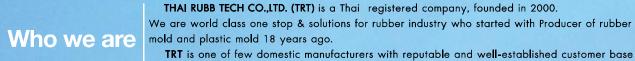


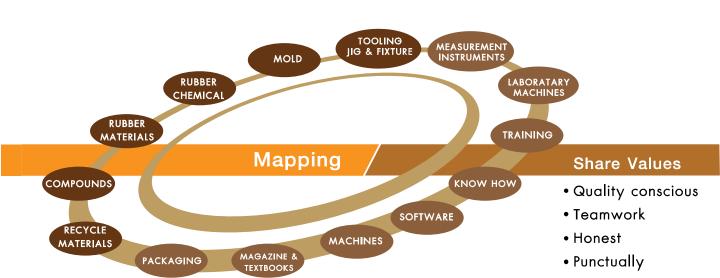


WORLD CLASS ONE STOP SERVICE SOLUTIONS FOR RUBBER INDUSTRY

Company Overview



TRT is one of few domestic manufacturers with reputable and well-established customer base (over 15 years). After that we have expand our product that can support every activity in the midstream of the rubber industry.



Current products provided include 6 class

- 1. Natural Rubber
- 2. Compound Master Batch
- 3. Moklean
- 4. Tooling Jig&Fixture
- 5. Mold For Rubber & Mold For Plastic Products
- 6. Jewerly Molding Compound (MOGEM)
- 7. Insulator
- 8. Machine of Rubber Industry



MOLD

MOLD FOR RUBBER PRODUCTS

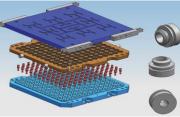
COMPRESSION MOLD, TRANSFER MOLD

- High Precision
- Improve Productivity
- Easy triming
- Reduce Defect Rate
- Short Lead time
- On Time Delivery

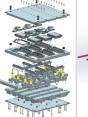
INJECTION MOLD

- High Precision
- Improve Productivity
- Material Saving by non runner waste
 Cold Runner Box
- Reduce Defect Rate
- Short Lead time
- On Time Delivery



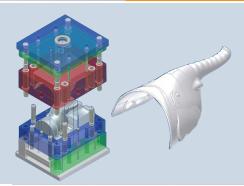








MOLD FOR PLASTIC PRODUCTS





INJECTION MOLD

- High Precision
- Short Cycle Time
- Material Saving by hot runner system
- Reduce Defect Rate
- Short Lead time
- On Time Delivery

MACHINE LIST

CNC machine center 4 Units

- Harding (1000×500 mm.)
- Makino (350×450 mm.)
- Haas VM3 (1016×660 mm.)
- Haas VF3 (800×600 mm.)



Grinding 4 Units

- Okamoto 400 x 600 mm.
- Darex (1.6 Dia 26 Dia mm.)
- Darex (3.0 Dia 25 Dia mm.)
- Darex (3.0 Dia 25 Dia mm.)

Lathe 4 Units

- Chu-Shing Machinery
 (600 mm. Dai.) 3 Units.
- Takang Industries (400 mm. Dai.)

Miling 4 Units

- Lilian (254 x 1270 mm.) 3 Units.
- Taiwan (254 x 1270 mm.) 1 Unit.

EDM 1 Unit

- JS-EDM (850 X 500 mm.)





RUBBER COMPOUND

The company customizes compound according to customer's order. Having thrie own formula of rubber material and rubber chemical, TRT is able to produce more than thousands types of compounds at the best quality.

Material rubber be use able in process such as.

- Natural rubber (NR)
- Styrene-Butadiene rubber(SBR)
- Acrylonitride -Butadinene rubber(NBR)
- Butadeien rubber(BR)
- Butly rubber (IIR)
- Polychloropane rubber(CR)
- Ethylene-Propylenediene-monomer(EPDM) and other.

Can denerate Compound in order to several industry such as.

- automotive
- Electronic
- Sport
- Construct
- rubber slipper and other





Products

- Masterbatch (Compound A) have not mix with vulcanizing
- 2. Compound Rubber (Compound B) mix with vulcanizing
- Compound Rubber (Compound C) from Preformer machine
- 4. Silicone
- 5. Color Compound

















PRESS CUTTING MACHINE

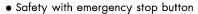
PRESS CUTTING MACHINE is machine for trimming Rubber part, Paper, Eva sponge, rubber foot or rubber part with adhesive tape



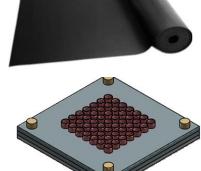


FEATURE

- The machine is designed to support and distribution pressure therefore the compression pressure are equal every point
- Two-sided of working space
- Semi-Auto Machine by up-down using auto mode, plate slide in-out using manual mode.
- Adjustable Speed and Pressure
- Safety sensor, Plate must be pulled out to the sensor before use the opposite side







TECHNICAL PARAMETER

TRT-PC-25

| Ì | Items | Unit | Spec. |
|---|-------------------------|--------------------|------------------|
| | TON | | 25 |
| | Maximum PRESSURE | KG/cm ² | 210 |
| | Plate Size | mm*mm | 400 * 400 |
| | STROKE OF PISTON | mm | 150 |
| | Maximum size of die cut | mm | 300 * 300 |
| | Power | HP | 5 HP * 4P |
| | Machine Size (L*W*H) | mm*mm*mm | 1220 * 990 * 850 |
| | Weight | kg | 1500 |



ULTRASONIC CLEANER MACHINE

เครื่องทำความสะอาด ระบบ อัลตร้าโซนิค

เนื่องจากการทำงานเป็นระยะเวลายาวนาน ทั้งร้อนและเย็น ส่งผลให้แม่พิมพ์เกิดสนิมและมีคราบ สกปรกจำนวนมากจากการผลิต ส่งผลกระทบต่อคุณภาพแม่พิมพ์ในกระบวนการผลิต ซึ่งส่งผลให้ คุณภาพผลิตภัณฑ์ออกมาไม่ดี ประสิทธิภาพในการผลิตลดลง









Model: TRT- UL-28

์ขั้นตอนการทำความสะอาด

- 1. ผสมน้ำยาที่ใช้ในการทำความสะอาด
- 2. ต้มน้ำยาให้เดือดที่อุณหภูมิที่กำหนด
- 3. ใส่แม่พิมพ์หรือซิ้นงานที่จะทำความสะอาด
- 4. จับเวลาที่ใช้ในการล้าง
- 5. ยกขึ้นทำความสะอาด และเป่าแห้ง

Specification

| Internal Tank Dimention (LxWxH) | 800 x 300 x 650 | | |
|-----------------------------------|------------------|--|--|
| Overall Dimention (LxWxH) | 1490 x 600 x 900 | | |
| Ultrasonic Output power (W) | 1500 x 2 | | |
| Ultrasonic Output Frequency (Khz) | 28 x 2 | | |
| Heating power (Kw) | 3.0 x 4 | | |
| Temperature Controller | Digital | | |
| Timer setting | Omron | | |
| Circulate System | 10" x 1 | | |
| Wheel Material | sus | | |
| Adjustable Footer | sus | | |
| | | | |





ประโยชน์ในการใช้งาน

ทำความสะอาดสนิมและคราบสกปรกที่ยึดเกาะบนผิวแม่พิมพ์ หรือซิ้นงานที่ทำความสะอาด



SPIN RUBBER DEFLASHING MACHINE



Technical parameter

Power 5.5 kw weight 290 kg
Dimension L*W*H = 1500*640*1300 mm
Capacity 35L or 3-5 kg
Work time 20-60 sec/time 24 hrs continually
Lifetime 4-6 years

Power 120W Weight 90 kg Diamension L*W*H = 1330*540*500 mm

TRT Deflashing Machine





Set of Machine

- 1. Deflasher
- 2. Separator

Work Principle

Use centrifugal force to get rid of unwanted rubber parts.

Thickness Requirement

Cut edge ≤ 0.3 mm

Suitable for good cutting line mold or removeable flash by hand

High quality deflashing of small to medium size rubber parts (Silicone, NBR, EPDM, VITON) such as O-Rings (Diameter 3-150 mm), Seals, Gaskets, Grommet etc.

Why Machine Deflashing?



Machine /5y*300 d = 8 USD/dayElectricity cost $\approx 8.57 USD/day$ Total cost /day = 16.57 USD/day



Man cost = $2 \text{ man } \times 3 \text{ shift } \times 11.4 \text{ USD/Day}$ = 68.4 USD /dayTotal cost /day = 68.4 USD /day

set

set

1



SPIN RUBBER DEFLASHING MACHINE

TRT-DF-05: Deflashing Machine Item Size **Picture** No Name Unit Qty 1 Φ 380 mm Working Bucket 1 set 2 Frame (Square Pipe) 60*60*3 mm 1 set 3 Top Cover Thk 1.5 mm set Slide Cover 1 4 Thk 1.5 mm 5 Cylinder set Bearing 6 set 2 3 phase 380V Motor 1 set 5.5 KW 8 Inverter 3 phase 380V 1 set 5.5 KW 9 PLC 1 set 10 Touch Screen 7 inch 1 set 11 PK Drive Belt 12 Machining Parts 1 set 13 Spinning Plate set 14 Magnetic Valve set 1 15 Pneumatic 3 set 16 Automatic Spray 1 set 17 Anti -Hand cut DC24V -Sensor set 18 Vacuum Cleaner 400W 1 set



22 Plug in 220V

On / Off switch

system

Alarm

Level meter

Foma Wheel

19

20

| Item | | TRT-DF-05 : Separator Machine | | | | | |
|---------|----|-------------------------------|------------|------|-----|--|--|
| Picture | No | Name | Size | Unit | Qty | | |
| | 1 | Frame | 40*40*3 mm | set | 1 | | |
| | 2 | Sheet Metal Parts | Thk 2.0 mm | set | 1 | | |
| | 3 | Bearing | | set | 12 | | |
| | 4 | Chain Wheel | | set | 1 | | |
| 2 | 5 | Drive Pole | | set | 1 | | |
| | 6 | Drive Axis | | set | 1 | | |
| | 7 | Speed Adjustment | | set | 1 | | |
| -4 | | Motor | | | | | |
| | 8 | Speed Adjuster | | set | 1 | | |
| | 9 | Machining Part | | set | 1 | | |
| | 10 | Screening Plate | | pcs | 14 | | |



RUBBER PREFORMER MACHINE

Precision Preformer is a type of rubber blank manufacturing equipment with high efficiency and high accuracy. It can process a wide range of all rubber material including silicone, Natural rubber, NBR and FKM compound etc. It can extrude rubber blanks of circular, rectangle, strip and odd shapes. It is especially suitable to produce sealing, oil seal, tire valves, bottle stoppers, tennis balls, shoe soles and friction lining, etc. It integrates a variety of different functions such as vacuuming, filtrating, extruding, cutting, weighing, counting, etc.



TECHNICAL PARAMETER

| | Unit | JYZ150 | JYZ200 | JYZ250 | JYZ200H | JYZ250H |
|-------------------------|-------|----------------|-----------------|-----------------|-----------------|----------------|
| Head option | mm | 150 | 200 | 250 | 200 | 250 |
| Total power | kW | 16.0 | 16.0 | 28.0 | 16.0 | 28.0 |
| Max. extruding pressure | MPa | 36.8 | 20.7 | 20.7 | 40.0 | 25.0 |
| Max. barrel temperature | °C | 95 | 95 | 95 | 95 | 95 |
| Max. die diameter | mm | 125 | 125 | 190 | 125 | 190 |
| Blank weight range | g | 0.3~100 | 0.3~200 | 0.3~2000 | 0.3~200 | 0.3~2000 |
| Blank weight accuracy | % | ±1.0 | ±1.0 | ±1.0 | ± 1.0 | ± 1.0 |
| Single load capacity | kg | 13~15 | 20~30 | 60~70 | 20~30 | 60~70 |
| Cutter speed | r/min | 35~300 | 35 ~ 300 | 23 ~ 300 | 35 ~ 300 | 23~300 |
| External dimension | mm | 4080×1220×1640 | 4080×1250×1640 | 5100×1250×1640 | 4700×1350×1850 | 5100×1250×1640 |
| Weight | kg | 2500 | 2500 | 3600 | 4600 | 5000 |



tandard RS232 Weigh Scale

SH

Product Features

- PLC control and touch screen operator interface, convenient to input data, password protection.
- Emergency standby keys on touchscreen for real button switches.
- Weigh scale close loop feedback system for adjusting cutter speed automatically to control blank weight.
- RS232 connection to weigh scale.
- 1000 products technics database available to connect.
- Graphic and text display for failure point and cause.
- Reliable safety performance.
- Interlocks designed for head closing, cutter rotating, and ram moving forward & retract.
- Extended center for easier cleaning.
- Reversing stainless steel conveyer to separate the incorrect weight blanks at initial phase.



RAM RUBBER STAINER MACHINE



Ram Rubber Strainer

ram Rubber Strainer

 $Ram\ Rubber\ Strainer\ can\ screen\ various\ rubber\ compounds\ include\ silicon,\quad NBR,NR,\ butyl,\ and\ fluorine\ compound\ .$

Compared to screw strainer, it will not have heat up & scorching in the whole screening process,

it can screen the rubber compound with accelerants. easy to operate, good safety performance, higher efficiency.

TECHNICAL PARAMETER

| Items | Unit | TRT-RS-150 (JYLZ150) | TRT-RS-200 (JYLZ200) | TRT-RS-250 (JYLZ250) | TRT-RS-200H (JYLZ200H) | TRT-RS-250H (JYLZ250H) |
|-------------------------|------|-------------------------|-------------------------|-------------------------|---------------------------|---------------------------|
| Barrel inner diameter | mm | 150 | 200 | 250 | 200 | 250 |
| Total power | kW | 14.0 | 14.0 | 18.0 | 18.0 | 18.0 |
| Max. extruding pressure | MPa | 36.8 | 20.7 | 20.7 | 40.0 | 25.0 |
| Max. barrel temperature | °C | 95 | 95 | 95 | 95 | 95 |
| Single load capacity | kg | 10~15 | 20~30 | 60~70 | 20~30 | 60~70 |
| External dimension | mm | 3100×1250×1640 | 3100×1250×1640 | 4200×1250×1640 | 3600×1250×1640 | 4200×1250×1640 |
| Weight | kg | 2200 | 2200 | 3300 | 3300 | 4300 |

Main Industries Served:

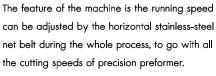
- 1. Automotive, Motorcycle Industry
- 2. Footwear Industry
- 3. Sporting and Leisure Goods Industry
- 4. Other General Rubber Goods



COOLING CONVEYER

Water cooling conveyor is a specifically designed auxiliary machine to avoid the sticking of hot rubber blanks that produced on a precision performer. After cooling down with cooling water or cooling solution and forcible cooling wind, the rubber blanks will not become deformed and more table.

TRT-WC-650 Water Cooling Conveyor





Product Features



Precision Preformer & Water Cooling Conveyer

TECHNICAL PARAMETER

TRT-WC-650 Water Cooling Conveyor

| Items | Unit | TRT-WC-650 |
|--------------------------------------------|-------|------------------|
| Sloping conveyor(stainless steel material) | | |
| Water tank dimension | mm | 2000×760×300 |
| Distance of blank conveying (in water) | mm | 1300 |
| Slope conveying width | mm | 450 |
| Slope conveying speed | m/min | 7.6 |
| Slope cooling air volume | m3/h | 3720 |
| Horizontal conveyor | | |
| Horizontal conveying width | mm | 450 |
| Horizontal conveying speed (adjustable) | m/min | 3.1 ~ 6.2 |
| Layers | | 3 |
| Horizontal cooling air volume | m3/h | 29040 |
| Total power | kW | 2.6 |
| External dimension | mm | 6100×750×1840 |
| Weight | kg | 1200 |
| | | |



COOLING & CUTTING CONVEYER



TRT-VC-1050 Vibra Cooling Conveyor

Product Features

Vibra Cooling Conveyor is a specifically designed auxiliary machine to avoid the sticking of hot rubber blanks that produced on a precision performer. It is space –saving, the part directly contact with rubber blanks is stainless steel to prevent contamination. Rubber blanks travel through vibratory way to prevent the stickiness and deformation effectively. It is with long cooling distance at 35 meter, the max. cooling distance up to 50 meter. The cooling process can be strengthened by air or spraying water. For small rubber blanks, can use the air cooling with cover; for the heavy weight and much hot rubber blanks, can use circulation water connected with external reservoir to spray water. Especially with prominent cooling effect for FKM, NBR, CR, EPDM, pelleting, bearing seals, oil seals and O-rings etc.

TECHNICAL PARAMETER

| Items | Unit | TRT-VC-1050 | |
|-----------------------------------|-------|----------------|--|
| Vibration groove diameter | mm | 1050 | |
| Vibration Groove width | mm | 24 5 | |
| Vibration groove height | mm | 1600 | |
| Material running distance | mm | 35000 | |
| Helical pitch | mm | 110 | |
| Width of inlet | mm | 650 | |
| Height of inlet (Off the ground) | mm | 300 | |
| Width of outlet | mm | 220 | |
| Height of outlet (Off the ground) | mm | 1650 | |
| Conveying Speed (adjustable) | m/min | 6 ~ 18 | |
| Power for vibration motors | kW | 0.75*2 | |
| Power for cooling fan | kW | 3.7 | |
| Power for water pump | | 0.37 | |
| Total power | kW | 5.6 | |
| External Dimension (LxWxH) | m | 2800×1400×2700 | |
| Weight | kg | 1200 | |
| · | - | | |

Optional:

- Air chiller: chilled air cooling
- surrounded by a cover



Precision Preformer & Vibra Cooling Conveyer

Length-fixing Cutting Conveyor

Product Features

Application:

Ancillary for ram rubber strainer, to cut silicone or lower hardness rubber strips with fixed length after screening through ram rubber strainer.

TECHNICAL PARAMETER

| Unit | TRT-FC-500 |
|-------|-----------------------------|
| mm | 500 |
| m/min | 5.5 ~ 11 |
| mm | 800~900 (Adjustable) |
| mm | 160 |
| mm | 160 |
| MPa | 0.5~0.8 |
| kW | 0.37 |
| mm | 2800*1000*1850 |
| kg | 300 |
| | mm m/min mm mm mm MPa kW mm |





COOLING CONVEYER



Clean-up & Auto-weighing Water Cooling Conveyer

Product Features

TRT-AWC-800 clean-up & auto-weighing water cooling conveyer is a specifically designed auxiliary machine to avoid the sticking of hot rubber blanks that produced on a precision performer, which used for cooling, conveying, drying, weighing and sorting rubber compounds into charging-basket. Rubber blanks cut by precision preformer can be sorted into charging-baskets after dipping into water, conveying, drying then delivered by cross belt conveyer. When the rubber compounds reach the set weight, the cross-belt conveyer will stop running, the basket-pushed device will change this full charging-basket with an empty one automatically, and cross belt conveyer will run again to fulfill the functions of auto-weighing, automatic basket-sorting and automatic basket-changing. Meanwhile, full charging basket will be delivered to roller conveying line, and then operating personnel can deal with it.

Water-dipping device facilitates to cool down the rubber blanks and to avoid polluted by kinds of rubber chippings mutually. There is a charging-basket for remaining compounds which is easy to take out and clean up. When there is no rubber compound

TECHNICAL PARAMETER

TRT-AWC-800 Clean-up & Auto-weighing Water Cooling Conveyer

on the cooling conveyer, it will stop after 5 minutes' automatic dry run.



Lifting Device



Automatic Weighing Device

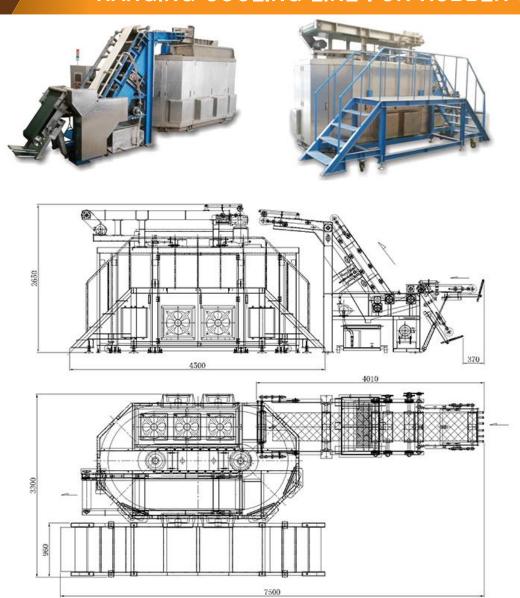
| Items | Unit | TRT-AWC-800 (LSS-Q-800) |
|-----------------------------------------|-------|-------------------------|
| Water-dipping conveying speed | m/min | 4-8 |
| Conveying length | mm | 1500 |
| Slope conveyor belt speed | m/min | 3-6 |
| Slope cooling air volume | m3/h | 3720 |
| Horizontal conveyor | | |
| Horizontal conveying width | mm | 450 |
| Horizontal conveying speed (adjustable) | m/min | 3.1~6.2 |
| Layers | | 3 |
| Horizontal cooling air volume | m3/h | 29040 |
| Total power | kW | 2.6 |
| External dimension | mm | 6100×750×1840 |
| Weight | kg | 1200 |

- 1. Water-dipping conveying net belt speed: 4-8 m/min Conveying length : 1500mm
- 2. Slope conveying net belt speed: 3-6m/min (infinite speed regulation) Conveying length: 3000mm
- 3. Horizontal conveying net belt speed: 1.5-3m/min (infinite speed regulation) Conveying length: 4000mm
- 4. &=1.5mm stainless steel net belt, belt width: 300mm
- Weight range for rubber compounds in charging-basket:10~20kgs/basket(adjustable) customized accordingly if outside this range
- 6. Overall dimension (L*W*H) 9000*2400*2100mm
- 7. Weight: 2000kgs
- 8. Select matching charging-basket dimension:Charging-basket base L*W: (500-600)*(400-460)mm Charging-basket Height:150-170mm

Automatic basket-changing device will be customized as per charging-basket external dimension.



HANGING COOLING LINE FOR RUBBER SHEET



Application:

Ancillary for ram rubber strainer, to cut silicone or lower hardness rubber strips with fixed length after screening through ram rubber strainer.

TECHNICAL PARAMETER

| Item | Unit | LPX450 |
|---------------------------------------|-------|----------------|
| Applicable rubber sheet specification | mm | <=450 |
| Receiving conveyor belt speed | m/min | 15~46 |
| Number of hanging rods | рс | 28 |
| Max. hanging height for rubber sheet | mm | 1500 |
| Cooling wind fan power | kW | 0.37kW×10 |
| Max. power (3 phase) | kW | 10 |
| Soaking conveyor motor power | kW | 2.2 |
| Soaking water pump power | kW | 0.75 |
| Mixing motor power | kW | 0.4 |
| Hanging motor power | kW | 2.2 |
| External dimension (L×W×H) | mm | 7500×3300×2650 |
| Total weight | kg | 3500 |
| | | |

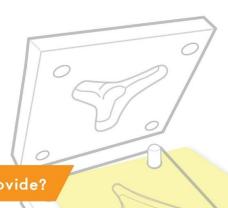
What is MOKLEAN

MOKLEAN is rubber-mold cleaning compound, developed by a Thai chemical expert team . MOKLEAN has been created to provide value-added benefits to the rubber industry.

For more than 20 year, our R&D team, developing thousands of rubber fomulas, has had experiences with tens of raw-material rubbers and been challenged by countless mold-related problems. Now, collaborating with professors and rubber specialists from government sector , we have successfully invented the lastest mold cleaning innovation MOKLEAN

we have successfully invented the latest mold cleaning innovation, MoKlean.





What benefits does MOKLEAN provide?

Besides the increase in effectivess and ease of use, the total cost of mold cleaning with MoKlean is found to be less than with other mold cleaning methods.

Flawless molds that have been cleansed with MoKlean can greatly reduce defects, thus significantly boosting productivity.

Productivity Boost Cost reduction

Cleaner

When fluidized by heat, MoKlean's exceptional flow properties allow it to penetrate all angles and crevices of even the most complex mold, completely extracting and removing all unwanted chemical stains from the mold surface.

Though offering powerful cleaning performance, MoKlean is very gentle to the mold surface. The chemicals in MoKlean have been carefully selected to minimize mold attrition and maximize the lifespan of the tooling.

Long Mold Lifespan



Faster

MoKlean was developed to provide industry with a new cleaning method combining convenient use with less time consumption.

Produced from high-quality raw materials, MoKlean is harmless to both humans and the environment.

Safer

Easier

MoKlean cuts out all time-consuming cleaning processes, such as removing tooling fom the machine, hand-polishing and reheating the mold after cleaning.

Using MoKlean is as easy as the regular molding process. Simply place MoKlean onto the mold and then set the temperature and time. In a few minutes, the mold will be completely cleansed, just like new!









How to Use MOKLEAN

Instruction on MoKlean: MC002 usage.

1. set up the time in relation to the recommended temperature.

| TEMP (°C) | TIME (Min) | | |
|-----------|------------|--|--|
| 160 | 6 | | |
| 165 | 4.5 | | |
| 170 | 3 | | |
| 180 | 1.5 | | |

2. Prepare the MOKLEAN by weight as following.

MOKLEAN weight =
$$\frac{\text{existing compound weight } \times 1.07}{\text{existing compound SG}}$$

- 3. Properly place the MOKLEAN on the mold.
- 4. Follow the normal molding process.



What advantages does MoKlean offer?

Comparsion of Mold Cleaning Methods after One Time Cleaning.

| Item | Mold Cleaning Method | | | | | |
|-----------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------|--|--|
| 116111 | Hand Polish | Chemical Wash | Sand Blasting | MoKlean : MC 002 | | |
| Cleaning result | Unable to get rid of all dirt in the corners of the tooling | Good result, but requires additional hand polish | The tooling is still dirty, especially in the corners of the tooling | Surface and corners of the tooling are completely cleansed | | |
| Cleaning time | 5 hours | 13 hours | 4 hours | 20 minutes - 1 hours | | |
| Machine utilization loss per day | 20.10 % | 53.50 % | 16 % | 4.2 % (lowest) | | |
| Effects on health | None | Eye and skin allergy from concentrated acid and alkali | None | None | | |
| Tooling Life Loss | 1 % | 1% | 5 % | 0 - 0.5 % | | |
| Necessary skills and knowledge | Chemical usage Tooling and iron material Chemical properties of rubber | Chemical usage Tooling and iron material | Tooling and iron material | None | | |
| * Proportion of expenses per time | 100 % | 287.8 % | 392.7 % | 152.6 % | | |

^{*} In addition to operating cost, there will be a business opportunity cost which is of high value, but difficult to estimate.

Not for use with CR rubber and acid compounds





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