

## Hybrid Sleeve Adapter (HSA)

The alternative solution to the air- mandrel, is the HSA – adapter, a carrier-sleeve with an innovative structure and material, which allows the hosting of another sleeve with compressed air with the aim to bridge bigger print repeats. The reduction of the wall thickness in the range of the supported sleeves, using the adapter-technology, does not only allow easy handling but lowers the larger costs of the print sleeves. This provides a better balance and so results in higher quality printing, especially when printing at higher speeds. This system also reduces job change over times and ease of handling for the printers.

The alternative solution to optimise your product with added value, through the improvement of quality – handling – profitability.

### Structure

The adapter is built with inner- and exterior sleeves, which are connected to each other through radial supports.

The inner sleeve is built in a way, that the adapter can host print sleeves with the air cushion principle suitable for all types of presses.

The exterior sleeve, consisting of glass and or carbon - fibre, build up on the surface, which can, depending on print preference, be hard or soft type.

To obtain an optimised, cost-efficient, as well as the necessary weight-dependent solidity and stiffness values, an ideal combination of carbon-fibre and other fibre materials is selected.

Wall thickness of 17 mm to 150 mm can be achieved. Other types of construction allow thinner wall thickness as well.

According to the particular use, the adapter will be equipped with an air protection system.

### Benefits profile

Our different hybrid sleeve adapters have low weight but high stability and strength for ease of job change over and good print quality.

Our adapters are equipped with a toughened surface, which can handle the continual change of the sleeves. The print sleeves can easily be slid on and removed from the adapters.

Our adapters are not affected by changes in temperature. Precise total indicated run outs are a given guarantee. All adapters also come with a guarantee of the twisting safety of sleeves and adapters, within the operating pressure employed.

This then allows for a vibration free transmission of the printing images and high quality printing can be achieved.

Our hybrid - sleeve - adapter range meets the legitimate European laws of the APEX 95 concerning the electrical conduction and is accordingly certified.

# P O L Y W E S T

## SLEEVE SYSTEMS

### Functionality and safety

The easy assembly of the adapter and sleeve is obtained by a good air - cushion system. This is achieved with a usual air - pressure of 6- 8 bar as well as an air - volume - flow of 12 l/ s, a dynamic measurement at the air - mandrel with a cross-section of at least 10 mm is required.

Depending on the sleeve width and diameter, every adapter solution can guarantee the simple assembly due to the location of 4 radial air holes, arranged 15 mm from the edge as well as 2 axial holes apart by 180° in the centre.

The axial holes guarantee the adequate air support for the sleeves. Additionally this solution makes sure, that the assembly of the sleeves will not become more difficult even if the adapter is worn because of the constant use.

The structure of our adapter ensures that work and personal safety can be guaranteed.

Our structural solutions have in principle an air supply, which at no time can cause an over pressure situation within the adapter due to over - pressure safety release systems in the adapter.

Even if there is a damage on these air pipes, there is no risk at any time that we build up an over - pressurised body. The reason for this is there are additional unloaded holes, where the air can escape in a controlled manner.

Important note: For an optimal fitting accuracy, we need a confirmed detailed drawing of the original air mandrel, which shows the actual situation in the machine.

### Cleaning

We recommend our cleaning agents Polyflex® Clean W1, S1 or UV1 for the ideal cleaning of our hybrid - sleeve - adapter or other proprietary sleeve cleaning agents. The choice is dependent on which type of ink is being used with the hybrid - sleeve adapters.

### Storage

So that we can guarantee the function of our hybrid - sleeve - adapter over a long period of time, we recommend to store them vertical on an elastic surface (e.g. rubber mats), as well as to make sure that they are not to topple over.

### Decision for the hybrid - sleeve - adapter

The use of the adapter technology is an investment, which will pay off on later sleeve purchases. Ask for our technical consultation to demonstrate how savings can be made on later sleeve purchases. Depending on your specific needs in your company we will find you the fitting solution for printing quality and costs. With this correct combination you can optimise your printing process.

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