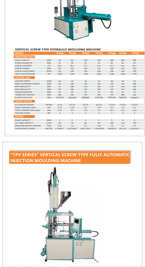

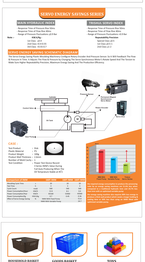

About us

Trishul Plas�c machine MFG. is manufacturer and exporter offering world class solu�on in industrial machine. Trishul Plas�c Machine MFG. were established in 1994. the research and development and manufacture of machinery. the technology and inteareliles design manufacture assembly, tes�ng & sales are complete provides. trishul plas�c mfg upgrading high standard of quality control. the watchword and understanding consumers need and providing best engineering solu�ons.

Wel Come to TRISHUL PLASTIC MACHINE MFG.

Trishul Plas�c machine are used and manufacturing for irriga�ons, Home Appliances, electronic parts and etc. we demonstrated con�nues growth in terms of product development and up grada�on of technology.

Trishul plas�c machine mfg is ISO 9001 : 2015 cer�fied and high quality plas�c molding machine.

VERTICAL SCREW TYPE HYDRAULIC MOULDING MACHINE

MODEL

INJECTION UNIT

SHOT CAPACITY
SCREW DIAMETER

SCREW L/D RATIO
SCREW STROKE

SCREW SPEED (MAX)
INJECTION PRESSURE

LOCKING UNIT

LOCKING FORCE
MOULD OPENING STROKE
MIN. MOULD HT.
MAX.MOULD HT.
TIEBAR DIAMETER
TIEBAR DIST CENTER

PLATEN SIZE (HXV)

POWER SYSTEM

ELE.MOTOR POWER
BARLE HEATING LOAD
TOTAL CONNECTION LOAD
HEATING ZONES

OTHERS

PUMP CAPACITY
OIL TANK CAPACITY
MACHINE WEIGHT APPROX
FLOOR SPACE LXHXW

TPV20 TPV25 TPV30 TPV35

GMS
MM

L/D
MM
RPM
PSI

TONS
MM
MM
MM
MM
MM
MM

HP/KW
KW
KW
NO

GPM
LITER
TON
METER

2
60
0.75
1.3X2X0.7

30
25
18.1
115
225
1250

20
175
75
175
40
200
170X320

2/1.5
2.25
3.75
3

3
70
1.0
1.5X2.4X0.7

60
30
18.1
125
200
1200

25
200
100
200
45
250
185X380

30
225
125
225
50
325
200X465

3/2.25
2.25
4.5
3

5/3.75
3.5
7.25
3

100
35
17.1
150
190
1150

3
80
1.2
1.6X2.7X0.7

35
250
125
250
55
350
225X500

5/3.75
3.75
7.5
3

5
90
1.35
1.7X2.9X0.8

150
40
17.1
175
190
1150

TPV40

40
275
125
275
60
375
225X535

7.5/5.6
4.5
10.1
3

5
100
1.6
1.8X3X0.9

200
45
17.1
200
160
1100

TPV45

45
275
150
275
65
400
250X575

7.5/5.6
5.6
11.2
4

8
110
2.1
2X3.2X1

250
60
16.1
225
160
1100

TPV50

50
300
150
300
70
425
250X615

7.5/5.6
6.2
11.8
4

8
120
2.6
2.2X3.3X1.1

300
55
16.1
250
150
1175

400
60
16.1
275
150
1050

500
65
16.1
300
140
1050

700
70
16.1
325
140
1000

TPV60 TPV70 TPV85 TPV100

60
300
150
300
70
450
275X640

10/7.5
7.5
15
4

8
130
3.0
2.4X3.4X1.2

70
325
200
350
75
500
300X700

85
350
200
350
75
550
325X750

10/7.5
9.5
17
4

8
140
3.5
2.4X3.5X1.3

11
150
3.75
2.5X3.8X1.3

12.5/9.3
11
20.3
4

1000
80
16.1
350
140
970

100
400
250
400
80
600
350X810

11
160
4.0
2.7X4.2X1.5

15/11
12.5
23.5
4

TPVC SERIES

VERTICAL CLAMPING HORIZONTAL INJECTION MACHINE

Horizontal Screw Type Injec�on Fully Micro Processor Controller Machine

3 Side Core Pulling Op�onal Suitable For Insert Moulding

MACHINE TYPE

SCREW DIAMETER
INJECTION PRESSURE
THEORETICAL SHORT VOLUME

MAX. SHOT WEIGHT (PS)
INJECTION RATE
SCREW STROKE
SCREW SPEED MAX.
NUMBER OF TEMPERATURE CONTROL
MATERIAL HOOPER CAPACITY
CLAMPING FORCE
OPENING FORCE
MAX.MOULD SIZE
MIN. MOLD HEIGHT
OPENING STROKE
MAX.OPEN DAYLIGHT
EJECTOR FORCE
EJECTOR STROKE
MAX. HYDRAULIC PRESSURE
PUMP OUTPUT
OILTANK
PUMP CAPACITY
BARREL HEATING
TOTAL WATTAGE
MACHINE WEIGHT
FLOOR SPACE

TPVC35 TPVC65 TPVC110 TPVC180

MM

KG/CM2
Cm3
G

CM3/SEC
MM
RPM

‐

I
TONS
TONS
MM
MM
MM
MM
TONS
MM

KG/CM2
LITER/MIN
LITERS
KW
KW
KW
TONS
M

25
1700
49
45
35
100
0‐250
3
8
7
1.5
200X200
75
210
375
1.3
50
120
20
60
2.2
2.5
4.7
0.5
1.7X0.9X2.3

30
1700
71
60
50
100
0‐250
4
8
7
1.5
200X200
75
210
375
1.3
50
120
20
50
2.2
3.2
5.4
0.6
1.7X0.9X2.3

35
1600
130
100
71
135
0‐250
4
10
10
2.5
260X260
75
300
465
1.3
70
120
26
80
3.5
4
7.5
0.8
1.8X1X2.5

40
1500
207
150
90
165
0‐250
4
10
13
3.1
280X280
100
325
540
1.3
70
120
26
100
3.5
5
8.5
0.95
2X1.09X2.7

TPVC220

40
1500
251
200
114
200
0‐250
4
20
18
4
340X340
100
465
665
2
70
120
40
140
5
6.1
11.1
1.2
2.2X1.17X2.9

TPVC320

40
1500
251
300
114
300
0‐250
4
20
18
4
340X340
100
465
665
2
70
120
40
140
5
6.1
11.1
1.3
2.2X1.17X3.2

50
1400
275
500
167
350
0‐200
5
20
25
6.1
360X360
125
550
790
2
70
120
56
180
8.8
8.3
17.1
1.5
2.4X1.3X3.8

UNIT TPVC550

TPVX SERIES

HORIZONTAL PLUNGER TYPE INJECTION

PLASTIC VERTICAL HYDRAULIC MOULDING MACHINE

SHORT CAPACITY IN GRAM
DIAMETER INJECTION PLUNGER IN MM
STRCK OF INJECTION PLUNGER IN MM
MAX. MOULD HEIGHT
MOULD OPENING MM

MOULD CLOSING PRESSURE KG/CM
OIL CAPACITY LITERS
HEATING CAPACITY KW
ELEC. MOTOR CAP.RPM 1440 HP

PUMP PRESSURE CAP KG/CM
LOCKING FORCE IN TONS

30
28
180
150
150
110
60
600
2
110
25

60
32
210
150
150
110
60
750
2
110
25

100
40
235
215
240
120
100
1000
3
120
35

150
45
275
225
250
120
110
1000
3
120
35

200
50
325
250
270
130
120
1500
5
130
40

250
55
400
260
290
150
135
1800
5
150
45

500
60
475
280
310
150
150
2000
7.5
150
50

750
65
550
330
325
160
170
2000
7.5
160
60

1000
70
625
380
370
160
180
2500
10
160
70

SHORT WEIGHT CAPACITY START FROM 60 GM TO 45 K.G

“TPV SERIES” VERTICAL SCREW TYPE FULLY AUTOMATIC INJECTION MOULDING MACHINE

STANDARD ACCESSORIES

“TP SERIES” COMPETITIVELY BETTER THAN HORIZONTAL MACHINE. AGAINST PRICE WISE SPACE WISE PRODUCTION WISE ELECTRIC CONSUMPTION WISE MOULD COST WISE

PROVEN SCREW GEOMETRY FOR OPTIMUM MELT HOMOGENEITY. SUCK BACK AFTER REFILL.
HIGH PERFORMANCE MOULD CLAMPING STRUCTURE.
DIRECT SCREW DRIVE THROUGH HIGH TORQUE
VARIABLE SPEED RADIAL PISTON HYDRO MOTOR.
MEGNETIC GRILL IN HOOPER THREADED CAP FOR HOOPER

EMPTING WEAR & CORROSION RESITANT NITRIDE SCREW / BARRLE.
CLOSE TANK DESIGN.
OUTPUT IS HIGH & PRODUCT QUALITY IS EXCELLENT.
INJECTION SPEED & PRESSURE VARIABLE BY HYDRAULIC CONTROLS.

DIGITAL TIMER, DIGITAL CONTROLLER, DIGITAL SHOT COUNTER. LOW PRESSURE MOULDING FACALITY.
SAVE YOU RAW MATERIAL PROCESSING CHARGE & TIME.

MICRO PROCESSOR CONTROL PANEL BOARD

CLAMPING FORCE : 70T TO 500T

INJECTION WEIGHT : 90G TO 850G

VERTICAL FOUR COLUMNS CLAMPING, HORIZONTAL
INJECTION SUITABLE FOR BIG INSERT PART INJECTION

MOLDING PROCESS. WE CAN UPGRADE TO SERVO MOTOR

FOR CUSTOMER’S NEED, THE ACTUAL ENERGY SAVE 50%‐70%

JOURNEY SO FAR

with an aim to deliver to the indian injec�on molded plas�c parts processing industries, a start‐up with team of engineers & technicians ventured for assembly factory in AHMEDABAD, GUJARAT, INDIA.

in the beau�ful heritage city of ahmedabad with bigger manufacturing, assembly & office premises with improved infrastructure. as a policy, we always believed in providing friendly working environment to our staff and invested in much larger & spacious assembly area & office to make lives of our staff comfortable.

with modern factory, advanced processing equipment and comfortable working condi�on TRISHUL PLASTIC MACHINE are conceptually design to ensure the highest quality standards.

SERVO ENERGY SAVINGS SERIES

MAIN HYDRAULIC INDEX TRISHUL SERVO INDEX

‐ Response Time of Pressure Rise 50ms
‐ Response Time of Flow Rise 40ms
‐ Range of Pressure Fluctua�ons +0.9 Bar

‐ Response Time of Pressure Rise 50ms
‐ Response Time of Flow Rise 40ms
‐ Range of Pressure Fluctua�ons +0.9 Bar

Note :‐ KW.h/Kg : Repeatability Precision
1st Class <0.4
2nd Class >0.4‐0.55
3rd Class >0.55‐0.7

_

_ Special Class <0.5
1st Class >0.5‐1
2nd Class >1‐2

_
_
_

SERVO ENERGY SAVING SCHEMATIC DIAGRAM

The Servo Energy Saving Plas�c Moulding Machinery Configure Rotary Encoder And Pressure Sensor. So It Will Feedback The Flow & Pressure In Time. It Adjusts The Flow & Pressure by Changing The Servo Synchronous Motor’s Rotate Speed And The Torsion to Make Sure Higher Repeatability Precision, Maximum Energy Saving And The Produc�on Efficiency.

Test Product
Plas�c Material

Product Weight
Product Wall Thickness

Number of Mold Cavity
Test Condi�on

CASE :

:
:
:
:
:
:

Disk
PS

100g
2.6mm
1
Power Test Device Record

3 Series IMM’s Value During
Full Auto Producing When The
Oil Temprature Stable at 45 C

Comparison of IMM 160T IMM 160T IMM 160T IMM

Moulding Cycle Time
Test Time

Cycle Count
Power Consump�on/Hour
Power Consump�on/Year
Power Consump�on/Kg
Effect of Servo Energy Saving

s

h
mold
KW/h
KW/h
KW.h/kg
%

20
3
540
12.6
83160
0.7

IMM With Fixed Pump
IMM With Variable Pump

20
3
540
8.1
53460
0.45

20
3
540
6.6
43560
0.36
51.6
24.7

M

Gear Pump

Oil Tank

Control Valve

Cylinder

Pressure Sensor

Permanent Magnet
Synchronous
Servo Motor

Rotary Encoder

Servo Dive

the required energy consump�on to produce the processing ruler by an energy saving machines are 51.6% less when compared to a tradi�onal hydraulic imm and 24.7% less than imm with an op�mized variable pump

the energy saving machine also requires 80% less energy to produce a thick wall product which needs a longer holding & cooling �me or 50% less than using an IMM fi�ed with op�mized variable pump.

100%

64%

48%

_

_

_

_

_

_

_
_

_

12

10

8

6

4

2
0

14

16

Kw.h

IMM With
Fixed Pump

IMM With
Variable Pump

Trishul
Servo Series

OPTIONAL FEATURES

TOYS

HOUSEHOLD BUCKET

PVC & UPVC FITTINGS & MOULDED FITTINGS

VALVE

TPV SERIES

PLASTIC INJECTION MOLDING

MACHINE
AN ERA OF TECHNOLOGY

WE BUI L D IT WITH YOUR TRUST

We are con�nually high standards in technology, quality, performance, service and support. Our team of professionals has all the requisite exper�se related to injec�on molding machines.

To prospect the future, we set our sights on stable quality of present products, research and develop latest technologies and enhanced design, expand the market reach, promote trishul machinery organiza�on. we expect our company to go ahead tothe goal of diversifica�on.

in the compe��ve era of globaliza�on. trishul machinery keeps running principle consistently ‐ think globally, foo�ng locally, ac�ve & crea�ve. enjoys challenge, brand marke�ng and upgrade opera�on.

M I S S I O N

V I S I O N

GLOBAL

GROWTH

SUCCESS

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trishulplas�c@gmail.com

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99740 20716, 70692 78891

Visit us

Office

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:‐

:‐

:‐

:‐

DUSTBIN

HOUSEHOLD TIN VESSELS TROLLEY CLOTHE WASHED BOWL

HOUSEHOLD BASKET GOODS BASKET

SPECIAL FEATURES

INJECTION MOLDING MACHINE
Energy Efficient
High Precision & Stable Moulding
Quick Response & Low Noise

Large Clamp Stroke, Efficient and Reliable Movement. Wear Resistance & High Quality Cas�ng Platen Adopts Finite Element Analysis Design That Brings Even Stress Distribu�on to Increase Mold Locking Precision.

Self Lubrica�ng Bushes Used In Guide Rods and Tie‐Bars For Smooth Running and Elimina�ng The Need of External Lubrica�on of Machine Surfaces and Plas�c Goods.

Automa�c Mold Height Adjustment by Hydraulic Motor Through a Planetary Gears System Ensures Fast and Constant Se�ngs. Mul� Eject Func�on With Adjustable Pressure, Speed, Posi�on And Delay Time.

Low Pressure Mold Protect.

Linear Poten�ometer For Mold Clamp Posi�on Control.
Three Stages of Mold‐ OPEN/CLOSE, Pressure and Speed Control. Whole Covered Guide of Clamping unit Ensures The Operator’s Safety.

TP‐250 TP‐300 TP‐350 TP‐400

A B

60 65
214 194
580 690
645 767
275
1435 1292
177 215
62 70
150
6
350

250
500
225 550
105
550x550
860x860
1050
4
150

140
450

25/18.5
12.6
5
31.1

35
10
5.5x1.6x2

A B

65 70
214 19.5
760 1010
845 1125
300
1405 1265
246 292
75 85
150
6
375

300
550
250 600
115
600x600
950x950
1120
4
200

140
500

30/22
14
5
36

35
12
6.25x1.7x2.1

A B

70 80
214 18.5
970 1290
1077 1433
350
1380 1242
255 299
90 98
150
6.5
400

350
600
300 650
120
650x650
1020x1020
1170
4.5
225

140
550

40/30
15
6
45

50
13
7x1.8x2.2

A B

80 90
214 18.5
1490 1900
1655 2110
375
1350 1215
289 386
105 115
150
6.5
450

400
650
350 700
130
700x700
1150x1150
1250
5
250

140
650

40/30
17.5
6
47.5

50
14
7.6x1.9x2.3

TRISHUL PLASTIC MACHINE MFG.
TOOGGLE INJECTION MOULDING MACHINE

TPH SERIES

TP‐150 TP‐200

A B

50 55
214 194
320 390
355 433
225
1515 1365
108 137
38 43
160
5.5
250

150
400
200 450
85
450X450
710X710
830
3
125

140
350

15/11
9.5
4
20.5

30
5.5
4.5X1.4X1.8

A B

55 60
214 194
440 530
489 588
250
1485 1345
132 153
48 54
155
5.5
300

200
450
200 500
95
500X500
790X790
950
3.5
125

140
400

20/15
11
5
26

30
7.8
5X1.5X1.9

MODEL TP‐30 TP‐50 TP‐75 TP‐100 TP‐125

INJECTION UNIT
screw diameter
screw L/D Ra�o
shot weight (ps)
stroke volume
screw stroke
injec�on pressure
injec�on rate
plas�cizing capacity
screw speed (max)
nozzle holding force
nozzle stroke

CLAMPING UNIT

clamping force
mould opening stroke
mould height min. max
�e bar diameter
distance between �e rods (HxV)
platen size (HxV)
max daylight
ejector force
ejector stroke

POWER SYSTEM

hyd. system pressure
oil tank capacity
pump drive motor
hea�ng capacity
no.of hea�ng zones
total power capacity

hopper capacity
machine weight approx
floor space l x w x h approx

mm

gms
cm3
mm

bar
gms/sec
g/s
rpm
ton
mm

ton

mm
mm
mm
mm
mm
ton
mm

kg/cm
liters
hp/kw
kw

kw

kg

ton
meter

A’
25
224
40
55
115
1740
37
5
250
4
200

30
200
100 250
40
250X250
390X390
450
1.5
70

140
100

5/3.7
2.8
4
6.5

25
2.5
3.5X0.8X1.3

A B

30 35
214 184
50 60
55 66
125
1695 1525
40 52
8 10.4
225
4
200

50
225
100 250
50
300X300
470X470
475
2
80

140
100

5/3.7
3.5
4
7.2

25
3.0
3.5X0.8X1.3

A B

35 40
214 184
95 125
105 139
150
1650 1485
58 67
16 21
210
5
200

75
250
100 325
60
350X350
550X550
500
2
80

140
200

7.5/5.5
4.5
4
10

25
3.5
3.8X1.1X1.5

A B

40 45
214 18.5
150 195
166 216
175
1595 1435
62 85
23 27
190
5
250

100
300
150 350
70
380X380
600X600
650
2.5
100

140
250

10/7.5
6
4
13.5

25
4.0
4X1.2X1.6

A B

45 50
214 194
225 280
250 310
200
1550 1395
66 88
31 34
165
5
250

125
350
200 400
75
420X420
650X650
750
3
100

140
300

12.5/9.3
7.1
4
16.4

25
4.5
4.3X1.3X1.7

OTHERS