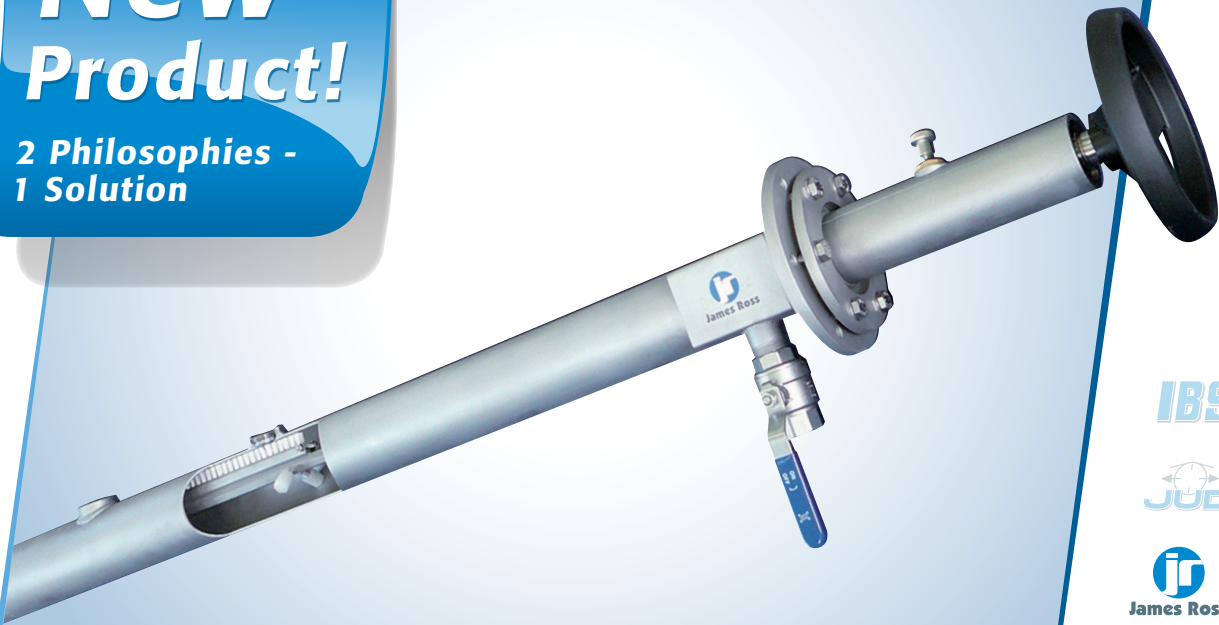


2move™



New Product!

2 Philosophies - 1 Solution



switch your brush shower in 10 seconds from oscillating to rotating cleaning mode

IBS

JUB

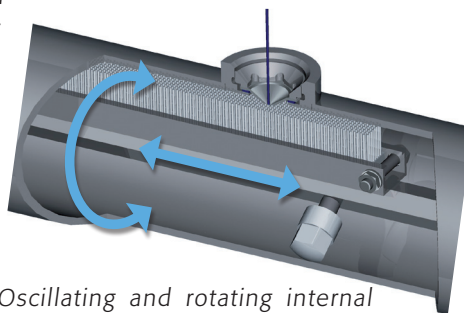
James Ross

BERGER

JAKOB

When purchasing a shower with brush cleaning, traditionally there was only the option of either rotating or oscillating the shower brush. The advantage of the oscillating system is that each individual nozzle is thoroughly cleaned by the axial brush stroke. Conversely, with the rotating brush system, the inner wall of the pipe is cleared of dirt, but the nozzles are only briefly grazed by the brush.

In order to combine the advantages of both systems, the engineers of the IBS Paper Performance Group have now developed a unique design which enables both rotating and oscillating nozzle cleaning in one pipe. Only the combination of both movement patterns guarantees that nozzles and pipe are kept clean.



Oscillating and rotating internal cleaning combined



- Dewatering Systems
- Fabric Guides & Tensioners
- Doctors & Showers
- Special Products
- Engineered Consumables
- Technological Services

PAPER IN MOTION

IBS PAPER PERFORMANCE GROUP

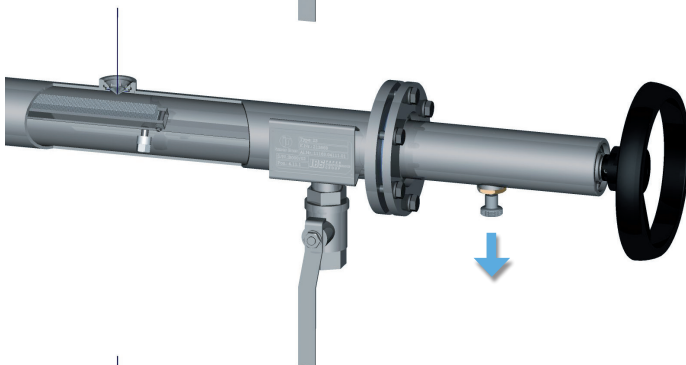
Mode of operation:

Switching the brush from oscillating to rotating movement and vice versa is an easy task: simply turn the guide pin on the actuator inwards or outwards.

Retrofitting of an existing James Ross shower is possible by exchanging part of the handwheel actuator and the brush assembly, to easily convert to the required cleaning method.



Step 1:
Oscillating cleaning mode



Step 2:
By turning the pin completely outwards while the brush is in parking position, the cleaning action of the brush can easily be switched from oscillating to rotating.

10 seconds



Step 3:
Rotating cleaning mode

In order to change back from rotating to oscillating cleaning, simply reverse above steps while the handwheel is in the marked position.

Advantages

- + best solution for shower wall and nozzle cleaning
- + oscillating or rotating mode according to individual need possible
- + 1 actuator for both options with one easy step to switch over
- + the only shower vendor with this patented cleaning solution
- + can be retrofitted to existing James Ross showers

**New product,
Same Price***

*Order a 2move™ brush shower till July 2009 and pay the price of the standard oscillating linear brush system.

For more information:

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IBS PAPER
PERFORMANCE
GROUP

SINGLE DOCTORS



IBS

JUD

James Ross

BERGER

JAKOB

Your benefits:

- +** flexible in design
- +** optimum adjustment mechanisms
- +** doctor backs can have a pan type design to carry away water and dirt
- +** robust design (especially in sheet shedding positions)
- +** system solution available with JUD tensioners and guides

Dewatering Systems

Fabric Guides & Tensioners

Doctors & Showers

Special Products

Engineered Consumables

Technological services

PAPER IN MOTION

IBS PAPER
PERFORMANCE
GROUP

Single doctors

Most of the doctoring work done in a paper machine is performed by single doctors. They therefore have a crucial role to play in keeping the entire machine clean and running. So choosing the right model and design of doctor system is always important to optimum performance and operation.

For instance, a James Ross doctor can be used on an inner or outer guide roll or on a dryer cylinder, depending on the application. Doctors used for paper removal normally face more exacting demands. In these situations, the choice of doctor design and components requires even greater care. Each doctor is specially designed for the given roll diameter, machine speed and application.

How it works

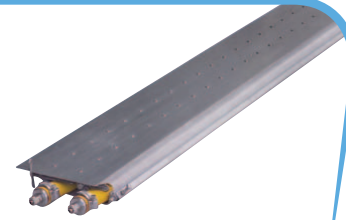
When selecting a doctor for a particular installation position, the choice will largely depend on the job being performed there: sheet shedding or preventing re-wetting of the fabric / felt. In sheet shedding positions, we recommend fitting an [oscillating James Ross doctor with flexible Superflex \(SFK\) blade holder](#).

Thanks to the flexibility of the pressure plate of the Superflex blade holder, the doctor blade fits the roll contour exactly, so no roll-profiling is required in the cross-machine direction. Combined with the continuous oscillatory motion, this ensures even wear of the blade and roll and so extends their working lives.

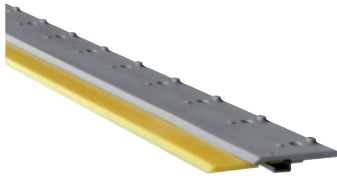
The scissor-action produced by the oscillation has a two-fold benefit: not only does it make it easier for the doctor blade to remove unwanted deposits from the roll surface, but it also ensures reliable paper removal without any wrapping around the roll.

In applications where sheet shedding is not required and there are no stubborn dirt deposits, [stationary James Ross single doctors with rigid KF35 blade holders](#) are used. These systems are gravity loaded and can be manually unloaded (cam mechanism) or using a drive cylinder. By connecting a simple controller, the drive cylinder can also be used to regulate the loading pressure. Exact profiling of the blade to the roll contour proves far more difficult with these systems, however, especially on rolls that are difficult to access. They also cannot compare with the Superflex blade holder for flexibility.

If the doctor is required to prevent re-wetting, a spray shield or deflector must be fitted. Alternatively, the entire doctor body can be designed as pan type, which catches the water and removed waste and channels it away to the ends of the doctor.



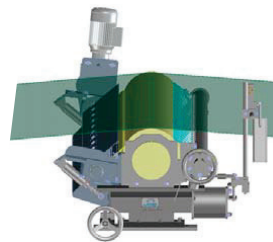
The flexible Superflex blade holder



The rigid KF35 blade holder

Models

- flexible James Ross Superflex blade holder or rigid KF35 blade holder
- closed doctor body or pan type design
- oscillating (pneumatic, electromechanical or hydraulic) or stationary
- positioning mechanism: torque arm or retraction system
- possible add-on components: deflector & spray shield
- can be combined with JUD guides & tensioners and lubrication showers



KF 35 single doctor with lubrication shower mounted on JUD guide



Oscillating single doctor mounted on JUD tensioner

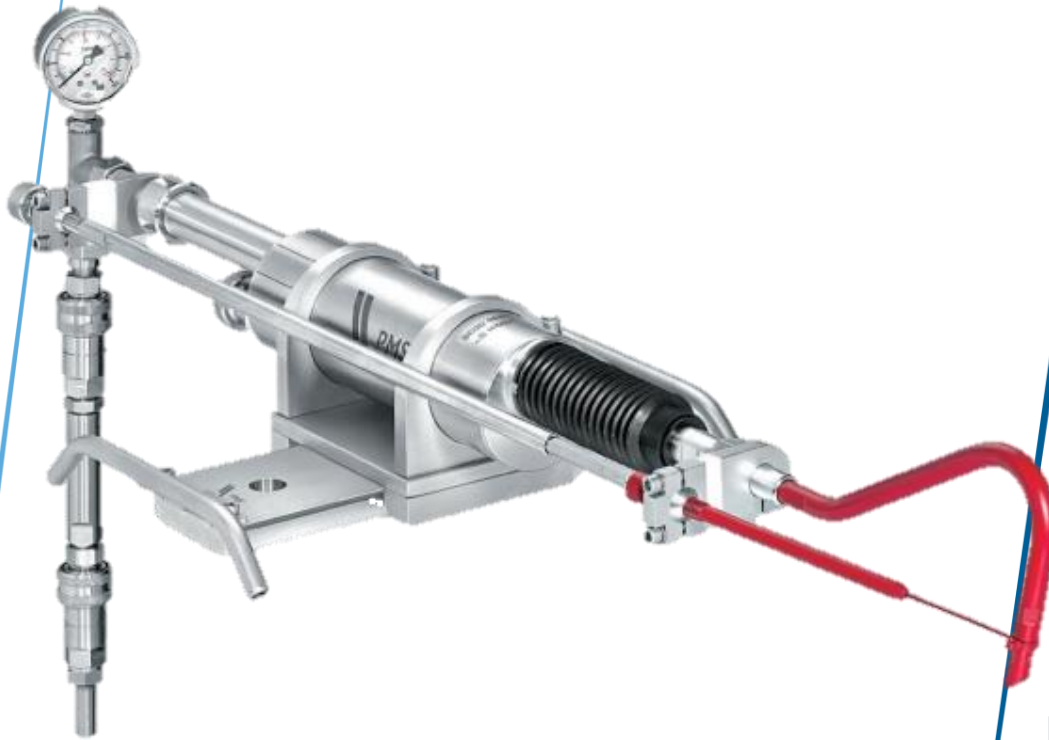
Success Story

Installing an oscillating Superflex dry-end doctor produced a completely clean roll surface compared with the next non-doctored dryer cylinder => improved paper quality, roll lasts many times longer

For further details:

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papertech

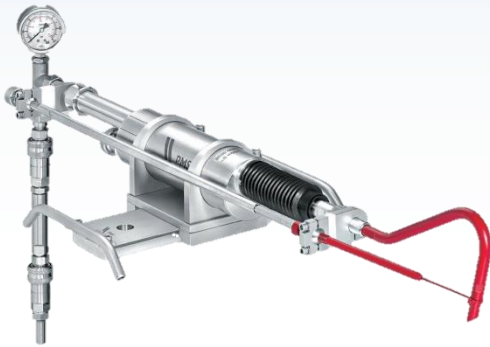
TABLE OF CONTENTS

- PMS Trim System
 - Trim Systems
 - Single & Double Jet Nozzles
 - Triple Jet Nozzles
 - PSA, Quick Connects, Filter Elements & Filter Housing

PMS TRIM SYSTEMS

PRODUCT ADVANTAGES

- Significant reduction of web breaks caused by poor edge cutting
- Highest operation safety and ease of use
- Fully adjustable
 - Trim width
 - Jet angle in machine direction
 - Jet alignment
 - Operating pressure
- No tools needed for adjustments
- Simple and safe assembly and removing
- Maintenance free



SUPER TRIM S (standard Model)

Most popular unit, built with safety in mind

Stroke	200 / 350 mm [7.9 / 13.75 inch]
CMD adjustment	Mechanical via spindle
Jet alignment	AC or RAC
MD angle adjustment	Remote from catwalk
Filter assembly	YES
Filter Mesh	200 µm / 80 mesh
Position Indicator	YES
Drive optional	NO
Connection to machine	G 3/8" BSPT female

SUPER TRIM SX

For limited space, and for long strokes

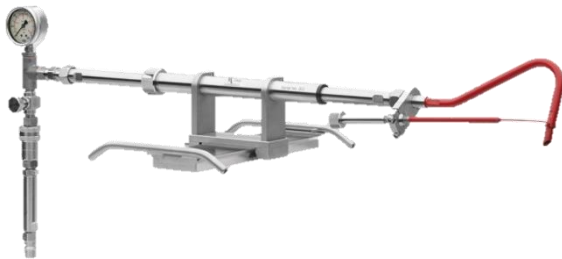
Stroke	175 / 550 mm [6.875 / 21.625 inch]
CMD adjustment	Mechanical via spindle
Jet alignment	AC
MD angle adjustment	Direct at bowed pipe module
Filter assembly	YES
Filter Mesh	200 µm / 80 mesh
Position Indicator	NO
Drive optional	YES
Connection to machine	G 1/4" BSPT male



SUPER TRIM F

Reasonably priced model, for when trim width is not frequently changed.

Stroke	Up to 1000 mm [39.3125 inch]
CMD adjustment	Manual
Jet alignment	AC or RAC
MD angle adjustment	Remote from catwalk
Filter assembly	YES
Filter Mesh	200 µm / 80 mesh
Position Indicator	NO
Drive optional	NO
Connection to machine	G 3/8" BSPT female or G 1/4" BSPT male



PMS TRIM SYSTEM – SINGLE & DOUBLE JET NOZZLES

PRODUCT ADVANTAGES

- Wide range of orifice size, ensuring the correct nozzle is available for specific operations.
- Optional Anti-stick coating to prevent the build-up of stock on the outside of the nozzles.
- Optional Safe Jet bevelled tip to prevent water droplets from coming in contact with the cutting jet.
- Most Nozzles come with the option for Vario, which allows the user to rotate the end of the nozzle making sure that the Safe Jet edge or multiple orifices are properly aligned.
- Optional Remote Alignment Control (RAC), used in conjunction with the Vario Option, RAC allows the user to adjust the Nozzles alignment from outside the machine rails, making it a much safer operation.

SINGLE JET - NOZZLES

Orifice Sizes	Anti-Stick	Safe Jet	Vario	RAC	Thread Size
0.3 - 1.1 mm	Optional	Standard	Standard	NA	M10

SINGLE JET - COMPACT NOZZLES

Orifice Sizes	Anti-Stick	Safe Jet	Vario	RAC	Thread Size
0.25 - 0.8 mm	NA	Optional	Standard	NA	M10

SINGLE JET - EXTENDED 48mm NOZZLES

Orifice Sizes	Anti-Stick	Safe Jet	Vario	RAC	Thread Size
0.3 - 1.1 mm	Optional	Standard	Standard	NA	M10

SINGLE JET - EXTENDED 78mm NOZZLES

Orifice Sizes	Anti-Stick	Safe Jet	Vario	RAC	Thread Size
0.3 - 1.1 mm	Optional	Standard	Standard	NA	M10



DOUBLE JET - NOZZLES

Orifice Sizes	Anti-Stick	Safe Jet	Vario	RAC	Thread Size
0.3 - 0.6 mm	Optional	Optional	Standard	Optional	M10

DOUBLE JET - COMPACT NOZZLES

Orifice Sizes	Anti-Stick	Safe Jet	Vario	RAC	Thread Size
0.25 - 0.55 mm	NA	Optional	Standard	NA	3/8 NPT or BSPT

DOUBLE JET - BIG NOZZLES

Orifice Sizes	Anti-Stick	Safe Jet	Vario	RAC	Thread Size
0.5 - 1.0 mm	Optional	Optional	Standard	Optional	M14

DOUBLE JET - EXTENDED 48mm NOZZLES

Orifice Sizes	Anti-Stick	Safe Jet	Vario	RAC	Thread Size
0.3 - 0.7 mm	Optional	Optional	Standard	Standard	M10

DOUBLE JET - EXTENDED 78mm NOZZLES

Orifice Sizes	Anti-Stick	Safe Jet	Vario	RAC	Thread Size
0.3 - 0.7 mm	Optional	Optional	Standard	Standard	M10



PMS TRIM SYSTEM – TRIPLE JET NOZZLES

TRIPPLE JET - NOZZLES

Orifice Sizes	Anti-Stick	Safe Jet	Vario	RAC	Thread Size
0.25 - 0.45 mm	Optional	Optional	Standard	Optional	M10

TRIPPLE JET - COMPACT NOZZLES

Orifice Sizes	Anti-Stick	Safe Jet	Vario	RAC	Thread Size
0.25 - 0.8 mm	NA	Optional	Standard	NA	M10

TRIPPLE JET - COMPACT BIG NOZZLES

Orifice Sizes	Anti-Stick	Safe Jet	Vario	RAC	Thread Size
0.25 - 0.8 mm	Optional	Optional	Standard	NA	M10

TRIPPLE JET - EXTENDED 48mm NOZZLES

Orifice Sizes	Anti-Stick	Safe Jet	Vario	RAC	Thread Size
0.25 - 0.45 mm	Optional	Optional	Standard	Optional	M10

TRIPPLE JET - EXTENDED 78mm NOZZLES

Orifice Sizes	Anti-Stick	Safe Jet	Vario	RAC	Thread Size
0.25 - 0.45 mm	Optional	Optional	Standard	Optional	M10



TRIPPLE MAGIC JET - NOZZLES

Orifice Sizes	Anti-Stick	Safe Jet	Vario	RAC	Thread Size
0.25 - 0.45 mm	NA	Standard	Standard	Standard	M10

TRIPPLE MAGIC JET – COMPACT NOZZLES

Orifice Sizes	Anti-Stick	Safe Jet	Vario	RAC	Thread Size
0.25 - 0.45 mm	NA	Optional	Standard	NA	M10

TRIPPLE MAGIC JET – COMPACT BIG NOZZLES

Orifice Sizes	Anti-Stick	Safe Jet	Vario	RAC	Thread Size
0.3 - 0.6 m	Optional	Standard	Standard	NA	M14



PMS TRIM SYSTEM – PSA, QUICK CONNECTS, FILTER ELEMENTS & FILTER HOUSING



PRESSURE GAUGE ASSEMBLY (PSA) - QUICK CONNECT (Male)

Included with every SuperTrim system, Provides accurate pressure call out to ensure the system is operating at the optimal parameters.

Complete with a male quick connect for easy disconnection from filter housing.

QUICK CONCONNECT (Female)

All Filter Housings come complete with a female quick connect for easy removal and replacement of filter elements.



FILTER ELEMENTS

Specification	Threaded	µm / Mesh	Install Length	Sealing
F2	NO	200µm / 80 mesh	38mm	Gasket and Flange
F2G	1/8" NPT	200µm / 80 mesh	40mm	
F2R	NO	200µm / 80 mesh	39mm	O-Rings
F2RK	NO	200µm / 80 mesh	30mm	O-Rings
F2GK	1/8" NPT	200µm / 80 mesh	32mm	
F2GL	1/8" NPT	200µm / 80 mesh	77mm	
F2RL	NO	200µm / 80 mesh	77.5mm	O-Rings
F2L	NO	200µm / 80 mesh	69mm	Gasket and Flange
F3	NO	300µm / 50 mesh	38mm	Gasket and Flange
F3G	1/8" NPT	300µm / 50 mesh	40mm	
F3R	NO	300µm / 50 mesh	39mm	O-Rings
F8	NO	80µm / 200 mesh	34mm	Gasket and Flange
F8G	1/8" NPT	80µm / 200 mesh	40mm	

FILTER HOUSING - QUICK CONNECT (Male)

Filter housings come complete with a male quick connection to the steel armoured hose allowing easy removal and replacement of filter elements.

