

# Linotype-Hell Quasar Type 4570 + OLP (Film and Polyester CTP)



## **Linotype-Hell Quasar Type 4570**

The Quasar is a laser imagesetter with internal drum principle for the exposure of PostScript files.

The PostScript files are converted in the connected RIP (Raster Image Processor) in pixel files and sent to the quasar.

Exposure is made on photographic material (film or paper) in daylight operation. As light source a laser diode was used with light emission in the visible red (670nm).

The maximum exposure size is 505mm x 525mm.

### **Flächenbelichter**

The quasar is a Flächenbelichter. The recording beam illuminates the document, not character by character, but the line moves record for recording line across the entire width of the photographic material.

This method requires the recording of the set of data calculated in pixels (dots) break before beginning the exposure. The number of pixels per inch (pixels / cm) or dots per inch (dpi = dots per inch) is the selected resolution.

## **Technical data**

System Description: High Precision Laser imagesetter

Light source: laser diode emitting at 670nm to 680nm

Exposure principle: deflection of the light beam over a rotary,  
lufgelagertes prism; drum technology

Control: Control is on the speedway  
Interface.

Connections: SpeedWay interface  
1 x Power Supply  
1 x connection for online processor

Image area: 525mm x 505mm (20.7 inches x 19.9 inches) at  
Positive Exposure, scan line length 505mm  
(Inside circumference of the drum)

Photo materials: Film and RC Paper

Photo Packaging Material: Roll, emulsion inside light-tight,  
packed roll core diameter 50.7 mm,  
with special side flanges;  
Special packaging for insertion of the

Photographic material in the input tray for  
Daylight.

Material thickness: 0.10 mm

Material width: 280 mm 11.0 inches

310 mm 12.2 inches

340 mm 13.4 inches

370 mm 14.6 inches

400 mm 15.7 inches

430 mm 16.9 inches

470 mm 18.5 inches

500 mm 19.7 inches

530 mm 20.9 inches

Material lengths in the input tray:

max. 60 m feet (200) with a material thickness of  
0.1 mm, dependent on material.

In the output tray:

30 m (100 feet) at a thickness of  
0.10 mm, dependent on material.

Resolutions / Spot Size: Spot size

1333 pixels / cm (3387 dpi) = 7.5 11 at

1000 pixels / cm (2540 dpi) = 10.0 to 11 at

666 pixels / cm (1693 dpi) = 15.0 to 16 at

500 pixels / cm (1270 dpi) = 20.0 to 21 at

Maximum speed recorder:

Velocity resolution resolution

cm / min inch / min pixels / cm dpi

22.0 8.7 1333 3387

29.3 11.5 1000 2540

44.0 17.3 666 1693

58.7 23.1 500 1270

Maximum: + - 5 microns (+ -0.2 mil)

Repeatability (specified within the entire

Temperature and humidity range in

constant for 4 and Condition

successive film exposures at

Full Format.)

Variant Edition: positive, negative, right and reversed

Register system (punch): Bacher Control 2000 "on a long  
Format as the default page

Voltage range: 90 to 264 volts

Frequency response: 47Hz to 63Hz

Phases: Single Phase

Rated voltage: 100 volts - 240 volts or

Rated frequency: 50 Hz/60 Hz

Current consumption: max 4 A.

Environmental conditions:

Operating temperature: +18 ° C to + 30 ° C

Storage temperature: -10 ° C to + 50 ° C

Relative humidity (non-condensing): 45% to 85%

Dimensions: width 1200 mm (47.2 inches)  
1100 mm (43.3 inches) tall  
750 mm (29.5 inches) deep

Installation weight: about 300 kg (540 lbs)

Shipping Weight: about 350 kg (630 lbs)



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