

First Class Laser Systems for Workflow-Driven Production for Print, Signage and Display



Jobs do not become profitable because a laser is fast. They become profitable when every stage of the workflow moves efficiently from job intake to delivery. Trotec Black Line helps organizations improve throughput, consistency, uptime, and delivery reliability through workflow-driven production.

Improving throughput starts with improving the workflow



Industry reality

Print, signage and display production has changed. Jobs arrive from agencies, customers, print departments, online systems, shared folders, and email. Files often require corrections before production can begin. Urgent requests compete with planned work, while teams must manage multiple applications, materials, deadlines, and operators simultaneously.

Typical challenges

- ▶ Multiple file sources
- ▶ Last-minute artwork changes
- ▶ Short-run production
- ▶ Mixed materials
- ▶ Tight delivery deadlines
- ▶ Frequent setup changes
- ▶ Repeatability requirements
- ▶ Production bottlenecks outside machine runtime



Where Trotec helps

Trotec focuses on workflow performance across:

- ▶ job intake
- ▶ preparation
- ▶ setup
- ▶ positioning
- ▶ production
- ▶ delivery
- ▶ maintenance

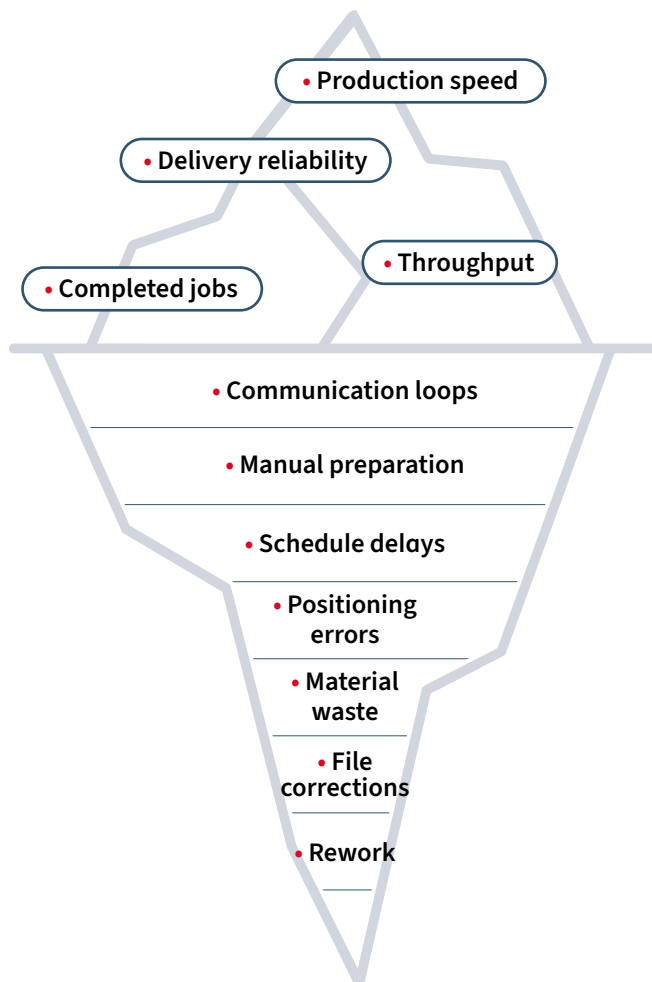


The result is a more structured workflow with fewer interruptions and greater production predictability.

Workflow excellence starts before production begins

Workflow inefficiencies are expensive

Most organizations focus on machine performance. Yet many production delays originate before the first job reaches the laser.



Time is lost when teams:

- ▶ search for files
- ▶ fix artwork
- ▶ recreate settings
- ▶ verify versions
- ▶ repeat setup work
- ▶ manually organize production queues

These hidden inefficiencies accumulate throughout the day.

The business consequences

- ▶ Reduced throughput.
- ▶ More preparation time means fewer completed jobs.
- ▶ Lower delivery reliability.
- ▶ Workflow delays make production planning less predictable.
- ▶ Increased dependency on individuals.
- ▶ Knowledge becomes concentrated within a small number of team members.
- ▶ Limited scalability.
- ▶ Growth becomes difficult when workflows are not standardized.

Trotec workflow philosophy

Professional organizations succeed because work moves efficiently through every stage of production.

Trotec Black Line helps create structured workflows that improve:

- ▶ setup efficiency
- ▶ throughput
- ▶ consistency
- ▶ uptime
- ▶ operator productivity
- ▶ delivery performance

From job intake to delivery: a workflow built for predictable production

Step 1: Order intake



Structured job intake & planning

Business challenge

Jobs arrive from multiple sources and often require manual organization.

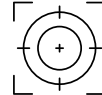
Trotec workflow contribution

Structured job intake, centralized workflow visibility, multi-user collaboration, and automated import processes help reduce manual handling.

Business impact

- ▶ Faster job acceptance
- ▶ Better planning
- ▶ Reduced administration
- ▶ Improved throughput

Step 3: Setup & positioning



Efficient setup & guided settings

Business challenge

Incorrect positioning creates waste and delays.

Trotec workflow contribution

Vision Design & Position and Vision Print & Cut support reliable placement and Print-to-Cut workflows.

Business impact

- ▶ Reduced scrap
- ▶ Faster setup
- ▶ Greater confidence
- ▶ Consistent output

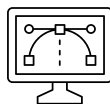
ORD
ORDER

1

2

3

Step 2: Job preparation



Purpose-driven automation

Business challenge

Preparation consumes valuable production capacity.

Trotec workflow contribution

Ruby® laser software enables preparation, organization, correction, and automation within a structured workflow platform.

Business impact

- ▶ Faster preparation
- ▶ Reduced errors
- ▶ Better consistency
- ▶ Higher productivity

Step 5: Post-processing & delivery



Clean operation & protected uptime

Business challenge

Clean processing workflows and reduced residue help improve turnaround times.

Trotec workflow contribution

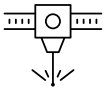
Automation-ready workflows, batch production, queue visibility, and standardized production settings help teams maintain flow.

Business impact

- ▶ Faster delivery
- ▶ Less rework
- ▶ Higher delivery reliability

4

Step 4: Production



Predictable production quality

Business challenge

High-mix production creates throughput pressure.

Trotec workflow contribution

Automation-ready workflows, batch production, queue visibility, and standardized production settings help teams maintain flow.

Business impact

- ▶ Increased throughput
- ▶ Greater scalability
- ▶ Consistent quality
- ▶ Better utilization

5

6

Step 6: Service & maintenance



Long-term reliability & expert support

Business challenge

Downtime disrupts schedules and impacts customers.

Trotec workflow contribution

Service, support, training, enablement, and connected monitoring help protect uptime.

Business impact

- ▶ Protected uptime
- ▶ Reduced interruptions
- ▶ Predictable performance
- ▶ Long-term reliability

FIN
FINISHED
PRODUCT

Why organizations choose Trotec



● Challenge



● Trotec contribution



● Business impact

Increase
throughput

Preparation and setup reduce production capacity.

Workflow automation and structured preparation.

More jobs completed per shift.

Improve
consistency

Different operators create different outcomes.

Standardized workflows and controlled settings.

Repeatable output

Accelerate
preparation

Preparation consumes valuable production time. incorrect data, files, or changes reach production.

Integrated workflow environment.

Shorter preparation cycles.

Reduce waste

Incorrect setup and positioning create scrap.

Guided positioning and workflow control.

Lower material losses.

Improve
workflow
performance

Productivity losses occur between production stages.

Connected workflow ecosystem.

Improved operational efficiency.

The expertise behind workflow-driven production

Trotec combines workflow expertise, software, automation, training, service, and support to help organizations improve performance across the entire production workflow.

The focus extends beyond equipment to include:



✓ Workflow expertise

Supporting operational improvement opportunities.

✓ Software ecosystem

Creating consistency across teams and processes.

✓ Automation readiness

Supporting scalable production environments.

✓ Training and enablement

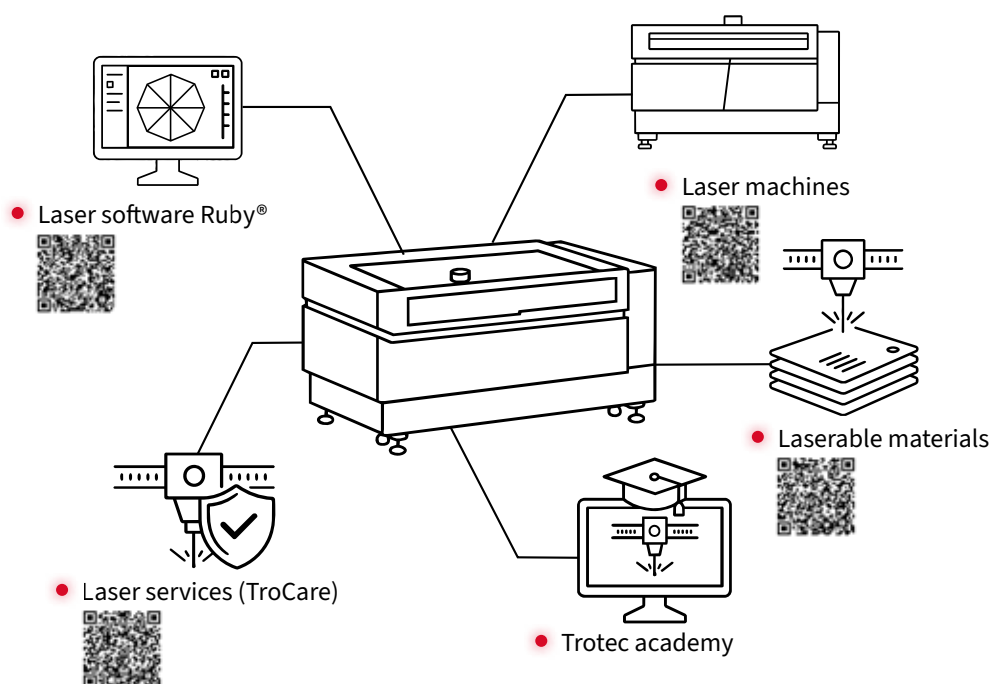
Helping teams build competence faster.

✓ Global service and support

Protecting uptime and long-term performance.

✓ Long-term partnership

Supporting business growth through workflow optimization.



Improve every stage of the workflow

Professional organizations compete on delivery reliability, throughput, and operational performance.

Trotec Black Line helps improve workflow performance from job intake through delivery and long-term operation.

► Trotec Laser GmbH

Austria

T +43 7242 239-7777

trotec@troteclaser.com

► Trotec Laser, Inc.

USA

T: 866-226-8505

sales@troteclaser.com

► Trotec Laser Canada

Canada

T: +1 800 663 1149

canada@troteclaser.com

► Trotec Laser Ltd

United Kingdom

T +44 (0)191 580 1182

enquiries@troteclaser.co.uk

► Trotec Laser Pty Ltd

Australia & New Zealand

T: 1300 876 832 / +612 64135904

info@troteclaser.com.au

 troteclaser.com

 /TrotecLaserOfficial

 /@TrotecLaserEngraving

 /company/troteclaser

 /troteclaser

 /@troteclaser

trotec



Best for print, signage & display: Speedy Black Line

First class laser systems for workflow driven production



Product availability and specifications may vary by region.
Subject to change without notice. Errors and omissions reserved.
Some images in this publication were created or modified using AI tools.
Issue 09/2026