

TwineX4

Boost your revenue, profitability and sustainability with waterless digital thread and yarn dyeing technology on an industrial scale.

Ideal Applications

Threads

Garment
Manufacturing

Yarns

Decorative Knitting
Weaving



twine

Be Fast.

- Reduce lead times by more than 50%
- Accelerate order fulfillment & inventory turnover
- Reduce thread and yarn supplier dependency

Be Creative.

- Hit the trends with maximum creativity
- Extended color plate and unique gradients
- No more compromises with digital color matching

Be Sustainable.

- Waterless dyeing process
- OEKO-TEX ECO PASSPORT certified
- Reduce waste & CO₂ emissions

Introduce TwineX4 for production-scale advantages!

- In-house, on-demand, and ready-to-use
- Industry trending colors in hours, accelerate response to customer changes
- Increase efficiency and inventory turnover
- Minimize thread and yarn supply management costs and headaches
- New design capabilities and customization without overproducing
- Manufacture sustainably – waterless dyeing and less material waste



Manufacture sustainable products with TwineX4

Introducing TwineX4 to your operations allows you to significantly reduce water pollution, thread & yarn waste, overproduction, and CO₂ emissions, plus TwineX4 is safe and easy to operate.



OEKO
TEX®



CO₂
neutral



Up to
500,000
Liters Saved

A year, for a single
TwineX4 system



Up to
50%
Reductions in Annual
CO₂ Emissions

Contributing to your
company's positive
environmental impact



40%
Fewer Chemicals

Aligns with the UN
sustainable
development goals



Up to
50%
Inventory & Waste Saved
Each year due to
overproduction & high MOQs



twine



X4





Use Cases for TwineX4

Sewing production: 3,000 blouses

	Conventional Dyeing Supplier	TwineX4
Time	Sampling: 1 day Production: 7 days	Sampling: ¼ day Production: 2 days
Total Time	8 days	~2 days
Thread	700,000 m (MOQ)	660,000 m (required)

Savings
6 days
5.7% thread

(24 Tex Recycled PET)

Sampling & Production: 400 m woven tape (20 mm, 2 colors)

	Conventional Dyeing Supplier	TwineX4
Time	Sampling: 21 day Production: 6 days	Sampling: 2.25 days Production: 4 days
Total Time	27 days	6.25 days
Yarn MOQ	30 kg (MOQ)	2.4 kg (required)

Savings
21 days
92% yarn

(75 Denier Recycled PET)

Based on real customer data

The Results

- Agile and cost-effective small to medium lots, capsules, and samples
- Accelerate order fulfillment & inventory turnover
- Reduce inventory & associated costs
- Increase production throughput



TwineX4 Specifications



Dyeing Speed (Average)

21,600 m/ 23,622 yd per
hour, wound on 4-cones



Dimensions (H x W x D)

1.65 m x 5 m x 1.1 m/
5.41 ft x 16.4 ft x 3.6 ft
Weight 900 kg/ 1985 lb



Dyeing Technology

Continuous Digital
Selective Treatment
(CDST™)



Fiber Type

Polyester (PET, PBT, rPET)



Thread / Yarn Family

Core-spun, Filament



Thread / Yarn Weight

50-400 Denier*



Ink

Twine Digital Ink
(TDI™). OEKO-TEX ECO
PASSPORT certified



Machine Certification

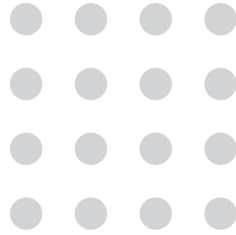
CE, UL



Compliance

Industry 4.0

*Dependent on specific thread / yarn properties



BE **Fast.**
Creative.
Sustainable.



twine-s.com

Follow us on social media



twine

