



## Standard UPD system specification

Item	Value	Unit	Notes
<b>Motion properties</b>			
XY axis standard working area	200 x 200	mm	Up to 300 mm (12" Silicon Wafer)
XY axis max motors working velocity	50	mm/s	
XY axis motor repeatability	± 0.5	µm	High precision linear motors
XY axis motor resolution	160	nm	Minimum incremental motion
Z axis precision travel range	26	mm	
Z axis motor max velocity	5	mm/s	
Z axis motor repeatability	± 0.2	µm	
Z axis motor resolution	50	nm	Digital encoder
Z1 axis coarse travel range	100	mm	Optional, Up to 300 mm
<b>Process information</b>			
Standard nozzle opening diameter	1.5; 3.5; 5; 8; 10; 20	µm	Special openings on demand
Typical dispensing velocity XTPL CL85 paste	30	µm/s	for 1 µm line width
	up to 2	mm/s	for 5 µm line width
	up to 10	mm/s	for 20 µm line width
Minimum line width for standard	1	µm	Single-pass, XTPL CL85 ink
Line-width variation	< 5	%	Base on line width 5 µm
Printing materials capability	min 20	cP	XTPL High-concentration metallic nanopaste, polymers, solder paste, isolators, quantum dots and more
	>1000000	cP	
Process monitoring	Yes		Real time by motorized microscopic cameras
Process control system	Yes		Software, workstation with peripherals, DXF path import, manual programming, substrate mapping

UPD system specification can be tailored to the specific use applications

## Contact our team

✉ [sales@xtpl.com](mailto:sales@xtpl.com)

XTPL S.A.

[xtpl.com](http://xtpl.com)

Stabłowicka 147, 54-066 Wrocław, Poland

[f](#) [t](#) [v](#) [in](#)