



Nd - YAG Lamp Pumped System				
Nd:YAG Laser System	Servo	Super Servo	Magnetic Super Servo	Super Servo Brutter
Wavelength	1064 nm	1064 nm	1064 nm	1064 nm
Beam Mode	TEM ₀₀	TEM ₀₀	TEM ₀₀	TEM ₀₀
Beam Polarisation	Vertical	Vertical	Vertical	Vertical
Beam Diameter at l/e2	0.9 mm	0.9 mm	0.9 mm	0.9 mm
Beam Divergence at l/e 2 (max)	2.0 mr	2.0 mr	2.0 mr	2.0 mr
Beam Stability at 10-500 khz	5% rms	5% rms	5% rms	5% rms
Output Power	14 - 18 Watts	18 - 22 Watts	18 - 22 Watts	18 - 22 Watts
Q-Switch Performance				
Peak Power (min)	50 kw	50 kw	50 kw	50 kw
Energy/Pulse (min)	4 mJ	4 mJ	4 mJ	4 mJ
Pulse Width(max)	80 nsec	80 nsec	80 nsec	80 nsec
Peak of Peak instability(max)	< 5% pk-pk	< 5% pk-pk	< 5% pk-pk	< 5% pk-pk
Motion Controller :-				
X - Y Axes				
Travel Range	150 x 150 mm	150 x 150 mm	150 x 150 mm	150 x 150 mm
Control System	Servo motor & Rotary Encoder	Servo motor & Rotary Encoder	Linear servo motor & Linear Encoder	Servo motor & Rotary Encoder
Resolution	0.5 micron	0.5 micron	0.5 micron	0.5 micron
Accuracy	2.0 micron	2.0 micron	1.0 micron	2.0 micron
Z - Axes				
Travel Range	60 mm	60 mm	60 mm	60 mm
Control System	Servo Motor & Rotary Encoder	Servo Motor & Rotary Encoder	Servo Motor & Rotary Encoder	Servo Motor & Rotary Encoder
Rotary Axes Brutting	-----	-----	Linear Interpolation	Rotary Axes With Servo Motor & Rotary Encoder
Cooling System	Single Water (De-ionized)	Single Water (De-ionized)	Single Water (De-ionized)	Single Water (De-ionized)
Electrical Supply	380 VAC, 50/60 Hz 3 Phases, 16 amps/phase	380 VAC, 50/60 Hz 3 Phases, 16 amps/phase	380 VAC, 50/60 Hz 3 Phases, 16 amps/phase	380 VAC, 50/60 Hz 3 Phases, 16 amps/phase
Mechanical Structure	(in inches) 65(L) x 28(W) x 60(H)	(in inches) 65(L) x 28(W) x 60(H)	(in inches) 65(L) x 28(W) x 60(H)	(in inches) 65(L) x 28(W) x 60(H)