

INTRODUCTION :

We offer a fine range of Monolayer and Multilayer Extruders designed to meet diverse production requirements.

We offer a fine range of Monolayer and Multilayer Extruders designed to meet diverse production requirements. Each machine consists of an extruder integrated with a metering pump, T-die, chrome roll unit, and either a winder or a sheet sizing unit.



In multilayer extruders, different types and grades of materials are processed through independent extruding units that form part of the main system. The individual layers are combined in the feed block before entering the T-die. These extruders are engineered with a simple and robust design to ensure easy operation, reliable performance, and low maintenance.

The machine is capable of extruding a wide range of thermoplastic compounds such as PS, ABS, PC, PET, and HDPE, producing sheets up to 10 mm thickness, 1600 mm width, with an output capacity of up to 800 kg/hr.

SALIENT FEATURES :

- 1. Direct drive system with robust gearbox**, equipped with precision AC drives and motors from Siemens / ABB, specially designed screw and barrel, and individually driven feed block and T-die from reputed manufacturers, with common or individual driven vertical / inclined calendar unit.
- 2. Precisely manufactured rollers**, hardened and mirror-finished, ensuring superior sheet surface quality and excellent thickness control.
- 3. Multilayer feed block and flat sheet dies** for uniform layer distribution and consistent output.
- 4. Melt pump system** for improved pressure control and consistent sheet thickness.
- 5. Advanced automation and synchronization** through melt pressure controller and Divyam SOFT (Version 1.0), based on the Siemens platform, CMS Series extrusion control system.



MATERIAL	LAYERS	SHEET(WIDTH)	SHEET(THICKNESS)	OUTPUT
PP/PC/ABS/PS/PET	1/2/3/4/5 Layer	400 to 1600mm	0.25 to 10 mm	200to 800 Kg/Hr

Technical specifications are subject to change without prior notice

DIVYAM'S CMS SERIES MONOLAYER/ MULTILAYER EXTRUDERS FOR,PP/PS upto 600Kgs/Hour
DIVYAM'S CMS SERIES MONOLAYER/ MULTILAYER EXTRUDERS FOR,PC, ABS upto 600Kgs/Hour

APPLICATIONS :

- **Sheet Extrusion Lines**

Our sheet extrusion lines are capable of producing a wide range of sheets such as PP mirror sheets, sand sheets, transparent sheets, matte sheets, and textured sheets.

- **General Applications**

These sheets are widely used in automotive components, infrastructure products, blister packaging, office stationery, luggage, lighting, food packaging, and medical packaging.

- **HIPS Refrigerator Co-Extrusion Line**

Widely used in the home appliance sector for applications such as internal bladder of refrigerators, washing machines, and outer shells of air conditioners.

- **Polycarbonate (PC) Sheets**

Extensively used in the electronics and IT industries for display screens, hard-coated sheets, electroplated and printed optical sheets, and high-transparency packaging materials.

- **ABS Bathtub Sheet Co-Extrusion Line**

ABS co-extruded sheets offer a high-gloss surface with excellent impact resistance, making them suitable for bathtubs, furniture, and related applications.

- **PC/ABS Alloy Sheet Extrusion Line**

Primarily used in automotive and luggage applications such as dashboards, interior trim panels, skin carpets, and suitcase shells.

- We cater to a wide range of industries including luggage, plastic product manufacturing, aerospace, automotive components and accessories, plastic composites and parts, construction and building, home appliances and white goods, machinery and testing equipment, toys and sports equipment, medical technology, precision engineering, optics, packaging, agriculture, defense, railways, electronics and electricals, food processing equipment, furniture, and lighting.

OUR PRODUCT RANGE :

- **A. Divyam's SPECIAL PURPOSE VACUUM FORMING MACHINE / CONTINUOUS VACUUM FORMING MACHINE /PRESSURE FORMING MACHINE**

- A1. Divyam's P** SERIES- VACUUM FORMING ECO MODEL WITH PNEUMATIC OPERATIONS
 - A2. Divyam's E** SERIES- VACUUM FORMING ELECTRICALLY DRIVEN MACHINES FOR BETTER SPEED AND PRECISION
 - A3. Divyam's AI** SERIES- VACUUM FORMING ALL SERVO INTELLIGENT OPERATIONS AND INDUSTRY 4.0
 - A4. Divyam's CVF** SERIES VACUUM FORMING MACHINE FOR HIGH SPEED AUTOMATIC CONTINUOUS OPERATION
 - A5. Divyam's SPF** SERIES PRESSURE FORMING MACHINE FOR INTRICATE AND COMPLEX FORMING WITH THE HELP OF PRESSURE
 - A6. Divyam's TOOLING** FOR VACUUM FORMING - MADE FROM ALUMINIUM (WATER COOLED),EPOXY,COMPOSITE MOLDS/TOOLS
- **B. Divyam's CNC ROUTER AND ROBOTS FOR TRIMMING /CUTTING APPLICATION**
 - B1. Divyam's TRG** SERIES 5 AXIS CNC ROUTER - MOVING GANTRY TYPE
 - B2. Divyam's TRT** SERIES 5 AXIS CNC - MOVING TABLE TYPE
 - B3. Divyam's RTC** SERIES ROBOTIC TRIMMING MACHINE

Oversees agents are invited.



Divyam Technology Solutions Pvt Ltd
The Technology People

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DIVYAM'S CVF VACUUM FORMING MACHINE FOR HIGH SPEED AUTOMATIC CONTINUOUS OPERATION

INTRODUCTION :

The continuous vacuum forming machine design allows any nominal size of 500 x 500 mm upwards to 2000 x 2000 max. The cut sheet is pick n place or sheet roll is feed to transport chain. The sheet will move by Servo driven spike chain to heating station then forming station. The formed product also ejected automatically.



Individual/zone heater control by DIVYAMSOFT (version 4.0/4.1/4.2) based on Siemens platform.

Machine can form varieties of Thermoplastics such as PS, ABS, PC ,PET, HDPE in sheet thickness up to 4 mm.

SALIENT FEATURES :

- **SHEET FEEDING** – AC servo motor Driven Spike or special Gripper type Chain with Width adjustment.
- **SHEET CLAMPING** – Sheets are fed automatically that are clamped by pneumatic cylinders or Servo motors for sheet thickness upto 4mm.
- **HEATING ELEMENT & CONTROL**– The machine has inline heating station. It offers the precise power regulation of each heating element of **top and bottom** heaters by LCD touch panel. Operator can set the power percentages of each heater to obtain homogenous or different required temperature distribution, You can adjust precisely the heating process to the kind of plastic material. All values can be programmed and stored in the controlled memory while saving programs.
- **FORMING STATION** – **Precision plug Assist Pre blow vacuum forming technique.** The Table motion **with interpolation of FOUR SERVO MOTORS.**
- **VACUUM** – Vacuum is generated by heavy duty vacuum pump rotary vane type and **multistep valve** system of reputed make. Suitable capacities of buffer vacuum tanks are provided for instant vacuum.
- **PRODUCT UNLOADING** – Automatic Unloading of formed product. Automatic Pusher for collection of unloaded product is an option
- **CUTTING** – Stroke Cutting, Peripheral cutting

DIVYAM'S CVF WITH COMBO SHEET LOADER & ROLL FEEDER, CVF-COMBO SERIES

CVF-Combo , thermoforming machine designed for maximum production flexibility. Because of innovative combo feeder, it is possible to use both roll & sheet material in a single machine. The major advantage of machine is companies can work diverse material with varying format in quick adoption.

- Versatility – handles both sheet formats and roll material
- Production flexibility – quick change between modes without the need for a different machine.
- Space and cost efficiency – one machine instead of two separate lines
- Greater competitiveness – ability to fulfill a wider range of orders.

DIVYAM'S CVF WITH AUTOMATIC SHEET LOADER, CVF-SL SERIES

CVF- SL thermoforming machine can be supplied with **automatic sheet loading** system. It is combined unit with Vacuum Cup frame & Spike Chain. The Unit is combined with machine and controlled by its program

- Automatic sheet feeding systems
- Two-steps automatics process of positioning of pallets and sheets
- Pneumatics sheet separator to secure loading of thin sheets from the stack
- Loading frame with suction cups to lift a sheet and deliver it into working area and to remove finished elements from machine into unloading zone

DIVYAM'S CVF WITH AUTOMATIC ROLL FEEDER, CVF -RF SERIES

CVF- RF thermoforming machine can be supplied with **automatic roll feeding** system and combined into one working station performing automatic loading of material from the roll cutting off the material to required size and unloading finished products. The process is fully automated and simply controlled from one panel. This solution is used to obtain the highest efficiency of production process. The advantages of thermoforming with RF are as following :

- Motorized Unwinder
- Easy loading of material Rolls
- Cutting off the material with pneumatic knife(Stroke Cutting)

SALIENT FEATURES :

SR NO.	SPECIFICATION	DIVYAM'S CVF 2010	DIVYAM'S CVF 2015	DIVYAM'S CVF 2020
1	FORMING AREA (MM)	2000 X 1000	2000 X 1500	2000 X 2000
2	FORMING DEPTH (MM)	Male : 250 Female : 600	Male : 250 Female : 600	Male : 250 Female : 600
3	MAX. CONNECTED LOAD (KW)	115	162	210
4	MOLD TABLE/PLUG MOVEMENT	Pneumatic/ servo	Pneumatic/ servo	Pneumatic/ servo
5	MATERIAL FEEDING	Sheet / Roll/ Combo	Sheet / Roll/ Combo	Sheet / Roll/ Combo

- Technical specifications are subject to change, without prior notice.
- Sizes specific to your requirement are also available.

APPLICATIONS :

We cater to a wide range of industries including luggage, plastic product manufacturing, aerospace, automotive components and accessories, plastic composites and parts, construction and building, home appliances and white goods,

machinery and testing equipment, toys and sports equipment, medical technology, precision engineering, optics, packaging, agriculture, defense, railways, electronics and electrical, food processing equipment, furniture, and lighting

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• C. Divyam's EXTRUSION – MONO AND MULTILAYER THICKLINE EXTRUDER

- C1. I. Divyam's CMS SERIES** UPTO 600KG PER HOUR LINE FOR ABS, PC, PP, HDPE MONOLAYER EXTRUDERS
- II. Divyam's CMS M SERIES** UPTO 600KG PER HOUR LINE FOR ABS, PC, PP, HDPE MULTILAYER EXTRUDERS

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DIVYAM'S SVF SPECIAL PURPOSE VACUUM FORMING MACHINE –E SERIES

INTRODUCTION :

SVF E series all electrical vacuumformer's are designed for more **accuracy, speed and maintenance** in mind.

The parametric construction design allows any reasonable minimum nominal size of 3000 x 1500mm upwards. Forming area Dimensions such as **4000 x 2500mm**. 3100 x 3100mm, 3000 x 2000mm with depth upto 800mm, are usual for us, which undergo the same production process. The nominal size of the machine relates to the largest sheet size that can be formed. **All motions are servo driven.**

SILENT FEATURES :

- 1. SHEET CLAMPING** –Sheet are fed manually that are clamped by Servo motors for sheet thickness upto 8mm. Auto sheet loading and product unloading option is available.
- 2. HEATING ELEMENT & CONTROL** – The machine offers the precise power regulation of each heating element of **top and bottom heaters** by 15-inch LCD touch panel. Operator can set the power percentages of each heater to obtain homogenous or different required temperature distribution; You can adjust precisely the heating process to the kind of plastic material. All values can be programmed and stored in the controller memory while saving programs. **Heating Trolley movement is by Servo Motor.**
- 3. HIGH ENERGY SAVING HEATING CONTROL HARDWARE & SOFTWARE (OPTIONAL)** –Our machines are the best solution for those who value tangible saving. They are designed to save energy needed for production and reduce connected load (Installed Power) considerable by **up to 40%** The **heating system incorporates zero-crossover sequential burst technology with dynamic matrixing.**
- 4. FORMING STATION** – Precision plug Assist Pre blow vacuum forming technique. The **Table motion by servo motors.**
- 5. PLUG ASSIST** – Plug assist feature enables desired distribution of wall thickness especially for deep draw product for female mould. One can have strong bottom surface with this feature. Plug is operated by servo motors
- 6. PREBLOW** – Machine is provided with facilities to pre-stretch the material to obtaining optimum thickness distribution.
- 7. VACUUM** – Vacuum is generated by heavy duty vacuum pump rotary vane type and **multistep valve** system of reputed make. Suitable capacities of buffer vacuum tanks are provided for instant vacuum.



8. CONTROLS –All controls are housed in a separate control panel and manmade interface with touch screen are provided on machine. **Individual/zone heater control by divyamsoft (version 3.0/3.1) based on Siemens platform.**

SPECIFICATION :

SR NO.	Specification	SVF3020E	SVF3517E	SVF4020E	SVF4025E
1	Forming Area (mm)	3000 X2000	3500 X1700	4000 X2000	4000 X2500
2	Forming Depth (mm)	Male: 800 Female: 500	Male: 800 Female: 500	Male: 1000 Female: 500	Male: 1000 Female: 500
3	Max. Connected Load (KW)	288	278	382	465
4	Heating and Machine Control	By Divyamsoft(Ver. 3.0/3.1)	By Divyamsoft(Ver. 3.0/3.1)	By Divyamsoft(Ver. 3.0/3.1)	By Divyamsoft(Ver. 3.0/3.1)
5	Overall Approx. Dimensions(LXWXH)	6.5 M X 6 M X 4.2 M	4.6 M X 4.6 M X 4.2M	6.5 M X 6 M X 3.8 M	6 M X 7.2 M X 3.8 M

Technical specifications are subject to change without prior notice

APPLICATIONS :

We cater to a wide range of industries including luggage, plastic product manufacturing, aerospace, automotive components and accessories, plastic composites and parts, construction and building, home appliances and white goods, machinery and testing equipment, toys and sports equipment, medical technology, precision engineering, optics, packaging, agriculture, defense, railways, electronics and electricals, food processing equipment, furniture, and lighting.

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C1. I. Divyam's CMS SERIES UPTO 600KG PER HOUR LINE FOR ABS, PC ,PP ,HDPE
MONOLAYER EXTRUDERS

II. Divyam's CMS M SERIES UPTO 600KG PER HOUR LINE FOR ABS, PC ,PP ,HDPE
MULTILAYER EXTRUDERS

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INTRODUCTION :

Divyam's SVF **P** series vacuumformer's are designed with basic necessities and economy in mind.

The parametric construction design allows any reasonable minimum nominal size of 1000 x 1000mm upwards. Forming area Dimensions such as, 3000 x 2000mm with depth up to 800mm, are usual for us, which undergo the same production process.

We also offer double station SVF series machine in order to save energy and better productivity.

SILENT FEATURES :

- 1. SHEET CLAMPING** - Sheets are fed manually that are clamped pneumatically for sheet thickness up to 8mm.
- 2. HEATING ELEMENT & CONTROL** - The machine offers the precise power regulation of each heating element of **top and bottom** heaters by **LCD touch panel**. Operator can set the power percentages of each heater to obtain homogenous or different required temperature distribution, Heating Trolley movement is by **pneumatic**. You can adjust precisely the heating process to the kind of plastic material. All values can be programmed and stored in the controller memory while saving programs.
- 3. HIGH ENERGY SAVING HEATING CONTROL HARDWARE & SOFTWARE (OPTIONAL)** -Our machines are the best solution for those who value tangible saving. They are designed to save energy needed for production and reduce connected load (Installed Power) considerable **by upto 40% The heating System designed with Zero Crossover Sequential burst Technology with Dynamic matrixing**.
- 4. FORMING STATION** - **Precision plug Assist Pre blow vacuum forming technique**. The Table motion is pneumatic with rack and pinion system.
- 5. PLUG ASSIST** - Plug assist feature enables desired distribution of wall thickness especially for deep draw product for female mould. One can have strong bottom surface with this feature. Plug is operated by a heavy-duty pneumatically driven system.
- 6. PREBLOW** - Machine is provided with facilities to pre-stretch the material to obtaining optimum thickness distribution.
- 7. VACUUM** - Vacuum is generated by heavy duty vacuum pump rotary vane type and **multistep valve** system of reputed make. Suitable capacity of buffer vacuum tanks are provided for instant vacuum.



8. CONTROLS – All controls are housed in a separate control panel, and a touch screen interface is provided on the machine. **Individual/zone heater control by Divyamsoft (version 2.0) based on Siemens platform.**

SPECIFICATION :

SR NO.	SPECIFICATION	SVF1010P	SVF2010P	SVF2515P	SVF3020P
1	FORMING AREA (MM)	1000 X 1000	2000 X 1000	2500 X 1500	3000 X 2000
2	FORMING DEPTH (MM)	Male : 500 Female : 300	Male : 500 Female : 300	Male : 500 Female : 300	Male: 800 Female: 500
3	MAX. CONNECTED LOAD (KW)	53	96	180	288
4	Heating and Machine Control	By Divyamsoft (Ver. 2.0)	By Divyamsoft (Ver. 2.0)	By Divyamsoft (Ver. 2.0)	By Divyamsoft (Ver. 2.0)
5	Overall Approx. Dimensions(LXWXH)	1.4 M X 1.4 M X 2.5M	2.8 M X 3.8 M X 2.5M	3.6 M X 3.6 M X 3.8 M	6.5 M X 6 M X 4.2 M

• Technical specifications are changed subject to change ,without notice.

• Sizes specific to your requirement are also available.

APPLICATIONS :

We cater to a wide range of industries including luggage, plastic product manufacturing, aerospace, automotive components and accessories, plastic composites and parts, construction and building, home appliances and white goods, machinery and testing equipment, toys and sports equipment, medical technology, precision engineering, optics, packaging, agriculture, defense, railways, electronics and electrical, food processing equipment, furniture, and lighting.

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Divyam RTC SERIES ROBOTIC TRIMMING MACHINE

INTRODUCTION :

DIVYAM RTC SERIES of robots is designed for maximum flexibility, performance and reliability in industrial applications like trimming, patterning.

The compact design features a large work envelope (including flip over) and capacity for high speeds and heavy payloads. Robots are

now preferred because of their flexibility in production of complex cutting parts. Robot as CNC cutting Machine is one of the most recent invention. This will revolutionize cutting operation in terms of cost of equipment & flexibility



SALIENT FEATURES :

BENEFITS :

- Slim arm and wrist assembly minimizes interference with system peripherals and allows operation in confined spaces
- Large allowable wrist moments and inertias meet a variety of heavy handling challenges
- Many process attachment points make integration easier
- Stationary outer arm simplifies hose and cable dress out, prolongs service life
- We provide Proven, reliable servo drives from Fanuc/ABB/ Kuka provide highest uptime and lowest operating costs
- Moves heavy loads with precision and 6-axis simultaneously.
- High performance motion yields faster cycle times and high throughput

FLEXIBILITY :

- Our design allows fitment of modulator (Robot) inverted, horizontal or inclined
- Different models in the series to tailor the robot to a wide variety of applications

MECHANICAL :

- Large work envelope with ability to reach over head and behind
- 6 axes of motion with Precision gear drives for All axis
- Elimination of counter weight increases available workspace

We Invite Challenges in robotic Cutting of any complex parts or material

SPECIFICATION :

SR NO	MODEL	PRODUCT LENGTH	PRODUCT WIDTH	PRODUCT HEIGHT	WORK TABLE	PAYLOAD (KG)	SPINDLE (KW)	REPEATABILITY	ROBO MTG	MAX CUT.SPEED (MM/ MIN.)
1	RTC1015	1500	1000	500	Single	20	2.2 / 4.5	+/- 0.5	Up right	10000
2	RTC1218-RT	1200	1800	500	Single /Double Reciprocating	30	2.2/ 4.5	+/- 0.5	Up right	10000
3	RTC3020-1ST	3000	2000	500	Synchronize single	30	4.5	+/- 0.5	Up right	10000
4	RTC3020-2ST	3000	2000	500	Synchronize double	30	4.5	+/- 0.5	Up right	10000

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APPLICATIONS :

Rational and economic machining of smaller parts such as decoration panels cover plates, cycle helmets , Sports helmets , Luggage shell & briefcase parts, Machinery/testing & construction equipment enclosures etc. The outstanding precision meets the exacting requirements of the automotive supplier, aircraft and aerospace industries as well as the yacht building and sanitary sector. Potential applications include for example paneling of aircraft interiors and fuselages, molds and models for the whole vehicle industry and sanitary products such as bathtubs and shower tubs.

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DIVYAM'S SPF SERIES PRESSURE FORMING MACHINE FOR INTRICATE AND COMPLEX FORMING WITH THE HELP OF PRESSURE:

INTRODUCTION :

The pressure forming machine design allows option of **Air Pressure forming & compression forming with help of Hydraulic press**. This is the most suitable for fine details & complex forming. The design allows any nominal size of 500 x 500mm upwards to 1000x 1500 max..The Cut sheet feeding & the formed product unloading is automatic.

This machine process many thermoforming plastics including composites which cannot be formed on any traditional thermo former. This machine gives unique opportunity to processor to replace certain metal parts especially for application like EV vehicles & others

SILENT FEATURES :

A) SHEET LOADER& PRODUCT UNLOADING

- Automatic sheet feeding systems with two-steps automatics process of positioning of pallets and sheets
- Pneumatics sheet separator to secure loading of thin sheets from the stack
- Shuttle Transport with Loading frame (suction cups Fitted) to lift a sheet and deliver it into working area and to remove finished elements from machine with unloading conveyor into unloading zone

B) FORMING PRESS

- High-efficiency systems using variable-speed motors and variable-flow pumps, resulting in significant reductions in power consumption by matching energy consumption to energy demand
- High-position accuracy using high-speed, closed-loop servo-proportional valves
- Extremely accurate pressure control with closed-loop pressure controllers for pressure increase, holding and decompression through use of a position-controlled intensifier
- Extremely slow pressing speeds using digital valves to control minute oil flows
- Individual accumulators at each valve to provide an instantaneous response for any oil demand, which increases overall system performance
- Separate vane pump for oil cooling and filtration

C) HIGH ENERGY SAVING HEATING CONTROL HARDWARE & SOFTWARE

- Our machines are the best solution for those who value tangible saving. They are designed to save energy needed for production and reduce connected load (Installed Power) considerable by **40 % to 50%**
- The heating System designed with **Zero Crossover Sequential burst Technology with Dynamic matrixing.**

D) DYNAMIC SHEET CLAMPING

- The unique stretchable clamping is heart of machine. The design allows dynamic auto stretching to respond polymer behavior' the design allows polymer to response heating without affecting its parameters like Thickness & uniformity.

E) CONTROLS

- All controls are housed in a separate control panel and manmade interface with SCADA are provided on machine. Hydraulic automation, feeding & product unloading control, Individual/zone heater control by divyamsoft (version 5.0) based on Siemens platform.

SPECIFICATION :

SR NO.	SPECIFICATION	SPF 1010	SVF 1015P
1	FORMING AREA (MM)	1000 X 1000	1000 X 1500
2	FORMING DEPTH (MM)	Female : 500	Female : 500
3	FORMING TONNAGE -HYDRAULIC PRESS(TON)	200	250
4	MAX. CONNECTED LOAD (KW)	210	280

- Technical specifications are subject to change, without prior notice.
- Sizes specific to your requirement are also available.

APPLICATIONS :

We cater to a wide range of industries including luggage, plastic product manufacturing, aerospace, automotive components and accessories, plastic composites and parts, construction and building, home appliances and white goods, machinery and testing equipment, medical technology, precision engineering, parts, , defense, railways, furniture.

OUR PRODUCT RANGE :

A. Divyam's SPECIAL PURPOSE VACUUM FORMING MACHINE / CONTINUE VACUUM FORMING MACHINE /PRESSURE FORMING MACHINE

- A1. **Divyam's P** SERIES- VACUUM FORMING ECO MODEL WITH PNEUMATIC OPERATIONS
- A2. **Divyam's E** SERIES- VACUUM FORMING ELECTRICALLY DRIVEN MACHINES FOR BETTER SPEED AND PRECISION
- A3. **Divyam's AI** SERIES- VACUUM FORMING ALL SERVO INTELLIGENT OPERATIONS AND INDUSTRY 4.0
- A4. **Divyam's CVF** SERIES VACUUM FORMING MACHINE FOR HIGH SPEED AUTOMATIC CONTINUOUS OPERATION

• **B.DIVYAM'S CNC ROUTER AND ROBOTS FOR TRIMMING /CUTTING APPLICATION**

B1. Divyam's TRG SERIES 5 AXIS CNC ROUTER – MOVING GANTRY TYPE

B2. Divyam's TRT SERIES 5 AXIS CNC – MOVING TABLE TYPE

• **C.DIVYAM'S EXTRUSION – MONO AND MULTILAYER THICKLINE EXTRUDER**

C1. I .Divyam's CMS SERIES UPTO 600KG PER HOUR LINE FOR ABS, PC ,PP ,HDPE MONOLAYER EXTRUDERS

II. Divyam's CMS M SERIES UPTO 600KG PER HOUR LINE FOR ABS, PC ,PP ,HDPE MULTILAYER EXTRUDERS

Oversees agents are invited.



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INTRODUCTION :

DIVYAM'S AI SERIES VACCUMFORMING MACHINE WITH ALL SERVO INTELLIGENT OPERATIONS AND INDUSTRY 4.0

AI series vacuum formers are designed using latest Artificial intelligence technologies.

The parametric construction design allows any reasonable minimum nominal size of 3000 x 2000mm upwards. Forming area Dimensions such as 4000 x 2500mm, 3100 x 3100mm, 3000 x 2000mm with depth up to 800mm, are usual for us, These designs undergo the same production process. The nominal size of the machine relates to the largest sheet size that can be formed. All motions are AI assisted servo driven.



SALIENT FEATURES :

- 1. SHEET CLAMPING** – Sheet are fed manually that are clamped by Interpolation servo motion for sheet thickness up to 8mm. Clamping for Sheet size reduction can be instantly achieved by just click of a button. Auto sheet loading and product unloading option is available.
- 2. HEATING ELEMENT & HIGH ENERGY SAVING HEATING CONTROL HARDWARE & SOFTWARE** – The machine offers the precise power regulation of each heating element of top and bottom heaters by SCADA panel. Operator can set the power percentages of each heater to obtain homogenous or different required temperature distribution, You can adjust precisely the heating process to the kind of plastic material. All values can be programmed and stored in the controller memory while saving programs. Our machines are the best solution for those who aim for tangible savings. They are designed to save energy needed for production and reduce connected load (Installed Power) considerable by up to 40% The patented heating System designed with Zero Crossover Sequential burst Technology with Dynamic matrixing.
- 3. FORMING STATION – Precision plug Assist Pre blow vacuum forming technic.** The Table motion **with AI ASSISTED FOUR SERVO MOTORS.**
- 4. PLUG ASSIST** – Plug assist feature enables desired distribution of wall thickness especially for deep draw product for female mould. One can have strong bottom surface with this feature. Plug is operated by **AI ASSISTED servo motors.**
- 5. PREBLOW** – Machine is provided with facilities to pre-stretch the material to obtaining optimum thickness distribution.

6. VACUUM – Vacuum is generated by heavy duty vacuum pump rotary vane type and **multistep valve** system of reputed make. Suitable capacity of buffer vacuum tanks are provided for instant vacuum.

7. CONTROLS – All controls are housed in a separate control panel duly air condition. **Man machine interface touch screen** type SCADA system are provided on machine. **Individual/zone heater control by Divyamsoft (version 3.2) based software on Siemens platform.** Interpolated servo driven for all moving elements allow to accelerate the process and precisely programmed and control all movements. It offers the fastest digital communication (Ether cat based network) between motion controller and machine axes and guarantees high dynamics and precision of the process.

SPECIFICATION :

SR NO.	Specification	SVF3020AI	SVF4020AI	SVF4025I
1	Forming Area (mm)	3000 X2000	4000 X2000	4000 X2500
2	Forming Depth (mm)	Male: 800 Female: 500	Male: 1000 Female: 500	Male: 1000 Female: 500
3	Max. Connected Load (KW)	288	382	462
4	Heating and Machine Control	By SCADA ,Divyamsoft (Ver. 3.2)	By SCADA, Divyamsoft (Ver. 3.2)	By SCADA ,Divyamsoft (Ver. 3.2)
5	Overall Approx. Dimensions(LXWXH)	6.5 M X 6 M X 4.2 M	6.5 M X 6 M X 3.8 M	6 M X 7.2 M X 3.8 M

Technical specifications are subject to change without prior notice.

APPLICATIONS :

We cater to a wide range of industries including luggage, plastic product manufacturing, aerospace, automotive components and accessories, plastic composites and parts, construction and building, home appliances and white goods, machinery and testing equipment, toys and sports equipment, medical technology, precision engineering, optics, packaging, agriculture, defense, railways, electronics and electrical, food processing equipment, furniture, and lighting.

OUR PRODUCT RANGE :

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- A1. Divyam's P** SERIES– VACCUM FORMING ECO MODEL WITH PNEUMATIC OPERATIONS
- A2. Divyam's E** SERIES– VACCUM FORMING ELECTRICALLY DRIVEN MACHINES FOR BETTER SPEED AND PRECISION
- A4. Divyam's CVF** SERIES VACUUM FORMING MACHINE FOR HIGH SPEED AUTOMATIC CONTINUOUS OPERATION
- A5.Divyam's SPF** SERIES PRESSURE FORMING MACHINE FOR INTRICATE AND COMPLEX FORMING WITH THE HELP OF PRESSURE

A6.Divyam's TOOLING FOR VACCUM FORMING – MADE FROM ALUMINIUM
(WATER COOLED), EPOXY, COMPOSITE MOLDS/TOOLS

• **B. Divyam's CNC ROUTER AND ROBOTS FOR TRIMMING /CUTTING APPLICATION**

B1. Divyam's TRG SERIES 5 AXIS CNC ROUTER – MOVING GANTRY TYPE

B2. Divyam's TRT SERIES 5 AXIS CNC – MOVING TABLE TYPE

B3. Divyam's RTC SERIES ROBOTIC TRIMMING MACHINE

• **C. Divyam's EXTRUSION – MONO AND MULTILAYER THICKLINE EXTRUDER**

C1. I. Divyam's CMS SERIES UPTO 600KG PER HOUR LINE FOR ABS, PC ,PP ,HDPE MONOLAYER
EXTRUDERS

II. Divyam's CMS M SERIES UPTO 600KG PER HOUR LINE FOR ABS, PC ,PP ,HDPE
MULTILAYER EXTRUDERS

Oversees agents are invited.



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INTRODUCTION :
THREE LAYER BLOWN FILM PLANT

Blow film extruders are used to manufacture thin plastic films for flexible packaging, agricultural & other applications. These machines produce films with excellent strength, clarity, and uniform thickness. This plant is used to produce multi-layer films by extruding three layers of different materials, offering more customization for various applications. The three layers can be made up of different polymers, combining properties like enhanced barrier protection, strength, flexibility, and cost-efficiency. This type of film is commonly used in industries that require high-quality packaging, such as food packaging, medical, and industrial films.


SALIENT FEATURES :

- Higher Production with optimum power consumption
- With or without vertical type oscillating haul-off unit for gauge randomization
- Uniquely designed Air Cooling ring for higher output
- Universal gusseting system
- Lower Product costing with superior quality of film
- Gas Nitride screw and barrel made out from special nitro alloy steel for long life
- Helical gearbox with inbuilt thrust bearing
- Bubble Calibrating Basket / Iris ring
- Embossing (Rimzim) roller attachment (Optional)
- Specially designed spiral die for ABA/ABC
- INTEGRATED Synchronization for EXTRUDERS, Take Up and Winder NIP

SPECIFICATION :
DIVYAM'S TLB -ECO SERIES MULTILAYER BLOWN FILM LINES

MODEL	TLB-40-45-40	TLB-45-55-45	TLB-55-65-55
MATERIAL TO BE PROCESSED	HM, LD, PBAT-BIO, HDPE	HM, LD, PBAT-BIO, HDPE	HM, LD, PBAT-BIO, HDPE
SCREW DIA. (MM)	40-45-40	45-55-45	TLB-55-65-55
BARREL FEED TYPE	Groove Feed	Groove Feed	Groove Feed
L D RATIO	30:1	30:1	30:1
LAY FLAT FILM WIDTH RANGE	200 to 1200mm	300 to 1500mm	400 to 2000 mm
MAXIMUM OUTPUT	130 Kg/Hr	170Kg/Hr	205 Kg/Hr
WINDER	DOUBLE STATION SURFACE WINDER	DOUBLE STATION SURFACE WINDER	DOUBLE STATION SURFACE WINDER Double Station Surface Winder
MACHINE CONNECTED LOAD	122 KW	136 KW	165 KW
DIMENSIONS (L X W X H) APPROX. IN FEET	24 x 18 x 24	30 x 20 x 35	30 x 20 x 18

• Technical specifications are subject to change, without prior notice.

APPLICATIONS :

AGRICULTURE : Mulching films, greenhouse and farm films, silage films, agriculture covers, nursery films, flower sleeve bags, fruit and vegetable bags, fruit protection bags, and fruit mesh bags.

PACKAGING INDUSTRY : Shrink wrapping rolls, stretch films, and food-packaging films, carry bags, garbage bags, liner bags, and protective packaging films.

INDUSTRIAL USES : Protective wrapping films, pallet wrapping, dust covers, and industrial liners.

CONSUMER & LIFESTYLE PRODUCTS : Shopping bags, household packaging films, and daily-use plastic films. Blow film extrusion is widely adopted due to its high productivity, material efficiency, and suitability for mass-production of flexible plastic films.

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- A5. **Divyam's SPF** SERIES – PRESSURE FORMING MACHINE FOR INTRICATE AND COMPLEX FORMING WITH THE HELP OF PRESSURE
- A6. **Divyam's TOOLING** FOR VACCUM FORMING – MADE FROM ALUMINIUM (WATER COOLED), EPOXY, COMPOSITE MOLDS/TOOLS

• B. Divyam's CNC ROUTER AND ROBOTS FOR TRIMMING / CUTTING APPLICATION

- B1. **Divyam's TRG** SERIES 5 AXIS CNC ROUTER – MOVING GANTRY TYPE
- B2. **Divyam's TRT** SERIES 5 AXIS CNC – MOVING TABLE TYPE
- B3. **Divyam's RTC** SERIES ROBOTIC TRIMMING MACHINE

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- C1. I. **Divyam's CMS** SERIES UPTO 600KG PER HOUR LINE FOR ABS, PC ,PP ,HDPE MONOLAYER EXTRUDERS
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Oversees agents are invited.



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DIVYAM'S TOOLING FOR VACCUM FORMING - MADE FROM ALUMINIUM (WATER COOLED),EPOXY,COMPOSITE MOLDS/TOOLS

INTRODUCTION :

Thermoforming Tooling:

Mold and Tool making services serve as a basic element of Thermoforming and Router machines. Over years of experience in machine building, material, process trials & customer difficulties, we have tool design department that can provide cost effective simple or complex tool including plug assisted& match mold at short notice.

We support for design & manufacture customised thermoforming tools and precise trimming jigs.

Manufacturing strategies for quality tool development–

- Flexible options of analyzing customer samples.
- Inhouse tool design using leading 3D CAD systems.
- Modern CNC machines.
- State of the art digital measuring technology.
- All manufacturing specifications are documented and stored.
- Use of aluminum block or aluminum casting with water cooling & predefined wall thickness & Moving Core for complex parts.
- Tool from Cost effective material like SIBA WOOD or EPOXY are also offered
- Prototype development with 3D printing (if required).

We can manufacture small simple thermoforming mold to large complex mold with moving core.

DIVYAM'S TOOLING FOR VACCUM FORMING - MADE FROM ALUMINIUM (WATER COOLED), EPOXY,COMPOSITE MOLDS/TOOLS

A) Vacuum forming molds (Aluminum)



B) Vacuum forming mold (Epoxy / Composite)



C) Trimming Fixture (Wood/ Composite)



Note – Sizes specific to your requirement are also available.

APPLICATIONS :

We cater to a wide range of industries including luggage, plastic product manufacturing, aerospace, automotive components and accessories,, construction and building, home appliances and white goods, machinery and testing equipment,

toys and sports equipment, medical technology, packaging, agriculture, defense, railways, electronics and electrical, food processing equipment, furniture, lighting , furniture & arts products , tool making.

OUR PRODUCT RANGE :

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INTRODUCTION :

The Machine is suitable for medium as well as large Size products up to 4000 M x 3000 M. The five axes simultaneous technology with large capacity spindle upto 7.5 KW allows complex & large components to cut with precision.

DIVYAM'S TRG SERIES CNC Router machine used one of the most advanced numerical controllers, It offers the fastest digital communication between motion controller and machine axes and guarantees high dynamics and precision of the process. The machine is suitable for Milling/ trimming / pocketing of components in plastic, composite, wood aluminum



SALIENT FEATURES :

- **TRIMMING SPINDLES – Flexible spindle** type suitable for individual Application
- **ADDITIONAL PROCESSING (Optional)– Non contact type spindle** Such As Ultrasound Knife and Laser Cutting can be provide
- **AUTO TOOL CHANGER(Optional)–** Linear magazine with capacity of 6-12tools
- **AUTOMATIC LUBRICATION SYSTEM–** A pressurized greasing system, which continuously applies lubricant.
- **SWarf AND DUST EXTRACTION SYSTEMS (Optional)**
- **AUTO CALIBRATION SYSTEMS –** Tool Probe Allows Measuring and Correcting Automatically The Length And Diameter Of The Cutter. It Offers Damage Control, As Well.
- **WORKING TABLE – Milled Aluminum Plate** with Parallel Grooves (Inverted T Section), or A Grid of Perpendicular Grooves For the Use of Vacuum Clamping System, Or A Surface with Hybrid Structure
- **ROTARY INTERPOLATED AXES–** Transmission of servo motors motion to rotary interpolated axes is accomplished by special, cyclonical rotary gears. This ensures very high positioning precision and reliability of the rotary axes in the machine.
- **CAM SOFTWARE (Optional)–** Data Acquisition from 3 D drawing

SPECIFICATION :

SR NO.	MODEL	AXIS	X-Y-Z-B-C	SPINDLE POWER MOTOR	MAX. CUTTING SPEED
1	TR-1525-3G	x	2000	3.5/6/7.5 KW Air/water cooled 18000 rpm	12000 mm /min.
		y	3000		
		z	600		
		y	3000		
		z	500		
		B	+/- 90		
		C	+/-360		
2	TR-3020-5G	x	3000	3.5/6/7.5 KW Air/water cooled 18000 rpm	12000 mm /min.
		y	2000		
		z	800		
		B	+/- 90		
		C	+/-360		
3	TR-4030-5G	x	4000	3.5/6/7.5 KW Air/water cooled 18000 rpm	12000 mm /min.
		y	3000		
		z	900		
		B	+/- 90		
		C	+/-360		

• Technical specifications are subject to change, without prior notice.

APPLICATIONS :

Rational and economic machining of smaller parts such as decoration panels cover plates, cycle helmets , Sports helmets , Luggage shell & briefcase parts, Machinery/testing & construction equipment enclosures etc. The outstanding precision meets the exacting requirements of the automotive supplier, aircraft and aerospace industries as well as the yacht building and sanitary sector. Potential applications include for example paneling of aircraft interiors and fuselages, molds and models for the whole vehicle industry and sanitary products such as bathtubs and shower tubs.

OUR PRODUCT RANGE :

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INTRODUCTION :

The Machine is suitable for small as well as medium volume products up to 1500x 1500 meter. The five axes simultaneous technology with Moving table operation allows fast & easy changeover.



DIVYAM'S TRT SERIES CNC Router machine used one of the most advanced numerical controllers, It offers the fastest digital communication between motion controller and machine axes and guarantees high dynamics and precision of the process. The machine is suitable for Milling/ trimming/ pocketing of components in plastic, composite & wood.

SALIENT FEATURES :

- TRIMMING SPINDLES- Flexible spindle type suitable for individual Application
- ADDITIONAL PROCESSING (OPTIONAL)- Non contact type spindle Such As Ultrasound Knife and Laser Cutting can be provided
- AUTO TOOL CHANGER: Linear magazine with capacity of 6-12tools
- TYPE OF WORKING TABLE-Variou machine tables such as shuttle or alternating with help of servo driven Rack & pinion
- AUTOMATIC LUBRICATION SYSTEM : A pressurized greasing system, which continuously applies lubricant
- SWARF AND DUST EXTRACTION SYSTEMS (OPTIONAL)
- AUTO CALIBRATION SYSTEMS-Tool probe allows to measure and correct automatically the length and diameter of the cutter. It offers damage control, as well.
- CONSTRUCTION OF WORKING TABLE- Milled Aluminum Plate with Parallel Grooves (Inverted T Section), or A Grid of Perpendicular Grooves For the Use of Vacuum Clamping System, Or A Surface with Hybrid Structure
- ROTARY INTERPOLATED AXES -Transmission of servo motors motion to rotary interpolated axes is accomplished by special, Cycloidal rotary gears. These ensure very high positioning precision and reliability of the rotary axes in the machine.
- CAM SOFTWARE (OPTIONAL)- Data Acquisition from 3 D drawing

SPECIFICATION :

SR NO.	MODEL	AXIS	X-Y-Z-B-C	Table movement	SPINDLE POWER MOTOR	MAX. CUT.SPEED
1	TR-1010-1T-5	x	1000-	Reciprocating Table	2.2/3.5/6 KW Air/water cooled 18000 rpm	12000 mm /min.
		y	1000-			
		z	250-			
		B	+/- 90			
		C	+/-360			
2	TR-1525-1T-5	x	1500-	Reciprocating Table	2.2/3.5/6 KW Air/water cooled 18000 rpm	12000 mm /min.
		y	2500-			
		z	+/-500			
		B	+/- 90			
		C	+/-360			
3	TR-1515-2T-5	x	1500-	Two Independent Table	2.2/3.5/6 KW Air/water cooled 18000 rpm	12000 mm /min.
		y	1500-			
		z	+/-500			
		B	+/- 90			
		C	+/-360			
4	TR-1520-2T-5	x	1500-	Two Independent Table	2.2/3.5/6 KW Air/water cooled 18000 rpm	12000 mm /min.
		y	2000-			
		z	+/-500			
		B	+/- 90			
		C	+/-360			

• Technical specifications are subject to change without prior notice.

APPLICATIONS :

Rational and economic machining of smaller parts such as decoration panels cover plates, cycle helmets , Sports helmets , Luggage shell & briefcase parts, Machinery/testing & construction equipment enclosures etc.

The outstanding precision meets the exacting requirements of the automotive supplier, aircraft and aerospace industries as well as the yacht building and sanitary sector. Potential applications include for example paneling of aircraft interiors and fuselages, molds and models for the whole vehicle industry and sanitary products such as bathtubs and shower tubs.

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- A3. Divyam's AI** SERIES- VACUUM FORMING ALL SERVO INTELLIGENT OPERATIONS AND INDUSTRY 4.0
- A4. Divyam's CVF** SERIES VACUUM FORMING MACHINE FOR HIGH SPEED AUTOMATIC CONTINUOUS OPERATION
- A5. Divyam's SPF** SERIES PRESSURE FORMING MACHINE FOR INTRICATE AND COMPLEX FORMING WITH THE HELP OF PRESSURE

A6. Divyam's TOOLING FOR VACCUM FORMING – MADE FROM ALUMINIUM
(WATER COOLED), EPOXY, COMPOSITE MOLDS/TOOLS

• **B. Divyam's CNC ROUTER AND ROBOTS FOR TRIMMING /CUTTING APPLICATION**

B1. Divyam's TRG SERIES 5 AXIS CNC ROUTER – MOVING GANTRY TYPE

B2. Divyam's RTC SERIES ROBOTIC TRIMMING MACHINE

• **C. Divyam's EXTRUSION – MONO AND MULTILAYER THICKLINE EXTRUDER**

C1. I. Divyam's CMS SERIES UPTO 600KG PER HOUR LINE FOR ABS, PC ,PP ,HDPE MONOLAYER
EXTRUDERS

II. Divyam's CMS M SERIES UPTO 600KG PER HOUR LINE FOR ABS, PC ,PP ,HDPE
MULTILAYER EXTRUDERS

Oversees agents are invited.



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