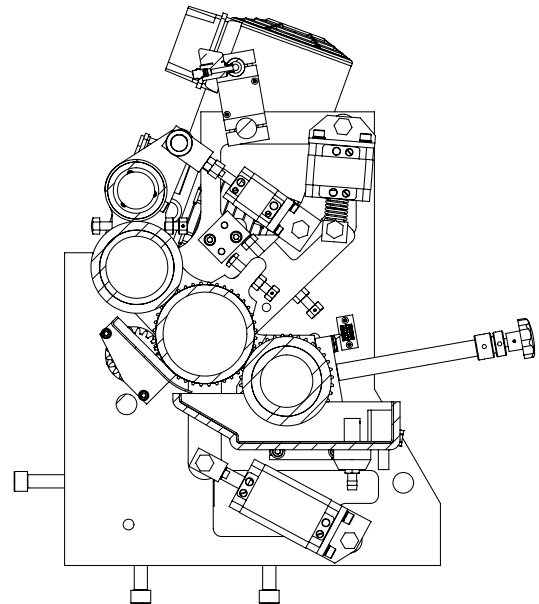
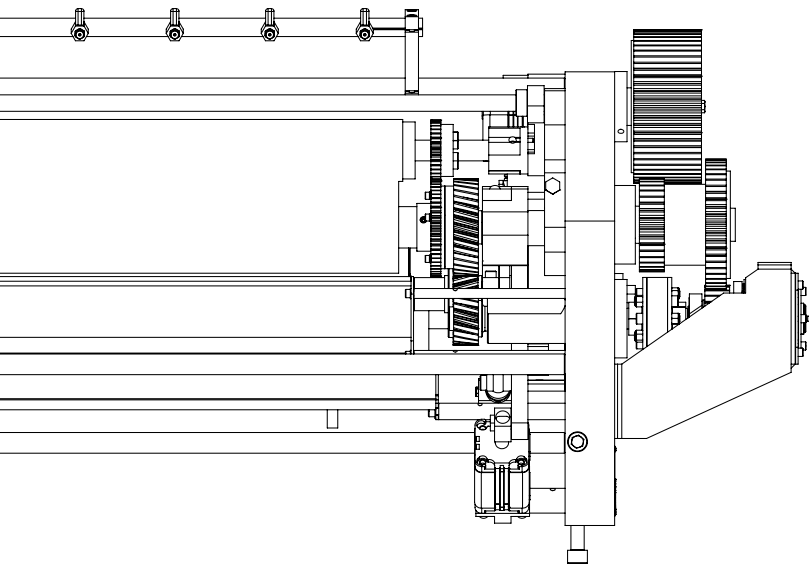


FASTREADY UPGRADES

ENGINEERED PRODUCT SOLUTIONS



Upgrades & Spares

Upgrades

Crabtree applies decades of expertise to help your business grow through innovative upgrades and tailored solutions.

As the OEM, we have a wide range of bespoke upgrade paths for all of our machinery designed to enhance your production capabilities.

We are always open to developing new solutions, with support from our Technical and R&D department, please contact us to discuss how we can support you.



Spares

We manufacture all of our precision OEM components from our expansive site in Gateshead, UK.

With over 30,000 specialist components in stock, we have quick turnaround for urgent spares, ensuring minimal downtime and uninterrupted operations.

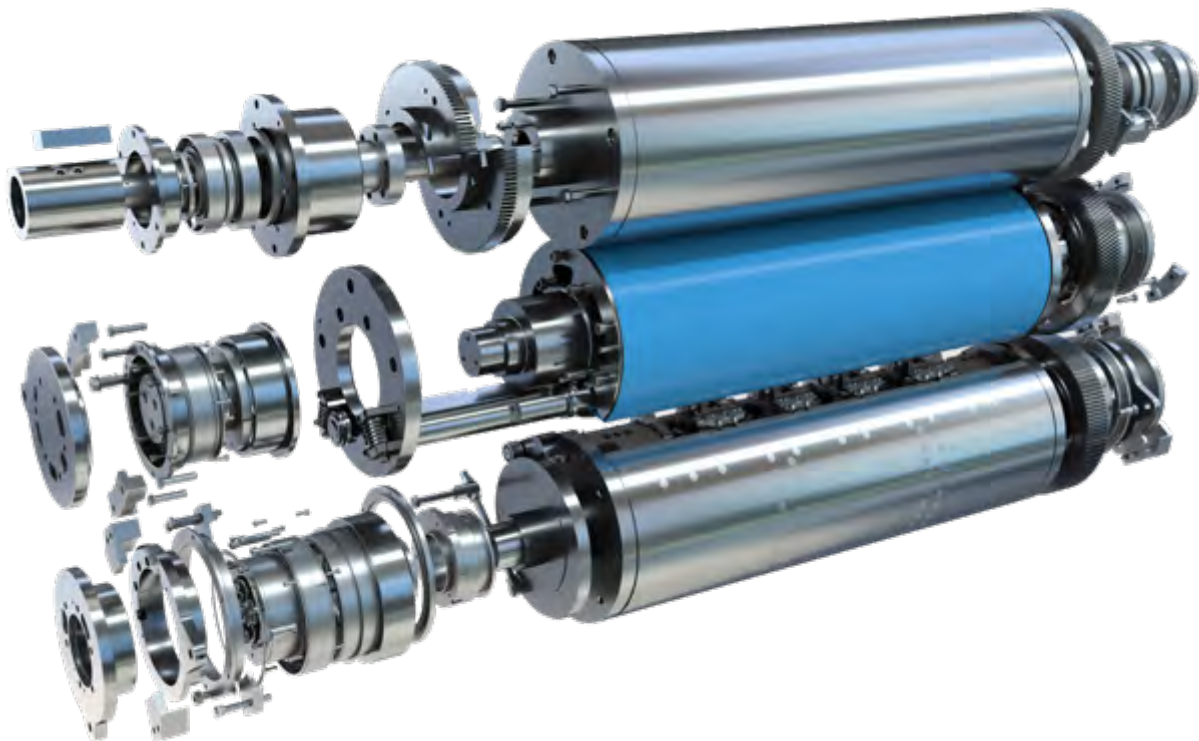
- ~ OEM spare parts for all Crabtree products
- ~ Extensive stock for quick despatch
- ~ Full warranty on all parts



Printing Cylinder Service

We supply replacement OEM printing cylinders across the full range of our printing presses. Produced to the highest quality, we use precision manufacturing and inspection techniques to ensure the best print quality for your machine.

~ All new cylinders include a full 12 month warranty



Quality Cylinders

Advances in manufacturing and inspection mean newly produced Crabtree cylinders have improved stiffness and extremely fine tolerances (sub 10µm), all of our cylinders are multi-stage inspected to ensure the highest quality.



Service Maintenance Contract

Contract Levels

LEVEL 1 Online support

LEVEL 2 1 visits per year

LEVEL 3 2 visits per year



Included

- ~ Free online support for the duration of the contract. Including online fault finding via modem where applicable.
- ~ Training for operators and maintenance personnel.
- ~ Audit of Crabtree equipment to highlight essential areas of concern.
- ~ Set Machine back to factory settings.
- ~ Planned preventive maintenance.
- ~ Advice on printing procedures.

Service Support

Backed by a global network of highly experienced service engineers, we make sure all of our Crabtree equipment runs smoothly.

We provide the following:

- ~ Installation of new Crabtree equipment
- ~ Onsite support and repairs, available worldwide
- ~ Full mechanical and electrical surveys
- ~ Upgrades and refurbishment for print optimisation
- ~ Targeted training for operators and maintenance personnel
- ~ Remote support and diagnostics



Contents

FRP01	Raised Infeed	6
FRP02	Extended Belt Infeed	8
FRP03	Rigidised Infeed	9
FRP04	Pneumatic Pushers	10
FRP05	Lightweight Pushers	11
FRP06	Lightweight Scroll Sidelays	12
FRP07	Servo Sidelays	13
FRP08	Drop Down Sheet Supports	14
FRP09	Delta Dampener	16
FRP10	Caber Ink Duct	18
FRP11	Motorised Duct Roller	20
FRP12	Ink Agitator	21
FRP13	Plate Cylinder Circumferential Adjust	22
FRP14	Hydraulic Plate Cylinder	23
FRP15	Air Knife Stripper	24
FRP16	Electrical Upgrades	26
FRP17	Safety Guard Conversion	28
FRP18	Infra Red Unit	30
FRP19	Defect Camera	31

Raised Infeed Upgrade

Features

The sheet line of the infeed is raised to the tangent of the impression cylinder—providing a true flat register table for improved register performance at higher speeds. The speed differential between impression cylinder gripper, pushers, dog chain and belts has been optimised, vastly improving sheet transfer.



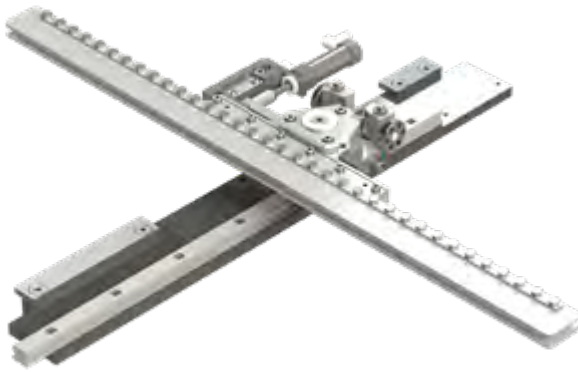
Retrofitted impression cylinder improvements

- ~ New refined gripper cam
- ~ New improved gripper head assembly



Benefits

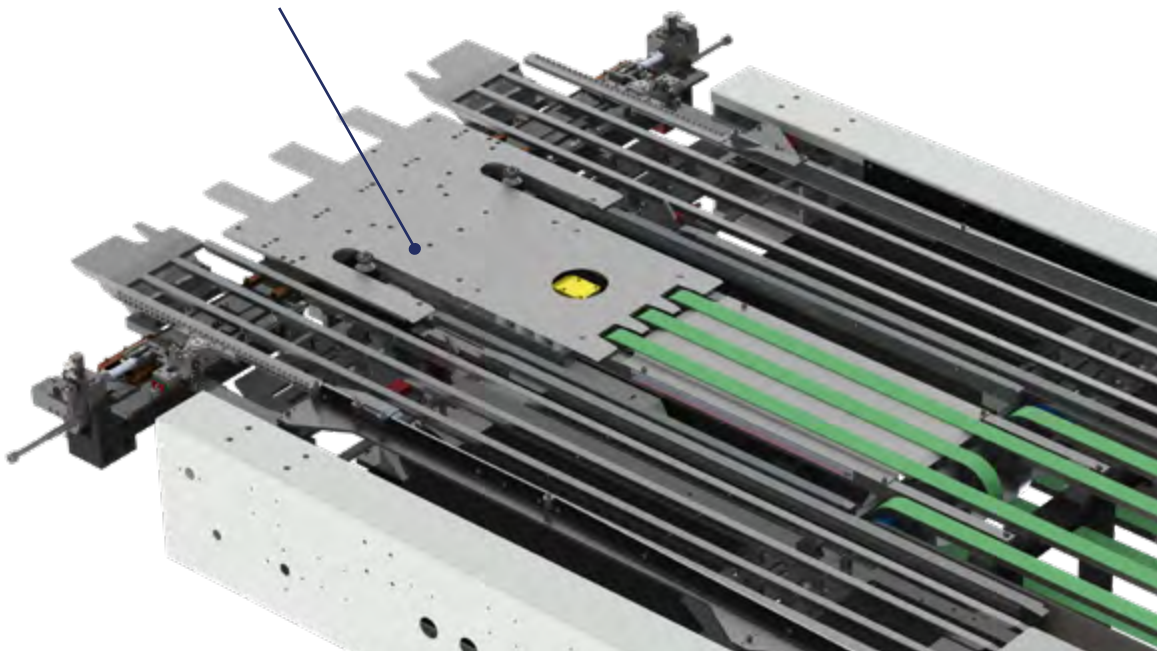
- ~ Improved sheet handling with less sheet distortion, beneficial on large thinner sheets at high speeds (over 6000SPH)
- ~ Improved register accuracy with a larger register window
- ~ Increased tolerance to bowed sheets, with an increased gripper throat
- ~ Higher production speeds
- ~ Less wastage



Includes

- ~ Extended Belts (FR02)
- ~ Rigidised Top Plate and Sheet Supports (FR03)
- ~ Pneumatic Pushers (FR04)
- ~ Lightweight Scroll Sidelays (FR06)
- ~ Upgrades to infeed drive assembly for increased torsional stiffness
- ~ Upgrades to the gripper head
- ~ Refined gripper cam

Whole infeed height raised to suit

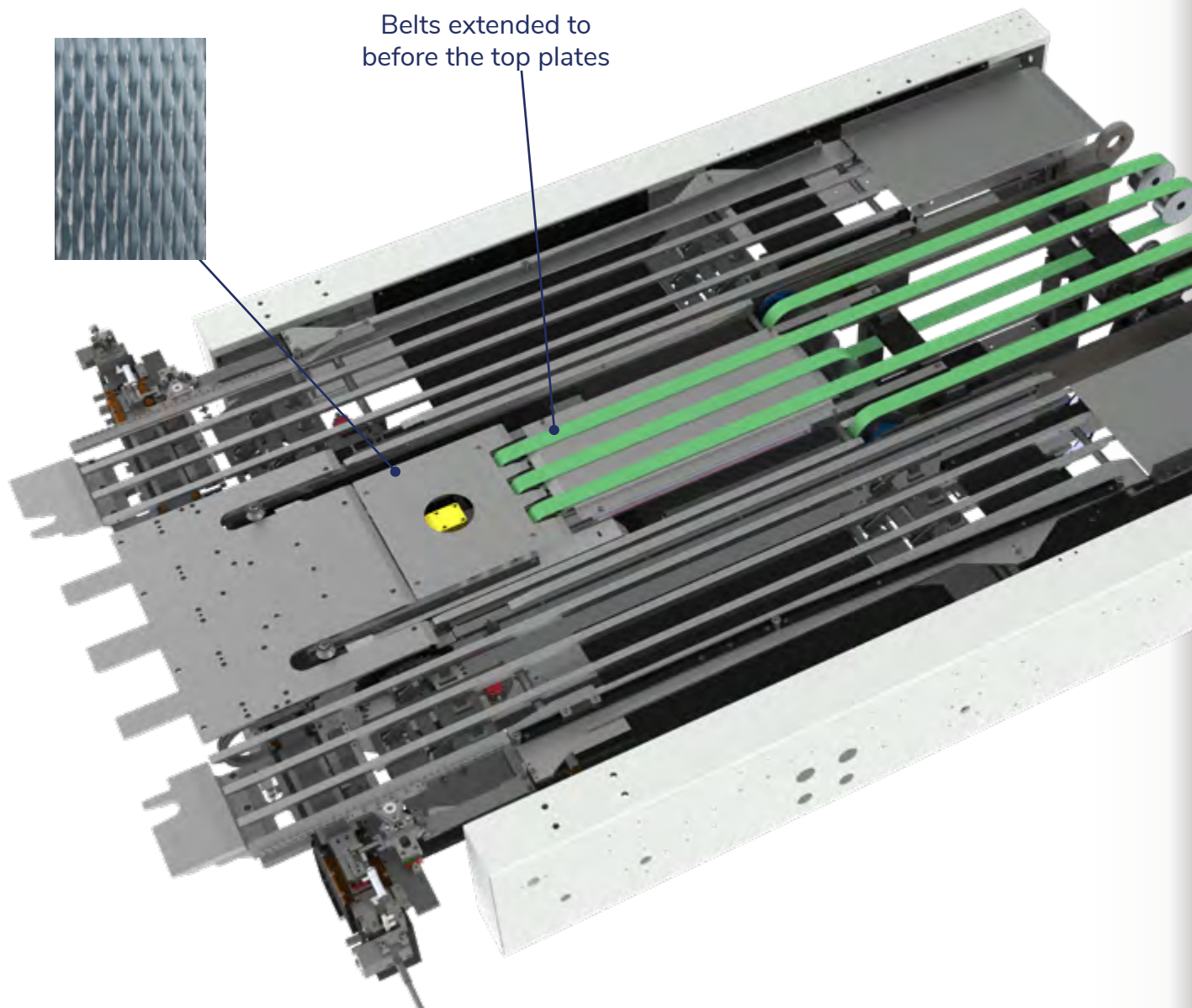


Features

- ~ Belts extended along infeed to around the back of the top plate
- ~ Rigidized material for low friction
- ~ Speed ratios between belts, dog chain and pushers optimised
- ~ UV resistant belts

Benefits

- ~ Better dog to pusher transfer
- ~ Lower sheet sliding friction
- ~ Better sheet handling
- ~ Higher speed capability
- ~ Reduced chance of sheet scratching on softer sheet materials (TFS, Aluminium)

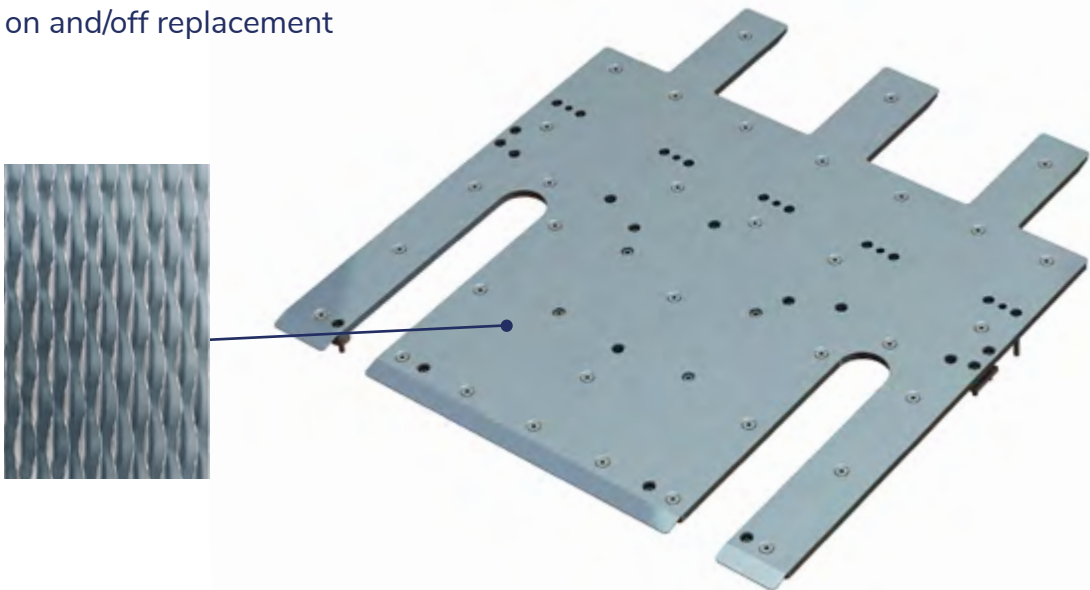


Features

- ~ Rigidised Top Plate and Sheet Supports
- ~ Low friction rigidized stainless steel surface, up to 50% reduction in sheet sliding friction
- ~ Interchangeable with current top plate and sheet supports
- ~ Quick bolt on and/off replacement surface

Benefits

- ~ Improves registration
- ~ Prevents sheet stiction
- ~ Reduces sheet sliding friction
- ~ Prevents sheet scratching



Pneumatic Pushers

Features

- ~ Sensitive pneumatic backpush setting
- ~ Lightweight Nylatron material design
- ~ Eccentric head adjustment
- ~ Very durable assembly

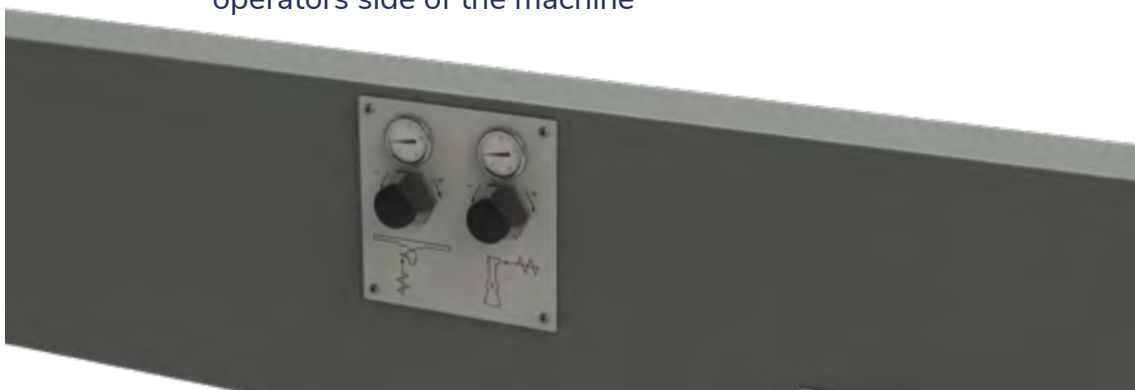
Benefits

- ~ Better registration capability at faster speeds
- ~ Easy setting and maintenance
- ~ Long service life



Simple Operation

- ~ Precision regulator adjustment on the operators side of the machine



Features

- ~ Extremely Sensitive pneumatic backpush using a metal seal cylinder and linear slide design
- ~ Decreased pusher head mass for handling very thin substrate
- ~ Lightweight Nylatron body material design
- ~ Eccentric head adjustment
- ~ Durable assembly

Benefits

- ~ Precise sheet handling for very thin substrates and aluminium
- ~ Accurate registration and precise backpush control
- ~ Better registration capability at faster speeds
- ~ Extremely low sheet disturbance and damage
- ~ Easy setting and maintenance
- ~ Long service life



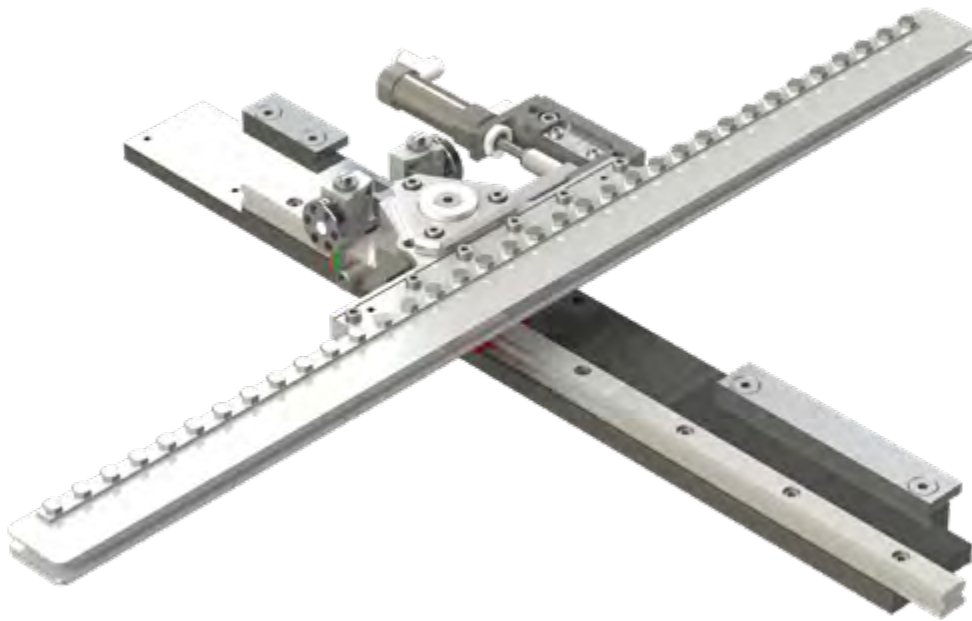
Lightweight Scroll Sidelays

Features

- ~ Lightweight aluminium design
- ~ Suitable for straight and scroll edge sheets
- ~ Low friction contact surface
- ~ Articulated adjustment to accept any sheet misalignment
- ~ Low friction, pneumatically controlled side push
- ~ Even lighter short head sidelay version available for non-scroll jobs

Benefits

- ~ Flexibility to print scroll and straight edge sheets
- ~ Improved sheet handling
- ~ Less sheet disturbance
- ~ Reduced make-ready time
- ~ Accepts out of square tinplate

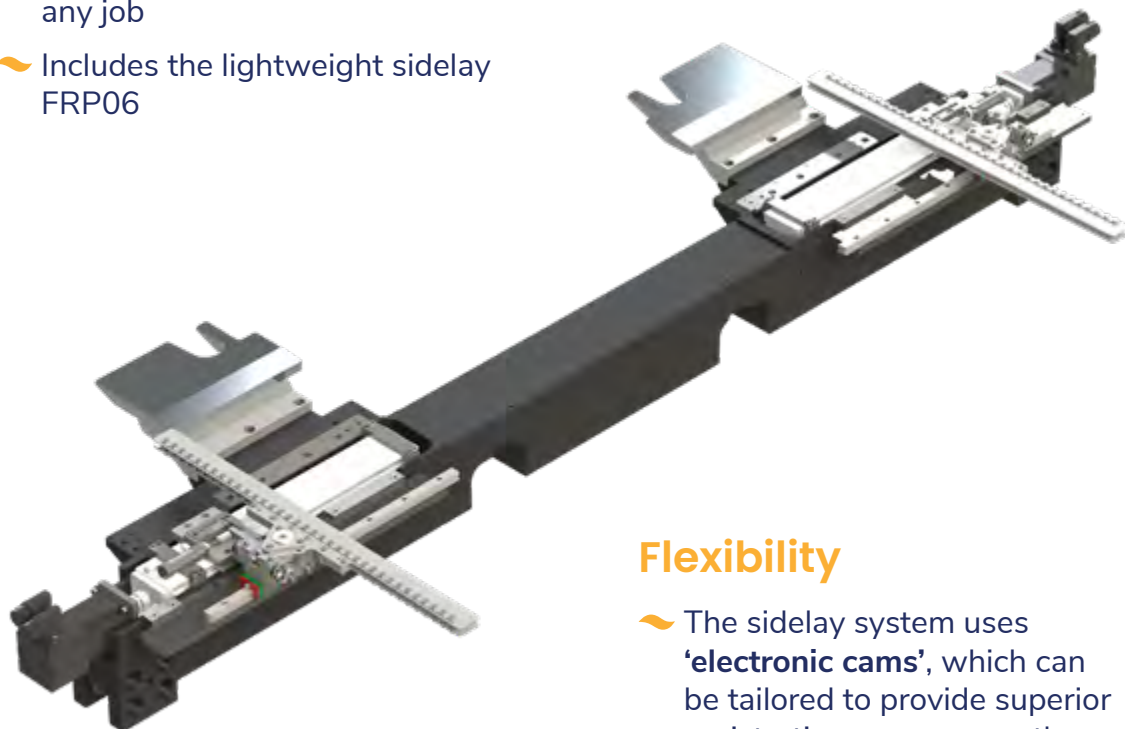


Features

- ~ Precise direct servo drive sidelay system delivering superior registration
- ~ Massive reduction in mechanical parts compared to a mechanical cam
- ~ Sidelay cams are electronically stored and can be tailored to suit any job
- ~ Includes the lightweight sidelay FRP06

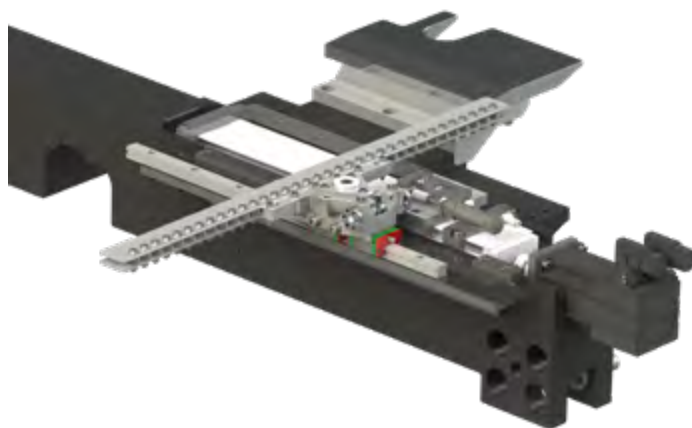
Benefits

- ~ Superior and precise registration at higher speeds
- ~ Very low maintenance
- ~ Gentle sheet handling and low sheet disturbance,
- ~ Advantageous for very thin and wide sheets



Flexibility

- ~ The sidelay system uses 'electronic cams', which can be tailored to provide superior registration accuracy on the most challenging sheets



Drop Down Sheets Supports

Features

- ~ Full sheet size range of 710-1200mm without the need to remove any sheet supports
- ~ Low friction rigidized stainless steel surface, up to 50% reduction in sheet sliding friction
- ~ Adjustable sheet support positions to for optimum support
- ~ At minimum sheet size, the sidelays pass over the top of the dropped sheet supports
- ~ Fully automated, but optionally can be done for manual non-CNC machines also

1200mm (maximum sheet size)



710mm (minimum sheet size)



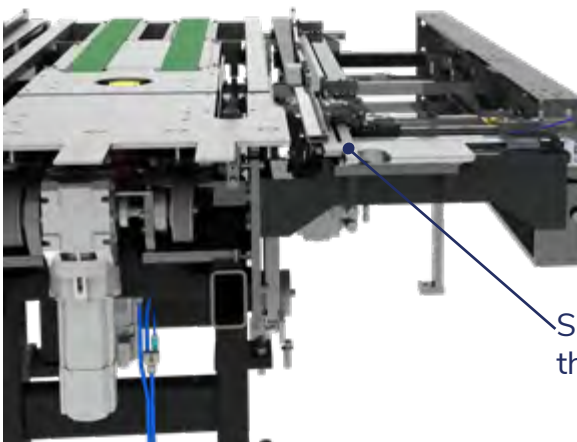
Benefits

- ~ Fast make ready times
- ~ No manual interaction for sheet size changes
- ~ Particularly beneficial on UV lines and lines with CE guards, where access is difficult.
- ~ Very low maintenance
- ~ Suitable on scroll sidelays



Time Saving Example

- ~ Typical example:
 - Fastready 4 Colour
 - Changeovers per day = 10
 - Sheet support removal time per infeed = 5min
- ~ This equals to 1400min (23hours) per week of time spent manually changing sheet supports (assuming 7 days running)
- ~ With this typical example, it is clear to see the time benefits our automatic solution could have on your processes



Sidelay passes over the sheet supports

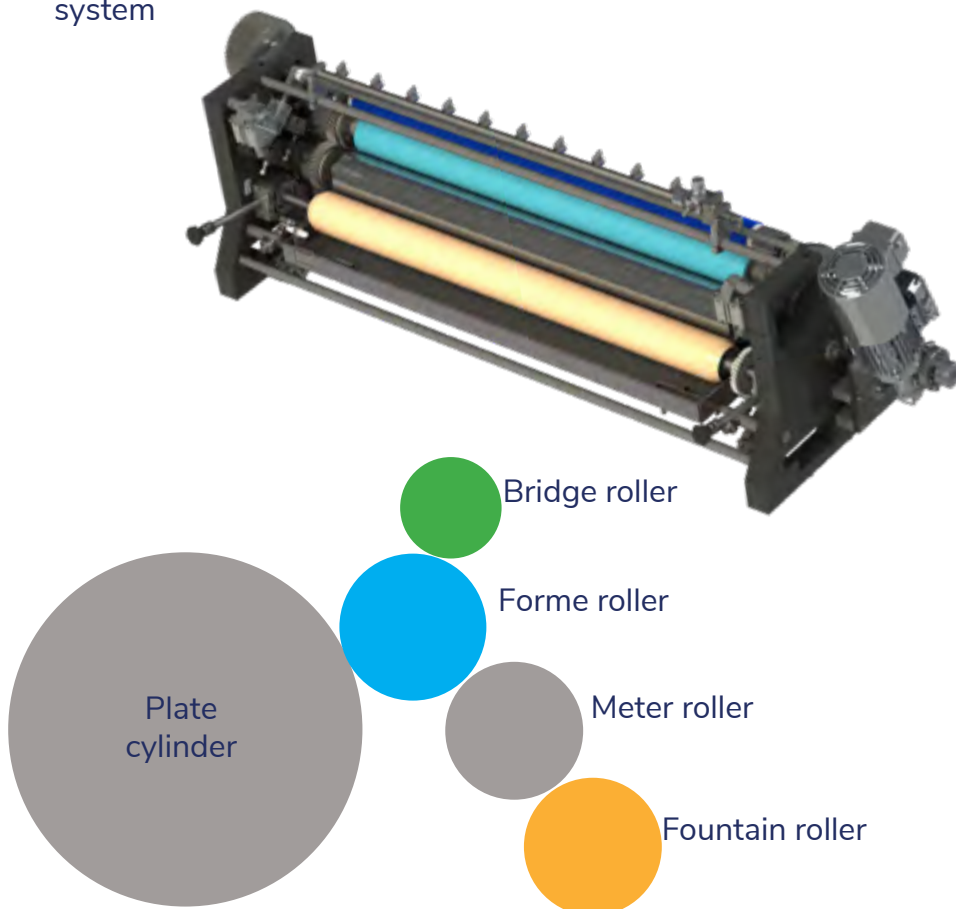
Various different upgrade paths depending on the type of machine, age, type of control system used.

Please enquire.

Delta Dampener

Features

- ~ Two operating modes switchable during production:
 - Normal: The dampener follows press speed
 - Delta: Differential power transmission path reducing the speed of the Dampener Forme roller relative to the printing plate
- ~ Hickeys are removed from the printing plate
- ~ Printing plate is cleaned, sharpening dot formation and flattening the ink
- ~ Precisely controlled damp feed reduces emulsification and loss of colour brilliance
- ~ External cloth covering or paper roller sleeves no longer needed
- ~ Cambered fountain roller to reduce water build up
- ~ Reciprocating, hard rubber covered bridge roller to reduce ghosting
- ~ Fountain roller can be skewed to ensure accurate water control across the sheet
- ~ Temperature controlled chiller unit with alcohol monitoring and adjustment system



Benefits

- ~ Printed images sharper with better gloss
- ~ Hickeys are removed for better print quality
- ~ Eliminates time wasted by hickey removal
- ~ Minimal wash-up time
- ~ Less sheet wastage
- ~ Improved process control through stability in damping flow
- ~ Less ink and water used



Chiller Unit



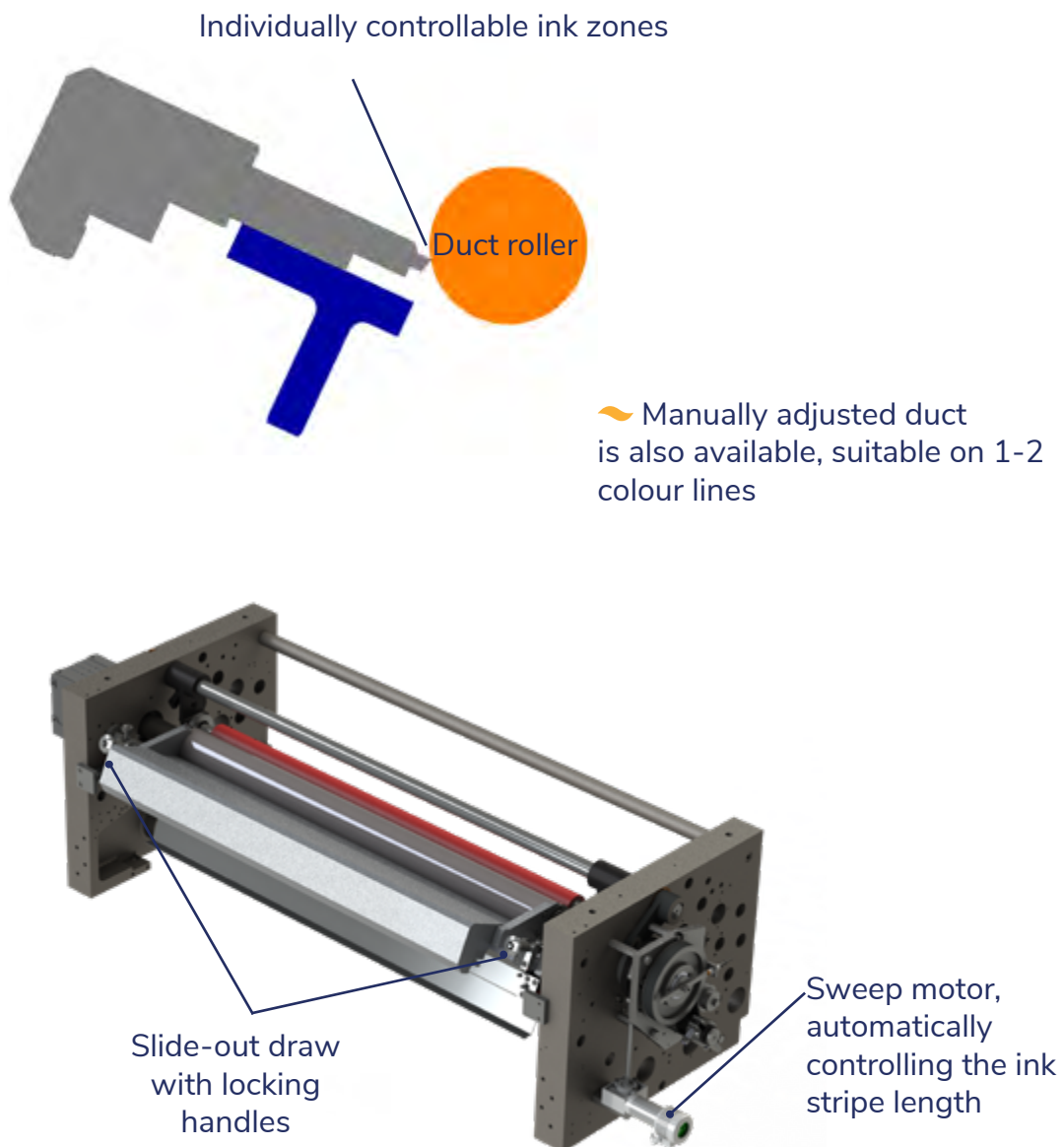
Available for conventional, and UV inks, this must be specified when ordering

For existing Delta Dampener systems, we offer full drive upgrade paths to current standard

Please enquire.

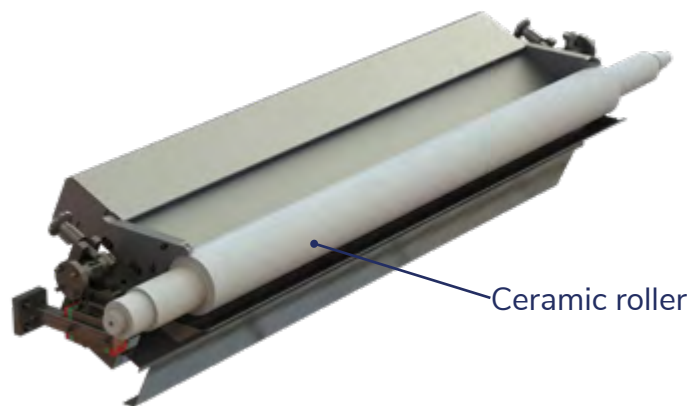
Features

- ~ Individually controlled duct blade sections, available as either fully motorised or manual
- ~ Separate inspection control desk with full control over the ink distribution
- ~ Ceramic duct roller to reduce scratching
- ~ Innovative pull-out drawer design, easy to clean and maintenance friendly
- ~ CIP3 compatible



Benefits

- ~ Complete control over ink profile thickness
- ~ Ink profiles can be saved and loaded for different jobs
- ~ Reduced make-ready time
- ~ Easy to clean
- ~ Easy to set



Control Desk

- ~ Full control over ink profile for every colour
- ~ Light inspection
- ~ Settable ink zones for each colour
- ~ Sweep motor control



Motorised Duct Roller

Features

- ~ Full speed control over duct roller independent of press speed
- ~ Available with steel or ceramic duct rollers

Benefits

- ~ Prevents ink churning
- ~ Maintains consistent film weight at varying press speeds
- ~ Less manual interaction and quicker to clean
- ~ Reduction in mechanical parts for easier maintenance



Features

- ~ For use with UV inks, keeps the ink agitated
- ~ Motorised operation for constant motion
- ~ Rotating cone to optimise ink movement and push it into the duct roller
- ~ Quick release components for cleaning
- ~ Flexible design with adjustable end stops to change the stroke

Benefits

- ~ Helps maintain consistent ink viscosity
- ~ Keeps ink pressed against the duct roller across the length
- ~ Easy to clean

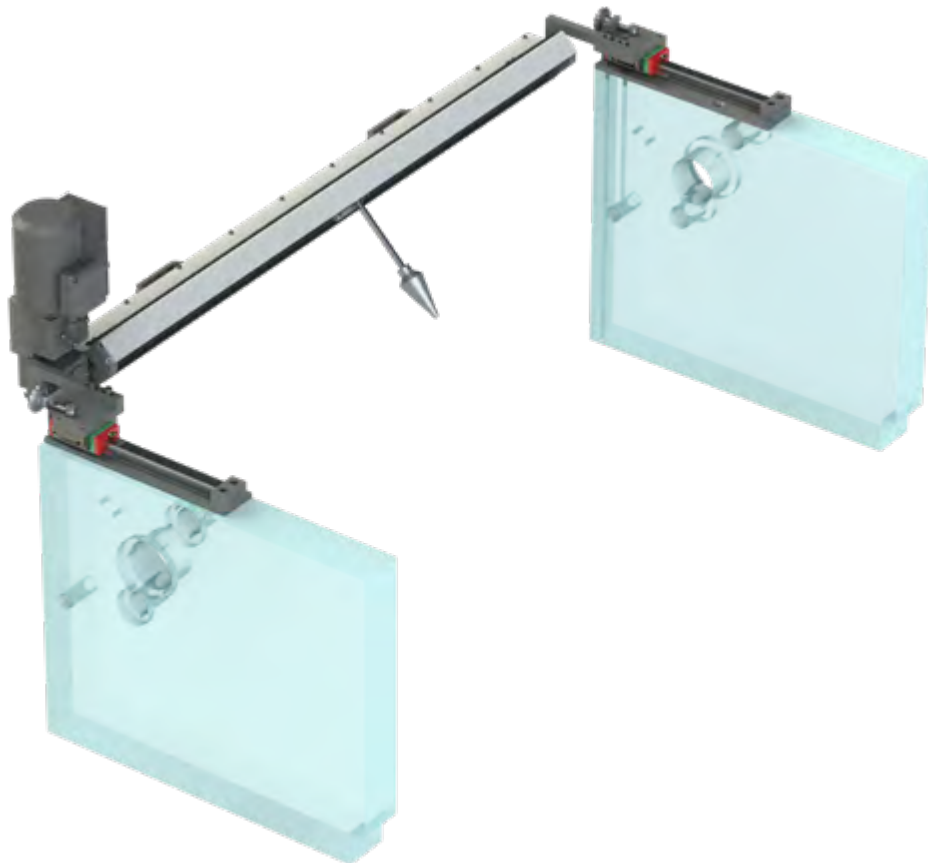


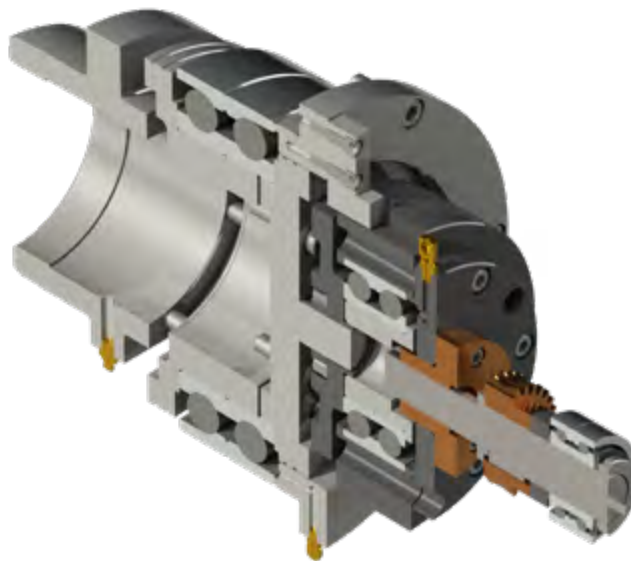
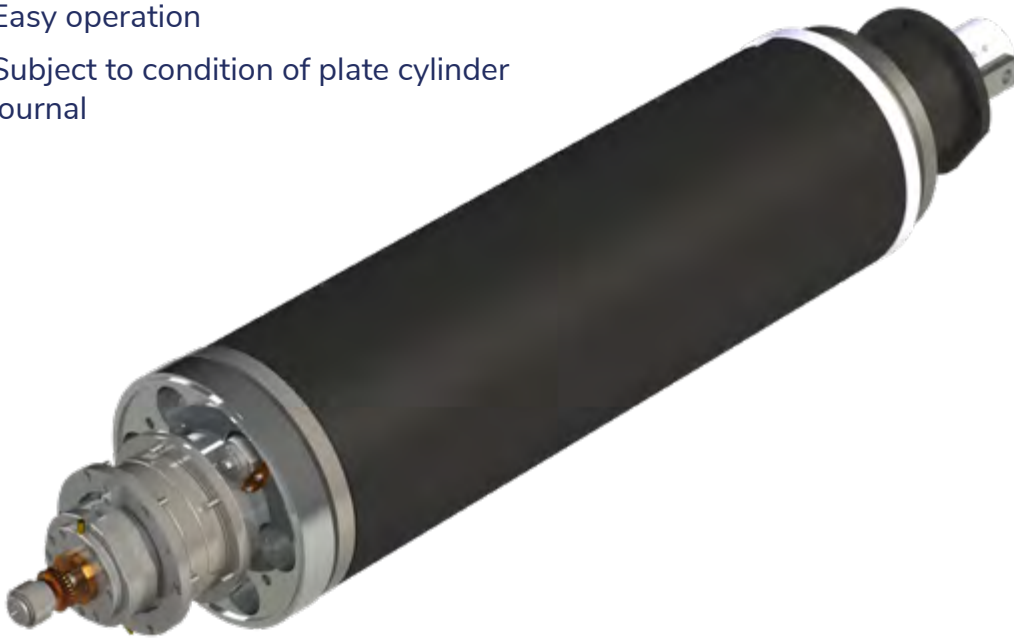
Plate Cylinder Circumferential Adjustment

Features

- ~ Fine adjustment of plate cylinder position
- ~ Adjustment independent of plate cylinder journal
- ~ Reliable and robust design
- ~ Easy operation
- ~ Subject to condition of plate cylinder journal

Benefits

- ~ Long lifespan
- ~ No wear of plate cylinder journal
- ~ Quick and easy operation



Features

- ~ Semi-automatic plate changing
- ~ Hydraulic operation
- ~ Simple and easy to use
- ~ Operator side push button control
- ~ Pin registration

Benefits

- ~ Quick operation (1 minute plate change)
- ~ Reliable
- ~ No additional tools required

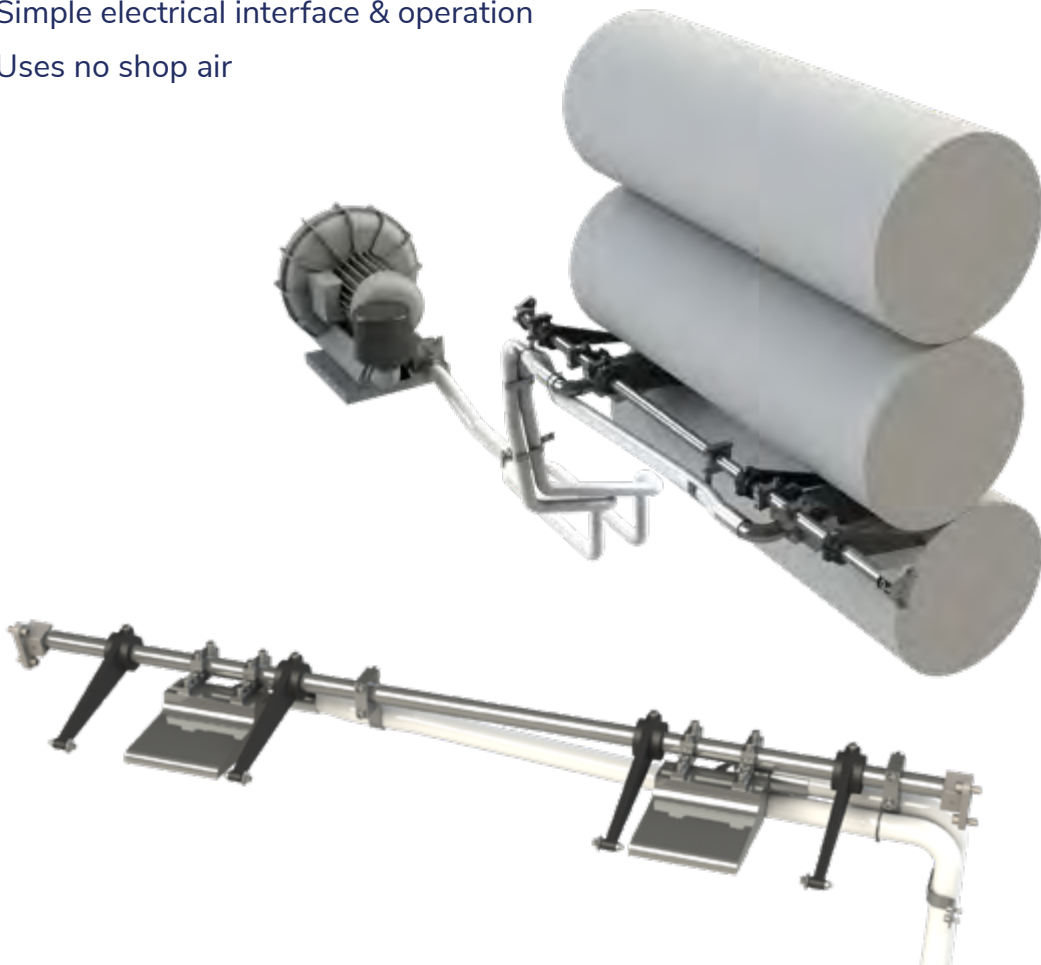


Features & Benefits

- ~ Essential for UV printing and tacky conventional inks, especially for thin metal sheets.
- ~ No sheet contact eliminating potential sheet damage
- ~ Non-contact sheet stripping from the blanket
- ~ Optional unstripped sheet detector
- ~ Maintains accurate print length
- ~ Available in a Vacuum pump version (**FRP15a**) or high powered Air-blade (**FRP15b**)

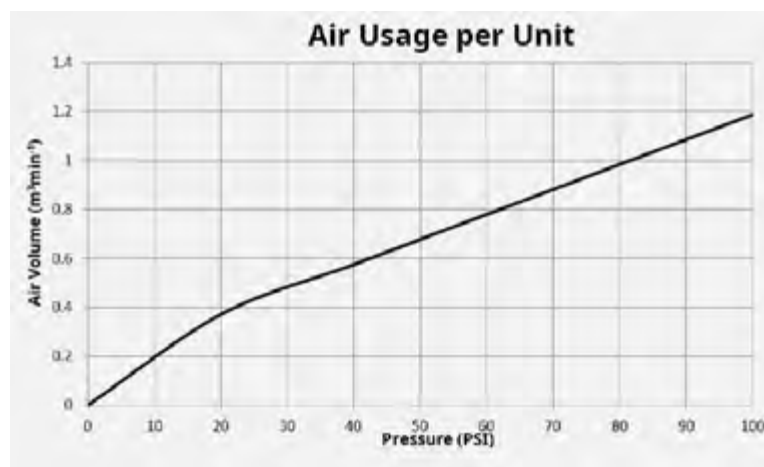
FRP15a - Pump Version

- ~ Targeted air flow with flow control on the pump gate valve
- ~ Individual blower pump for every unit (4kW)
- ~ Easy to remove assembly for maintenance
- ~ Simple electrical interface & operation
- ~ Uses no shop air



FRP15b – Air Blade Version

- ~ Powerful air blade design for directional airflow
- ~ Uses shop compressed air with an inline filter
- ~ High velocity directional airflow
- ~ Inline air regulator for easy and precise adjustment on every unit
- ~ Easy to remove assembly for maintenance
- ~ Optional solenoid for pulsed-operation
- ~ Basic version has no electrical interface



We are constantly improving our automation capability by using the latest state of the art control system technology.

We offer full electrical rewires to our equipment and all legacy control systems can be upgraded to enhance operational capability, including

- ~ Drives (DC and AC)
- ~ PLCs
- ~ CNCs
- ~ HMIs

Upgrade Paths

Suitable for all the previous obsolete control systems

- ~ Siemens S5/7 PLC
- ~ Mitsubishi AnS PLC
- ~ SSD drives
- ~ Control Techniques Mentor II drives
- ~ AB OSAI CNC
- ~ Mitsubishi CNC
- ~ CTC HMI
- ~ Siemens MP/TP HMI
- ~ Lenze 8200/9300 drives



Increased Operator Control

- ~ Mainline touch screen HMI operator console
- ~ Local touch screen HMI's on the press units and Feeder

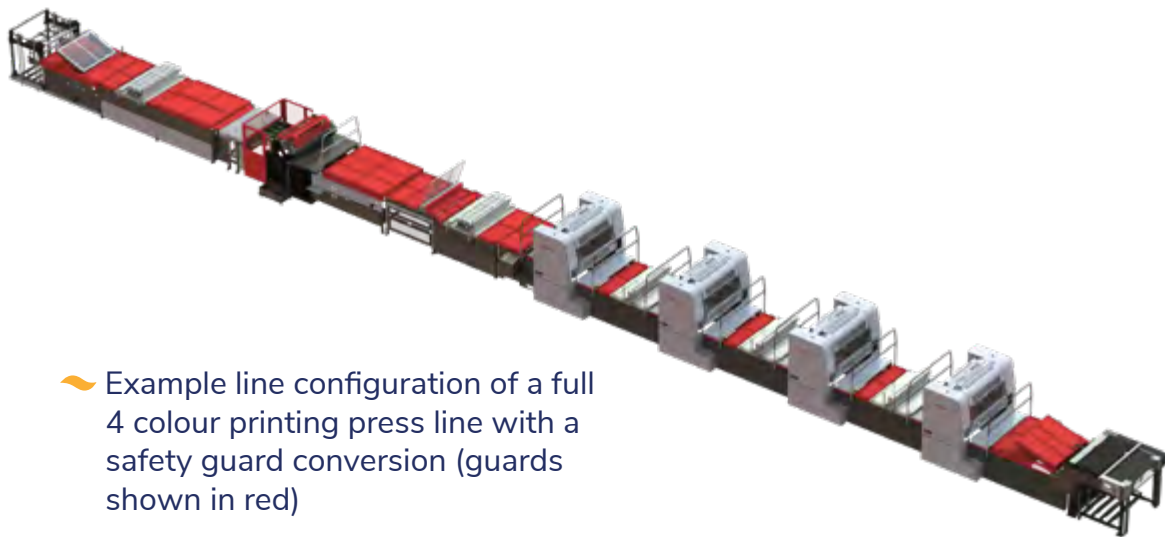
Keeping up to date with the latest control system is essential

- ~ Spares availability
- ~ Future proofing the machine
- ~ OEM support
- ~ Increased performance
- ~ Modem connection for online service support (see maintenance contracts)
- ~ Industry 4 capability with customer specific advanced data capture technology



Features

- ~ Full safety guarding conversion for a complete printing line
- ~ Available for any line configuration for the press, feeder, coaters and any follow on conveyors
- ~ Aluminium extrusion with hard wearing polycarbonate screens
- ~ Guards can be integrated to the machine safety circuits (dependent on condition of current electrics)



- ~ Example line configuration of a full 4 colour printing press line with a safety guard conversion (guards shown in red)



Benefits

- ~ Improves operational safety
- ~ Ergonomic allowing full operation
- ~ Durable and lightweight, easy maintenance



- ~ The guards are operator and maintenance friendly, utilising lightweight materials with gas struts and see-through Polycarbonate windows, that can open to provide full access to the machine without affecting operation



Features

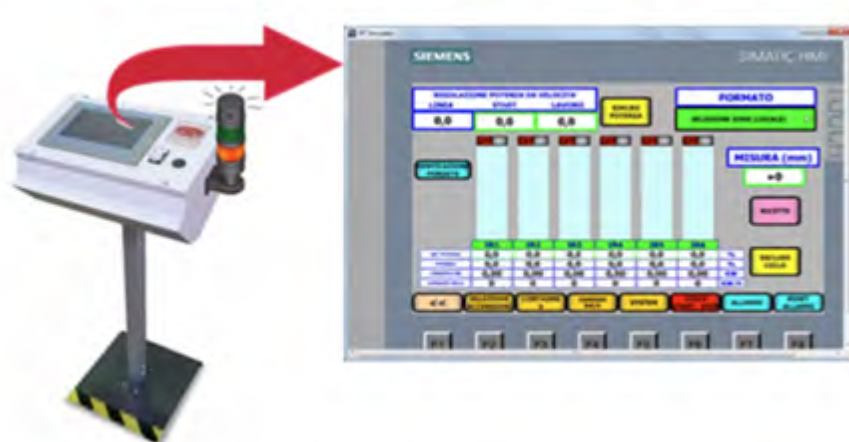
- ~ 32 x 1000W Infra-red lamps for treating tinplate or aluminium
- ~ Axial impellers for IR lamp cooling
- ~ Contains sheet bows to prevent sheet jams and Quartz barrier to protect the lamps
- ~ Remote touch screen
- ~ Energy saving measures to control of lamps to switch on/off

Benefits

- ~ For UV printing lines, the IR heater helps sheet expansion prior to unit 1 printing by pre heating the sheet, preventing further down the line sheet expansion causing miss-register
- ~ Helps improve adhesion
- ~ Can also be mounted further downstream for drying water based and solvent products on the sheet surface



- ~ Easy to use and intuitive control system



Features

- ~ Inline defect detection camera
- ~ Mounts of the press delivery conveyor
- ~ Creates signal in the event of sheet defects and miss-register for sheet reject
- ~ Seperate control desk

Benefits

- ~ Enhanced quality control
- ~ Automated reject saves further processes downstream
- ~ Reduces wastage



Book Your Free Online Consultation Today

We invite you to schedule a free online consultation to discuss your specific needs in the following areas:

- ~ New Machinery
- ~ Spares & Upgrades
- ~ Service & Maintenance
- ~ Technical & Operational Requirements

To book your consultation, please email: info@crabpress.co.uk

A member of our team will promptly arrange a convenient time for you.



Crabtree are dedicated to continuous improvement and therefore reserve the right to modify design features and technical specifications without notice

spares@crabpress.co.uk

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