

Worldwide
the innovative Partner
to the Paper Industry



JOH. CLOUTH®

Quality · Made in Germany · Since 1874

CLOUTH® HS-1

A Revolution in Doctor Holder Design



Patented Doctor Holder
for all doctor blade materials!

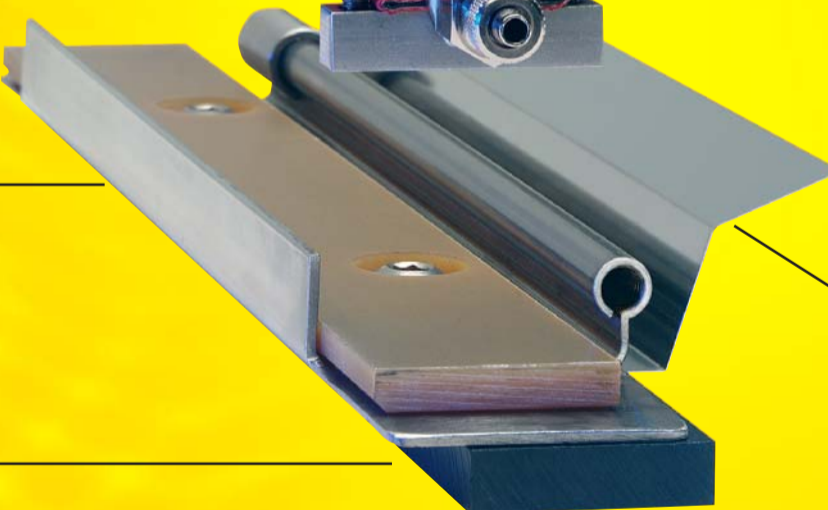
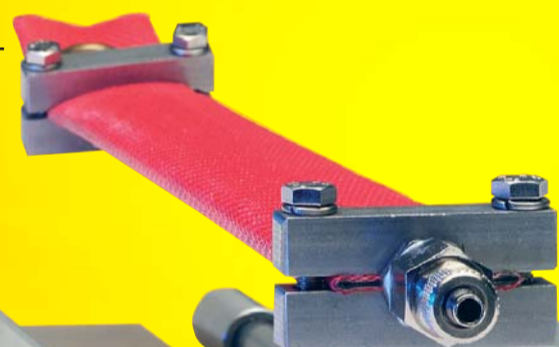
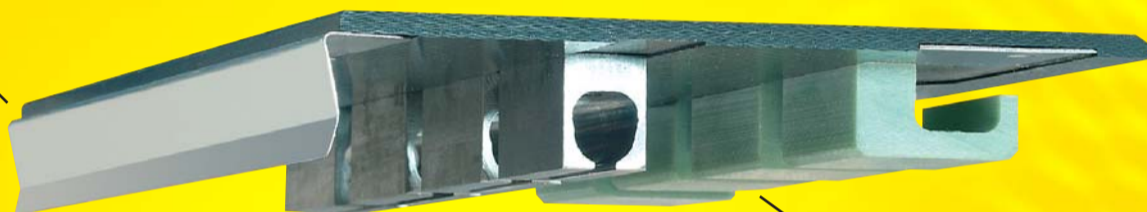
Top plate
with special carbon fibre
construction,
 available in thicknesses
 of either 3 or 4 mm,
 acid and heat resistant

Available with
 the choice of
CLOUTH-AIRFLEX® 80/100
flexible pressure tubing or
CLOUTH-AIRFLEX® 230

Unique single tube
 design for loading
 pressure adjustment

AISI 316 base plate
 with integrated pivot
 for the top plate

Insulating plate from
composite material



Fingers
 are available in stainless steel,
 aluminium or
 advanced polymer material,
 different finger profiles available

Quick removal of top plate from
 either side of the machine,
 allowing very easy cleaning of
 the fingers and fast tube change

Lightweight, easy mounting

Can be retrofitted

Stainless steel seal (sealing)
for dirt protection with
blade lift-off function

www.clouth.com

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USA / Mexico

Timco-Clouth

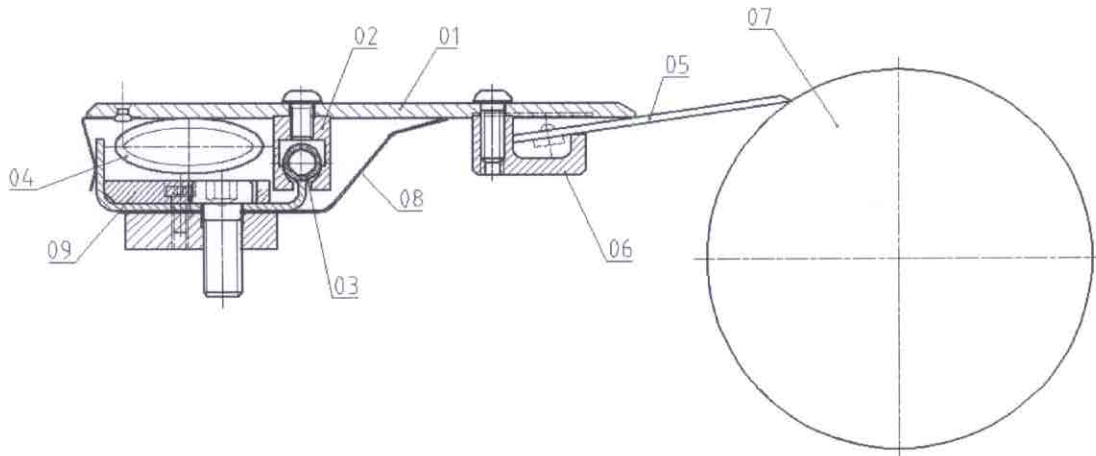
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Advantages of the new **CLOUTH – HS. 1®** - Doctor Blade Holder



The new, patented Doctor Holder **Clouth – HS. 1®**, provides additional properties beside the known advantages of flexible holder systems. These important properties are mentioned in detail hereinafter:

1. A 100% carbon fibre plate is used as a top plate. This carbon fibre top plate does not have any „memory effect“ (remaining bended shape after damages due to sheet breaks for example).
2. The **Clouth – HS. 1®** Doctor Holder can be operated with a low loading pressure and therefore provides a gentle treatment of roll surfaces as well as an extended lifetime of doctor blades.
3. The good doctoring performance even under low loading pressure conditions reduces the power consumption of the roll drives (energy saving).
4. Due to the flexible top plate the doctor blade will be loaded perfectly even on crowned rolls or flexible rolls.
5. The **Clouth – HS. 1®** - Doctor Holder has only one air tube for loading and varying the loading pressure of the doctor blade.
6. The air tube is located on an isolation list (9) which prevents the tube from getting porous in a short time under extremely hot conditions (like in the dryer section) and it prevents operation failure due to porosity.
7. The **Clouth – HS. 1®** - Doctor Holder does not have any rubber sealings. The sealing is provided by profiled stainless steel springs.
8. For maintenance and cleaning the top plate of the **Clouth – HS. 1®** - Doctor Holder can be pulled out very easily by untighten only one screw.
9. Even the **Clouth – HS. 1®** - Doctor Holder provides all the additional benefits the price is only slightly higher compared to rigid holders (like a K35A for example).
10. The **Clouth – HS. 1®** - Doctor Holder can be installed on almost every existing doctor back by using adaptor bars.

Function of the holder:

The top plate (1) is fitted to the round centre rod (3) by using small bearing housings (2).

With the loading tube (4), which is located on an isolation list (9) the top plate and therefore the doctor blade (5) can be loaded to the roll.

In the upper area of the top plate, fingers (6) are mounted for fitting the doctor blade (5).

The fingers (6) are made of GRP and they are used for guidance and proper and safe fitting of the doctor blade (5).

When loading the tube (4) with air, the top plate (1) rotates around the centre rod (3) and the blade (5) is loaded to the roll surface (7).


Even when loaded to crowned rolls an even pressure distribution over the whole surface length will be provided to the doctor blade (5) due to the flexible top plate (1).

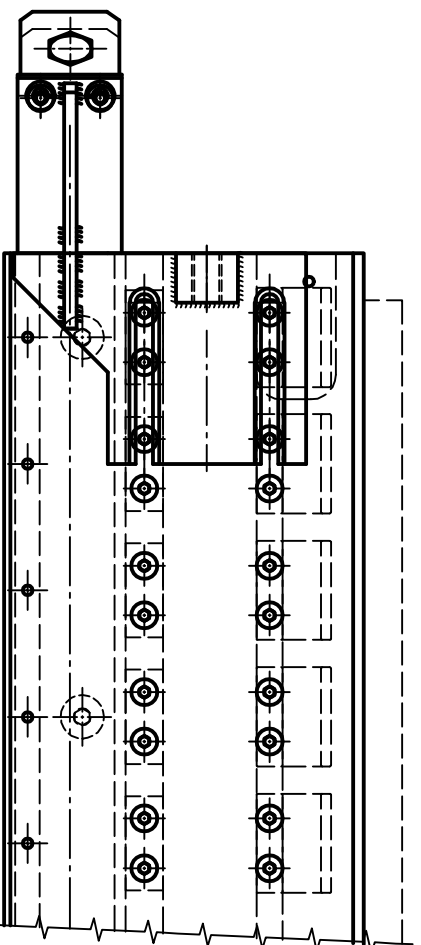
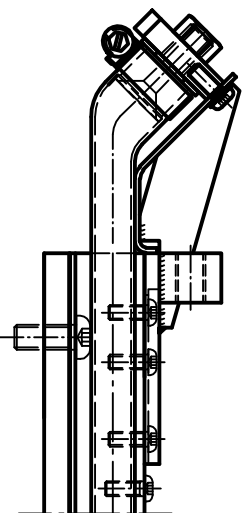
To release the top plate (for example to change blades) the pressure in the loading tube (4) will be released and the stainless steel sealing spring (8) pushes the top plate and the blade (5) away from the roll surface (7).

For the operation of the **Clouth – HS1®** - Doctor Holder a small control panel will be supplied together with the holder. With the control panel the loading pressure can be adjusted according to the pressure diagramme.

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für HHI-Schläuche :
TS 



Schlauchbefestigungs - Variante an der TS

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 und wird gesetzlich verfolgt. (Urheberrechtsgesetz :
 Gesetz gegen unläuteren Wettbewerb , BGB)

Datum	13.06.08	Name	Borjmann	Materiastärke :		Material :	
Bearb.	13.06.08	Gepr.	Knöpp			Oberfläche :	
Norm							Gewicht : Kg
Maßstab:	%					Benennung	
Zul. Abw.:	DN ISO 2768 m	 Quality - Made in Germany - since 1874				Quick Top Plate am Beispiel des Clouth HS-1 Zeichnungsnummer HS1-QTP	
Ursprung:		Ersatz für :				Ersatz durch :	Index
							Blatt
							2
							Blätter