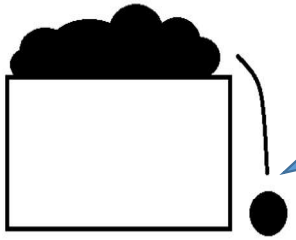
12-1～12-3

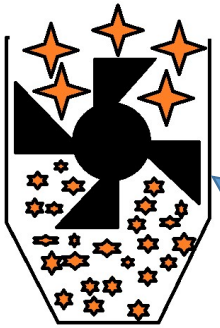
<TANK>

PLOBLEM

Staff might forget to collect the crush material.



Pick up
= Waste of time



Crusher tank is full of material.
→Motor, bearing, blade is broken.

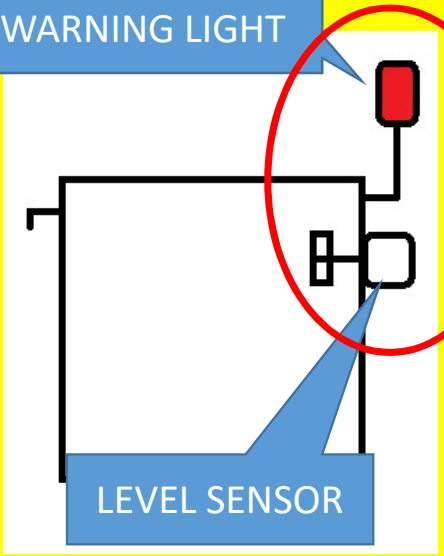
Fix time = Waste of time and money

RISK

- Don’t know the amount of material.
- The blade may be broken.

SOLUTION

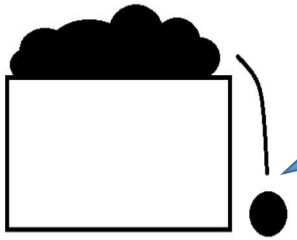
WARNING LIGHT



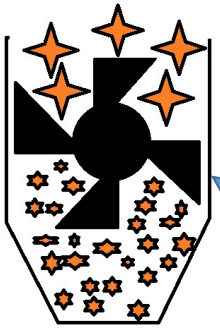
The device inform staff of the condition of tank.
→You can save the time and money.

12-1

<TANK>



Pick up
= Waste of time



Crusher tank is full of material.
→Motor, bearing, blade is broken.

Fix time = Waste of time and money

PLOBLEM

There is not
Suction Port.

RISK

If someone forget to collect crushed material,
the blade may be broken.

SOLUTION

・To use receiving box
with suction port and Loader
(You can collect them automatically.)

＜Powder of Crushed Material＞

PROBLEM

There is a lot of powder around crusher.

SOLUTION

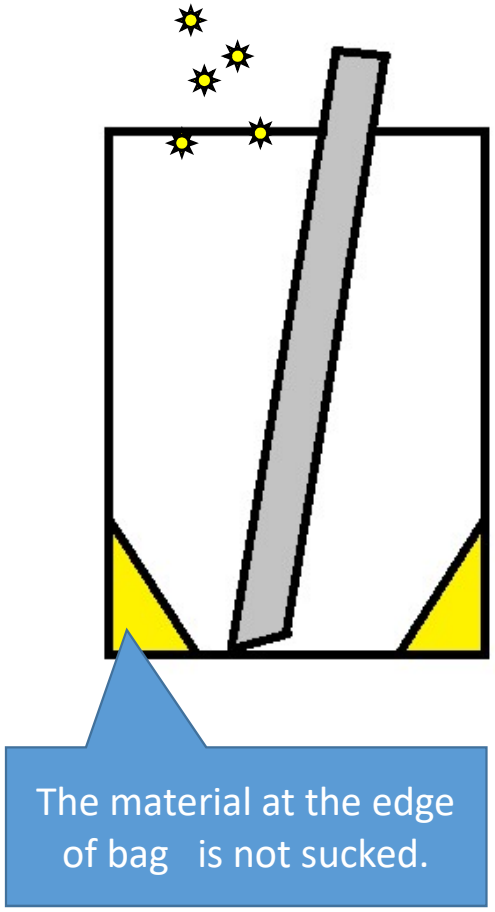
・If material go into Injection Molding Machine,
Material may stay in Products.
(Because it's difficult powder melt.)
・You need to clean around crusher.(Waste of time)

SOLUTION

We recommend you to use Slow Rotary Crusher.
It makes few powder.

13-1～13-3

＜Sucking from Bag＞



PROBLEM

Suction nozzle is directly inserted into this bag.

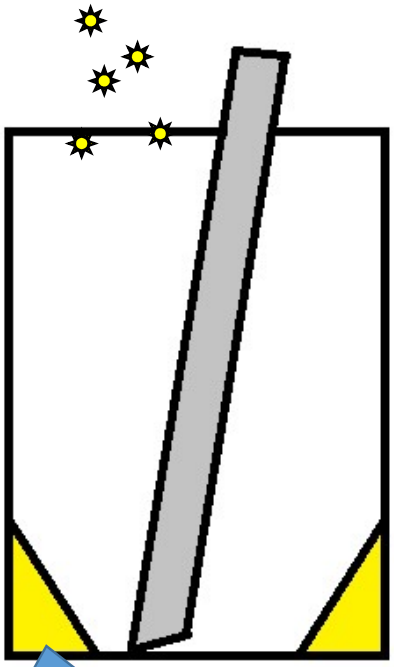
RISK

- The material remains at the edge of bag.
- Dust can go into the bag.

SOLUTION

We advise that you change to a material tank.

＜SUCKING FROM BUCKET＞



The material at the edge of bucket　is not sucked.

PROBLEM

Suction nozzle is directly inserted into this bucket.

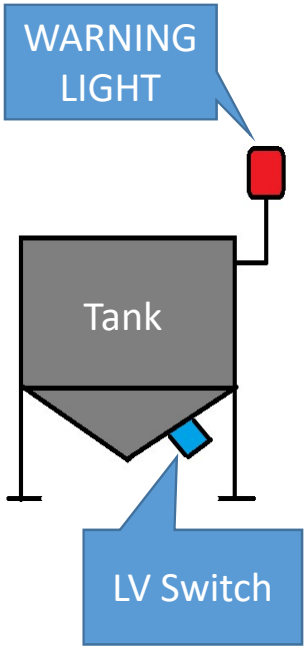
RISK

- The material remains at the edge of bucket.
- Dust can go into the bucket.

SOLUTION

We advise that you change to a material tank.

＜Material Tank＞



PROBLEM

Loader continue to run even though there is not material in the material tank.

RISK

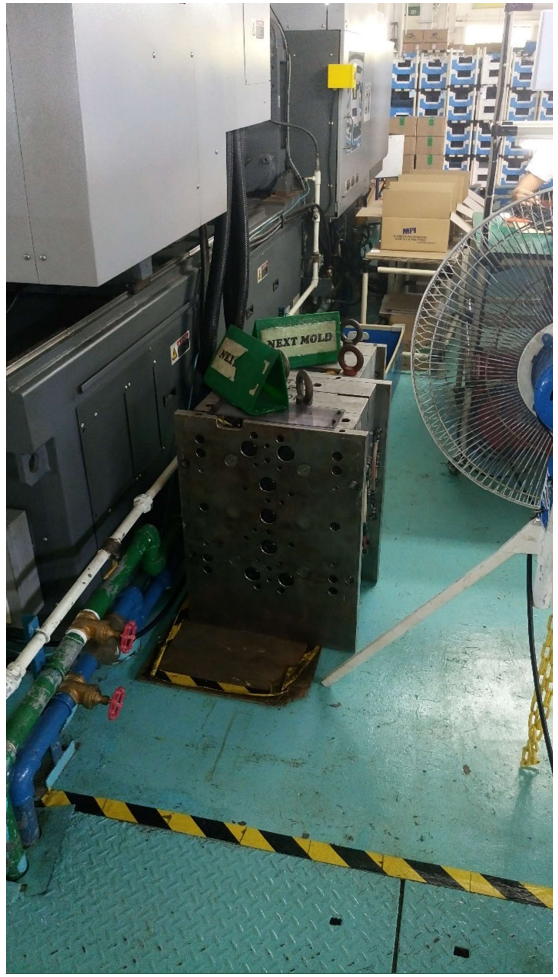
If you cannot supply material
→Production may stop.

SOLUTION

To use Warning Light and Level Switch
→It's easy you find whether there is material in the tank.

14-1～14-3

<Waiting Mold>



PROBLEM

The mold you will use is put along injection molding machine.

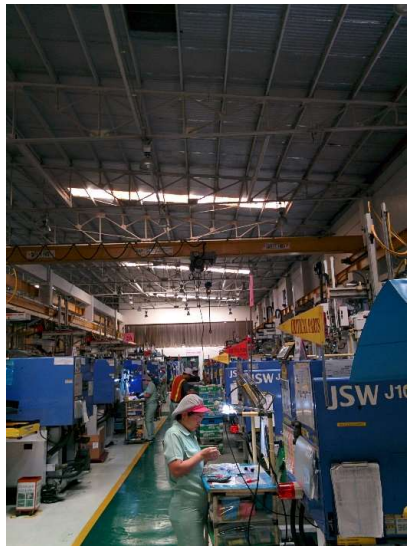
RISK

Preparation time may become long unless you do preliminary temp. control.

SOLUTION

We recommend you to do preliminary temp. control.

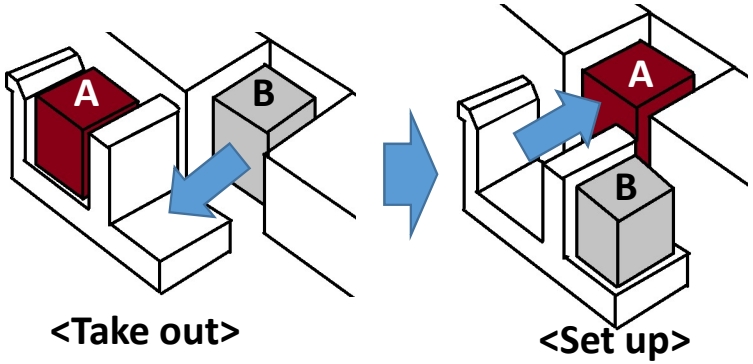
＜Changing Mold＞



<Process of Changing Mold>
1. Mold(A) is mounted moving car.
2.Mold (B) is took out from IMM.
3.Mold(A) is mounted IMM.
4.Mold(B) is took out from moving car

You use crane at many time.

<Mold Exchanger>



<Take out>　　<Set up>

PROBLEM

You use crane at many time when you change mold

RISK

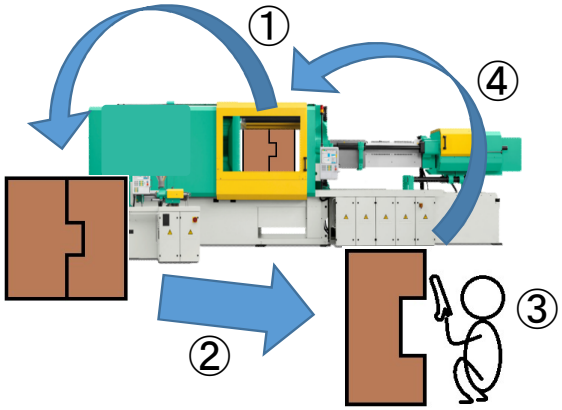
It takes so long time. (Waste of Time)

SOLUTION

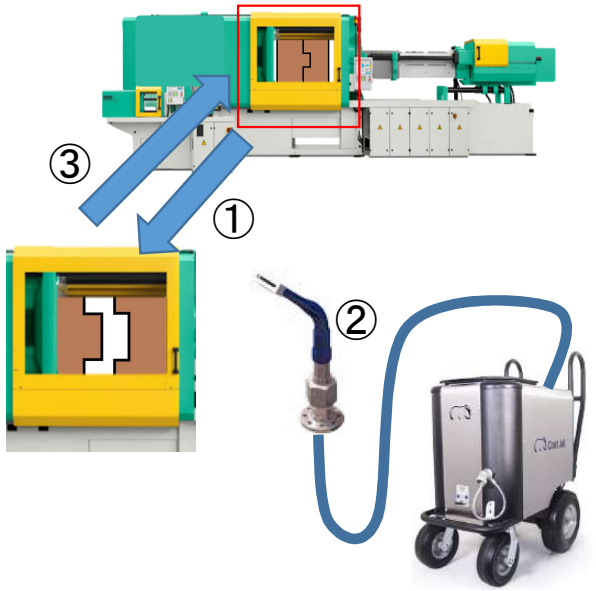
We recommend you to use “Mold Exchanger”

＜Cleaning Mold＞

<Nomal>



<Cold Jet>



PROBLEM

You need take mold out every time to clean.

RISK

You lost a long production time.

SOLUTION

If you use “Cold Jet”, you don’t need to take out.
→You get a long production time.

15-1～15-4

＜Mixing Material＞

Too much

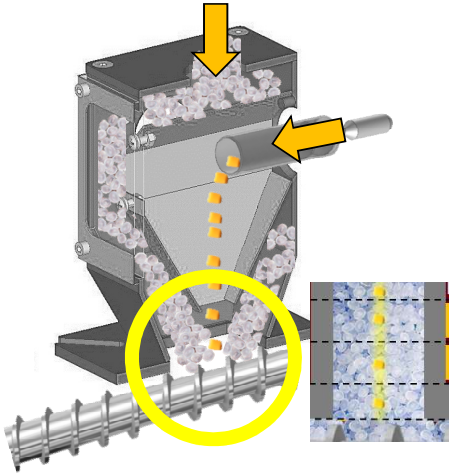
Non-uniform

Cruch Material

Natural Material

MB

<JCLW>



PROBLEM

・Some mixed material is non-uniform.
・MB ratio is too much.

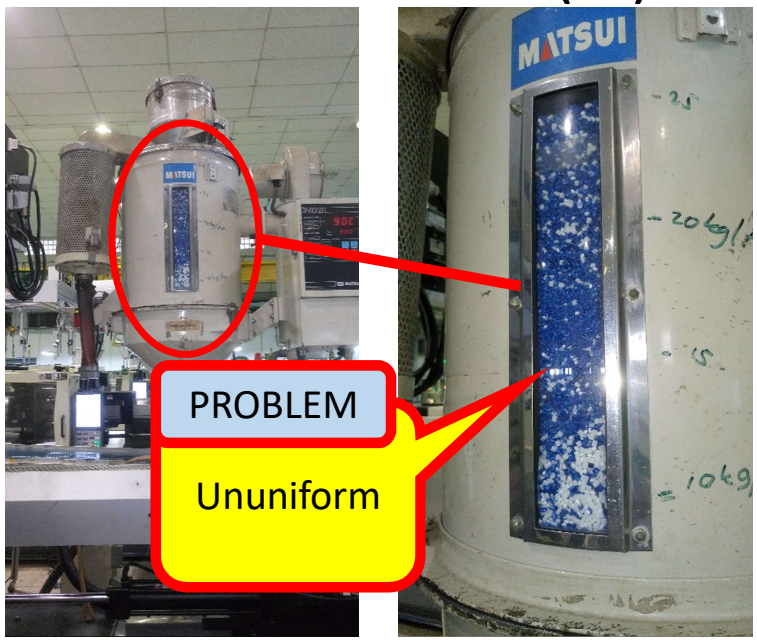
RISK

Too Many MB → Cost becomes expensive.
Too less MB → The color of the item is non-uniform

SOLUTION

We recommend you to use another Blender.

<DENSITY(1)>



PROBLEM

Ununiform

- Virgin
- Crush
- MB

are mixing

RISK

Not uniform

Light color item → You cannot sell it.

You use more MB than necessary

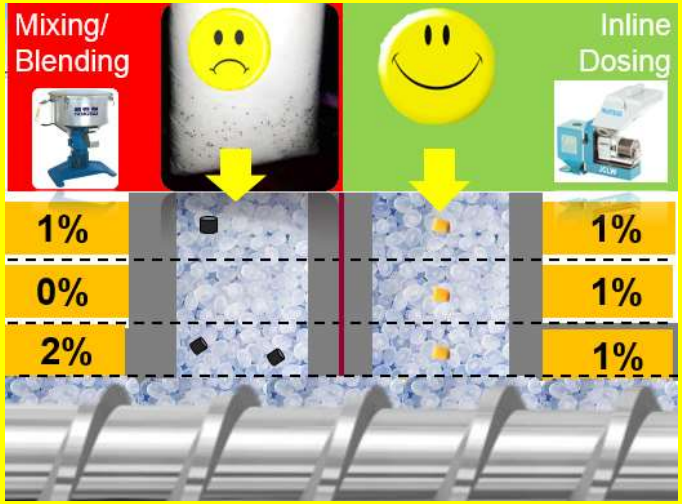
EXPENSIVE

- You might use too many MB. →The cost is expensive.
- If the item's color is light, you might need to remove and crush it.
  →Waste of time

<DENSITY(2)>

SOLUTION

EXPENSIVE → You have to reduce the volume of MB.



<Image of installation>

If you install JCLW,

- You may save MB, therefore you may save money.
- You don't need a tumbler (Available space will expand.)

＜Using Tumbler（1）＞

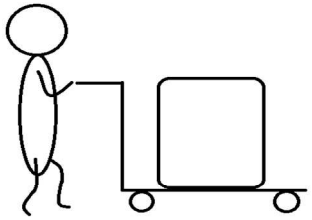
PROBLEM

You use a Tumbler.

RISK

・Mixed Material may separate while delivering to Injection Molding Machine. (Products may become bad.)

Long Process



Vibration→Separation

Vibration→Separation

＜Using Tumbler(2)＞

SOLUTION

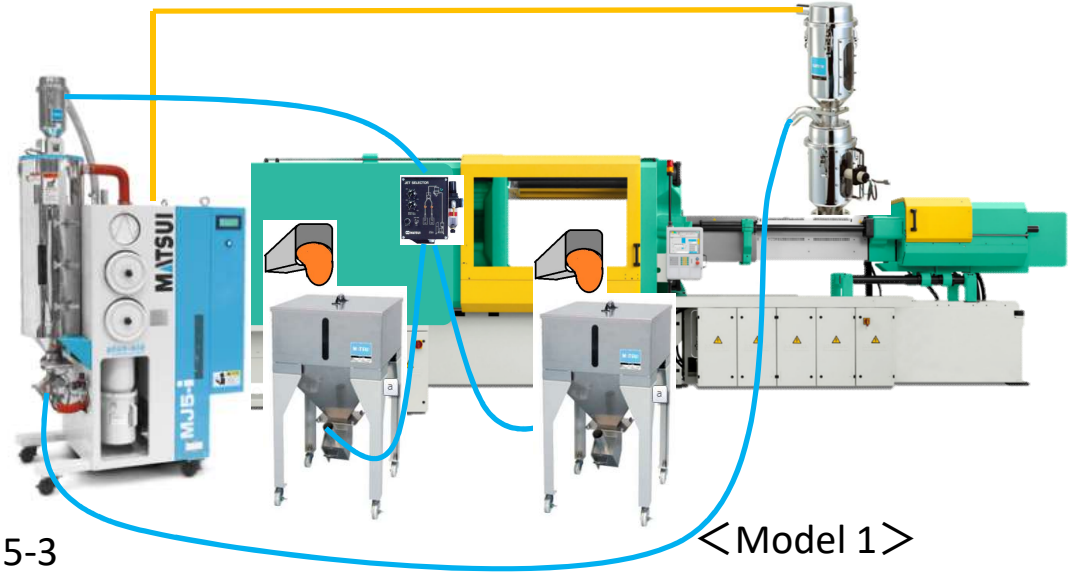
・We recommend to use JSV and JCLW
→No need delivery
→You may reduce the risk mixing material separate.
(You may replace Tumbler with Injection Molding Machine.)

＜JSV＞

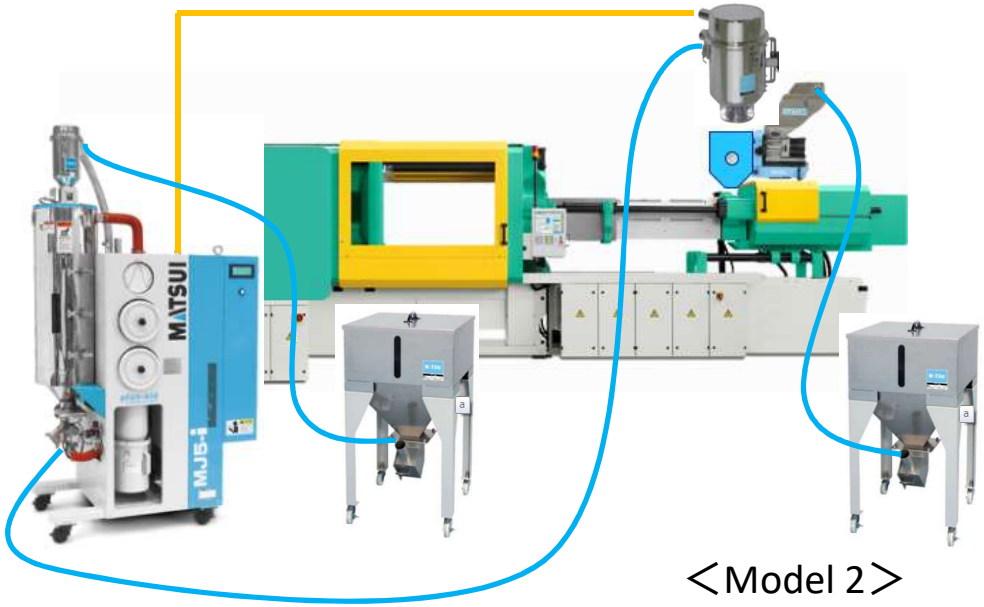
Setting on dryer

＜JCLW＞

Setting on Injection Molding Machine



＜Model 1＞



＜Model 2＞

＜Mixing Process（1）＞

Material stays in

Uniformity？

PROBLEM

Process after mixing is long.

RISK

Mixing material may separate.
(You may make a bad products.)

＜Mixing Process（2）＞

SOLUTION

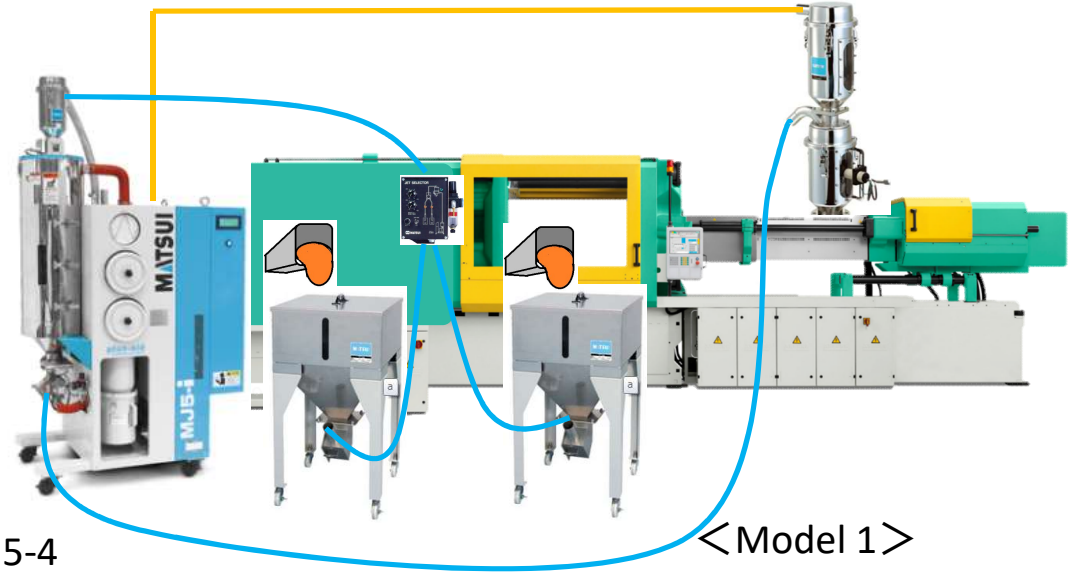
・We recommend to use JSV and JCLW
→No need delivery
→You may reduce the risk mixing material separate.
(You may replace Tumbler with Injection Molding Machine.)

＜JSV＞

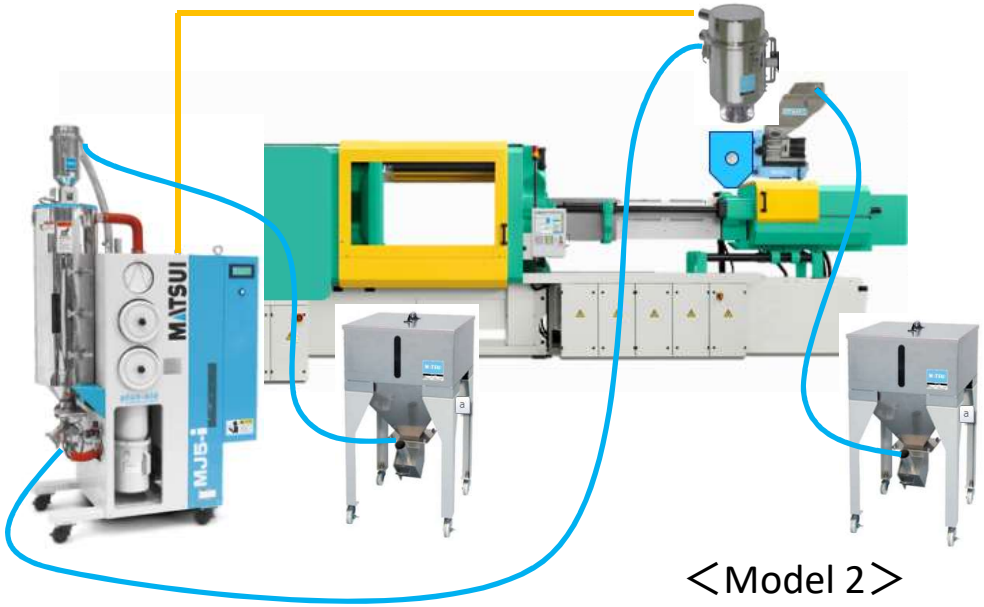
Setting on dryer

＜JCLW＞

Setting on Injection Molding Machine



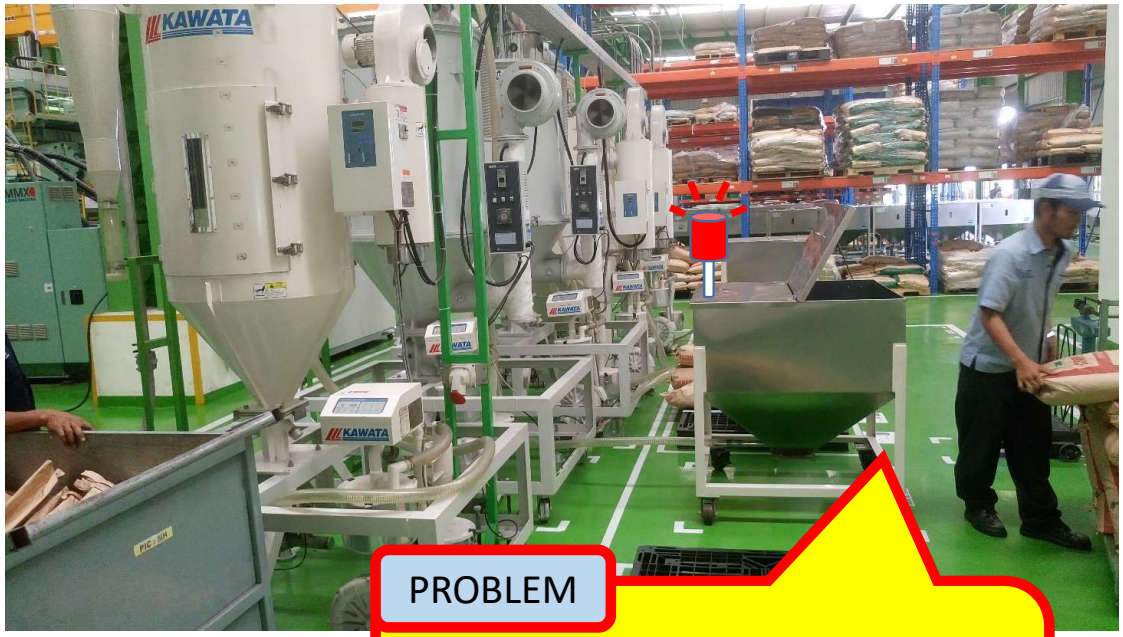
＜Model 1＞



＜Model 2＞

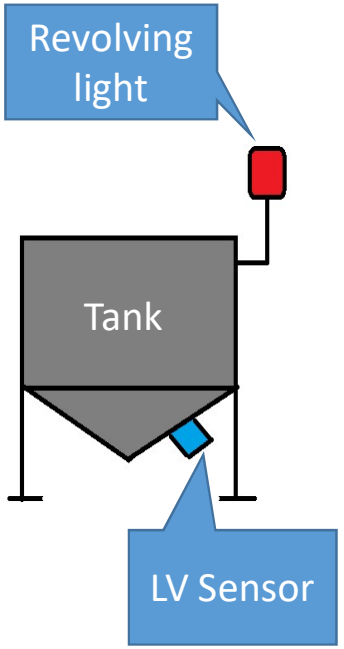
16-1

＜MATERIAL TANK＞



PROBLEM

You have to open the lid to check the volume of material.



RISK

If there is not material in the tank, Your production will stop.

SOLUTION

We recommend you to attach a LV sensor and Revolving light with TANK.

17-1

<Cooling Tower>

Eco dry

PROBLEM

Using Cooling Tower

RISK

It’s easy water becomes dirty
→Pipe stuck frequency.
→You need a many maintenance time.
→Running cost is expensive

SOLUTION

If you use “Eco dry"
→Water is always clean.
→ Running cost is cheep
→ No need Maintenance