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ISOTROPIC - SP391

Manufactured by  and converted by Servicom Pacific
Novurania: Ahead of Our Times

Application

Recommended For: All carton/sheetfed web offset applications.

The isotropic carcass construction enables the converter to work with reduced inventory levels, since it allows blankets to be cut in wrap or weft direction without elongation problems and hence yield minimum cutting waste. Suitable for webfed and sheetfed applications this blanket is also eminently suited for a narrow gap, minigap, spot varnish and coating profile applications.

Features

The 303 Revolution (U.S. Patent n. 6,019,042 and other international Patents Pending) is a completely new concept in offset blanket technology and design, developed to overcome some of the more common printing problems caused by shortcomings in existing blanket structures. Its "revolution" lies in the fact that the isotropic carcass has a very much lower stretch than that of comparable common multi-ply constructed blankets. The advantages of this revolutionary low stretch factor are:

- ☐ Virtually zero gauge loss occurs during initial tensioning and mounting on the press, hence the 303 Revolution requires less underpacking than all other existing compressible blankets and is underpacked as a conventional blanket for optimum print performance.
- ☐ The virtual zero gauge loss during mounting eliminates the need for re-tensioning and facilitates equal peripheral cylinder speeds (i.e. Perfect Dynamics) giving a satisfactory initial print quality which is easier to maintain.
- ☐ Dot gain is greatly reduced (4-6%) which reduces the pre-press compensation requirement to plates.
- ☐ Better screen definition with superior registration control.

However this new "Revolution" provides within its carcass construction, other unique features in addition to the revolutionary low stretch factor:

- ☐ Stripping out the upper part of the carcass at the gripper edges of a cut blanket still leaves sufficient strength and thickness to enable it to be installed directly into a mini-gap technology press, without the need to attach the blanket to an aluminum base sheet.
- ☐ Stripping out the upper part of the carcass in localised areas leaves clean, even recesses for coating and spot varnishing applications. The revolutionary low stretch carcass also permits reuse of the varnish/coating blanket (a feature which is not possible when existing compressible blankets are stripped out for profiling).
- ☐ The superior carcass stability and exact gauge tolerance provides improved print quality and less downtime in heatset and coldset web applications.
- ☐ The isotropic construction of the 303 Revolution ensures that blanket cutting errors cannot affect the print quality to which existing blankets are subject due to their different stretch factors in the gripper edge (across) and length (around).
- ☐ The isotropic construction also enables the printer to easily cut down a damaged blanket to a smaller size without recourse to the supplier.

Technical Data

Colour	Purple
Surface	Textured Buffed Face
Thickness	4 Ply 1.95 standard +/- .020mm (.0767" standard +/- .001")
Elongation	0,3 % weft; 0,4 % warp (under 10 N / mm load)
Microhardness	68 IRHD
Hardness	80 IRHD
Hysteresis (Compressibility)	40 mJ (on the 5th compression cycle)
Tensile Strength	2700 N / 50mm
Surface Roughness	1,0 – 1,2 um Ra
Relief Depth	1.25mm



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