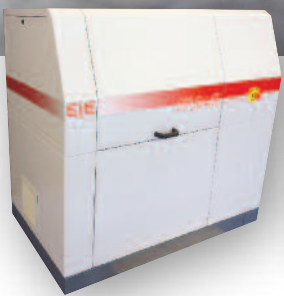
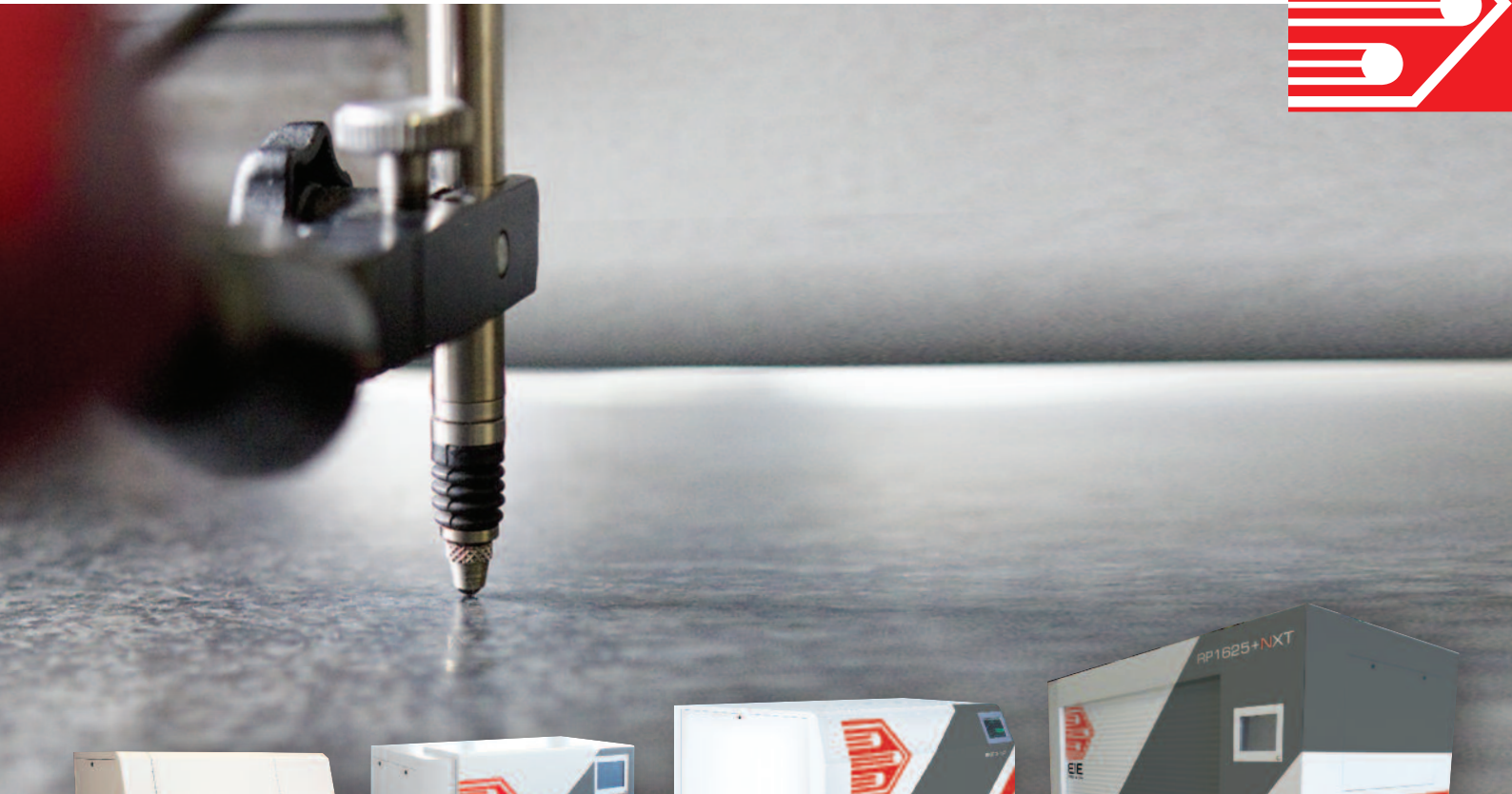
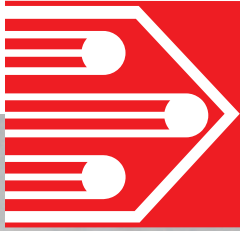


# The First EIE<sup>+</sup> Photoplotters<sup>+</sup>

## General Specifications



RP300 series



RP700 series



RP800 series

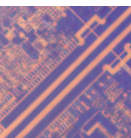


RP1600 series

### SWISS QUALITY



### The True Figures





# First EIE SA

The compact **RP300+LXT** line. 660 x 660 mm - 26" x 26"

|                                          |                                                                                                                        |                                                          | RP312+LXT | RP325+LXT |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------|-----------|
| Exposing unit                            | Max. Exposure area                                                                                                     | 660 x 660 mm (26" x 26")                                 | ●         | ●         |
|                                          | Compatible film lengths                                                                                                | 18", 20", 24", 25.5" and 26"                             | ●         | ●         |
|                                          | Compatible film widths                                                                                                 | Any width larger than 300 mm (12") up to 520 mm (20,5")  | ●         | ●         |
|                                          | Film thickness                                                                                                         | 0.18 mm (7 mils)                                         | ●         | ●         |
|                                          | Film holding                                                                                                           | By vacuum                                                | ●         | ●         |
|                                          | Drum speed                                                                                                             | Variable, up to 130 RPM                                  | ●         | ●         |
|                                          | Exposure device                                                                                                        | One 512 beam SDH3 head with light intensity equalization | ●         | ●         |
|                                          | Light wavelength                                                                                                       | Monochromatic red light, 647 nm                          | ●         | ●         |
|                                          | Position control                                                                                                       | Through high resolution encoder & Linear Glass Scale     | ●         | ●         |
| Built in Raster image processor          | Data input formats                                                                                                     | RS274D, RS274X, DPF and EIE RPL                          | ●         | ●         |
|                                          | Optional input formats                                                                                                 | ODB++, PostScript, TIFF-PACKBITS, PDF, AI                | Option    | Option    |
|                                          | Via third party software                                                                                               | DXF, DWG, other upon request                             | Option    | Option    |
|                                          | Network compatibility                                                                                                  | Network File System TCP-IP                               | ●         | ●         |
| User interface                           | Queue Manager Software supporting 30 plot queues.<br>Each one can be setup with more than 15 different plot parameters |                                                          | ●         | ●         |
|                                          | Digital Tablet                                                                                                         |                                                          | Option    | Option    |
| Environment monitoring                   | Temperature and humidity recorded for each plot                                                                        |                                                          |           | ●         |
| Integrated autoloader                    | Compatible film lengths                                                                                                | 18", 20", 24", 25.5" and 26"                             | ●         | ●         |
|                                          | Compatible film widths                                                                                                 | Any width larger than 300 mm (12") up to 520 mm (20,5")  | ●         | ●         |
|                                          | Film magazine                                                                                                          | Up to 50 films with automatic film counter               | ●         | ●         |
|                                          | Load / unload cycle                                                                                                    | 25 / 20 sec. for maximum film size                       | ●         | ●         |
|                                          | Daylight operation                                                                                                     | Yes, except during film refill and removal               | ●         | ●         |
| Size and weight                          | Length x Width x Height                                                                                                | 1450 x 870 x 1400 mm<br>(57" x 34,3" x 55,1")            | ●         | ●         |
|                                          | Weight                                                                                                                 | 620kg (1395 lbs) including single size autoloader        | ●         | ●         |
| Operating conditions                     | Temperature                                                                                                            | 20 ± 2° C                                                | ●         | ●         |
|                                          | Relative humidity                                                                                                      | 45% ± 3%                                                 | ●         | ●         |
|                                          | Power requirements                                                                                                     | 230 VAC ± 10%, 1400 W including vacuum pump              | ●         | ●         |
| Optional Film conveyor C300              | Compatibility                                                                                                          | Compatible with most film processors                     | ●         | ●         |
|                                          | Length x Width x Height                                                                                                | 880 x 760 x 140 mm (34,6" x 29,9" x 5,5")                | ●         | ●         |
|                                          | Weight                                                                                                                 | 41 kg (92 Lbs)                                           | ●         | ●         |
| Autoloader                               | Yes                                                                                                                    |                                                          | ●         | ●         |
| Spot size and selectable resolutions     | 6,3 µ and 2µ                                                                                                           | 4'000, 8'000 and 12'000 dpi                              | ●         |           |
|                                          | 6 µ, 3 µ, 2 µ and 1,5 µ                                                                                                | 4'000, 8'000, 12'000 and 16'000 dpi                      |           |           |
|                                          | 4 µ, 2 µ, 1.33 µ and 1 µ                                                                                               | 6'000, 12'000, 18'000 and 24'000 dpi                     |           | ●         |
| Carriage position control                | Linear glass scale                                                                                                     |                                                          | ●         | ●         |
| Exposure speed<br>(For a 24" x 20" plot) | FOR IMPERIAL MODE (i)                                                                                                  | Minutes at 4'000 dpi                                     | 2.1       |           |
|                                          |                                                                                                                        | Minutes at 6'000 dpi                                     |           | 2.0       |
|                                          |                                                                                                                        | Minutes at 8'000 dpi                                     | 3.2       |           |
|                                          |                                                                                                                        | Minutes at 12'000 dpi                                    | 4.8       | 4.8       |
|                                          |                                                                                                                        | Minutes at 16'000 dpi                                    |           |           |
|                                          |                                                                                                                        | Minutes at 18'000 dpi                                    |           | 7.9       |
|                                          |                                                                                                                        | Minutes at 24'000 dpi                                    |           | 14.4      |
|                                          |                                                                                                                        | Minutes at 48'000 dpi                                    |           |           |
|                                          | FOR METRIC MODE (m)                                                                                                    | Minutes at 6 µm                                          | 2.2       |           |
|                                          |                                                                                                                        | Minutes at 4 µm                                          |           | 2.8       |
|                                          |                                                                                                                        | Minutes at 3 µm                                          | 3.4       |           |
|                                          |                                                                                                                        | Minutes at 2 µm                                          | 5.1       | 3.8       |
|                                          |                                                                                                                        | Minutes at 1,5 µm                                        |           |           |
|                                          |                                                                                                                        | Minutes at 1.33 µm                                       |           | 9.0       |
|                                          |                                                                                                                        | Minutes at 1 µm                                          |           | 16.1      |
|                                          |                                                                                                                        | Minutes at 0.5 µm                                        |           |           |
| Overall accuracy                         | ± 10 µm (± 0.4 mil)                                                                                                    |                                                          | ●         | ●         |
| Repeatability                            | ± 3 µm (± 0.12 mil)                                                                                                    |                                                          | ●         | ●         |
| Minimum line width                       | 25 µm (1 mil)                                                                                                          | at 4'000 dpi                                             | ●         |           |
|                                          | 20 µm (0,8 mil)                                                                                                        | at 8'000 dpi                                             | ●         |           |
|                                          | 17 µm (0.67 mil)                                                                                                       | at 6'000 dpi                                             |           | ●         |
|                                          | 12 µm (0,5 mil)                                                                                                        | at 12'000 dpi                                            | ●         |           |
|                                          | 10 µm (0,47 mil)                                                                                                       | at 16'000 dpi                                            |           |           |
|                                          | 8 µm (0,3 mil)                                                                                                         | at 24'000 dpi                                            |           | ●         |
| Line width variation                     | Less than 3 µm peak to peak below 12'000 dpi                                                                           |                                                          | ●         | ●         |
|                                          | About 2 µm peak to peak at 12'000 dpi and above                                                                        |                                                          | ●         | ●         |



# First EIE SA

The cost effective **RP300+BXT** line. 914 x 660 mm - 36" x 26"

|                                          |                                                                                                                        |                                                          | RP312+BXT               | RP317+BXT | RP325+BXT |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------|-----------|-----------|
| Exposing unit                            | Max. Exposure area                                                                                                     | 914 x 660 mm (36" x 26")                                 | ●                       | ●         | ●         |
|                                          | Compatible film lengths                                                                                                | 18", 20", 24", 25.5", 26", 28", 30", 32" and 36"         | ●                       | ●         | ●         |
|                                          | Compatible film widths                                                                                                 | Any width larger than 300 mm (12") up to 660 mm (26")    | ●                       | ●         | ●         |
|                                          | Film thickness                                                                                                         | 0.18 mm (7 mils)                                         | ●                       | ●         | ●         |
|                                          | Film holding                                                                                                           | By vacuum                                                | ●                       | ●         | ●         |
|                                          | Drum speed                                                                                                             | Variable, up to 100 RPM                                  | ●                       | ●         | ●         |
|                                          | Exposure device                                                                                                        | One 512 beam SDH3 head with light intensity equalization | ●                       | ●         | ●         |
|                                          | Light wavelength                                                                                                       | Monochromatic red light, 647 nm                          | ●                       | ●         | ●         |
|                                          | Position control                                                                                                       | Through high resolution encoder & Linear Glass Scale     | ●                       | ●         | ●         |
| Built in Raster image processor          | Data input formats                                                                                                     | RS274D, RS274X, DPF and EIE RPL                          | ●                       | ●         | ●         |
|                                          | Optional input formats                                                                                                 | ODB++, PostScript, TIFF-PACKBITS, PDF, AI                | Option                  | Option    | Option    |
|                                          | Via third party software                                                                                               | DXF, DWG, other upon request                             | Option                  | Option    | Option    |
|                                          | Network compatibility                                                                                                  | Network File System TCP-IP                               | ●                       | ●         | ●         |
| User interface                           | Queue Manager Software supporting 30 plot queues.<br>Each one can be setup with more than 15 different plot parameters |                                                          | ●                       | ●         | ●         |
|                                          | Digital tablet                                                                                                         |                                                          | Option                  | Option    | Option    |
| Environment monitoring                   | Temperature and humidity recorded for each plot                                                                        |                                                          | With Dual loader option | ●         | ●         |
| Integrated autoloader                    | Compatible film lengths                                                                                                | 18", 20", 24", 25.5", 26", 28", 30", 32" and 36"         | ●                       | ●         | ●         |
|                                          | Film magazine                                                                                                          | Up to 100 films with automatic film counter              | ●                       | ●         | ●         |
|                                          | Compatible film widths                                                                                                 | Any width larger than 300 mm (12") up to 660 mm (26")    | ●                       | ●         | ●         |
|                                          | Load / unload cycle                                                                                                    | 35 / 25 sec. for maximum film size                       | ●                       | ●         | ●         |
|                                          | Daylight operation                                                                                                     | Yes, except during film refill and removal               | ●                       | ●         | ●         |
| Size and weight                          | Length x Width x Height                                                                                                | 1450 x 870 x 1400 mm<br>(57" x 34.3" x 55.1")            | ●                       | ●         | ●         |
|                                          | Weight                                                                                                                 | 620kg (1395 lbs) including single size autoloader        | ●                       | ●         | ●         |
| Operating conditions                     | Temperature                                                                                                            | 20 ± 2° C                                                | ●                       | ●         | ●         |
|                                          | Relative humidity                                                                                                      | 45% ± 3%                                                 | ●                       | ●         | ●         |
|                                          | Power requirements                                                                                                     | 230 VAC ± 10%, 1400 W including vacuum pump              | ●                       | ●         | ●         |
| Optional Film conveyor C300B             | Compatibility                                                                                                          | Compatible with most film processors                     | ●                       | ●         | ●         |
|                                          | Length x Width x Height                                                                                                | 880 x 760 x 140 mm (34.6" x 29.9" x 5.5")                | ●                       | ●         | ●         |
|                                          | Weight                                                                                                                 | 41 kg (92 Lbs)                                           |                         | ●         | ●         |
| Autoloader                               | Yes                                                                                                                    |                                                          | ●                       | ●         | ●         |
| Spot size                                | 6 µm (0,24 mil)                                                                                                        |                                                          | ●                       | ●         |           |
|                                          | 4 µm (0,16 mil)                                                                                                        |                                                          |                         |           | ●         |
| Selectable resolutions                   | 4'000, 8'000 and 12'000 dpi                                                                                            |                                                          | ●                       |           |           |
|                                          | 4'000, 8'000, 12'000 and 16'000 dpi                                                                                    |                                                          |                         | ●         |           |
|                                          | 6 µ, 3 µ, 2 µ and 1,5 µ                                                                                                |                                                          |                         | ●         |           |
|                                          | 6'000, 12'000, 18'000 dpi and 24'000 dpi                                                                               |                                                          |                         |           | ●         |
|                                          | 4 µ, 2 µ, 1.33 µ and 1 µ                                                                                               |                                                          |                         |           | ●         |
| Carriage position control                | Linear glass scale                                                                                                     |                                                          | ●                       | ●         | ●         |
| Exposure speed<br>(For a 34" x 20" plot) | FOR IMPERIAL MODE (i)                                                                                                  | Minutes at 4'000 dpi                                     | 2.1                     | 2.1       |           |
|                                          |                                                                                                                        | Minutes at 6'000 dpi                                     |                         |           | 2.6       |
|                                          |                                                                                                                        | Minutes at 8'000 dpi                                     | 3.2                     | 3.2       |           |
|                                          |                                                                                                                        | Minutes at 12'000 dpi                                    | 4.8                     | 4.8       | 4.8       |
|                                          |                                                                                                                        | Minutes at 16'000 dpi                                    |                         | 6.4       |           |
|                                          |                                                                                                                        | Minutes at 18'000 dpi                                    |                         |           | 7.9       |
|                                          |                                                                                                                        | Minutes at 24'000 dpi                                    |                         |           | 14.4      |
|                                          | FOR METRIC MODE (m)                                                                                                    | Minutes at 6 µm                                          | 2.2                     | 2.2       |           |
|                                          |                                                                                                                        | Minutes at 4 µm                                          |                         |           | 2.8       |
|                                          |                                                                                                                        | Minutes at 3 µm                                          | 3.4                     | 3.4       |           |
|                                          |                                                                                                                        | Minutes at 2 µm                                          | 5.1                     | 5.1       | 5.1       |
|                                          |                                                                                                                        | Minutes at 1,5 µm                                        |                         | 7.0       |           |
|                                          |                                                                                                                        | Minutes at 1.33 µm                                       |                         |           | 9.0       |
|                                          |                                                                                                                        | Minutes at 1 µm                                          |                         |           | 16.1      |
| Overall accuracy                         | ± 10 µm (± 0.4 mil)                                                                                                    |                                                          | ●                       | ●         | ●         |
| Repeatability                            | ± 3 µm (± 0.12 mil)                                                                                                    |                                                          | ●                       | ●         | ●         |
| Minimum line width                       | 35 µm (1,4 mil) at 4'000 dpi                                                                                           |                                                          | ●                       |           |           |
|                                          | 25 µm (1 mil) at 4'000 dpi                                                                                             |                                                          |                         | ●         |           |
|                                          | 20 µm (0,8 mil) at 8'000 dpi                                                                                           |                                                          | ●                       |           |           |
|                                          | 17 µm (0,67 mil) at 6'000 dpi                                                                                          |                                                          |                         |           | ●         |
|                                          | 12 µm (0,5 mil) at 12'000 dpi                                                                                          |                                                          | ●                       |           |           |
|                                          | 10 µm (0,47 mil) at 16'000 dpi                                                                                         |                                                          |                         | ●         |           |
| Line width variation                     | 8 µm (0,3 mil) at 24'000 dpi                                                                                           |                                                          |                         |           | ●         |
|                                          | Less than 3 µm peak to peak below 12'000 dpi                                                                           |                                                          | ●                       | ●         | ●         |
|                                          | About 2 µm peak to peak at 12'000 dpi and above                                                                        |                                                          | ●                       | ●         | ●         |



# First EIE SA

## The **NEW** high-end **RP700+NXT** line. 914 x 720 mm - 36" x 28"

|                                          |                                                  |                                                           | RP717+NXT<br>RP717+NXT/DL                                                                                              | RP725+NXT<br>RP725+NXT/DL | RP750+NXT<br>RP750+NXT/DL |
|------------------------------------------|--------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|
| Exposing unit                            | Max. Exposure area                               | 914 x 720 mm (36" x 28")                                  | ●                                                                                                                      | ●                         | ●                         |
|                                          | Compatible film lengths                          | 18", 20", 24", 25.5", 26", 28", 30", 32" and 36"          | ●                                                                                                                      | ●                         | ●                         |
|                                          | Compatible film widths                           | Any width larger than 400 mm (16") up to 720 mm (28")     | ●                                                                                                                      | ●                         | ●                         |
|                                          | Film thickness                                   | 0.18 mm (7 mils)                                          | ●                                                                                                                      | ●                         | ●                         |
|                                          | Film holding                                     | By vacuum                                                 | ●                                                                                                                      | ●                         | ●                         |
|                                          | Drum speed                                       | Variable, up to 100 RPM                                   | ●                                                                                                                      | ●                         | ●                         |
|                                          | Exposure device                                  | One 512 beam SDH3 head with light intensity equalization  | ●                                                                                                                      | ●                         | ●                         |
|                                          | Light wavelength                                 | Monochromatic red light, 647 nm                           | ●                                                                                                                      | ●                         | ●                         |
|                                          | Position control                                 | Through high resolution encoder & Linear Glass Scale      | ●                                                                                                                      | ●                         | ●                         |
| Built in Raster image processor          | Data input formats                               | RS274D, RS274X, DPF and EIE RPL                           | ●                                                                                                                      | ●                         | ●                         |
|                                          | Optional input formats                           | ODB++, PostScript, TIFF-PACKBITS, PDF, AI                 | Option                                                                                                                 | Option                    | Option                    |
|                                          | Via third party software                         | DXF, DWG, other upon request                              | Option                                                                                                                 | Option                    | Option                    |
|                                          | Network compatibility                            | Network File System TCP-IP                                | ●                                                                                                                      | ●                         | ●                         |
| User interface                           |                                                  |                                                           | Queue Manager Software supporting 30 plot queues.<br>Each one can be setup with more than 15 different plot parameters | ●                         | ●                         |
|                                          |                                                  |                                                           | Digital tablet                                                                                                         | ●                         | ●                         |
| Environment monitoring                   |                                                  |                                                           | Temperature and humidity recorded for each plot                                                                        | ●                         | ●                         |
| Single size autoloader                   | Compatible film lengths                          | 18", 20", 24", 25.5", 26", 28", 30", 32" and 36"          | ●                                                                                                                      | ●                         | ●                         |
|                                          | Film magazine                                    | Up to 100 films with automatic film counter               | ●                                                                                                                      | ●                         | ●                         |
| Dual size autoloader                     | Compatible film lengths 1° tray                  | 20", 24", 25.5", 26", 28", 30", 32" and 36"               | With Dual loader Option                                                                                                |                           |                           |
|                                          | 2° tray                                          | 18", 20", 24", 25.5" and 26"                              |                                                                                                                        |                           |                           |
|                                          | Film magazine                                    | Up to 150 films per each tray with automatic film counter | With Dual loader Option                                                                                                |                           |                           |
| Integrated autoloader                    | Compatible film widths                           | Any width larger than 400 mm (16") up to 720 mm (28")     | ●                                                                                                                      | ●                         | ●                         |
|                                          | Load / unload cycle                              | 35 / 25 sec. for maximum film size                        | ●                                                                                                                      | ●                         | ●                         |
|                                          | Daylight operation                               | Yes, except during film refill and removal                | ●                                                                                                                      | ●                         | ●                         |
| Size and weight                          | Length x Width x Height                          | 1450 x 870 x 1400 mm<br>(57" x 34.3" x 55.1")             | ●                                                                                                                      | ●                         | ●                         |
|                                          | Weight                                           | 620kg (1395 lbs) including single size autoloader         | ●                                                                                                                      | ●                         | ●                         |
|                                          |                                                  | 670kg (1507 lbs) including dual size autoloader           | With Dual loader Option                                                                                                |                           |                           |
| Operating conditions                     | Temperature                                      | 20 ± 2° C                                                 | ●                                                                                                                      | ●                         | ●                         |
|                                          | Relative humidity                                | 45% ± 3%                                                  | ●                                                                                                                      | ●                         | ●                         |
|                                          | Power requirements                               | 230 VAC ± 10%, 1400 W including vacuum pump               | ●                                                                                                                      | ●                         | ●                         |
| Optional Film conveyor C700              | Compatibility                                    | Compatible with most film processors                      | ●                                                                                                                      | ●                         | ●                         |
|                                          | Length x Width x Height                          | 880 x 760 x 140 mm (34.6" x 29.9" x 5.5")                 | ●                                                                                                                      | ●                         | ●                         |
|                                          | Weight                                           | 41 kg (92 Lbs)                                            | ●                                                                                                                      | ●                         | ●                         |
| Autoloader                               | Yes                                              |                                                           | ●                                                                                                                      | ●                         | ●                         |
| Spot size                                | 6 µm (0,24 mil)                                  |                                                           | ●                                                                                                                      |                           |                           |
|                                          | 4 µm (0,16 mil)                                  |                                                           |                                                                                                                        | ●                         | ●                         |
| Selectable resolutions                   | 4'000, 8'000, 12'000 and 16'000 dpi              |                                                           | ●                                                                                                                      |                           |                           |
|                                          | 6 µ, 3 µ, 2 µ and 1,5 µ                          |                                                           | ●                                                                                                                      |                           |                           |
|                                          | 6'000, 12'000, 18'000 dpi and 24'000 dpi         |                                                           |                                                                                                                        | ●                         |                           |
|                                          | 4 µ, 2 µ, 1.33 µ and 1 µ                         |                                                           |                                                                                                                        | ●                         |                           |
|                                          | 6'000, 12'000, 18'000, 24'000 dpi and 48'000 dpi |                                                           |                                                                                                                        |                           | ●                         |
|                                          | 4 µ, 2 µ, 1.33 µ, 1 µ and 0,5 µ                  |                                                           |                                                                                                                        |                           | ●                         |
| Exposure speed<br>(For a 34" x 20" plot) | FOR IMPERIAL MODE (i)                            |                                                           | Minutes at 4'000 dpi                                                                                                   | 2.1                       |                           |
|                                          |                                                  |                                                           | Minutes at 6'000 dpi                                                                                                   |                           | 2.6                       |
|                                          |                                                  |                                                           | Minutes at 8'000 dpi                                                                                                   | 3.2                       | 2.6                       |
|                                          |                                                  |                                                           | Minutes at 12'000 dpi                                                                                                  | 4.8                       | 4.8                       |
|                                          |                                                  |                                                           | Minutes at 16'000 dpi                                                                                                  | 6.4                       |                           |
|                                          |                                                  |                                                           | Minutes at 18'000 dpi                                                                                                  |                           | 7.9                       |
|                                          |                                                  |                                                           | Minutes at 24'000 dpi                                                                                                  |                           | 14.4                      |
|                                          |                                                  |                                                           | Minutes at 48'000 dpi                                                                                                  |                           | 28.3                      |
|                                          | FOR METRIC MODE (m)                              |                                                           | Minutes at 6 µm                                                                                                        | 2.2                       |                           |
|                                          |                                                  |                                                           | Minutes at 4 µm                                                                                                        |                           | 2.7                       |
|                                          |                                                  |                                                           | Minutes at 3 µm                                                                                                        | 3.4                       |                           |
|                                          |                                                  |                                                           | Minutes at 2 µm                                                                                                        | 5.1                       | 5.1                       |
|                                          |                                                  |                                                           | Minutes at 1,5 µm                                                                                                      | 7.0                       |                           |
|                                          |                                                  |                                                           | Minutes at 1.33 µm                                                                                                     |                           | 9.0                       |
|                                          |                                                  |                                                           | Minutes at 1 µm                                                                                                        |                           | 16.1                      |
|                                          |                                                  |                                                           | Minutes at 0,5 µm                                                                                                      |                           | 31.7                      |
| Overall accuracy                         | ± 10 µm (± 0.4 mil)                              |                                                           | ●                                                                                                                      | ●                         | ●                         |
| Repeatability                            | ± 3 µm (± 0.12 mil)                              |                                                           | ●                                                                                                                      | ●                         | ●                         |
| Minimum line width                       | 25 µm (1 mil)                                    | at 4'000 dpi                                              | ●                                                                                                                      |                           |                           |
|                                          | 17 µm (0.67 mil)                                 | at 6'000 dpi                                              |                                                                                                                        | ●                         | ●                         |
|                                          | 10 µm (0,47 mil)                                 | at 16'000 dpi                                             | ●                                                                                                                      |                           |                           |
|                                          | 8 µm (0,3 mil)                                   | at 24'000 dpi                                             |                                                                                                                        | ●                         | ●                         |
|                                          | Below 8 µm (0,2 mil)                             | at 50'000 dpi                                             |                                                                                                                        |                           | ●                         |
| Line width variation                     | Less than 3 µm peak to peak below 12'000 dpi     |                                                           | ●                                                                                                                      | ●                         | ●                         |
|                                          | About 2 µm peak to peak at 12'000 dpi and above  |                                                           | ●                                                                                                                      | ●                         | ●                         |





# First EIE SA

## The large size **RP800** line. 1422 x 864 mm - 56" x 34"

|                                                  |                                                                                                                     | RP812+BXT                                                | RP817+NXT | RP825+NXT | RP850+NXT |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------|-----------|-----------|
| <b>Exposing Unit</b>                             | Max. Exposure area                                                                                                  | 1422 x 864 mm (56" x 34")                                | ●         | ●         | ●         |
|                                                  | Compatible film lengths                                                                                             | 26", 30", 32", 36", 38", 42", 48", 54" and 56"           | ●         | ●         | ●         |
|                                                  | Compatible film widths                                                                                              | Any width larger than 508 mm (20") up to 864 mm (34")    | ●         | ●         | ●         |
|                                                  | Film thickness                                                                                                      | 0.18 mm (7 mils)                                         | ●         | ●         | ●         |
|                                                  | Film holding                                                                                                        | By vacuum                                                | ●         | ●         | ●         |
|                                                  | Drum speed                                                                                                          | Variable, up to 65 RPM                                   | ●         | ●         | ●         |
|                                                  | Exposure device                                                                                                     | One 512 beam STH3 head with light intensity equalization | ●         | ●         | ●         |
|                                                  | Light wavelength                                                                                                    | Monochromatic red light, 647 nm                          | ●         | ●         | ●         |
|                                                  | Position control                                                                                                    | Through high resolution encoder and glass scale          | ●         | ●         | ●         |
| <b>Built-in Raster Image Processor</b>           | Data input formats                                                                                                  | RS274D, RS274X, DPF and EIE RPL                          | ●         | ●         | ●         |
|                                                  | Optional input formats                                                                                              | ODB++, PostScript, TIFF-PACKBITS, PDF, AI                | Option    | Option    | Option    |
|                                                  | Via third party software                                                                                            | DXF, DWG, other upon request                             | Option    | Option    | Option    |
|                                                  | Network compatibility                                                                                               | Network File System TCP-IP                               | ●         | ●         | ●         |
| <b>User Interface</b>                            | Queue Manager Software supporting 30 plot queues. Each one can be setup with more than 15 different plot parameters | ●                                                        | ●         | ●         | ●         |
|                                                  | Digital Tablet                                                                                                      | ●                                                        | ●         | ●         | ●         |
| <b>Environment monitoring</b>                    | Temperature and humidity recorded for each plot                                                                     | Option                                                   | ●         | ●         | ●         |
| <b>Single size integrated autoloader</b>         | Compatible film lengths                                                                                             | 26", 30", 32", 36", 38", 42", 48", 54" and 56"           | ●         | ●         | ●         |
|                                                  | Compatible film widths                                                                                              | Any width larger than 508 mm (20") up to 864 mm (34")    | ●         | ●         | ●         |
|                                                  | Film magazine                                                                                                       | Up to 50 films with automatic film counter               | ●         | ●         | ●         |
|                                                  | Load / unload cycle                                                                                                 | 50 / 40 sec. for maximum film size                       | ●         | ●         | ●         |
|                                                  | Daylight operation                                                                                                  | Yes, except during film refill and removal               | ●         | ●         | ●         |
| <b>Size and Weight</b>                           | Length x width x height                                                                                             | 1600 x 1160 x 1700 mm (63" x 46" x 67")                  | ●         | ●         | ●         |
|                                                  | Weight                                                                                                              | 650 kg (1450 lbs) including autoloader                   | ●         | ●         | ●         |
| <b>Operating Conditions</b>                      | Temperature                                                                                                         | 20 ± 2° C                                                | ●         | ●         | ●         |
|                                                  | Relative humidity                                                                                                   | 45% ± 3%                                                 | ●         | ●         | ●         |
|                                                  | Power requirements                                                                                                  | 230 VAC ± 10%, 1400 W including vacuum pump              | ●         | ●         | ●         |
| <b>Film Conveyor C800</b>                        | Compatibility                                                                                                       | Compatible with most film processors                     | ●         | ●         | ●         |
|                                                  | Length x width x height                                                                                             | 1676 x 915 x 140 mm (66" x 36" x 5.5")                   | ●         | ●         | ●         |
|                                                  | Weight                                                                                                              | 80 kg (178 Lbs)                                          | ●         | ●         | ●         |
| <b>Spot size and selectable resolution</b>       | 6 µm (0.24 mil)                                                                                                     | 4'000, 8'000 and 12'000 dpi                              | ●         |           |           |
|                                                  | 6 µm (0.24 mil)                                                                                                     | 4'000, 8'000, 12'000 and 16'000 dpi                      |           | ●         |           |
|                                                  | 4 µm (0.16 mil)                                                                                                     | 6'000, 12'000, 18'000, 24'000 dpi and 48'000 dpi         |           |           | ●         |
| <b>Exposure speed<br/>(For a 54" x 20" plot)</b> | <b>FOR IMPERIAL MODE (i)</b>                                                                                        | Minutes at 4'000 dpi                                     | 3.0       | 3.0       |           |
|                                                  |                                                                                                                     | Minutes at 6'000 dpi                                     |           |           | 3.6       |
|                                                  |                                                                                                                     | Minutes at 8'000 dpi                                     | 4.8       | 4.8       |           |
|                                                  |                                                                                                                     | Minutes at 12'000 dpi                                    | 7.2       | 7.2       | 7.2       |
|                                                  |                                                                                                                     | Minutes at 16'000 dpi                                    |           | 9.6       |           |
|                                                  |                                                                                                                     | Minutes at 18'000 dpi                                    |           |           | 11.9      |
|                                                  |                                                                                                                     | Minutes at 24'000 dpi                                    |           |           | 21.7      |
|                                                  |                                                                                                                     | Minutes at 48'000 dpi                                    |           |           | 42.6      |
|                                                  | <b>FOR METRIC MODE (m)</b>                                                                                          | Minutes at 6 µm                                          | 3.1       | 3.1       |           |
|                                                  |                                                                                                                     | Minutes at 4 µm                                          |           |           | 3.8       |
|                                                  |                                                                                                                     | Minutes at 3 µm                                          | 5.1       | 5.1       |           |
|                                                  |                                                                                                                     | Minutes at 2 µm                                          | 7.6       | 7.6       | 7.6       |
|                                                  |                                                                                                                     | Minutes at 1.5 µm                                        |           | 7.8       |           |
|                                                  |                                                                                                                     | Minutes at 1.33 µm                                       |           |           | 13.5      |
|                                                  |                                                                                                                     | Minutes at 1 µm                                          |           |           | 24.3      |
|                                                  |                                                                                                                     | Minutes at 0.5 µm                                        |           |           | 45.5      |
| <b>Overall Accuracy</b>                          | ± 20 µm (± 0.78 mil)                                                                                                | ●                                                        | ●         | ●         | ●         |
| <b>Repeatability</b>                             | ± 5 µm (± 0.2 mil)                                                                                                  | ●                                                        | ●         | ●         | ●         |
| <b>Minimum line width</b>                        | 35 µm (1.4 mil) at 4'000 dpi                                                                                        | ●                                                        | ●         |           |           |
|                                                  | 20 µm (0.8 mil) at 8'000 dpi                                                                                        | ●                                                        | ●         |           |           |
|                                                  | 12 µm (0.5 mil) at 12'000 dpi                                                                                       |                                                          | ●         | ●         | ●         |
| <b>Line width variation</b>                      | Less than 3 µm peak to peak below 12'000 dpi                                                                        | ●                                                        | ●         | ●         | ●         |
|                                                  | About 2 µm peak to peak at 12'000 dpi and above                                                                     | ●                                                        | ●         | ●         | ●         |



# First EIE SA

The super large size **RP1600+NXT** line. 2450 x 1600 mm - 96" x 63"

RP1625+NXT

|                                                  |                                                                                                                        |                                                        |        |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------|
| <b>Exposing Unit</b>                             | Max. Exposure area                                                                                                     | 2450 x 1600 mm (96" x 63")                             | •      |
|                                                  | Compatible film lengths                                                                                                | From 1016 mm (40") to 2450 mm (96")                    | •      |
|                                                  | Compatible film widths                                                                                                 | Any width larger than 762 mm (30") up to 1600 mm (63") | •      |
|                                                  | Film thickness                                                                                                         | 0.18 mm (7 mils)                                       | •      |
|                                                  | Film holding                                                                                                           | By vacuum                                              | •      |
|                                                  | Drum speed                                                                                                             | Variable, up to 55 RPM                                 | •      |
|                                                  | Exposure device                                                                                                        | 512 beam STH3 head with light intensity equalization   | •      |
|                                                  | Light wavelength                                                                                                       | Monochromatic red light, 647 nm                        | •      |
|                                                  | Drum position control                                                                                                  | High resolution encoder                                | •      |
| <b>Built-in Raster Image Processor</b>           | Data input formats                                                                                                     | RS274D, RS274X, DPF and EIE RPL                        | •      |
|                                                  | Optional input formats                                                                                                 | ODB++, PostScript, TIFF-PACKBITS, PDF, AI              | Option |
|                                                  | Via third party software                                                                                               | DXF, DWG, other upon request                           | Option |
|                                                  | Network compatibility                                                                                                  | Network File System TCP-IP                             | •      |
| <b>User Interface</b>                            | Queue Manager Software supporting 30 plot queues.<br>Each one can be setup with more than 15 different plot parameters |                                                        | •      |
|                                                  | Digital Tablet                                                                                                         |                                                        | •      |
|                                                  |                                                                                                                        |                                                        |        |
| <b>Integrated Autoloader</b>                     | Compatible film lengths                                                                                                | From 1016 mm (40") to 2450 mm (96")                    | •      |
|                                                  | Compatible film widths                                                                                                 | Any width larger than 762 mm (30") up to 1600 mm (63") | •      |
|                                                  | Film magazine                                                                                                          | Up to 1 x 15 films with automatic film counter         | •      |
|                                                  | Load / unload cycle                                                                                                    | 45 / 60 sec. for maximum film size                     | •      |
|                                                  | Daylight operation                                                                                                     | Yes, except during film refill and removal             | •      |
| <b>Size and Weight</b>                           | Length x width x height                                                                                                | 1400 x 2430 x 2005 mm<br>(55.1" x 95.7" x 78.9")       | •      |
|                                                  | Weight                                                                                                                 | 1100 kg (2425 lbs) including autoloader                | •      |
|                                                  |                                                                                                                        |                                                        |        |
| <b>Operating Conditions</b>                      | Temperature                                                                                                            | 20 ± 2° C                                              | •      |
|                                                  | Relative humidity                                                                                                      | 45% ± 3%                                               | •      |
|                                                  | Power requirements                                                                                                     | 230 VAC ± 10%, 1400 W including vacuum pump            | •      |
| <b>Film Conveyor C1000</b>                       | Allows the direct transfer of exposed films to the film processor in daylight condition.                               |                                                        | •      |
|                                                  | Can be connected on site between the back of the photoplotter and the entrance of the film processor.                  |                                                        | •      |
|                                                  | Max film Width 1600 mm (63")                                                                                           |                                                        | •      |
| <b>Autoloader</b>                                | Yes                                                                                                                    |                                                        | •      |
| <b>Spot size</b>                                 | 4 µm (0.16 mil)                                                                                                        |                                                        | •      |
| <b>Selectable resolutions</b>                    | 6'000, 12'000, 18'000 and 24'000 dpi                                                                                   |                                                        | •      |
|                                                  | 4 µ, 2 µ, 1.33 µ and 1 µ                                                                                               |                                                        | •      |
| <b>Carriage position control</b>                 | Linear glass scale                                                                                                     |                                                        | •      |
| <b>Exposure speed<br/>(For a 54" x 20" plot)</b> | <b>FOR IMPERIAL MODE (i)</b>                                                                                           | Minutes at 6'000 dpi                                   | 3.6    |
|                                                  |                                                                                                                        | Minutes at 12'000 dpi                                  | 7.2    |
|                                                  |                                                                                                                        | Minutes at 18'000 dpi                                  | 11.9   |
|                                                  |                                                                                                                        | Minutes at 24'000 dpi                                  | 21.7   |
|                                                  | <b>FOR METRIC MODE (m)</b>                                                                                             | Minutes at 4 µm                                        | 3.8    |
|                                                  |                                                                                                                        | Minutes at 2 µm                                        | 7.6    |
|                                                  |                                                                                                                        | Minutes at 1.33 µm                                     | 13.5   |
|                                                  |                                                                                                                        | Minutes at 1 µm                                        | 24.3   |
|                                                  |                                                                                                                        |                                                        |        |
|                                                  |                                                                                                                        |                                                        |        |
| <b>Overall Accuracy</b>                          | ± 30 µm (± 1.2 mil)                                                                                                    |                                                        | •      |
| <b>Repeatability</b>                             | ± 5 µm (± 0.12 mil)                                                                                                    |                                                        | •      |
| <b>Minimum line width</b>                        | 17 µm (0.67 mil) at 6'000 dpi                                                                                          |                                                        | •      |
|                                                  | 12 µm (0.5 mil) at 12'000 dpi                                                                                          |                                                        | •      |
|                                                  | 8 µm (0.3 mil) at 24'000 dpi                                                                                           |                                                        | •      |
| <b>Line width variation</b>                      | Less than 3 µm peak to peak below 12'000 dpi                                                                           |                                                        | •      |
|                                                  | About 2 µm peak to peak at 12'000 dpi and above                                                                        |                                                        | •      |