

# Luxel T-X/ T-S CTP Series

PRODUCT BROCHURE

Luxel T-X5 / Luxel T-X4  
Luxel T-S3 / Luxel T-S2 /  
Luxel T-S1



**Luxel**

High quality thermal  
platesetters

# New generation of high quality, easy to operate thermal platesetters

The Luxel T-X and T-S next generation Luxel thermal platesetters use advanced multi-channel spatial light modulator technology to achieve outstanding quality, exposure stability, and high productivity. They are compact and easy to use, and include a range of advanced features. Five models in the range ensure suitability for diverse requirements, with manual loading, single cassette and multi-cassette options available.



## Flexible product lineup

A range of models are available to suit a variety of needs, from economic entry level to high speed variants offering excellent productivity. Manual loading, single cassette and multi-cassette options are available for each model.

## Compact design

State-of-the-art high performance mechanisms have been condensed into a compact design. When used with processless plates this results in an extremely compact footprint.

## Maximised image area

8mm clamps with an option for 6mm on the T-X model ensure compatibility with a wide range of web and sheet-fed presses.

## Easy operation

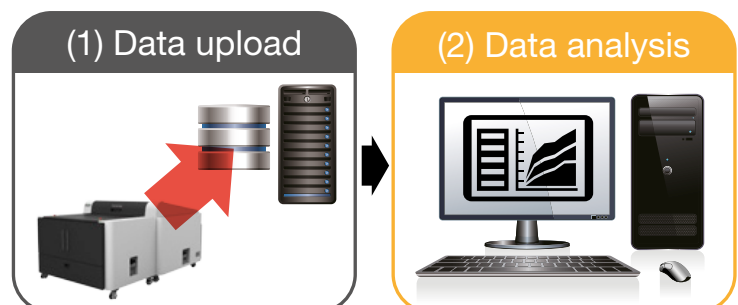
Job and system management is performed through a simple PC interface via a fiber-optic cable, allowing settings to be viewed on a large screen.

Efficient continuous operation is achieved as, even during plate output, plates can be loaded into multiple cassettes apart from the cassette in use.

## Remote maintenance

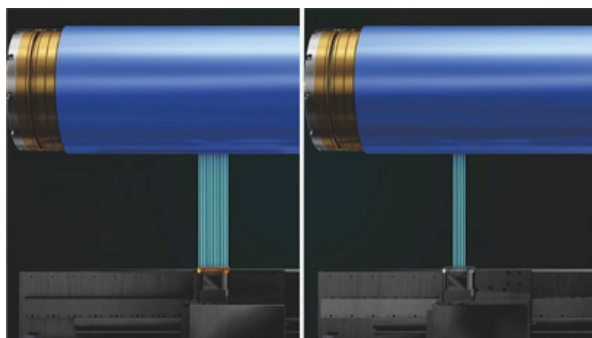
A remote maintenance service supports the indication and diagnosis of system status off site, along with guidance on timely maintenance and the replacement of consumables.

Data can be uploaded to a remote location, and analysis carried out to support more efficient diagnostics.



### Multiple channel spatial light modulator technology

The Luxel T-X4/X5 platesetters make use of a unique multi-channel laser carriage that uses spatial light modulator technology to split the laser beam into multiple channels for drawing sharp-edged square dots on the plate. This facilitates easier control of the energy in each channel to produce consistent and stable dots, and the lower power consumption also provides environmental benefits and cost savings.

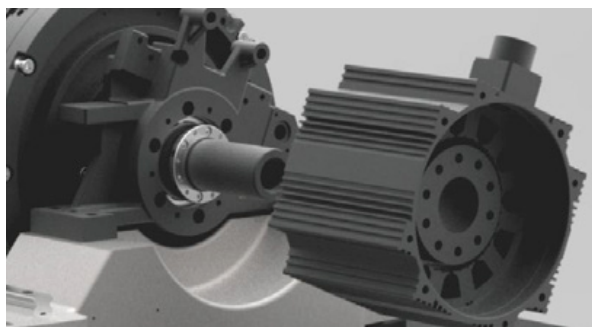


*Multiple channel spatial light modulator technology*

*Conventional optical fibre technology*

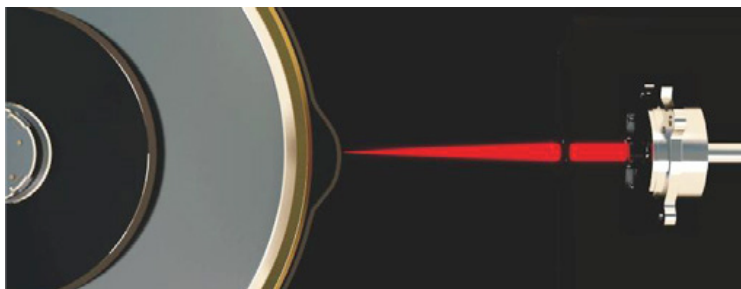
### Direct drive motor

With extremely high precision positioning, and fast acceleration, the direct drum drive motor significantly reduces load/unload times and greatly enhances efficiency compared to conventional belt-driven drum technologies.



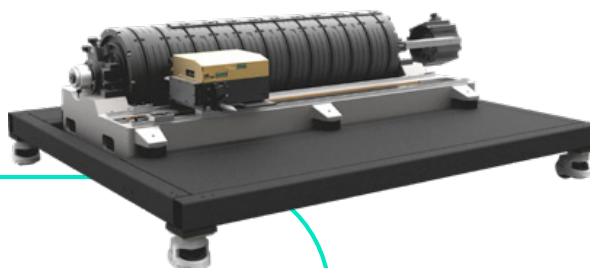
### Triangular-displacement dynamic autofocus system

Luxel T-X CTP systems use next-generation dynamic autofocus technology. Its precise ranging system driven by a voice coil motor can directly detect micron changes in distance to achieve constant and accurate focus. During the exposure process, the system measures and adjusts the distance between the plate and lens in real time, ensuring a constant exposure accuracy of the entire plate.



### Linear motor

The linear motor eliminates positioning deviations caused by intermediate links, resulting in ultra-precise positioning of the laser carriage. Apart from the guide rail, there is almost no mechanical friction. This increases unit stability, reduces any chance of failure, and maximises service life.



## Key Specifications

|                                                    |        | High speed model                                                                                                                                                                                                                                                            |                                                          | Standard model                                           |                                                          |                     |
|----------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|
| Name                                               |        | Luxel T-X5                                                                                                                                                                                                                                                                  | Luxel T-X4                                               | Luxel T-S3                                               | Luxel T-S2                                               | Luxel T-S1          |
| Exposing method                                    |        | External drum                                                                                                                                                                                                                                                               |                                                          |                                                          |                                                          |                     |
| Plate size                                         | max    | 1163mm × 940mm                                                                                                                                                                                                                                                              |                                                          |                                                          |                                                          |                     |
|                                                    | min    | 400mm × 300mm                                                                                                                                                                                                                                                               |                                                          |                                                          |                                                          |                     |
| Plate thickness                                    | max    | 0.3mm                                                                                                                                                                                                                                                                       |                                                          |                                                          |                                                          |                     |
|                                                    | min    | 0.15mm                                                                                                                                                                                                                                                                      |                                                          |                                                          |                                                          |                     |
| Exposing size                                      | max    | 1163mm × 924mm* <sup>3</sup>                                                                                                                                                                                                                                                |                                                          |                                                          |                                                          |                     |
|                                                    | min    | 400mm × 284mm                                                                                                                                                                                                                                                               |                                                          |                                                          |                                                          |                     |
| Type of laser head                                 |        | Light Valve Head                                                                                                                                                                                                                                                            |                                                          | Fibre Laser Diode Head                                   |                                                          |                     |
| Number of laser channels                           |        | ≥220                                                                                                                                                                                                                                                                        | ≥200                                                     | 64                                                       | 48                                                       | 32                  |
| Plate type                                         |        | Thermal aluminium plate                                                                                                                                                                                                                                                     |                                                          |                                                          |                                                          |                     |
| Resolution                                         |        | 2400 or 2540dpi (fixed)                                                                                                                                                                                                                                                     |                                                          |                                                          |                                                          |                     |
| Exposure                                           |        | Spiral exposure                                                                                                                                                                                                                                                             |                                                          |                                                          |                                                          |                     |
| Accuracy standard                                  |        | Plate Edge Detection                                                                                                                                                                                                                                                        |                                                          |                                                          |                                                          |                     |
| Output speed                                       |        | 55pph* <sup>1</sup>                                                                                                                                                                                                                                                         | 45pph* <sup>1</sup>                                      | 31pph* <sup>1</sup>                                      | 25pph* <sup>1</sup>                                      | 18pph* <sup>1</sup> |
|                                                    |        | 1030mm × 800mm, plate sensitivity 110mJ/cm <sup>2</sup>                                                                                                                                                                                                                     |                                                          |                                                          |                                                          |                     |
| Interface                                          |        | Optical fiber cable                                                                                                                                                                                                                                                         |                                                          |                                                          |                                                          |                     |
| Plate loading (mandatory selection* <sup>2</sup> ) |        | Manual loader (P)                                                                                                                                                                                                                                                           |                                                          |                                                          |                                                          |                     |
|                                                    |        | Single cassette (SCL)                                                                                                                                                                                                                                                       |                                                          |                                                          |                                                          |                     |
|                                                    |        | Multiple cassette (MCL, 4 cassette)                                                                                                                                                                                                                                         |                                                          |                                                          |                                                          |                     |
| Connection of processor                            |        | Output conveyor (included)                                                                                                                                                                                                                                                  |                                                          |                                                          |                                                          |                     |
| Punching system                                    |        | Option: internal punch three sets of plate holes                                                                                                                                                                                                                            |                                                          |                                                          |                                                          |                     |
| Workflow                                           |        | Supplied with 1 BIT TIFF Interface                                                                                                                                                                                                                                          |                                                          |                                                          |                                                          |                     |
| Safety regulation                                  |        | CE, NRTL, EMC, FDA                                                                                                                                                                                                                                                          |                                                          |                                                          |                                                          |                     |
| Environment                                        |        | Operating temperature range: 15 – 30°C, Recommended temperature: 21 – 25°C, Humidity : 40 – 70%                                                                                                                                                                             |                                                          |                                                          |                                                          |                     |
| Device size                                        |        | CTP manual loader (P): 1900mm x 2510mm x 1356mm (L x W x H)<br>CTP with standard single cassette unit (SCL): 1900mm x 3010mm x 1356mm (L x W x H)<br>CTP with multiple cassette unit (MCL): 1900mm x 3267mm x 1356mm (L x W x H)                                            |                                                          |                                                          |                                                          |                     |
| Weight                                             |        | Manual loader: 1100kg, Single cassette: 1250kg, Multi-cassette: 1650kg                                                                                                                                                                                                      |                                                          |                                                          |                                                          |                     |
| Power supply                                       | P      | single phase : 220V, 2.62kW                                                                                                                                                                                                                                                 | single phase : 220V, 2.73kW                              | single phase : 220V, 2.61kW                              | single phase : 220V, 2.49kW                              |                     |
|                                                    | SCL    | single phase : 220V, 2.82kW                                                                                                                                                                                                                                                 | single phase : 220V, 2.93kW                              | single phase : 220V, 2.81kW                              | single phase : 220V, 2.69kW                              |                     |
|                                                    | MCL    | single phase : 220V, 2.82kW<br>MCL loader : 220V, 0.85kW                                                                                                                                                                                                                    | single phase : 220V, 2.93kW<br>MCL loader : 220V, 0.85kW | single phase : 220V, 2.81kW<br>MCL loader : 220V, 0.85kW | single phase : 220V, 2.69kW<br>MCL loader : 220V, 0.85kW |                     |
|                                                    | Common | Power of vacuum box: 220V, 1.310kW                                                                                                                                                                                                                                          |                                                          |                                                          |                                                          |                     |
| Compressed air                                     |        | oil free ≥ 200L/min, ≥0.65MPa<br>CTP manual loader (P) : one line for CTP, Volume ≥65L<br>CTP with standard single cassette unit (SCL) : one line for CTP and SCL, Volume ≥135L<br>CTP with multiple cassette unit (MCL) : one line for CTP, one line for MCL, Volume ≥135L |                                                          |                                                          |                                                          |                     |
| Specification of PC for image control software     |        | PC required specification is as below.<br>- CPU: Intel Core i5 or above (Do Not use AMD)<br>- Memory: Minimum 16GB<br>- Storage: 256GB SSD (OS) + 1TB HDD (Data)<br>- Network: 1Gb Ethernet<br>- Interface: PCIe x1 Slot, USB 2.0<br>- OS: Windows 10 / 11 64bit (English)  |                                                          |                                                          |                                                          |                     |

Supplementary information

\*1 productivity is evaluated when using only positive plate.

\*2 Plate loading system is a factory option. Please contact Fujifilm for further information.

\*3 Maximum imaging area with standard 8mm clamps (6mm clamps option on T-X models only)

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