



CIN : U33125KL1993PTC006984  
GST No: 32AAACH9492C1ZQ

ISO 9001:2015

**HOLMARC**  
OPTO-MECHATRONICS PVT.LTD

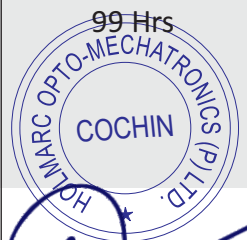
B-7., H.M.T. Industrial Estate, H.M.T. PO, Kalamassery  
Kochi - 683 503 Kerala, India.  
Email : sales@holmarc.com, PH : 91-484-2540075

**HOLMARC/GEM**  
**03.08.2021**

The details called for are furnished below

**G.2 MONTHLY MANUFACTURING CAPACITY**

Sl No.	Category	Description	Monthly Production Capacity	Total Hours taken for completion of 1 product
1	Coating Machine	Holmarc's SILAR Coating System has been designed to automate the entire process to avoid operator fatigue and errors associated with it. In manual SILAR process, the operator has to perform hundreds of repetitive dipping into the solution and water.	8 Nos.	178 Hrs
2	Research Syringe pump	A syringe pump is a device which can either infuse or withdraw liquid samples/fluids, at user defined flow rates and with selectable target volumes. Syringe pumps with simultaneous infusion and withdrawal with opposing syringes on a single drive.	10 Nos.	99 Hrs
3	Activity Based Educational Kits for Physics	Michelson interferometer is a widely used instrument for measuring wavelength of light, refractive index of transparent materials etc. The interferometer (Model No. HO-ED-INT-06) is designed and constructed in modular fashion.	5 Nos.	112 Hrs



**JOLLY CYRIAC**  
Managing Director



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Business Hours  
Monday to Saturday: 9:00am - 5:00pm





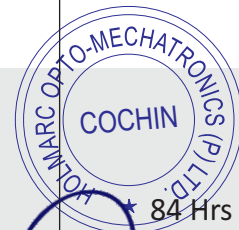
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4	Cut-off Wheel	An optical chopper is a mechanical device which physically chops a light beam into discrete light pulses. It is widely used in various optical experiments. It modulates different light sources with given frequency for their subsequent analysis.	10 Nos.	93 Hrs
5	Laboratory Benches	Honeycomb tabletops from Holmarc provide rigid and stable optical working surfaces with the convenience of tapped holes at 25mm grid for mounting components and modules. Honeycomb core made of 0.25mm thick aluminium sheet.	4 Nos.	32 Hrs
6	Coating Machine	Holmarc's HO-NFES-040 model electrospinning equipment is a complete unit for Nanofiber electrospinning. It is used to make nano and micro fibers ranging from 50nm to 5 microns in diameter.	4 Nos.	363 Hrs
7	Coating Machine	Holmarc's Spin Coater, Model no: HO-TH-05 is a dedicated tabletop system to spin coat small substrates in research laboratories with well controlled spin process parameters.	10 Nos.	84 Hrs
8	Coating Machine	Holmarc's Spray Pyrolysis system has been designed for research laboratories in thin films, especially for solar cell development. The system automates various fatigue and error creating processes involved in the technique when performed manually.	4 Nos.	274 Hrs



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SI No	Items	Fabrication / Breadboard	Machine Shop	Mech / Optics Electronics Assembly	Testing	Total
1	SILAR Coating System	24 hrs	73 hrs	25 + 32 hrs	24 hrs	178 hrs
2	Research Syringe Pump	16 hrs	38 hrs	13 + 16 hrs	16 hrs	99 hrs
3	Michelson Interferometer	32 hrs	36 hrs	12 + 16 hrs	16 hrs	112 hrs
4	Optical chopper	16 hrs	18 hrs	6 + 16 hrs	37 hrs	93 hrs
5	Honeycomb tabletops	20 hrs	-	8 hrs	4 hrs	32 hrs
6	Nanofiber Electrospinning	135 hrs	112 hrs	37 + 43 hrs	36 hrs	363 hrs
7	Spin coater	16 hrs	27 hrs	9 + 16 hrs	16 hrs	84 hrs
8	Spray Pyrolysis Equipment	80 hrs	79 hrs	27 + 56 hrs	32 hrs	274 hrs

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	OCTOBER	NOVEMBER	DECEMBER
No. of People at Manufacturing Unit	195/221	195/221	196/222:
No. of Working hours per day	8Hrs	8hrs	8hrs
No. of Working days in a month	23	25	25
	APRIL	MAY *	JUNE
No. of People at Manufacturing Unit	202/228	202/228	202/228 :
No. of Working hours per day	8Hrs	8hrs	8hrs
No. of Working days in a month	23	24	26

\* We were closed for a week. After that 50% were permitted to work in May. Fully opened from June 16th. This was because of COVID 19.

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