UV REPLICATION SYSTEMS

FOR NANO & MICRO STRUCTURES

XRD Nano Limited
United Kingdom

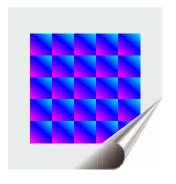






Process





Polymer Master

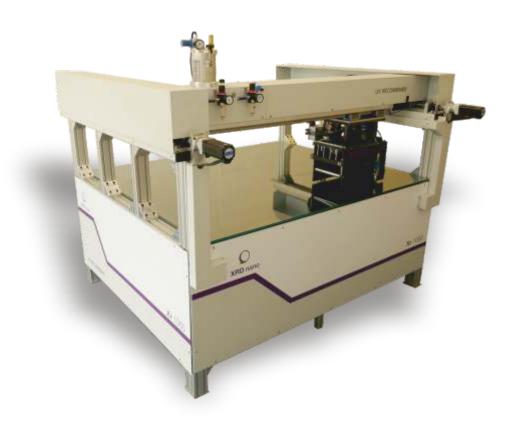




Machine Layout











Technical features

UV Print Head

UV print head will enable the printing of diffraction/Hologram/Nano Structures in Register to a fixed '0' position. Addition capacity for background designs and creations of wide web images.

Inside the head has 1x unwind + and 1x rewind cylinders, which hold the polymer shim for replication.

Active working area: 1000 mm x 1000 mm (Any other size that a customer requires is also possible)

The maximum size of a single Image for replication is 125mm x 125mm.

The replication depth is 20 microns. For anything more than this, we need to test

Image placement accuracy = +/- 0.005 mm

Running Accuracy = +/- 0.005 mm





Available sizes of UV recombiner



Size: 1000 mm x 1000 mm

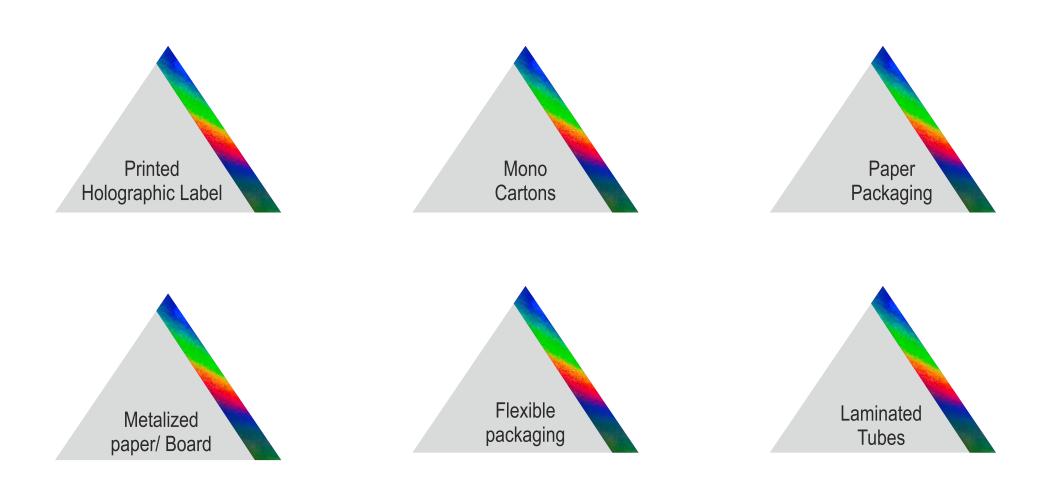
Size: 2000 mm x 1000 mm







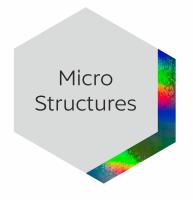
UV Recombiner applications in packaging

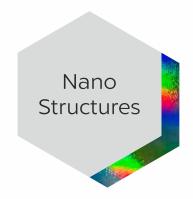


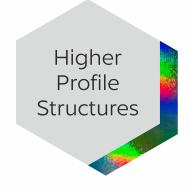


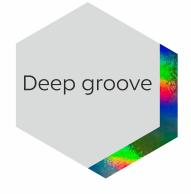


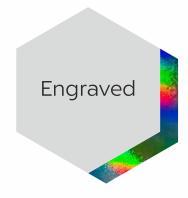
Holography











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