

Millennium Lasers Ltd.
Units 4 & 5
Llan Coed Court
Llandarcy
Neath
U.K.
SA10 6FG

Tel: 0044 (0) 1792 321828

Email: millenniumlasers@gmail.com

ML150 LASER TUBE

Wavelength	10.6 microns nominal
Maximum Power CW	175 Watts
Typical Power Range	30-160 Watts
Power Stability	+/- 3% (after 5-minute warm-up period)
Transverse Mode	TEM00 ($M^2 \sim 1.1$)
Beam Diameter	6.8 mm ($1/e^2$)
Full Divergence	2.2 mrad ($1/e^2$)
Pointing Stability	150 microrads
Polarisation	Random
Power Source	Positive HV / 1-32mA DC / >45Kv start voltage HV sited at tube rear
Modulation	Up to 1-KHz (5-KHz special)
Cooling	>3 litre/minute @ 18-30 Celsius. H2O/Glycol Bubble free
Tube Length	<1850mm
Tube Diameter	80mm
Laser Warranty	2-years from shipping date includes unlimited free laser tube regas over this period (excludes failures from glass fracture)
Tube Life Rating	85% of rated power before regas
Warranty Basis	Return to factory

Millennium Laser Systems
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ML130 LASER TUBE

Wavelength	10.6 microns nominal
Maximum Power CW	150 Watts
Typical Power Range	25-140 Watts
Power Stability	+/- 3% (after 5-minute warm-up period)
Transverse Mode	TEM00 ($M^2 \sim 1.1$)
Beam Diameter	6.5 mm ($1/e^2$)
Full Divergence	2.2 mrad ($1/e^2$)
Pointing Stability	150 microrads
Polarisation	Random
Power Source	Positive HV / 1-32mA DC / >40Kv start voltage HV sited at tube rear
Modulation	Up to 1-KHz (5-KHz special)
Cooling	>3 litre/minute @ 18-30 Celsius. H2O/Glycol Bubble free
Tube Length	~1650mm
Tube Diameter	80mm
Laser Warranty	2-years from shipping date includes unlimited free laser tube regas over this period (excludes failures from glass fracture)
Tube Life Rating	85% of rated power before regas
Warranty Basis	Return to factory

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ML100 LASER TUBE

Wavelength	10.6 microns nominal
Maximum Power CW	120 Watts
Power Range	18-110 Watts
Power Stability	+/- 3% (after 5-minute warm-up period)
Transverse Mode	TEM00 ($M^2 \sim 1.1$)
Beam Diameter	5.7 mm ($1/e^2$)
Full Divergence	2.5 mrad ($1/e^2$)
Pointing Stability	150 microrads
Polarisation	Random
Power Source	Positive HV / 1-30mA DC / >40Kv start voltage HV sited at tube rear
Modulation	Up to 1-KHz (5-KHz special)
Cooling	>2 litre/minute @ 18-30 Celsius. H2O/Glycol Bubble free
Tube Length	~1450mm
Tube Diameter	80mm
Laser Warranty	2-years from shipping date includes unlimited free laser tube regas over this period (excludes failures from glass fracture)
Tube Life Rating	85% of rated power before regas
Warranty Basis	Return to factory

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ML90 LASER TUBE

Wavelength	10.6 microns nominal
Maximum Power CW	100W Watts
Power Range	15-95 Watts
Power Stability	+/- 3% (after 5-minute warm-up period)
Transverse Mode	TEM00 ($M^2 \sim 1.1$)
Beam Diameter	5.1 mm ($1/e^2$)
Full Divergence	2.75 mrad ($1/e^2$)
Pointing Stability	150 microrads
Polarisation	Random
Power Source	Positive HV / 1-30mA DC / >30Kv start voltage HV sited at tube rear
Modulation	Up to 1-KHz (5-KHz special)
Cooling	>2 litre/minute @ 18-30 Celsius. H2O/Glycol Bubble free
Tube Length	~1250mm
Tube Diameter	80mm
Laser Warranty	2-years from shipping date includes unlimited free laser tube regas over this period (excludes failures from glass fracture)
Tube Life Rating	85% of rated power before regas
Warranty Basis	Return to factory

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ML70 LASER TUBE

Wavelength	10.6 microns nominal
Maximum Power CW	75W Watts
Power Range	10-70 Watts
Power Stability	+/- 3% (after 5-minute warm-up period)
Transverse Mode	TEM00 ($M^2 \sim 1.1$)
Beam Diameter	4.5 mm ($1/e^2$)
Full Divergence	2.75 mrad ($1/e^2$)
Pointing Stability	150 microrads
Polarisation	Random
Power Source	Positive HV / 1-30mA DC / >25Kv start voltage HV sited at tube rear
Modulation	Up to 1-KHz (5-KHz special)
Cooling	>2 litre/minute @ 18-30 Celsius. H2O/Glycol Bubble free
Tube Length	~1200mm
Tube Diameter	50mm
Laser Warranty	2-years from shipping date includes unlimited free laser tube regas over this period (excludes failures from glass fracture)
Tube Life Rating	85% of rated power before regas
Warranty Basis	Return to factory

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ML70 LASER TUBE

Wavelength	10.6 microns nominal
Maximum Power CW	73W Watts
Power Range	15-70 Watts
Power Stability	+/- 3% (after 5-minute warm-up period)
Transverse Mode	TEM00 ($M^2 \sim 1.1$)
Beam Diameter	4.0 mm ($1/e^2$)
Full Divergence	3.0 mrad ($1/e^2$)
Pointing Stability	150 microrads
Polarisation	Random
Power Source	Positive HV / 1-30mA DC / >25Kv start voltage HV sited at tube rear
Modulation	Up to 1-KHz (5-KHz special)
Cooling	>2 litre/minute @ 18-30 Celsius. H2O/Glycol Bubble free
Tube Length	~1200mm
Tube Diameter	50mm
Laser Warranty	2-years from shipping date includes unlimited free laser tube regas over this period (excludes failures from glass fracture)
Tube Life Rating	85% of rated power before regas
Warranty Basis	Return to factory

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ML60 LASER TUBE

Wavelength	10.6 microns nominal
Maximum Power CW	63W Watts
Power Range	15-60 Watts
Power Stability	+/- 3% (after 5-minute warm-up period)
Transverse Mode	TEM00 ($M^2 \sim 1.1$)
Beam Diameter	4.0 mm ($1/e^2$)
Full Divergence	3.0 mrad ($1/e^2$)
Pointing Stability	150 microrads
Polarisation	Random
Power Source	Positive HV / 1-30mA DC / >25Kv start voltage HV sited at tube rear
Modulation	Up to 1-KHz (5-KHz special)
Cooling	>2 litre/minute @ 18-30 Celsius. H2O/Glycol Bubble free
Tube Length	~1000mm
Tube Diameter	50mm
Laser Warranty	2-years from shipping date includes unlimited free laser tube regas over this period (excludes failures from glass fracture)
Tube Life Rating	85% of rated power before regas
Warranty Basis	Return to factory

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ML40 LASER TUBE

Wavelength	10.6 microns nominal
Maximum Power CW	45W Watts
Power Range	15-40 Watts
Power Stability	+/- 3% (after 5-minute warm-up period)
Transverse Mode	TEM00 ($M^2 \sim 1.1$)
Beam Diameter	4.0 mm ($1/e^2$)
Full Divergence	3.0 mrad ($1/e^2$)
Pointing Stability	150 microrads
Polarisation	Random
Power Source	Positive HV / 1-25mA DC / >20Kv start voltage HV sited at tube rear
Modulation	Up to 1-KHz (5-KHz special)
Cooling	1-2 litre/minute @ 18-30 Celsius. H2O/Glycol Bubble free
Tube Length	<800mm
Tube Diameter	50mm
Laser Warranty	2-years from shipping date includes unlimited free laser tube regas over this period (excludes failures from glass fracture)
Tube Life Rating	85% of rated power before regas
Warranty Basis	Return to factory

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ML30 LASER TUBE

Wavelength	10.6 microns nominal
Maximum Power CW	36W Watts
Power Range	5-33 Watts
Power Stability	+/- 3% (after 5-minute warm-up period)
Transverse Mode	TEM00 ($M^2 \sim 1.1$)
Beam Diameter	3.8 mm ($1/e^2$)
Full Divergence	3.1 mrad ($1/e^2$)
Pointing Stability	150 microrads
Polarisation	Random
Power Source	Positive HV / 1-25mA DC / >20Kv start voltage HV sited at tube rear
Modulation	Up to 1-KHz (5-KHz special)
Cooling	1-2 litre/minute @ 18-30 Celsius. H2O/Glycol Bubble free
Tube Length	<700mm
Tube Diameter	50mm
Laser Warranty	2-years from shipping date includes unlimited free laser tube regas over this period (excludes failures from glass fracture)
Tube Life Rating	85% of rated power before regas
Warranty Basis	Return to factory

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ML20 LASER TUBE

Wavelength	10.6 microns nominal
Maximum Power CW	25W Watts
Power Range	12-22 Watts
Power Stability	+/- 3% (after 5-minute warm-up period)
Transverse Mode	TEM00 ($M^2 \sim 1.1$)
Beam Diameter	3.8 mm ($1/e^2$)
Full Divergence	3.3 mrad ($1/e^2$)
Pointing Stability	150 microrads
Polarisation	Random
Power Source	Positive HV / 1-20mA DC / >20Kv start voltage HV sited at tube rear
Modulation	Up to 1-KHz (5-KHz special)
Cooling	>1 litre/minute @ 18-30 Celsius. H2O/Glycol Bubble free
Tube Length	~650mm
Tube Diameter	50mm
Laser Warranty	2-years from shipping date includes unlimited free laser tube regas over this period (excludes failures from glass fracture)
Tube Life Rating	85% of rated power before regas
Warranty Basis	Return to factory