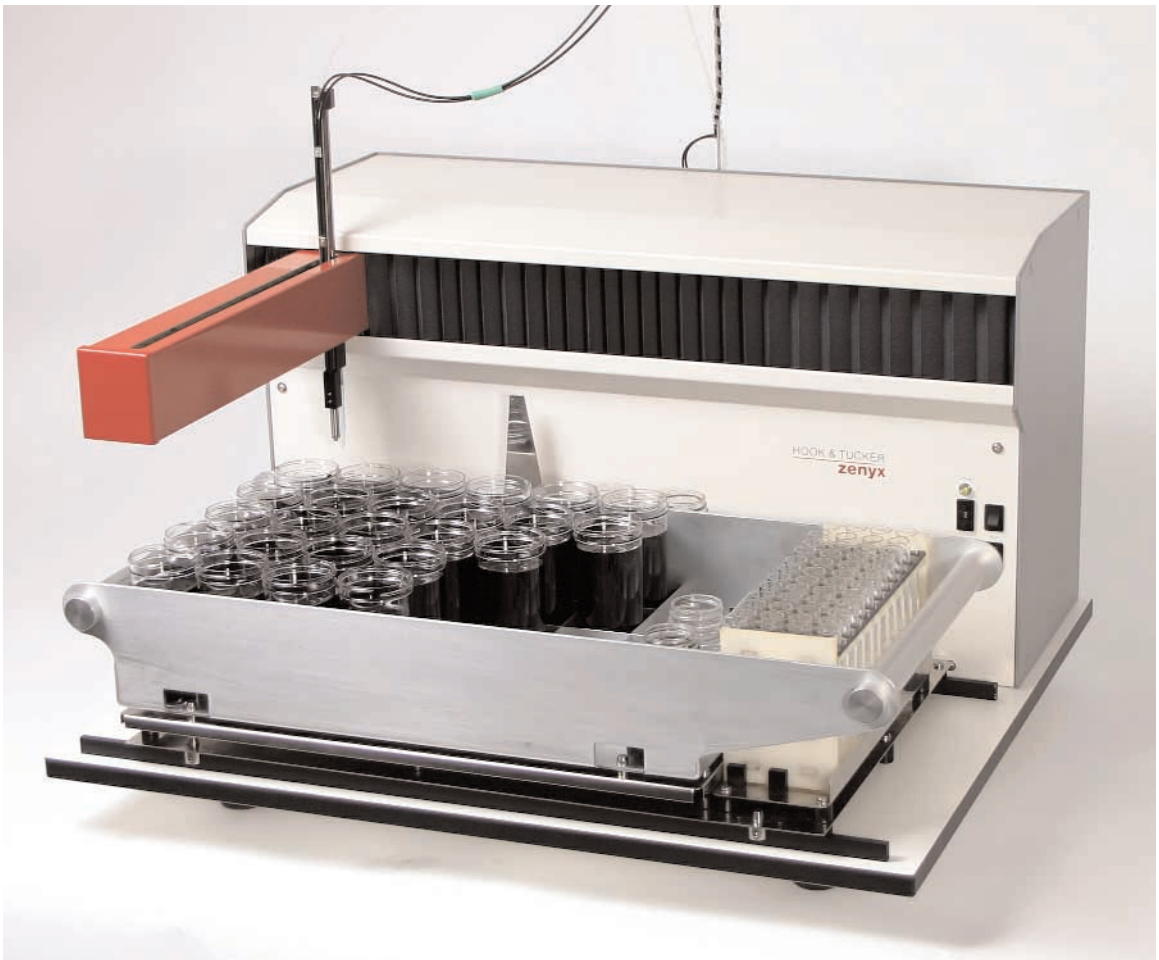
BEELINE 300 LD

For total flexibility in preparing oil dilutions

The Beeline 300 LD is an automated robotic sample processor specifically designed for the preparation of oil dilutions. It is particularly suitable for laboratories performing wear analysis by trace metal measurements of oil samples.



- Easy to set up and use
- Capacity for 40 samples (120 mls)
- Optical level detector for minimal probe contamination
- Advanced probe washing
- Custom rack options
- Comprehensive data logging
- Compatible with Gilson racks
- Operates “Stand-alone” or with a PC for maximum flexibility
- Robust and reliable
- Cost-effective

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The Beeline 300 LD is a compact and highly flexible instrument providing cost-effective automation for the dilution of oil samples. It incorporates a variety of features which have been optimised for the processing of these notoriously “awkward” samples.

One of the essential properties of an oil is to cling to a surface to achieve its lubrication role. This feature, combined with the wide range of viscosity's associated with fuel oils through to heavy gearbox oils, adds to the problem of total sample removal when dilution ratios as low as 1:10 are required. When used oils are involved, contaminants also compound the problem.

ADVANCED FEATURES

The Beeline 300 LD solves these problems using a number of advanced features.

- Optical level detector to detect liquid level accurately
- Automatic liquid tracking to minimise probe tip submersion
- Advanced probe washing routine to minimise carryover using radial spray wash for oil elimination from the probe tip

EASY TO USE

The Beeline 300 LD operates quite happily without an external computer, i.e. in a stand-alone mode. The on-board computer controls all pipetting tasks. After priming the system, a program is selected using the selector on the front panel of the instrument and the start button is pressed. The Beeline 300 LD will then dilutes samples until it reaches an empty sample position at which point more samples may be added.

PC CONTROL OPTION

A special software application which runs on an external PC can also be used to control the instrument extending its capabilities further and providing additional flexibility.

When driven by the PC the graphical interface provides the operator with continuous information on the progress of the batch. The display shows which tubes have been processed and also indicates whether any errors, such as insufficient sample, have been encountered.

FLEXIBLE LAYOUT

If using the Beeline 300 LD with an external PC defining new rack layouts is made easy using the Beeline 300 LD “Virtual Joystick”, which gives direct control over the probe’s position. New rack configurations can be defined simply by driving the probe to a number of key positions and pressing the "Fire" button to record the coordinates. Any number of rack configurations can be defined in this way.

COMPACT FOOTPRINT

Although small, the Beeline 300 LD boasts an impressive capacity, helping you to maximise the use of your limited bench space. Taking up a mere 660mm of bench space it still has the capacity to process (unattended) batches of up to 40 samples with a diameter of 52 mm. Using smaller containers increases the capacity further.

THROUGHPUT

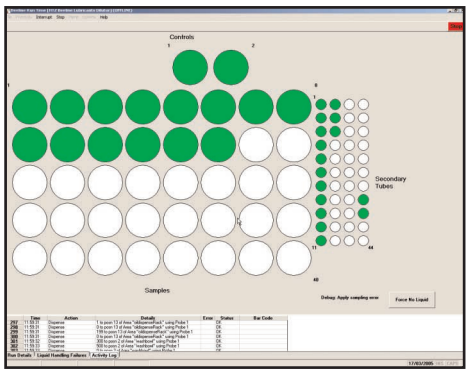
The standard program for the Beeline 300 LD has been optimised for reliable, consistent and precise dilution of a wide range of oil samples within one batch and processes at a rate of approximately 60 dilutions per hour. Alternative operating programs are available where a higher throughput rate is achieved with a slightly increased risk of carry over when the most viscous oils are encountered.

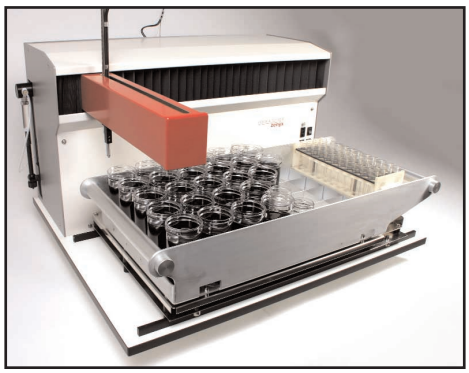
RELIABLE AND ADAPTABLE

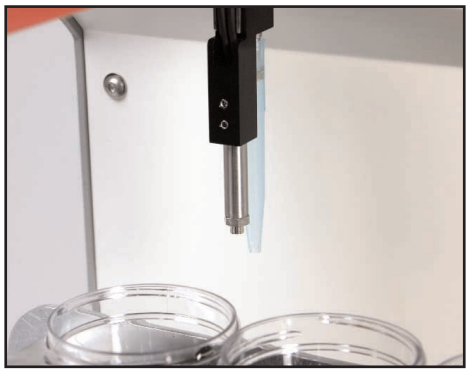
The Beeline 300 LD is based on reliable and well- proven technology incorporated into over a thousand analysers worldwide. The robust design combined with its highly flexible software ensures that it will remain an essential and dependable workhorse in your laboratory for many years to come.

FEEDER UNIT

Another specialised version of the Beeline is available for processing oil samples. The Beeline 300 FD can be used as an on-line sample feed unit, which operates at the optimum rate of an AAS or ICP. This incorporates a stirring paddle for mixing diluted samples immediately prior to aspiration.







Software requirements
Operating System: Windows XP

Minimum Computer requirements
Processor 300Mhz, 64MB RAM, Sound Card, CDRW, Serial Port

External Dimensions
560mm(W) x 560mm(D) x 440mm(H)

Probe Working Area
X= 480mm Y=280mm

For further information please contact:

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