

Slitter Rewinder

***Upgrades
& Retrofits***

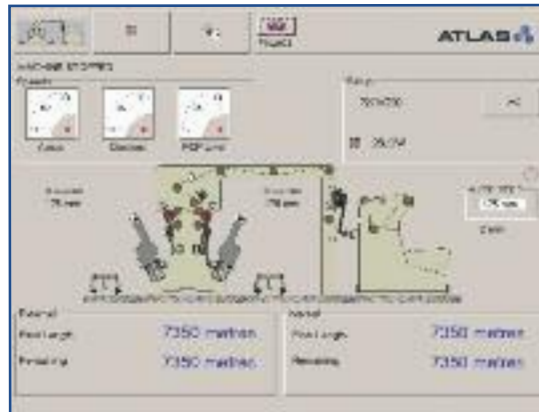
**Cost-effective Solutions
for Increased Productivity**

ATLAS 

Machine Controls

The effective solution for resolving:

- **Obsolescence**
- **Replacement of analogue cards**
- **Operational problems**



Main operator screen

The machine's computer control system is replaced by the latest technology PC hardware and software.

The new software uses a Windows™ base platform, making the software very stable and easily supportable by technicians.

Associated upgrades

- Arm positioning
- Rewind arm cables
- Knife positioning system
- S5 PLC replacements

Features

- Touch screen interface
- No key pad
- Replaces obsolete hardware

Benefits

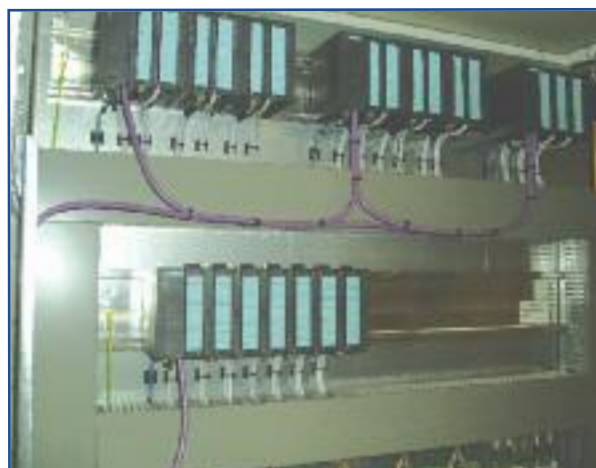
- Easy maintenance
- Improved set-up flexibility
- Enhanced control functions
- Ease of use

This upgrade package is tailored to suit specific machine requirements.

The PLC is replaced using Siemens S7 systems. This replaces the standard Siemens S5 PLC and obsolete components.



Upgraded machine control panel



Upgraded PLC

The analogue control cards are removed and integrated in to the PLC (PID cards, E-stop, drivers, etc.).

The screens have full diagnostic capability enabling the operator or technician to quickly diagnose problems.

Rewind Arms

The effective solution for resolving:

- *Low productivity*
- *Prolonged machine downtime*
- *Production capacity*

Associated upgrades

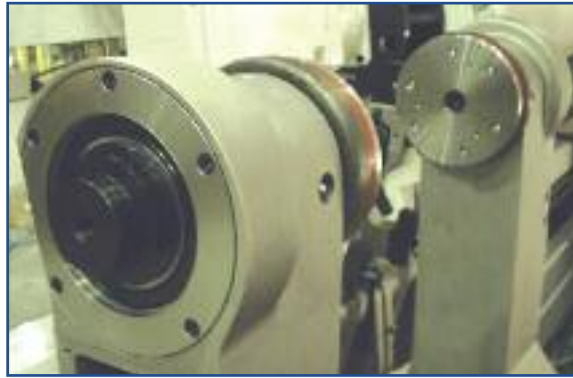
- Contact roll enhancements
- Replacement drives
- E/P transducer
- Hydraulic control
- Rewind arm cables

Features

- Larger rewind reel diameter
- Increased loading capacity
- Optional AC control

Benefits

- Improved rewinding quality
- Increased productivity
- Higher production capacity



Combination rewind arms

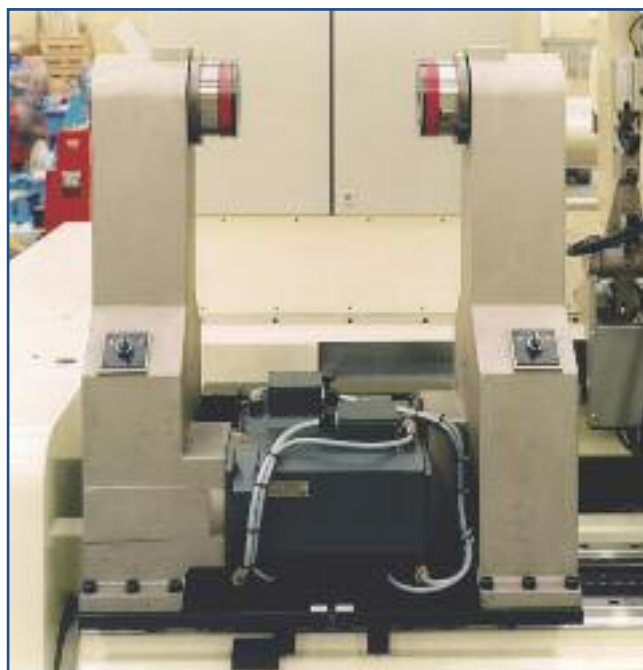
For many years, the rewind arms on all Atlas slitter rewinders were a robust and reliable solution for processing a wide range of materials including film, labelstock, paper & board.

The range and specification of materials has improved and increased since many machines were commissioned and different production requirements are now required.

The vastly improved specification of the rewind arms now available provides more accurate winding and much improved quality of rewind reels. Productivity will be higher which helps to increase profitability.



Increased rewinding capacity



Heavy duty rewind arms

There are various options available including heavy duty units and non-driven chucks which enable lower tension control.

Rewind Arm & Knife Positioning Systems

The effective solution for resolving:

- **Obsolescence**
- **Prolonged machine downtime**
- **Low machine productivity**



Razor knife positioning system

In many cases, the positioning systems on Atlas primary slitter rewinders have been in operation for more than 20 years and are now considered to be obsolete technology.

Associated upgrades

- PLC and PC hardware
- Siemens S7 & Windows™ required
- Rewind arm positioning

Features

- Replacement of obsolete components:-
 - Smart Drive
 - SA14
 - Servo node 50

Benefits

- Ease of operator use
- Large PDF storage
- Clear diagnostics

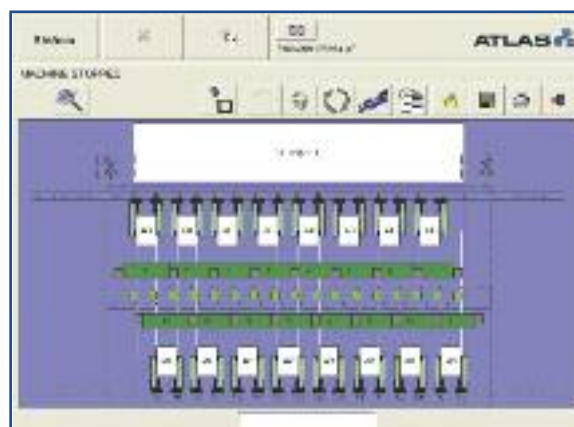
Atlas has developed a standard solution for the replacement of the old systems with the latest technology to improve machine performance and productivity.

The controller uses the latest technology with robust Ethernet control. This decreases communication errors caused by electrical noise.

This also ensures that the control system is robust enough to work in demanding production environments.



Rewind arm positioning system



Positioning software

Each motor has its own drive built-in to reduce electrical connections and increase reliability.

Drive Replacements

The effective solution for resolving:

- Expensive rewind drives
- Obsolete rewind drives:-
 - Infranor M59
 - Seidel
 - SCR Technology
 - Siemens Master



Atlas 3021 DC rewind drives

This upgrade offers the ability of replacing obsolete drives with current, tried and tested drive technology.

The Atlas DC drive suits all of the rewind motors used in this configuration, by using a simple plug-in calibration card.

Associated upgrades

- Harmonic drives
- Rewind arm refurbishments
- Rewind arm cable replacements
- PLC and PC hardware

Features

- Standard Atlas developed drive
- Compatible with existing motors
- Replaces obsolete drives
- AC drives as an option

Benefits

- Improved reliability
- Reduced downtime
- Less maintenance

The existing drive rack is replaced with a new easy-to-maintain unit.

Each drive is calibrated to the existing motor. This is done with a calibration card which makes maintenance easier.

If a drive fails it can be replaced and calibrated within a few minutes.



Atlas 0808 DC auxiliary drives



Siemens AC drives

AC drives are available for most of the Atlas range of slitter rewinders.

They provide improved control with lower maintenance making the machine much more reliable.

Contact Roll & Pneumatic Systems

The effective solution for resolving:

- *Costly air leaks*
- *Operator fatigue*
- *Poor contact roll control*



Quick-release contact roll clamping mechanism

Over the years, Atlas has made many improvements to its range of slitter rewinders.

One of these changes has been to improve the contact roll clamping mechanism.

Contact Rolls

- Rapid product change over times
- No tools required by operator
- Less damage to contact rolls

This reduces change-over times which can lead to increases in production.

It also makes the operator's job easier and more productive, with no tools required.



Contact roll pneumatic manifold

Pneumatic Services

- Reduced set-up times
- Pipe life increased
- Reduced points for air leaks
- Less maintenance

Pneumatic Control

- Improved control range
- Virtually calibrated for life
- Improved low pressure control



Contact roll control system

Together with pneumatic enhancements, this range of products can be installed on older machines to bring immediate benefits in roll quality and improved production.



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