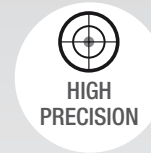


# D800

## SPIN LASER SYSTEM



### MEASURE FASTER THAN EVER

Our SpinLaserTechnology™ reduces the time spent for measurement and alignment drastically. Briefly described it works as this:

The laserbeam from the transmitter rotates constantly and "builds" a reference plane in space. Select your measurement points anywhere within the laser sector, place the detector and register the values. It is easy to see how straight, flat or parallel the object is compared to selected reference points.

The system is perfect for measuring straightness, flatness, parallelism, dynamical movements as well as horizontal and vertical planes at Machine tables, Foundations, Flanges, Machine constructions, Rolls etc.

If wanted you can also read measurement values live (dynamic measurement) with up to four detectors connected in series and at the same time to see how the object is bending/twisting at each measurement point, e.g. when doing the adjustment.

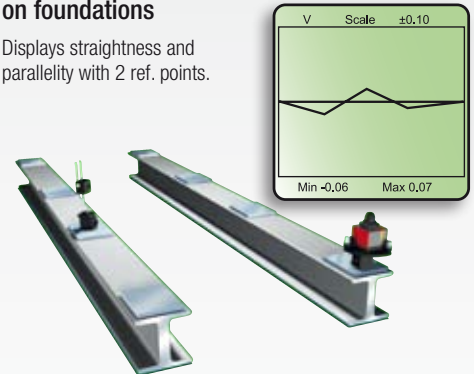
### Flatness on flanges

Displays flatness with 3 ref. points at 120° in between.



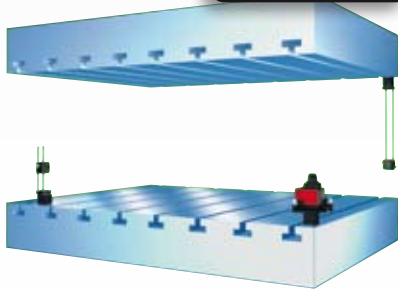
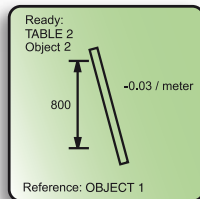
### Plane parallelism and straightness on foundations

Displays straightness and parallelity with 2 ref. points.



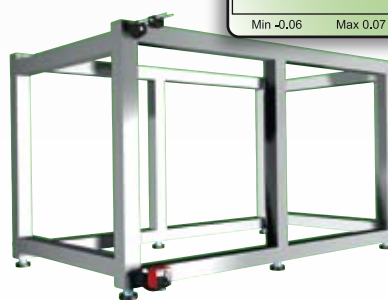
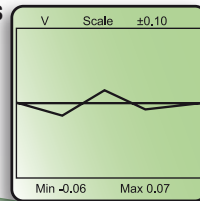
### Plane parallelism on press tables

Displays parallel error between the press tables.



### Straightness and flatness on machine constructions

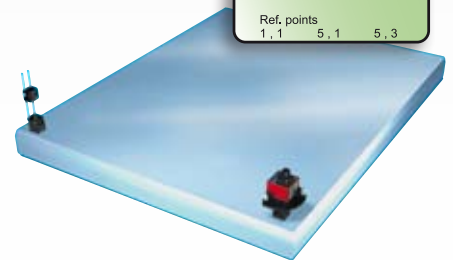
Displays straightness and flatness.



### Flatness on machine tables

Displays flatness with 3 ref. points.

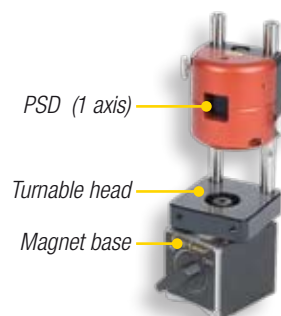
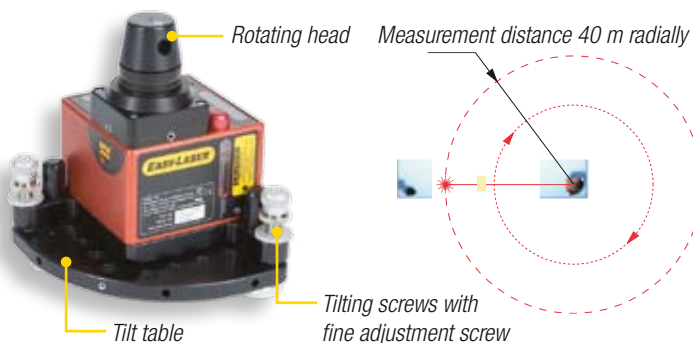
Ready:	
X1 ,Y2	V 0,14
X2 ,Y2	V 0,47
X3 ,Y2	V 0,68
X4 ,Y2	V 0,64
X5 ,Y2	V 0,42
X1 ,Y3	V 0,13
X2 ,Y3	V -0,06
X3 ,Y3	V -0,22
X4 ,Y3	V -0,28
X5 ,Y3	V 0,00
Ref. points	
1 , 1	5 , 1
	5 , 3



## GEOMETRICAL MEASUREMENT

Straightness – Flatness – Parallelism

# EASY-LASER®



The D23 laser transmitter has a motor driven rotating head performing a 360° laser plane. Measurement distance 40 metres [130] in radius.

The D6 detector is designed to read measurement values from a spinning laser.

**THE MEASUREMENT PROGRAMS**

The Display unit has all our programs included, of which 5 takes advantage of the SpinLaserTechnology™. As your measurement needs increase you can add suitable equipment. For detailed information, please see our other brochures.



**Measurement programs for SpinLaserTechnology™ working with laser D23 and detector D6:**

**STRAIGHTNESS** – Universal straightness program. Any measurement points can be used as references. Handles up to 150 measurement points with 2 arbitrary zero points.

**FLATNESS** – Universal flatness program. Handles up to 300 measurement points with 3 zero points.

**FLANGE** – For measurement of flatness on flanges and circular planes, for example axial bearings. Measures up to 300 points, on inner and/or outer circle. 3 zero points at 120° pitch are computed by the system.

**PARALLELISM** – For measuring between rolls, machine sides etc. Handles up to 150 rolls or other objects. Baseline or roll can be chosen as reference. Each measurement object is given a specific name.

**VALUES** – Shows values live from 1– 4 detectors connected in serie. The values can be zeroed individually. Suitable for dynamic measurements.

**Other measurement programs and functions included:**

- SQUARENESS**
- SPINDLE**
- HALF CIRCLE**  
(straightness)
- PLUMBLINE**
- CENTER OF CIRCLE**  
(straightness)
- HORIZONTAL**  
(shaft alignment)
- BTA DIGITAL**  
(belt transmission alignment)
- EASY-TURN™**  
(shaft alignment)
- SOFTFOOT**  
(shaft alignment)
- VERTICAL**  
(shaft alignment)
- CARDAN**  
(shaft alignment)
- OFFSET AND ANGLE**
- MACHINE TRAIN**  
(shaft alignment)
- THERMAL GROWTH COMPENSATION**  
(shaft alignment)
- REFLOCK™**  
(shaft alignment)
- VIBROMETER**  
(vibration level and g-value)
- TOLERANCE CHECK**  
(shaft alignment)
- MEASUREMENT VALUE FILTER**  
(sub function)

**WARRANTIES AND SERVICE CONCEPT**

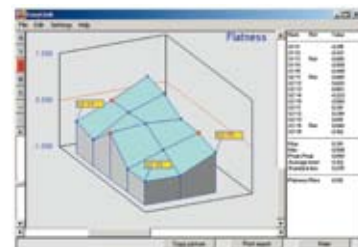
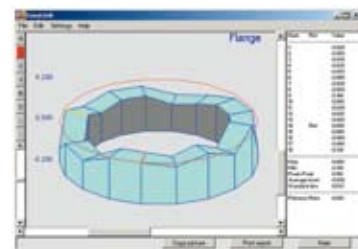
The Easy-Laser® systems have evolved over more than 25 years, through field experience in solving measurement and alignment problems. The systems come with a 2 year limited warranty. The manufacturing and quality systems are ISO9001 approved. If an incident should occur, our service department normally handles repairs and calibrations within five working days. This combination makes Easy-Laser® a reliable partner for your business.



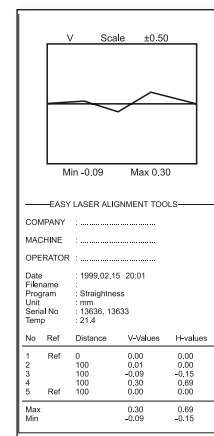
**DOCUMENTATION**



**SEND DATA TO PC**  
With the EasyLink™ Windows® program (included) you can make professional reports with both pictures and measurement data, export to spreadsheets like Excel® and try different settings of reference points to optimize your adjustment and tooling work.



**MAKE A PRINTOUT**  
You get all measurement data on the printout for fast documentation.



MEMORY MENU		
1	2003.01.27	17:14
TABLE 2		
2	2003.01.27	10:09
FOUNDATION		
3	2003.01.26	11:34
FLANGE LARGE		
4	2003.01.17	14:09
FLANGE 122		
Page 1 of 3		

**STORE IN THE DISPLAY UNIT**  
You assign a specific name, then the system adds date and time automatically.

**EASY-LASER® D800 MACHINE**

Part.Nr. 12-0220

- 1 Display unit D279
  - 1 Detector D6
  - 1 SpinLaserTransmitter D23
  - 2 Cables with Push/Pull-connection (2m, 5m)
  - 1 Magnet base (for laser transmitter)
  - 1 Magnet base (for detector)
  - 2 Targets (for levelling)
  - 1 EasyLink™ Windows® program + PC cable
  - 1 Measuring tape
  - 1 Manual
  - 1 Leatherette
  - 1 Carrying case
- Accessories: Rough alignment target, Printer etc.*



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 © 2009 Damalini AB. We reserve the right to make modifications without prior notification. Easy-Laser® is a registered trademark of Damalini AB. This product complies with: SS-EN60825-1-1994, 21 CFR 1040.10 and 1040.11

