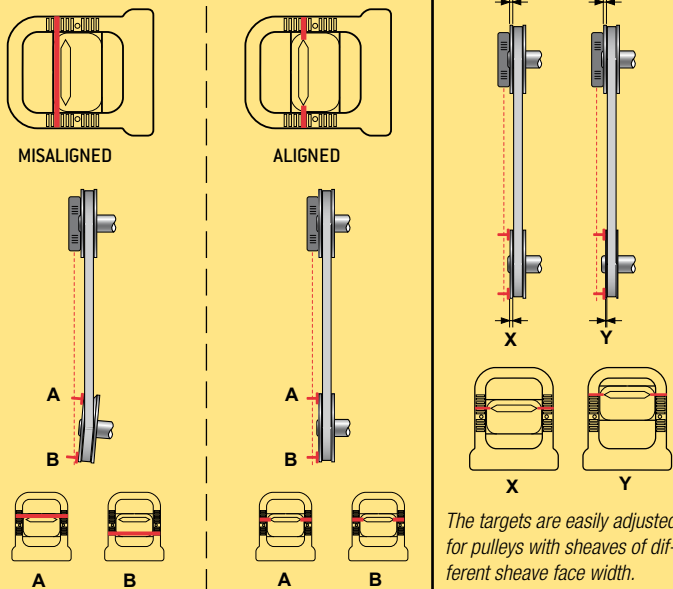
CHAIN DRIVES



### EASY FOR THE USER

The tool is attached in a few seconds, and you can easily see the laser line projected on the targets. When the line lies in the slots of the targets, the machine is in the right position. The result is a fast, precise alignment.

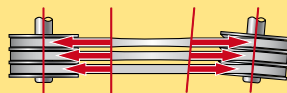
(Example of pulley alignment.)



The targets are easily adjusted for pulleys with sheaves of different sheave face width.

### LARGE COST SAVINGS

Transmissions with two or more belts, or wide belts, are highly affected by misalignment, causing large differences in belt tensions and also increased wear and tear on edges. When aligning with the Easy-Laser® BTA you reduce the wear on sheaves/pulleys, belts, bearings and seals as well as reducing vibration. Increased efficiency also means large energy cost savings.



### TECHNICAL SPECIFICATIONS Complete tool: Part.Nr. 12-0400

|                          |  |
|--------------------------|--|
| <b>Laser transmitter</b> |  |
| Sheave diameters         | Ø 60 mm [2.5"] and larger  |
| Sheave thickness         | Not depending on sheave thickness  |
| Beam angle               | 60°  |
| Measurement distance     | 10 m [33 feet]   |
| Battery type             | SAFT LS14500, 3,6 V Lithium  |
| Battery operation        | >24 hours continuously   |
| Laser class              | 2  |
| Output power             | <1 mW  |
| Laser wavelength         | 635-670 nm   |
| Housing material         | ABS plastics/Hard anodized aluminium   |
| Dimensions               | WxHxD: 145x86x30 mm [5.8"x3.4"x1.1"]   |
| Weight                   | 0.27 kg [8.6 oz]   |
| <b>Targets</b>           |  |
|                          | 2 pcs. magnet targets  |
| <b>Feature</b>           |  |
|                          | Because of its light weight it can be mounted on non-magnetic sheaves with double sided adhesive tape.                                       |
| <b>Calibration</b>       |  |
|                          | The laserline generated by the tool is calibrated parallel to the reference surface. Accuracy: Offset < 0.2 mm [0.008"], Parallelity < 0.05° |

Patent; USA: US 7,042,561 China: ZL99813151.2 Japan: 3655827  
 Patent pending; EU: PCT/SE/02034 USA: 11/289,755

Easy-Laser® is manufactured by Damalini AB, Åbäcksgatan 6B, 431 67 Mölndal, Sweden,  
 Phone +46 31 708 63 00, Fax +46 31 708 63 50, email: info@damalini.se, www.damalini.com  
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 Easy-Laser® is a registered trademark of Damalini AB.

### ATEX APPROVED AND IECEx CLASSIFIED



Intrinsically safe products are used in a number of industries: Petrochemical, Oil/Gas, Refineries, Pharmaceutical, Paper mills, Bulk materials such as grain, fertiliser, sugar and salt mills, diverse Chemical industries such as the manufacture of Dyes and Bleaches. The list goes on and on.  
 Easy-Laser® D130 BTA Ex is approved in accordance with the latest ATEX directive and classified in accordance to IECEx regulations.

EX certificate number: Nemko 06ATEX1235X

IECEx-certificate number: IECEx NEM 06.0003X

ATEX code: II 2 G

EX classification: EEx ib IIC T3 Ta: -10-50 °C / Ex ib IIC T3 Ta: -10-50 °C

II=Indicates that the instrument is approved for all areas except mines  
 2=Unit category. Intrinsically safe equipment for zones 1 and 2 (likely occurrence of explosive atmosphere)

G=Indicates atmosphere: Gas, Vapours, Mists

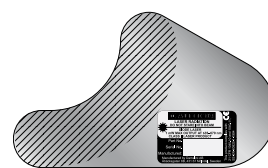
EEx=Explosion protection based on European standards

Ex=Explosion protection based on International standards

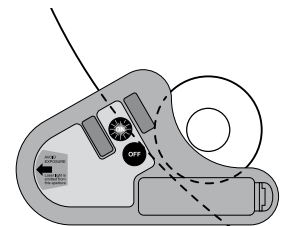
ib=Type of protection from an explosion

IIC=Explosion group

T3=Temperature class



Magnetic reference surface on both transmitter and targets for easy attachment to the sheaves.



Easy-Laser® BTA fits small as well as large sheaves.



Small, padded transportation bag fits easily in any tool case.



Belt clip on back side.

### Authorized dealer

This product complies with:  
 SS-ENG0825-1-1994,  
 21 CFR 1040.10 and 1040.11

**CAUTION**  
 LASER RADIATION  
 DO NOT STARE INTO BEAM  
 DIODE LASER  
 1 mW MAX OUTPUT AT 670 nm  
 CLASS II LASER PRODUCT

CE 0470