HOLSCOT

TEFLON SLEEVES FOR DRYING CYLINDERS


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HOLSCOT

THE ULTIMATE NON-STICK NON POROUS SURFACE FITTED TO DRYING CYLINDERS WITHOUT REMOVAL FROM MACHINE


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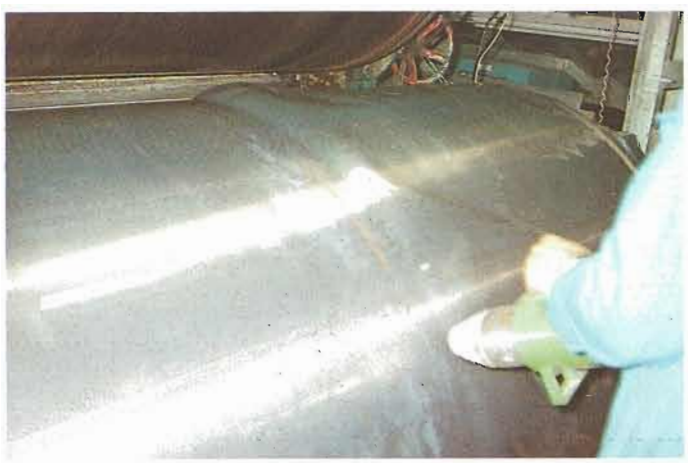
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HOLSCOT SLEEVES FOR LARGE DIAMETER ROLLERS AND DRYING CYLINDERS IN TEFLON

IMPROVE YOUR PRODUCT AND EFFICIENCY

The build up of sticky substances on the surface of drying cylinders is a major problem in industries such as the paper and textile industries. Contamination of the surface will utimately have a detrimental effect on the end product, either by dyes of previous products transferring themselves, marking off onto paper or a variety of other problems.

The removal of such exceptionally adherent materials as size, latex, adhesives or limescale is an operation which involves a great deal of extremely costly downtime while the build up is removed by time consuming procedures such as grinding or by the use of aggressive solvents which may themselves adversely affect the surface of the cylinders.

These problems can be eliminated by the use of Teflon FEP sleeves.

The sleeves provide a non stick surface which is second to none, thus eliminating build up and avoiding the necessity to use doctor blades. With certain particularly adherent substances a build up may occur but by virtue of the fact that FEP is inert to all chemicals and solvents, highly aggressive solvents can be used without fear of damaging the cylinder surface. The cleaning of the cylinders can be done in a fraction of the time and the end result is less downtime, more efficient use of production time and — even more important — a better product.

The sleeves are usually 0.5mm thick and manufactured in FEP, a melt processable equivalent to PTFE which exhibits all the same non-stick and chemically resistant characteristics. The sleeves are butt-welded using highly sophisticated equipment and techniques developed by Holscot to produce a seam which is virtually imperceptible. The sleeves are then transformed into heat shrinkable sleeves and the internal surfaces are chemically etched to provide a surface to which adhesive can grip.

The "in-situ" installation process is described below and in the photographic sequence. Sleeves can be fitted to cylinders out of the machine at a reduced cost provided rotation facilities and steam are available.

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FITTING OF DRYING CYLINDER SLEEVE "IN SITU"

Preparatory Work by Customer:—

1 The cylinder should be cleaned to a bright metal surface. Ancillary equipment in the immediate environment such as rollers, doctor blades and felts should be removed. A support bar must be mounted over the cylinder, walkways must be supplied to gain access and extra lighting may be needed if the cylinder is not illuminated.

2 The sleeve in sheet form is wrapped around the prepared cylinder and supported and the top part of the Holscot welding equipment is introduced via side access.

3 The bottom part of the welding machine is then introduced and the sleeve is then welded into a complete cover.

4 Welding equipment is withdrawn, steam is let into the cylinder to provide background heat and the sleeve is shrunk down using a large 440v 3 phase hot air gun.

5. Adhesive is injected under the cover and spread over the entire surface of the cylinder.

6 The cylinder is then heated to approximately its working temperature whilst revolving slowly and continuously so that final curing of the adhesive can take place.

LARGE DIAMETER ROLLERS

The same benefits afforded by a Teflon sleeve can be offered to rollers of **any** diameter. Our separate leaflet details our range of seamless sleeves for rollers from 1″ — 12″ (25mm — 310mm). Welded sleeves can be fitted to all other sizes of rollers from 12″ (310mm) upwards. These are fitted to any substrate of roller — rubber, steel, aluminium, chrome, glass fibre — either at your works (generally out of the machine) or at our new factory in Grantham. (7)

REPAIR SERVICE

Accidents can happen, and sometimes it may be possible that the sleeve could be mechanically damaged. In such a case, we can now offer a repair service. We can supply special thin gauge PTFE self adhesive tape which can be immediately applied to the damage to prevent propagation or ingression of liquids. Our engineer can then come to site and weld in a patch of FEP to the sleeve using welding techniques which ensure a smooth finish.

HOLSCOT

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