

COMPUTER AIDED MANUFACTURING AND AUTOMATION LABORATORY (CAMAL)

List of Equipment



DENFORD STARTURN (UK) TRAINER LATHE MACHINE

Supplier/Manufacturer:

DENFORD MACHINE TOOLS

MTAB MADRAS (INDIA)

Year of Purchase: 1994

Approx. Cost: £ 7350

Technical Specifications:

Length	700mm
Width	555mm
Height	480mm
Weight	89Kg
Max. Turned Length	225mm
Max. Turned Dia.	150mm
Height	480mm
Swing Over Bed	200mm
Swing Over Cross slide	80mm
'X' Axis Travel	150mm
'Z' Axis Travel	225mm
Drive Motor	0.45Kw/0.6 HP DC



DENFORD NOVAMILL (UK) TRAINER MILLING

Supplier/Manufacturer:

DENFORD MACHINE TOOLS

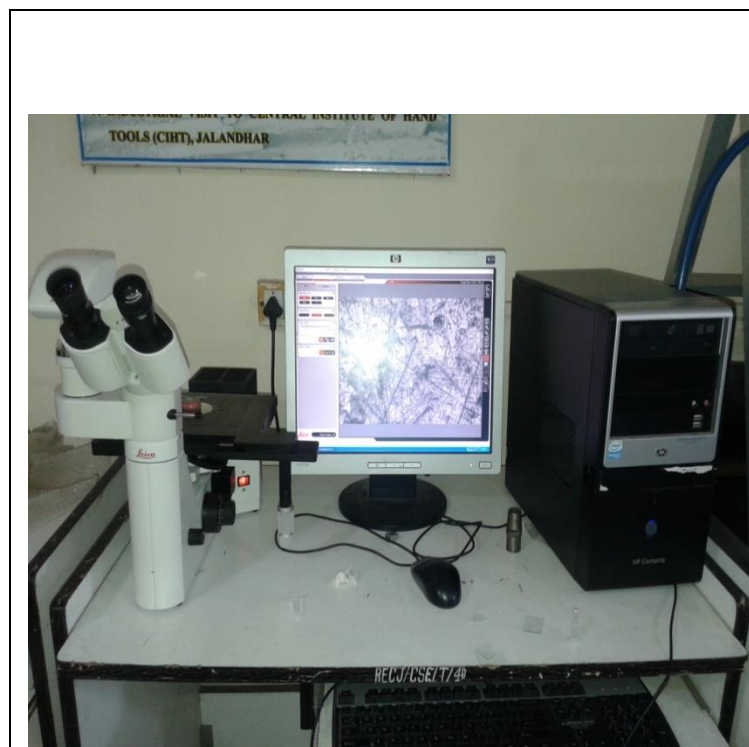
MTAB MADRAS (INDIA)

Year of Purchase: 1995

Approx. Cost: £ 15445

Technical Specifications:

Length	900mm
Width	890mm
Overall Height	660mm
Max. Cross Travel	150mm
Max. Longitudinal Travel	225mm
Max. Head Travel	115mm



METALLURGICAL MICROSCOPE

Supplier/Manufacturer:

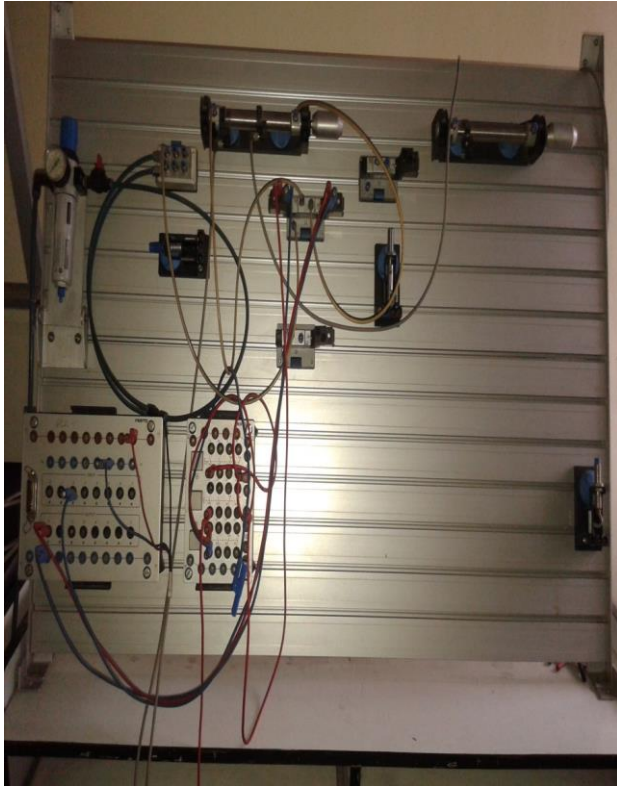
Leica/ Lab India Instruments (P) Ltd.

Year of Purchase: 2007

Approx. Cost: 8,66000 /-

Technical Specifications:

1000 X

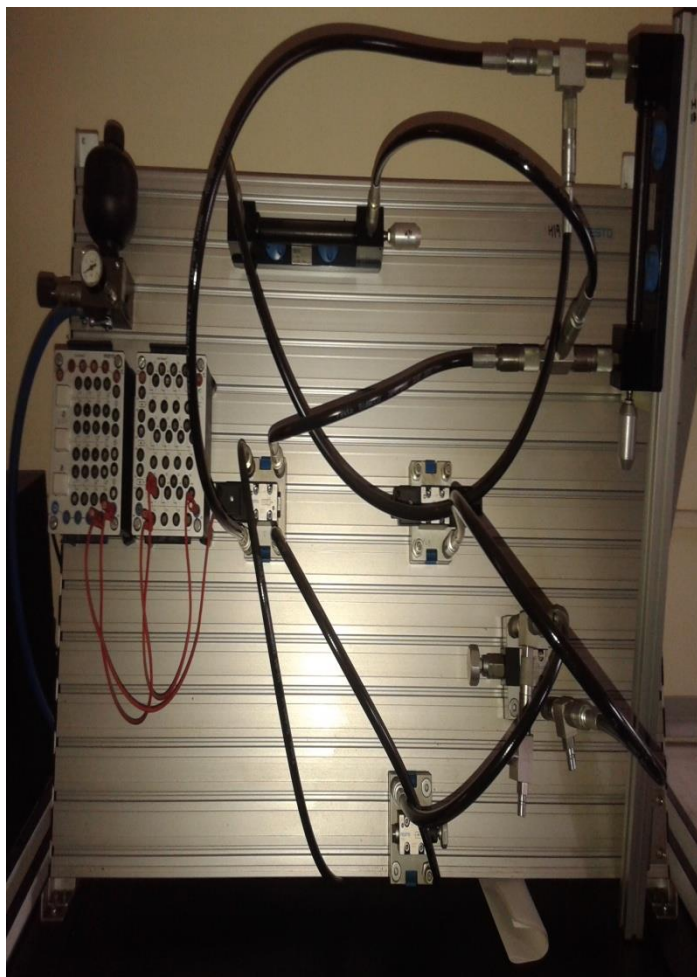


BASIC PLC TRAINER KIT

Supplier/Manufacturer:
FESTO CONTROLS PVT. LTD.
BENGLORE

Year of Purchase: 2006
Approx. Cost: 2,50,000/-

Technical Specifications:
8 INPUT
8 OUTPUT



ADVANCED ELECTROHYDRAULIC TRAINER KIT

Supplier/Manufacturer:

FESTO CONTROLS PVT. LTD. BENGLORE

Year of Purchase: 2007

Approx. Cost: 9,87780/-

Technical Specifications:

1	Profile plate	1 No.
2	plastic tubing 10mtr	1 No.
3	single acting cylinder	1 No.
4	double acting cylinder	2 No.
5	start up valve with filter regulator	1 No.
6	manifold	1 No.
7	relay 3 fold	2 Pcs.
8	electrical signal input	2 Pcs.
9	electrical indicator unit & distributor	2 Pcs.
10	3/2 S.sol with LED	1 Pcs.
11	5/2 S.sol LED	2 Pcs.
12	5/2 D.sol LED	3 Pcs.
13	Set of Cobles	1 Pcs.
14	Electrical limit switch- left activated	1 Pcs.
15	Electrical limit Switch- Right activated	1 Pcs.
16	Equipment Tray	1 Pcs.
17	Power Supply	1 No.
18	Plug in Adoppter set	1 No.
19	Quick pull push connector	1 No.
20	Time relay 2 fold	1 No.
21	Preset counter electrical incremental type	2No.
22	Emergency Stop Button	1 No.
23	Proxymity Switch (inductive)	1 No.
24	Proxymity Switch(optical)	1 No.
25	Proxymity Switch(capacitive)	1 No.

ADVANCED ELECTROPNEUMATIC TRAINER KIT

Supplier/Manufacturer:

SMC Pneumatic (India) PVT. LTD.

Year of Purchase: 2008

Approx. Cost: 3,75,000/-

Technical Specifications:



1	profile plate	1
2	hydraulic power pack	1
3	drip tray	1
4	mounting profile	1
5	hydraulic oil 20 ltrs.	1
6	hose 600	3
7	hose 1000	3
8	hose 1500	2
9	double acting cylinder	1
10	4/2 way hand lever valve	1
11	pressure relief valve	1
12	check valve	1
13	shut off valve	1
14	weight	1
15	one way flow control valve	1
16	T connector	2
17	2-way flow control valve	1
18	pressure guage	2
19	relay, 3-fold	2
20	signal output- electrical	1
21	indicator and distributor unit, electrical	1
22	4/2 way solenoid valve	1
23	4/3 way solenoid valve closed position	1
24	limit switch, electrical, operation from left	2
25	limit switch, electrical, operation from right	2
26	power supply unit	1
27	set of cables	1
28	set of adapters	1
29	relay 3-way	2
30	time relay	1
31	pre-set counter electrical ,incrementing	1
32	indicator ad distributor unit	1
33	pressure switch	1

	34	tee connector	4
	35	pressure relief valve, piloted	1
	36	3-way pressure reducing valve	1
	37	4/2 way solenoid valve	1
	38	double acting cylinder 16/10/200	1
	39	diaphragm accumulator with shut off block	1
	40	emergency stop button, electrical	1
	41	proximity switch, inductive	1
	42	proximity switch, capacitive	1
	43	proximity switch, optical	1
	44	flow divider	1
	45	shut-off/counter balancing valve	1
	46	equipment tray	1

	<p align="center">N1 COMPACT DAQ</p> <p>Supplier/Manufacturer:NI</p> <p>Year of Purchase:</p> <p>Technical Specifications: LabVIEW Software</p>

	DESIGN EXPERT Software
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