

Hytech Automation – Pneumatic Training Modules

Details of Pneumatic Training Kit Modules:			
Module No	Description	Qty	Make
1	Basic Pneumatic Module 1		
1.1	FRL Unit with Pressure Gauge	1	SMC / Festo
1.2	Junction Box with 8 ports	2	SMC / Festo
1.3	Isolation box with 8 ports	1	SMC / Festo
1.4	Three Way Two Position Hand Slide Valve	1	SMC / Festo
1.5	Two way Flow control valve	4	SMC / Festo
1.6	Single acting cylinder (Stroke: 50 mm, with One Way Flow Control Valve)	1	SMC / Festo
1.7	Double acting cylinder (Stroke: 200mm, with One Way Flow Control Valve)	2	SMC / Festo
1.8	PU Tube Dia 6mm - Blue Color	10 Meter	NA
1.9	PU Tube Dia 6mm - Red Color	10 Meter	NA
1.1	PU Tube Dia 6mm - Black Color	10 Meter	NA
1.11	Blanking Plug Dia 6	12	NA
1.12	Union Tee Dia 6mm	5	NA
1.13	Union Y Dia 6mm	5	NA
1.14	Tube Cutter	1	NA
2	Basic Pneumatic Module 2		
2.1	Two Pressure Valve	2	SMC / Festo
2.2	Shuttle Valve	2	SMC / Festo
2.3	Quick Exhaust Valve	1	SMC / Festo
2.4	Three Way Two Position Way Push Button (Three Port) Valve	2	SMC / Festo
2.5	Three Way Two Position Knob Operated Direction Control Valve (NC Type)	1	SMC / Festo
2.6	Three Way Two Position Roller Operated Direction Control Valve (NC Type)	2	SMC / Festo

HYTECH AUTOMATION

Reg Add: Hytech Automation, 102A, Umashankar, Rambaug Colony, Paud Road, Pune 411038

Factory: Sr No 143/15/2, Yeshwant Industrial Estate, Lagadmala, Opp Lokmat Press, Off Sinhgad Road, Pune 411041

Email: info@hytechautomation.in / sales@hytechautomation.in

Website: www.hytechautomation.in

2.7	Five Way Two Position Mushroom Head Switch Operated Direction Control Valve	1	SMC / Festo
2.8	Five Way Two Position Lever Operated Direction Control Valve	1	SMC / Festo
2.9	Five Way Two Position Lever Operated Direction Control Valve (Spring Return)	1	SMC / Festo
2.1	Five Way Three Position Lever Operated Direction Control Valve	1	SMC / Festo
3	Basic Pneumatic Module 3		
3.1	Three Way Two Position Pilot Operated Direction Control Valve (NC Type)	1	SMC / Festo
3.2	Five Way Two Position Single Pilot Direction Control Valve	1	SMC / Festo
3.3	Five Way Two Position Double Pilot Direction Control Valve	4	SMC / Festo
3.4	Five Way Three Position Double Pilot Direction Control Valve	1	SMC / Festo
3.5	Three Way Two Position idle return Valve	1	SMC / Festo
4	Basic Pneumatic Module 4		
4.1	Pneumatic Motor	1	Reputed Make
4.2	Pressure Regulator	1	SMC / Festo
4.3	Vacuum generator	1	SMC / Festo
4.4	Vacuum Cup	1	SMC / Festo
4.5	Vacuum Generator based pick and drop assembly module	1	NA
4.6	Three Way Two Position Time Delay Valve	1	SMC / Festo
5	Circuit Design and Simulation Software		
5.1	Automgen (IRAI France) - Pneumatic Circuit design and simulation software (Perpetual)	1	IRAI - France
6	Manuals for Basic Pneumatics		
6.1	Operation Manual (Basic Pneumatics)	1	NA
7.2	Experimentation Manual (Basic Pneumatics)	1	NA
7.3	Pneumatics Text Book (Basic Pneumatics)	1	NA
7	Advance Pneumatics (Electropneumatic) Module 1		
7.1	Three Way Two Position Solenoid Operated Direction Control Valve (NC Type)	1	SMC / Festo
7.2	Five Way Two Position Single Solenoid Direction Control Valve	1	SMC / Festo

HYTECH AUTOMATION

Reg Add: Hytech Automation, 102A, Umashankar, Rambaug Colony, Paud Road, Pune 411038

Factory: Sr No 143/15/2, Yeshwant Industrial Estate, Lagadmala, Opp Lokmat Press, Off Sinhgad Road, Pune 411041

Email: info@hytechautomation.in / sales@hytechautomation.in

Website: www.hytechautomation.in

7.3	Five Way Two Position Double Solenoid Direction Control Valve	3	SMC / Festo
7.4	Five Way Three Position Double Solenoid Direction Control Valve	1	SMC / Festo
7.5	Magnetic Reed Switch with bracket for Cylinders	6	SMC / Festo
8	Advance Pneumatics (Electropneumatic) Relay based operation module		
8.1	2mm Patch cord connector set	1 set	NA
8.2	Electrical Push button based power supply module	1	NA
8.3	Relay unit module (4 CO, 3Qty)	1	NA
9	Advance Pneumatics (Electropneumatic) PLC Based operation module		
9.1	PLC with 24 inputs and 16 outpts	1	Siemens
9.2	Power supply and control panel for PLC	1	Reputed Make
9.3	Control panel box with mounting for Advance Electropneumatic Training Kit (1200 x 400 x 300mm)	1	NA
9.4	PLC Input module with input override switches (24 inputs)	1	HYTECH
9.5	Field input module (24 inputs)	1	HYTECH
9.6	PLC output module (24 outputs)	1	HYTECH
9.7	Field output module (24 outputs)	1	HYTECH
9.8	Remote operation unit with 2 selector switches, 2 push buttons and 2 mushroom head switches	1	NA
9.9	2mm Patch cord connector set	1 set	NA
10	Workstation with Simulation software and licensed PLC software		
10.1	Intel Mother board Computer with 21 inch LED Monitor (Acer / Dell) and bluetooth keyboard and mouse	1	ACER / DELL
10.2	IRAI Automgen software license (Perpetual) for pneumatic circuit design and simulation	1	IRAI - France
10.3	Necessary interface for direct operation of training kit from simulation software IRAI Automgen (Dynamic realtime simulation and operation)	1	HYTECH
10.4	Workstation operation unit with mounting facility	1	NA
11	Manuals for Advance(Electro) Pneumatics		
11.1	Operation Manual (Basic Pneumatics)	1	NA

HYTECH AUTOMATION

Reg Add: Hytech Automation, 102A, Umashankar, Rambaug Colony, Paud Road, Pune 411038

Factory: Sr No 143/15/2, Yeshwant Industrial Estate, Lagadmala, Opp Lokmat Press, Off Sinhgad Road, Pune 411041

Email: info@hytechautomation.in / sales@hytechautomation.in

Website: www.hytechautomation.in

11.2	Experimentation Manual (Basic Pneumatics)	1	NA
11.3	Pneumatics Text Book (Basic Pneumatics)	1	NA
12	Compressor		
12.1	1HP, 50 Ltr capacity Twin cylinder Silent Compressor (Single Phase Supply)	1	Reputed Make
13	Trainer Kit Base and Structure (Basic)		
13.1	Basic Pneumatic Trainer Base with Aluminum extrusion based work surface (Double Sided) of 950mm x 720mm. MDF based wooden base of 950mm x 800mm. MS based structure with castor wheels and load bearing capacity of 250 KG	1	HYTECH
14	Trainer Kit Base and Structure (Advance)		
14.1	Advance Pneumatic Trainer Base with Aluminum extrusion based work surface (Double Sided) of 1200mm x 900mm. MDF based wooden base of 1200mm x 800mm. MS based structure with castor wheels and load bearing capacity of 300 KG	1	HYTECH
15	Automation Module - Color based sorting with conveyor		
15.1	Rotary Motor with Sorting Arm (16mm Bore)	1	Festo
15.2	Rejection Bin	1	NA
15.3	Guided Cylinder	1	Festo
15.4	Vacuum Generator with Vacuum Cup	1	Festo
15.5	Rotary Motor (20mm Bore)	1	Festo
15.6	Color Sensor	1	Takex
15.7	Guided Cylinder for job loading (60mm) - Auto Loader	1	Festo
15.8	Photo Sensor for job loading	1	Omron
15.9	Photo Sensor for job unloading	1	Omron
15.10	Conveyor 70 x 500mm	1	Hytech
15.11	AC Motor for Conveyor Drive with Gearbox	1	Panasonic
15.12	Sorting Bin (Vertical)	1	NA

HYTECH AUTOMATION

Reg Add: Hytech Automation, 102A, Umashankar, Rambaug Colony, Paud Road, Pune 411038

Factory: Sr No 143/15/2, Yeshwant Industrial Estate, Lagadmala, Opp Lokmat Press, Off Sinhgad Road, Pune 411041

Email: info@hytechautomation.in / sales@hytechautomation.in

Website: www.hytechautomation.in