TMPL TECHNOROBOTIC MADE IN INDIA

ONE STOP SOLUTION FOR YOUR IML ROBOT NEEDS

TECHNOROBOTIC MACHINES PVT. LTD.

MANUFACTURER OF :

- EBM IML
- ISBM IML
- IBM IML
- IMM IML

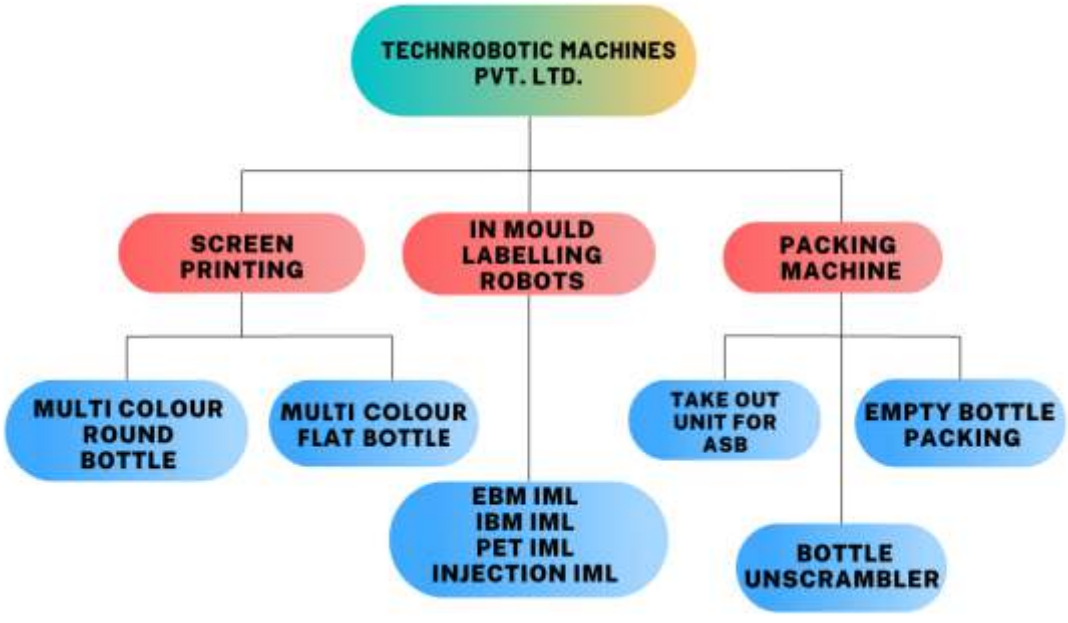
30 YEARS

TECHNOROBOTIC
MAKE IN INDIA

TECHNOROBOTIC MACHINES PVT. LTD.

Technorobotic Machines Pvt. Ltd. is a family run business having a strong pedigree in the Plastic Container manufacturing business. Our founder Mr.K.J.Antony started off with a small workshop catering to maintenance of Imported machines in 1996. He then went on to manufacture multiple machines to aid the Plastic Container manufacturing process like Collapsible tube making, Automatic Screen Printing machine and so on.

Currently we are a strong team of more than 100 employees with our own manufacturing, fabrication and Assembly unit. Our machines are designed by extremely knowledgeable designers who use 3D Designing software for making the machine designs which are then manufactured in our machine shop and assembled by our specially trained employees.



MR. K. J. ANTONY
Founder

A SPECIAL MENTION TO OUR DESIGN TEAM HEADED BY OUR FOUNDER **MR. K.J. ANTONY & TECHNICAL HEAD MR. SIJO THOMAS,** WHO HAVE DONE A LOT OF RESEARCH & DEVELOPMENT BY VISITING CLIENTS AND TAKING FEEDBACK FROM THEM IN ORDER TO MEET NEEDS OF THE MARKET, AS WE STRONGLY FEEL THAT **"AUTOMATION IS THE NEED OF THE HOUR"**

TECHNO IML ROBOT SERIES

CLASSIFICATION OF IML ROBOT

TECHNO IML ROBOT SERIES

- **EBM SERIES**
  - MULTI CAVITY EBM ROBOT:
    - TECHNO EBM IML 2C
    - TECHNO EBM IML 2C JM25
  - MULTI CAVITY EBM WITH DEFLASHING:
    - TECHNO EBM IML 2C
    - TECHNO EBM IML 6C
- **ISBM SERIES**
  - IML ROBOT FOR INJECTION STRETCH BLOW MOULDING:
    - TECHNO ISBM IML 6C
    - TECHNO ISBM IML 6C 70H
- **IML WITH TAKE OUT SERIES**
  - ROBOT WITH INBUILT TAKE OUT UNIT:
    - TECHNO EBM IML 5C UNI
- **IBM SERIES**
  - SIDE ENTRY:
    - TECHNO IBM IML 8C
  - FRONT ENTRY:
    - TECHNO IBM IML 6C
    - TECHNO IBM IML 8C F

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TECHNO EBM IML ROBOT SERIES

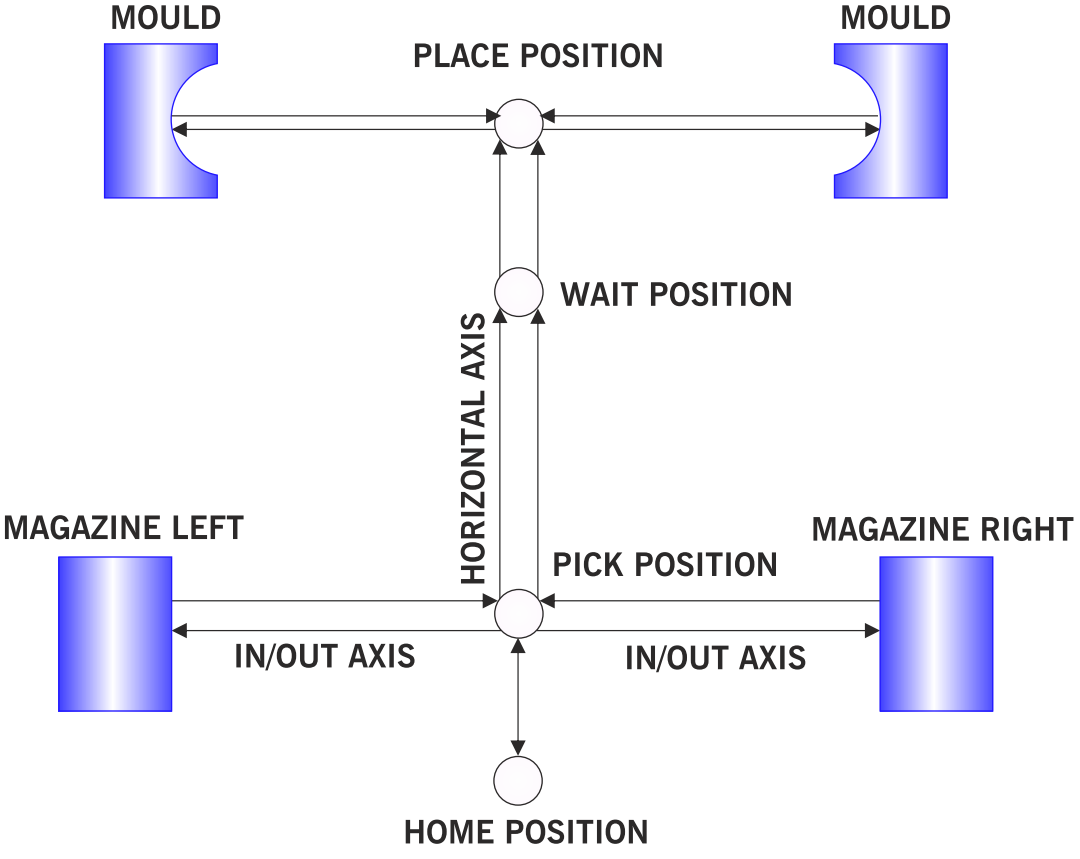
IML SERIES DESCRIPTION :

THE TECHNO IN MOULD LABEL ROBOT IS AN AUTOMATIC IN MOULD LABEL APPLICATION MACHINE WHICH IS USED TO APPLY THE IN MOULD LABEL INSIDE THE MOULD BEFORE THE BLOWING STAGE. THE LABELS ARE HELD INSIDE THE MOULD EITHER BY VACUUM PINS OR BY STATIC ENERGY.
FOR APPLICATION OF IN MOULD LABEL BY STATIC CHARGE A SEPARATE STATIC CHARGER UNIT IS REQUIRED FOR CHARGING THE LABELS.
IN ORDER TO PROVIDE A COMPLETE OEM SOLUTION WE HAVE PROVIDED AN INTERFACE FOR THE FOLLOWING COMPANIES:-

- **FERROMATIC MILACRON INDIA PVT. LTD.(UNILOY MACHINES)**
- **ASB INTERNATIONAL PVT. LTD.**
- **CENTRAL MACHINERY & PLASTIC PRODUCTS**
- **LIANXIN PLASTIC MACHINERY**

PROCESS :

1. THE LABELS ARE FIRST STACKED IN THE MAGAZINE. THE ROBOT ARMS ARE AT THE HOME POSITION
2. THE ARMS THEN GO FORWARD AND PICKS UP THE LABELS USING A VACUUM PLUCKER
3. AFTER PICKING UP THE LABELS THE ARMS WAIT FOR THE MOULD OPEN SIGNAL
4. WHEN THE MOULD OPEN SIGNAL IS RECEIVED THE ROBOT GOES INSIDE THE MOULD AND PLACES THE STICKER
5. THE SIZE OF THE MAGAZINE DEPENDS ON THE NO. OF CAVITY IN THE MOULD
   THE IN MOULD LABEL ROBOT HAS TO WORK IN SYNC WITH THE MOULDING MACHINE. FOR SAFE OPERATION PROCEDURE FEEDBACK IS TAKEN FROM THE MOULDING MACHINE AT ALL IMPORTANT STAGES FOR SAFE OPERATION

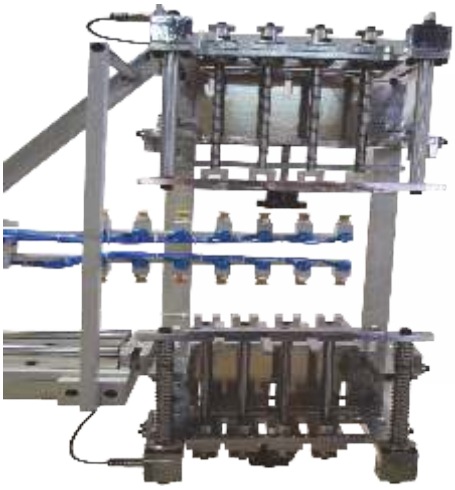


TECHNO EBM IML ROBOT SERIES

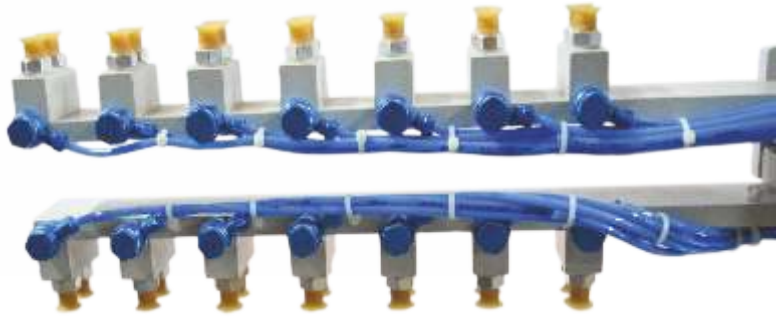
MACHINE FEATURES :

1. SERVO CONTROLLED X AND Y AXIS MOVEMENT
2. EASY TO USE INTERFACE FOR SETTING PARAMETERS
3. REDUCED MAGAZINE REFILL TIME
4. ALUMINIUM MONO BLOCK CONSTRUCTION OF END OF ARM TOOL
5. HEAVY MACHINE FRAME FOR INCREASED STURDINESS AND STABILITY
6. RACK AND PINION WITH TIE ROD SUPPORTED CARRIAGE FOR STABLE AS WELL AS ACCURATE MOTION TRANSFER
7. FEEDBACK TAKEN FOR HOME, PLACE AND WAIT POSITION CROSS CHECKED VIA SENSORS
8. ROTATING CONTROL PANEL FOR EASE OF ACCESS AND NAVIGATION

1. MAGAZINE



2. ALUMINIUM END OF ARM TOOL



3. PANEL

4. STURDY MACHINE STRUCTURE

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TECHNO EBM IML ROBOT SERIES

TYPES OF ENTRY

PARISON SIDE ENTRY

WHEN THE ROBOTIC ARM ENTERS THE BLOW MOULD BY PASSING THE PARISON, THE ENTRY IS KNOWN AS SIDE ENTRY.

DEFLASHING SIDE ENTRY

WHEN THE ROBOTIC ARM ENTERS THE BLOW MOULD FROM THE DE-FLASHING STATION THE ENTRY IS KNOW AS DEFLASHING SIDE ENTRY

TYPES OF ENTRY	ADVANTAGE	DISADVANTAGE
PARISON SIDE ENTRY	LESS MOULD OPENING REQUIRED LESS CYCLE TIME PENALTY	NOT POSSIBLE IN DOUBLE STATION MACHINE
DEFLASHING SIDE ENTRY	CAN BE USED IN DOUBLE STATION	HIGHER CYCLE TIME MOULD OPENING REQUIRED IS MORE

TECHNO EBM IML 2C

DESCRIPTION:

THE TECHNO IN MOULD LABEL ROBOT IS USED FOR AUTOMATIC APPLICATION OF LABELS DIRECTLY INSIDE THE EXTRUSION BLOW MOULDING MACHINE DURING THE BLOWING STAGE.

TECHNICAL SPECIFICATION:	
LENGTH	2100mm
BREADTH	1300mm
HEIGHT	1500mm
WEIGHT	~600kg
NO. OF CAVITY	upto 2
POWER SUPPLY	220 A/C SINGLE PHASE
POWER CONSUMPTION	1.5kW
AIR SUPPLY	6 BAR

TECHNO EBM IML ROBOT SERIES

TECHNO EBM IML JM 25

DESCRIPTION:

TECHNO EBM IML JM 25 IS SUITABLE FOR APPLICATION OF LABELS INSIDE THE MOULD OF BIGGER SIZE BOTTLE/JERRY CANS IT IS SUITABLE FOR CONTAINERS OF 10LTR-25LTR VOLUME.

MACHINE FEATURES:

- HIGHER STROKE LENGTH FOR FACILITATING THE REMOVAL OF FINISHED JERRY CANS
- IMPROVED ARM DESIGN FOR STEADY PICK AND PLACE OF BIGGER SIZE LABELS
- PLC OPERATED WITH EASY CALIBRATION OPTION FOR INITIAL SETTING.

TECHNICAL SPECIFICATION:	
LENGTH	1900 mm
BREADTH	1250 mm
HEIGHT	1700 mm
WEIGHT	~800kg
NO. OF CAVITY	2
POWER SUPPLY	220 A/C SINGLE PHASE
POWER CONSUMPTION	1.5kW
AIR SUPPLY	6 BAR

TECHNO EBM IML 5C UNI

DESCRIPTION:

THE TECHNO IN MOULD LABELLING ROBOT UNI SERIES IS A MACHINE DESIGNED SPECIFICALLY FOR IN MOULD LABELLING AS WELL AS TAKE OUT APPLICATION. THE ROBOTIC ARM WHILE RETURNING POST LABEL APPLICATION COLLECTS THE READY BOTTLES FROM THE DEFLASHING STATION

MACHINE FEATURES:

- SERVO CONTROLLED X AND Y AXIS MOVEMENT
- EASY TO USE INTERFACE FOR SETTING PARAMETERS
- REDUCED MAGAZINE REFILL TIME
- HEAVY MACHINE FRAME FOR INCREASED STURDINESS AND STABILITY
- TOP MOUNTED ARM FOR ENABLING OF CONVEYOR PLACEMENT UNDER THE ROBOTIC ARM

TECHNICAL SPECIFICATION:	
LENGTH	2400 mm
BREADTH	1300 mm
HEIGHT	2040 mm
WEIGHT	~1100kg
NO. OF CAVITY	5
POWER SUPPLY	220 A/C SINGLE PHASE
POWER CONSUMPTION	1.5kW
AIR SUPPLY	6 BAR

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TECHNO ISBM IML ROBOT SERIES

TECHNO ISBM IML 6C

DESCRIPTION:

THE TECHNO IN-MOULD LABEL ROBOT IS USED FOR AUTOMATIC APPLICATION OF LABELS DIRECTLY INSIDE THE INJECTION STRETCH BLOW MOULDING MACHINE DURING THE PREFORM STRETCH BLOWING STAGE.

SUITABLE FOR ASB 50MB / 12M

TECHNICAL SPECIFICATION:	
LENGTH	2000mm
BREADTH	1300mm
HEIGHT	1780mm
WEIGHT	~600kg
NO. OF CAVITY	6
POWER SUPPLY	220 A/C SINGLE PHASE
POWER CONSUMPTION	1.5kW
AIR SUPPLY	6 BAR

TECHNO ISBM IML 6C 70H

SUITABLE FOR ASB 70DPH

TECHNICAL SPECIFICATION:	
LENGTH	2000mm
BREADTH	850mm
HEIGHT	1700mm
WEIGHT	~600kg
NO. OF CAVITY	UPTO 6
POWER SUPPLY	220 A/C SINGLE PHASE
POWER CONSUMPTION	1.5kW
AIR SUPPLY	6 BAR

TECHNO IBM IML ROBOT SERIES

TECHNO IBM IML 6C

DESCRIPTION:

THE TECHNO IBM SERIES ROBOT HAS BEEN DEVELOPED FOR IN-MOULD LABEL APPLICATION INSIDE INJECTION BLOW MOULDING MOULDS.

THE ARM MOVEMENT IS ABOUT THE Y-AXIS DEPENDING ON THE NO. OF CAVITY, SHAPE OF CONTAINER AND AVAILABILITY OF SPACE. THERE ARE 2 TYPES OF IML ROBOTS.

FRONT ENTRY ROBOT:

THE ROBOTIC ARM ENTERS THE FRONT OF THE MOULD
AND PLACES THE LABELS BEFORE BLOWING STAGE.
THE END OF ARM TOOL HAS BEEN DESIGNED KEEPING IN MIND
THE PREFORM MANDREL.
SUITABLE FOR SPHERICAL AND FLAT ITEMS.

TECHNICAL SPECIFICATION	
LENGTH	1760mm
BREADTH	850mm
HEIGHT	1700mm
WEIGHT	~600kg
NO. OF CAVITY	6
MOULD CENTRE FROM GROUND	1300±100mm
POWER SUPPLY	220 A/C SINGLE PHASE
POWER CONSUMPTION	1.5kW
AIR SUPPLY	6 BAR

TECHNO IBM IML 8C

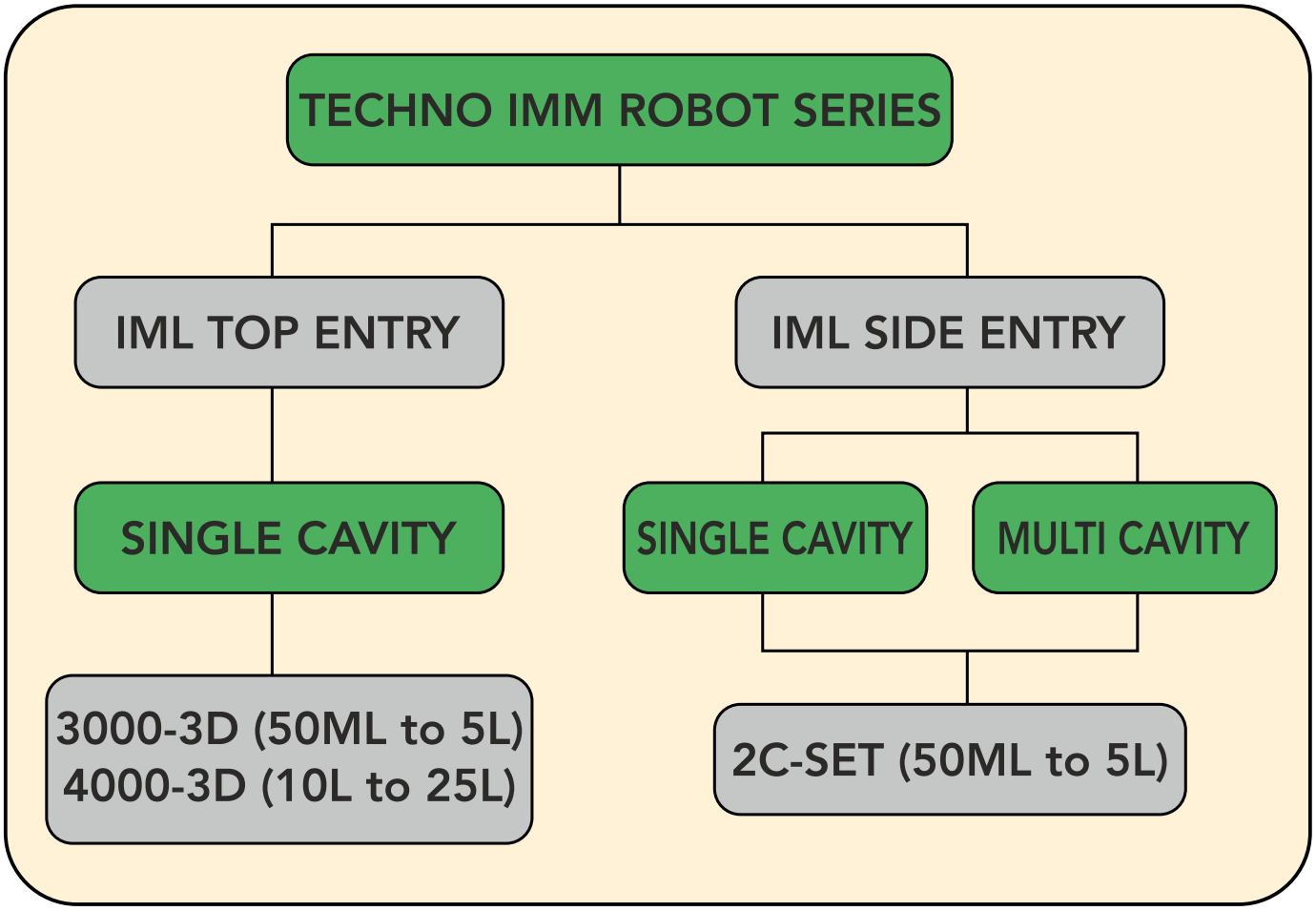
SIDE ENTRY:

THE ROBOTIC ARM ENTERS FROM THE SIDE OF THE IBM MACHINE
SUITABLE FOR CYLINDRICAL ARTICLES

TECHNICAL SPECIFICATION:	
LENGTH	2000mm
BREADTH	850mm
HEIGHT	1700mm
WEIGHT	~600kg
NO. OF CAVITY	8
POWER SUPPLY	220 A/C SINGLE PHASE
POWER CONSUMPTION	1.5kW
AIR SUPPLY	6 BAR

TECHNO IMM IML ROBOT SERIES

CLASSIFICATION OF IMM IML ROBOT



TECHNOROBOTIC
MAKE IN INDIA

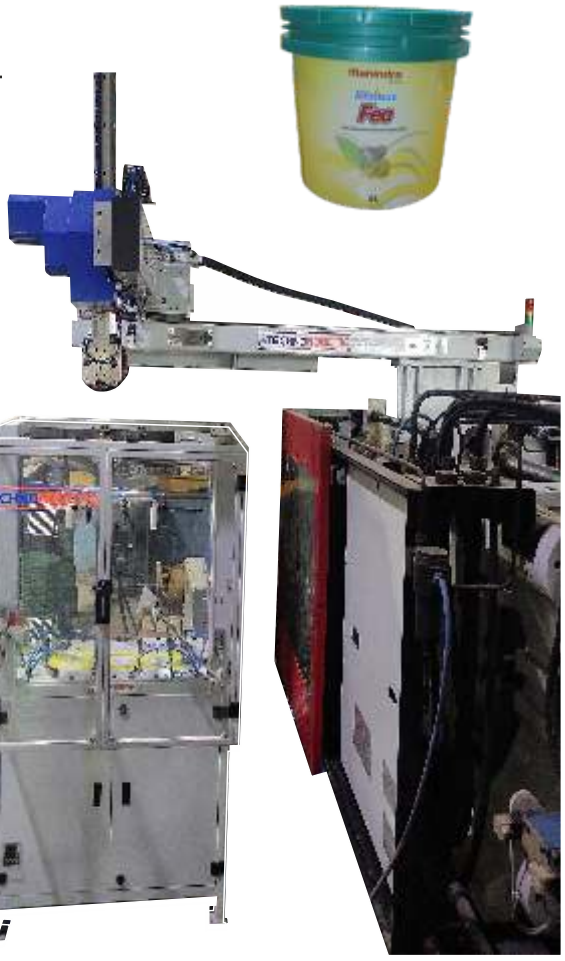
TECHNO IMM IML 3D ROBOT SERIES

DESCRIPTION:

THE TECHNO IMM IML SERIES ROBOT CATERS TO THE INJECTION MOULDING IML SEGMENT. IT IS A THREE AXIS ROBOT WHICH CAN BE MOUNTED ON THE TOP OF THE INJECTION MOULDING MACHINE.

SALIENT FEATURES OF TOP ENTRY SERIES

- THREE AXIS SERVO CONTROLLED MOTION.
- MOTION CONTROLLER BASED OPERATING SYSTEM.
- COMPLETELY MANUFACTURED IN INDIA.
- UNIVERSAL TYPE MAGAZINE TO MINIMISE CHANGE PART COST.
- AVAILABLE WITH EURO MAP 67 INTERFACE
- EQUIPPED WITH EUROPEAN MAKE STATIC CHARGER
- HAND HELD MPG SYSTEM FOR EASY CALIBRATION OF MANDREL.
- FLEXIBILITY OF MANUFACTURING LID AND CONTAINER IML IN THE SAME MACHINE.
- REMOTE ACCESS CONTROL SYSTEM FOR ONLINE SUPPORT AT SITE.



ADD ON FEATURES

- TAKE OUT SERIES WITH STACKING ON CONVEYOR
- MANDREL ORIENTATION UNIT
- MANDREL ROTATING UNIT
- VACUUM PUMP

TECHNICAL SPECIFICATION

MODEL NAME	2000 -3D	3000-3D	4000-3D
X AXIS STROKE	1500	2000	2500
Y AXIS STROKE	750	1200	1500
Z AXIS STROKE	750	1000	1500
POWER CONSUMPTION	3.5 KW	3.5 KW	3.5kW
AIR CONSUMPTION	10-12 CFM AT 6 BAR	12-14 CFM AT 6 BAR	14-16 CFM AT 6 BAR

TECHNOROBOTIC
MAKE IN INDIA

TECHNO IMM IML S.E.T. ROBOT SERIES

DESCRIPTION:

THE TECHNO IMM IML S.E.T. ROBOT SERIES REPRESENTS OUR RANGE OF INJECTION MOULDING IML ROBOTS WHICH ENTER FROM THE SIDE.

THE IML ROBOT IS SUITABLE FOR PALE CONTAINERS IN PAINT AND LUBE INDUSTRIES. WITH THE IMM ROBOT SERIES WE HAVE PROVIDED INDIA WITH AN ECONOMIC SOLUTION COMPARED TO THE EUROPEAN COUNTERPARTS.

MACHINE FEATURES:

SALIENT FEATURES OF SIDE ENTRY SERIES

- 2 AXIS SERVO CONTROLLED SYSTEM
- INDEPENDENT AXIS FOR TAKE OUT AND LABELLING
- SERVO CONTROLLED LABEL PICKING
- NC BASED CONTROLLING SYSTEM
- FLEXIBILITY OF DOING LID AND CONTAINERS

TECHNO IMM IML 2C L

DESCRIPTION:

THE TECHNO IMM IML 2C L IS A 2 CAVITY IML ROBOT MADE SPECIALLY FOR IML APPLICATION ON LID. IT IS BASED ON OUR EBM IML DESIGN PLATFORM. THEREFORE MAKING THE SYSTEM EASY TO USE AND COST EFFECTIVE.

SALIENT FEATURES OF TOP ENTRY SERIES

- UP TO 2 CAVITY LID POSSIBLE
- SERVO CONTROLLED X AND Y AXIS ROBOTIC ARM
- 7" MULTI COLOUR DISPLAY
- EURO MAP 67 INTERFACE POSSIBLE
- RACK AND PINION DRIVEN X AND Y AXIS
- STEP SETTING MODE FOR EASY CALIBRATION

TECHNICAL SPECIFICATION	
HEIGHT	2000 mm
WEIGHT	~850kg
NO. OF CAVITY	2
MOULD CENTRE FROM GROUND	1200±50mm
POWER SUPPLY	220 A/C SINGLE PHASE
POWER CONSUMPTION	1.5kW
AIR SUPPLY	6 BAR

TECHNO IMM IML S.E.T. ROBOT SERIES

TECHNO IMM IML S.E.T. 2C

DESCRIPTION:

THE IMM IML 2C S.E.T. IS A VERSATILE IML ROBOT OFFERED BY US.
WE CAN DO THE FOLLOWING IML JOBS ON THE MACHINE USING ADDITIONAL CHANGE PARTS:
1. WRAP AROUND LABEL ON CYLINDRICAL AND RECTANGULAR CONTAINER UPTO 2 CAVITY
2. BUTTERFLY LABEL ON RECTANGULAR CONTAINER UPTO 2 CAVITY
3. 4 CAVITY LID IML

MACHINE FEATURES:

- HIGH SPEED ROBOT WITH TAKE OUT AND STACKING ON CONVEYOR FACILITY
- NC BASED CONTROLLER SYSTEM FOR CHANGING PROGRAM ON TH GO
- SERVO CONTROLLED LABEL PICKER UNIT
- INDIVIDUAL SERVO FOR LABEL PICK AND CONTAINER TAKE OUT UNIT.
- HAND HELD HMI FOR EASE OF OPERATION ALONG WITH TEACH PENDANT FOR EASY CALIBRATION.
- EUROMAP 67 INTERFACE
- STURDY CONSTRUCTION FOR VIBRATION FREE ARM MOVEMENT
- INTERCHANGEABLE MAGAZINE UNIT AND STACKING UNIT

TECHNICAL SPECIFICATION	
LENGTH	2650mm
BREADTH	2000mm
HEIGHT	2350mm
WEIGHT	~1100kg
NO. OF CAVITY	2
MOULD CENTRE FROM GROUND	1450±50mm
POWER SUPPLY	220 A/C SINGLE PHASE
POWER CONSUMPTION	4 kW
AIR SUPPLY	6 BAR

TECHNOROBOTIC
MAKE IN INDIA

TECHNO IMM IML S.E.T. ROBOT SERIES

TECHNO IMM IML 4C S.E.T.

DESCRIPTION:

THE IMM IML 4C S.E.T. IS A VERSATILE IML ROBOT OFFERED BY US.
WE CAN DO THE FOLLOWING IML JOBS ON THE MACHINE USING ADDITIONAL CHANGE PARTS:
1. WRAP AROUND LABEL ON CYLINDRICAL AND RECTANGULAR CONTAINER UPTO 4 CAVITY
2. BUTTERFLY LABEL ON RECTANGULAR CONTAINER UPTO 4 CAVITY
3. 4 CAVITY LID IML

SALIENT FEATURES OF SIDE ENTRY

- HIGH SPEED ROBOT WITH TAKE OUT AND STACKING ON CONVEYOR FACILITY.
- NC BASED CONTROLLER SYSTEM FOR CHANGING PROGRAM ON THE GO.
- SERVO CONTROLLED LABEL PICKER UNIT.
- INDIVIDUAL SERVO FOR LABEL PICK AND CONTAINER TAKE OUT UNIT.
- HAND HELD HMI FOR EASE OF OPERATION ALONG WITH TEACH PENDANT FOR EASY CALIBRATION.
- EUROMAP 67 INTERFACE.
- STURDY CONSTRUCTION FOR VIBRATION FREE ARM MOVEMENT.
- INTERCHANGEABLE MAGAZINE UNIT AND STACKING UNIT.

TECHNICAL SPECIFICATION	
LENGTH	2400mm
BREADTH	1800mm
HEIGHT	2150mm
WEIGHT	~2000kg
NO. OF CAVITY	4
MOULD CENTRE FROM GROUND	1450±50mm
POWER SUPPLY	220 A/C SINGLE PHASE
POWER CONSUMPTION	7.5 kW
AIR SUPPLY	6 BAR

TECHNO IMM IML 4C S.E.T.

HAND HELD HMI

STURDY END OF ARM TOOLING

OPTIONAL STACKING UNIT

MULTI CAVITY MAGAZINE UNIT

TECHNOROBOTIC

TMPL

MADE IN INDIA

IML ROBOT

Complete range of In-Mould Labelling Robots for all your container decoration needs.

PACKING AUTOMATION

End of line bottle packaging systems suitable for all types of production.

SCREEN PRINTING MACHINE

Automatic Silk Screen Printing Machine for Flat and Round Bottles.

find us here

Technorobotic Machines Pvt. Ltd.

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