



Upgrade solutions for control systems of winders, extruders, texturisers, and BCF/POY/FDY lines

Increase performance, decrease maintenance

Managing and operating earlier generation machinery can be challenging when dealing with end-of-life or obsolete components

Synthetic textile manufacturing units with legacy machines can lose their competitive edge due to quality and productivity issues. This is because maintaining legacy machinery is challenging when dealing with end-of-life or outdated components. Further, in the event of breakdown, non-availability of components can lead to significant downtime and production loss. The best way to meet the challenges and maintain the competitive edge, without the huge investment in new machinery, is to upgrade legacy machinery.

We can help make your earlier generation machines work for you!

A.T.E. can help plan, design, and execute a tailor-made upgrade solution for your synthetic machinery. Our experience and domain knowledge in textile machinery and our expertise in machine upgrade make us the right choice for your machine upgrade.

Benefits of our machine upgrade solutions:

Production, quality, operational benefits:



Enhances machine productivity and product quality



Online monitoring of utility consumption, quality and production parameters



User friendly operating system with various applications



Complete customisation as per customer's needs

Maintenance benefits:



Easier hardware and electronics maintenance



Low service and maintenance costs



Reduces operational cost and machine downtime



Easily available spares

Economic benefits:



Increase machine life by over 10 years



Reduced consumption of energy and other utilities



Immediate ROI



Most economical compared to investment in new machines

Other benefits:



Parameterisation for meeting production requirements



Online monitoring of machine data ready for IoT/Industry 4.0



Shift batch and quality reporting with SCADA systems



Visual process control using computers or HMIs

Upgrade of POY, FDY, and BCF winders and single screw extruders

Benefits:

- Improved and flexible winding
- Precise temperature and pressure control
- Integrated safety features
- Replace all existing end-of-life embedded hardware with latest PLCs, SCADA systems and HMIs
- Latest communication protocols ensure upgraded machines are future-ready
- Embedded OEM drives replaced with standard drives that are easily available
- Increase machine life by over 10 years



References:

- *AYM Syntex, Silvassa, India*
- *Asia Pacific Fibers, Semarang, Indonesia*
- *Indorama synthetics, Purwakarta, Indonesia*
- *Mutu Gading Tekstil, Indonesia*
- *Alok Industries, Silvassa, India*



References:

- *Asia Pacific Fibers, Semarang, Indonesia*
- *Indorama Synthetics, Purwakarta, Indonesia.*
- *Mutu Gading Tekstil, Indonesia*
- *Reliance Industries, Patalganga, India*
- *Universal Carpets, Bogor, Indonesia*

Upgrade of texturising machines

Benefits:

- Precise temperature control
- Integrated safety features
- Replace all existing end-of-life embedded hardware with latest PLCs, SCADA systems and HMIs
- Latest communication protocols ensure upgraded machines are future-ready
- Increase machine life by over 10 years



References:

- *Mutu Gading Tekstil, Indonesia*

Upgrade of BCF/POY/FDY godets systems

Benefits:

- Precise temperature control helps improve product quality
- Godets can be rotated to maximum speeds for specific deniers thereby increasing productivity
- Ramp-up and ramp-down time of godets is controlled; saves production cost
- Any drive can be connected to the godets thus ensuring independence from proprietary obsolete controls
- Integrated safety features
- Replace all existing end-of-life embedded hardware with latest PLCs, SCADA systems and HMIs
- Latest communication protocols ensure upgraded machines are future-ready
- Drives replaced with standard drives that are easily available
- Increase machine life by over 10 years



References:

- *AYM Syntex, Silvassa, India*
- *Asia Pacific Fibers, Semarang, Indonesia*
- *Indorama Synthetics, Purwakarta, Indonesia*
- *Muttugading Tekstil, Solo, Indonesia*
- *Universal Carpet, Bogor, Indonesia*



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