

D630

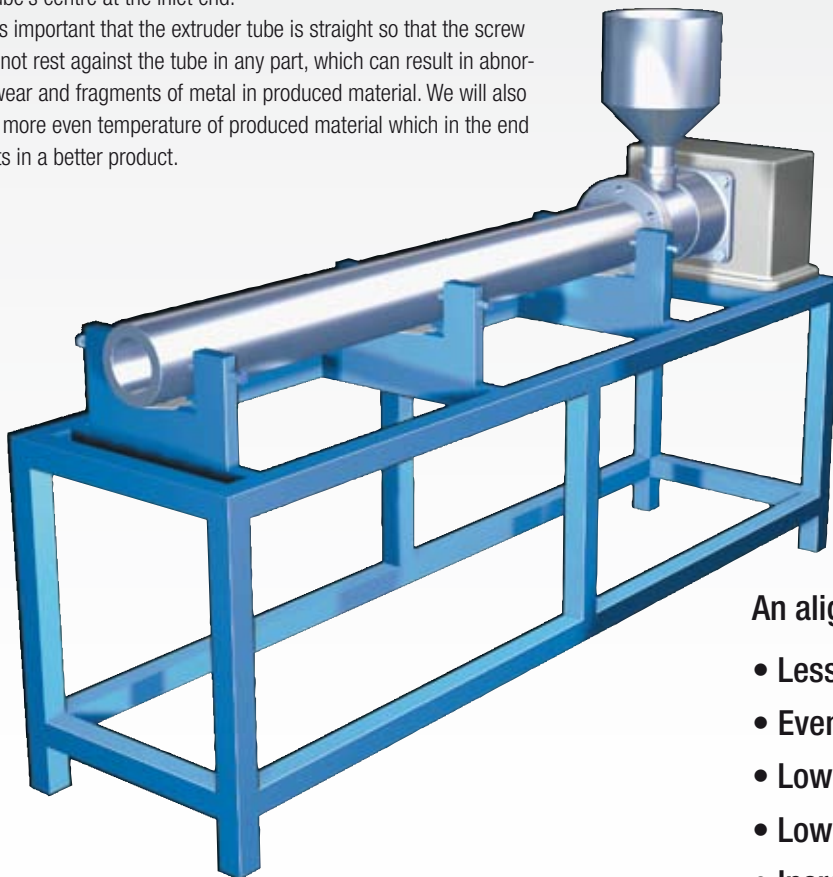
EXTRUDER SYSTEM



IT'S ALL ABOUT STRAIGHTNESS

The gearbox shaft centre must coincide with the centre line of the extruder tube. Otherwise the screw at the inlet's end will be pressed against the tube, which will lead to abnormal wear of both screw and tube along with an increased energy consumption. This wear can also result in metal fragments in the produced material. During the alignment procedure we rotate both detector and spindle. This way we can read how the centre line of the spindle is compared to the tube's centre at the inlet end.

It is important that the extruder tube is straight so that the screw does not rest against the tube in any part, which can result in abnormal wear and fragments of metal in produced material. We will also get a more even temperature of produced material which in the end results in a better product.



Laser transmitter on the gearbox spindle.



Detector with adapters in the tube.

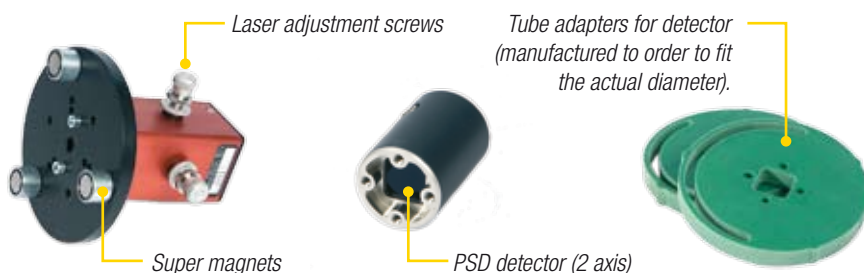
An aligned extrusion machine leads to:

- Less wear on the extruder screw and tube.
- Even quality on the produced material.
- Lower energy consumption.
- Lower consumption of spare parts.
- Increased availability on machine time.

EXTRUDER ALIGNMENT

Measurement and alignment of extrusion machines.

EASY-LASER[®]



Laser transmitter D75 has a measurement distance of 40 m [130']. Powered by one 1.5 V R14 (C) battery.

With detector D157 tubes with diameters down to 42 mm [1.65"] can be measured. 2 axis PSD and built-in 360° electronic inclinometer.



QUICK AND ACCURATE MEASUREMENT

The Extruder system D630 is designed to measure straightness and pointing direction, primarily on extruder pipes. Another application can be hydraulic pipes for example. The well-thought-out design of the system ensures that the measurement procedure is quick and accurate. Diameters down to 42 mm [1.65"] can be measured (accessory detector available for diameters down to 20 mm [0.79"]).

Characteristics and functions:

- Possible to offset the reference line in the measurement program.
- Handles up to 150 measuring points for straightness.
- Program that guides you through the measuring procedure speeds up work.

THE FOUR STEPS OF ALIGNMENT

Alignment of motor – gearbox

The alignment of the transmission between motor and gearbox is performed with for example Easy-Laser® Shaft alignment measuring units (accessories).

Alignment of the gearbox shaft centre – extruder tube inlet

Alignment of the gearbox shaft centre compared to the centre line of the extruder tube at inlet. Performed with Easy-Laser® Extruder system.

Alignment of the gearbox shaft centre – extruder tube outlet

Alignment of the gearbox shaft centre compared to the centre line of the extruder tube at outlet. Performed with Easy-Laser® Extruder system.

Straightness measurement of the extruder tube

Performed with Easy-Laser® Extruder system.

EXPANDABLE

Since all programs are included in the software of the display unit, the Easy-Laser® D630 system can be expanded to suit your special needs, both now and in the future. You just add the appropriate accessories such as lasers, measuring units for shaft alignment and other fixtures. For detailed information, please see our other brochures.

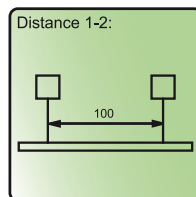


Measurement programs and functions in the display unit:

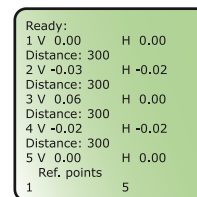
	PARALLELISM		FLATNESS		STRAIGHTNESS
	VALUES (digital dial indicator)		FLANGE (flatness)		MEASUREMENT VALUE FILTER (sub function)
	SQUARENESS		SPINDLE DIRECTION		HALF CIRCLE (straightness)
	PLUMBLINE		CENTER OF CIRCLE (straightness)		HORIZONTAL (shaft alignment)
	BTA DIGITAL (sheave/pulley alignment)		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)		

EASY TO USE

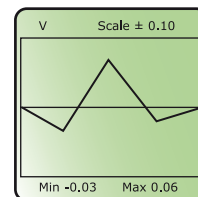
You are guided step-by-step on the display through the whole measurement process (Brief description below). After finished measurement the results are displayed digitally and graphically on the display unit.



Enter the distances between the measurement points.



Record the values. Result digitally displayed.



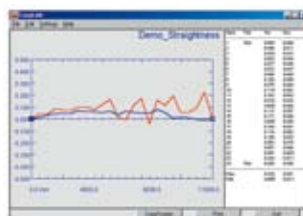
Result as graph.

DOCUMENTATION

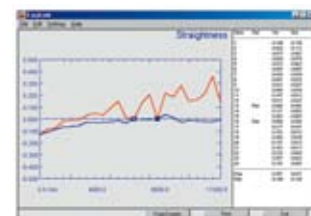


SEND DATA TO PC

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.



First and last point as references



Point 13 and 16 as references



STORE IN THE DISPLAY UNIT

You assign a specific name, then the system adds date and time automatically. Up to 150 points or other objects can be stored.



MAKE A PRINTOUT

You get all measurement data on the printout for fast documentation.

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.



EASY-LASER® D630 EXTRUDER

Part.Nr. 12-0193

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|---|---|
| 1 Display unit D279 (27 programs) | 1 Protective case for display unit |
| 1 Laser transmitter D75 | 1 EasyLink™ Windows® program and PC cable |
| 1 Detector D157 | 1 Carrying case |
| 1 Bracket for D75 with magnets | |
| 1 Set of adapters for detector | |
| 1 Set of extension rods for detector fixture (6m) | |
| 1 Large target Extruder | |
| 2 Cables with Push/Pull connectors (2m, 5m) | |
| 1 Manual | |
| 1 Measuring tape | |



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

