

AREA MEASURING



MSA

area measurement and pattern calculation systems
for finished leather

RAPID, ACCURATE AND EASY AREA MEASUREMENT

TableScan and **PatternPlan** are both simple electronic measuring machines that give the leather user or tanner a rapid, accurate measurement of finished leather. User-friendly operation, coupled with little or no maintenance, provides the customer with a trouble-free, reliable solution to area measurement and pattern scanning.



- Systems are quick, accurate and versatile - glass tables enable measurement of rough veg-tanned leather (which is too hard to go through a roller type machine). Raw material purchases can be managed more efficiently.
 - Enormous savings in time over manual systems.
- Cutting allowances are reduced as leather area is known so accurately. Subsequently, there is less material wastage.
 - "Scan Area" (up to 9999ft² or 9999dm²) or "Scan Skin" (number of skins from 1 to 9999) operating modes.
 - Automatic pattern scanning enables new pattern designs to be costed quickly and accurately.
- Low maintenance - a series of test modes enables the operator to set measuring resolution, check printer and pinpoint any problems.
- Printed records or option to connect to a computer via the RS 232 provided.
 - Supplied with a calibration test mat of known area.

PATTERN SCANNING

TableScan and **PatternPlan** both feature automatic scanning systems for pattern calculation and costing, designed to eliminate the guesswork commonly associated with costing exercises.

The operator simply lays patterns on the glass table, interlocking them in the normal way, and then passes the measuring head over. Gross area, net area and percentage waste can be instantly displayed. Many different interlocking arrangements can be tried before settling for the most economic - and on an accurate basis.

Two operating modes - "leather" and "synthetic" - enable the operator to calculate costs and raw material requirements regardless of the material being used.

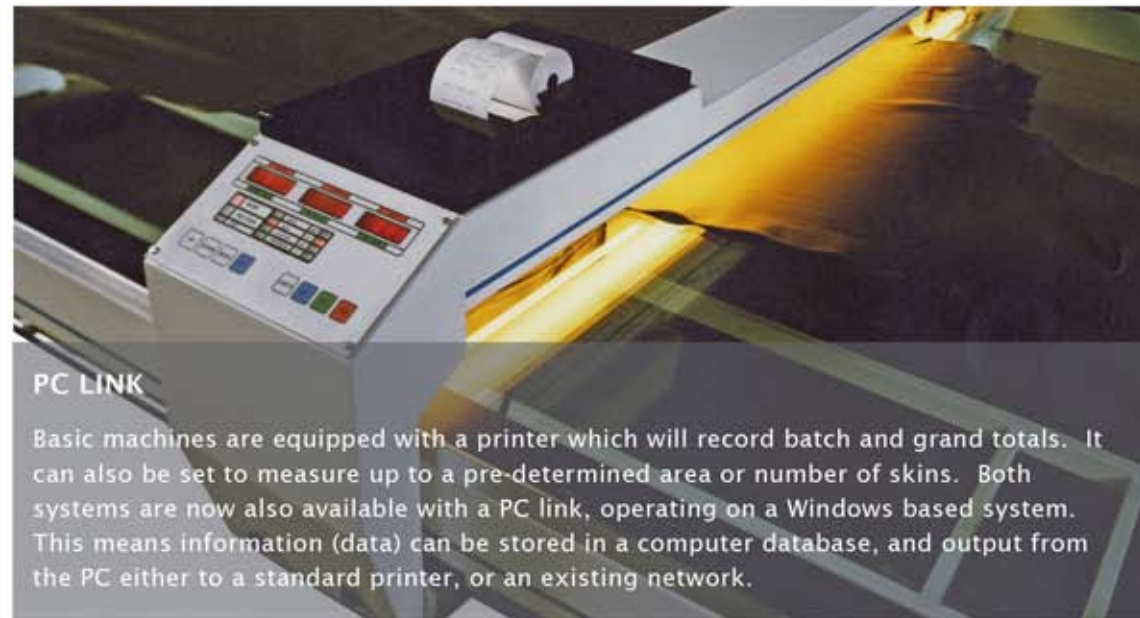
PRINCIPLE OF OPERATION

The skin to be measured is spread out on the glass table. The measuring head is moved along its bearing track over the skin. It has two projecting arms, one below the glass table and one above. The upper arm houses a lamp which projects a beam of light through the glass table to the lower arm, which contains a row of electrical devices.

A sensing device mounted in the end of the sensor bar registers the longitudinal movement as it passes over a graduated scale on the front inside face of the machine. Electrical signals from both sources are co-ordinated, processed and the result appears on a digital display of square feet, square decimeters or square inches.

When the machines are set up in the scan or pattern mode, the area readout remains on the display until the completion of the next measurement. Measuring can be carried out in both directions so that one skin can be measured from left to right, but, when this is replaced by the next skin, the direction of the scan is reversed.

TableScan maximum measuring area is 3250mm x 1500mm. PatternPlan maximum measuring area is 1400mm x 600mm.



PC LINK

Basic machines are equipped with a printer which will record batch and grand totals. It can also be set to measure up to a pre-determined area or number of skins. Both systems are now also available with a PC link, operating on a Windows based system. This means information (data) can be stored in a computer database, and output from the PC either to a standard printer, or an existing network.



MSA ENGINEERING SYSTEMS LIMITED, 3 Assured Drive, Thurmaston, Leicester, LE4 8BB, United Kingdom
 phone +44 (0)116 260 8866 | fax +44 (0)116 260 8861 | sales@msa-engineering.co.uk | www.msa-engineering.co.uk
 Registered Office: 12 Shibden Hall Croft, Shibden Hall Road, Halifax, W. Yorkshire, HX3 9XF, UK | Registered No. 2636196 England

