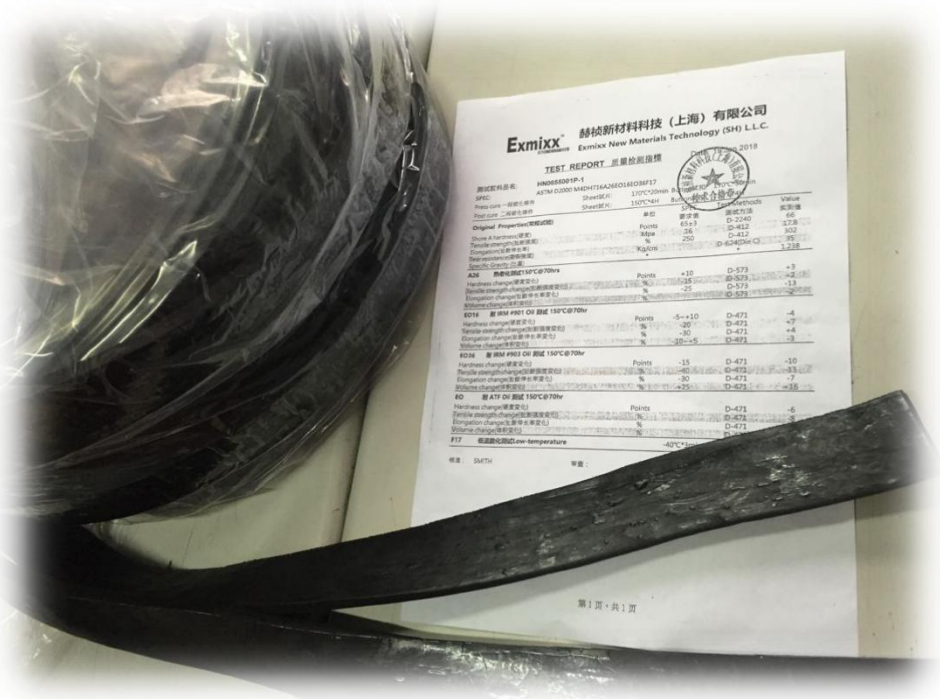
Injection Moulding Introduction
&
Comparing with Compression moulding

Vertical Injection Machine

All of the material physical properties remain the same.
The only difference is the material shape.

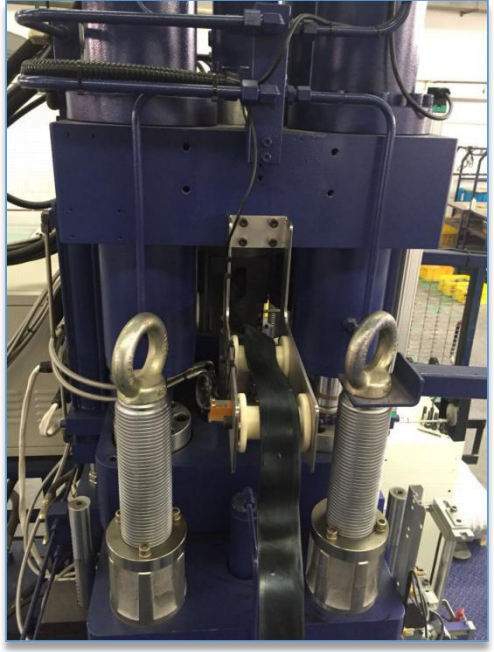
Compression

Injection



Notes: We use the cold runner injection machine to produce. The usage rate of the material is 90%.

Material Input



Video

Injection material input:

1. The roller of the material put into the steel stool.

2. The material is rolled into the injection machine automatically without cutting.

3. The video on the right shows how the injection material input.

cutting to stripes

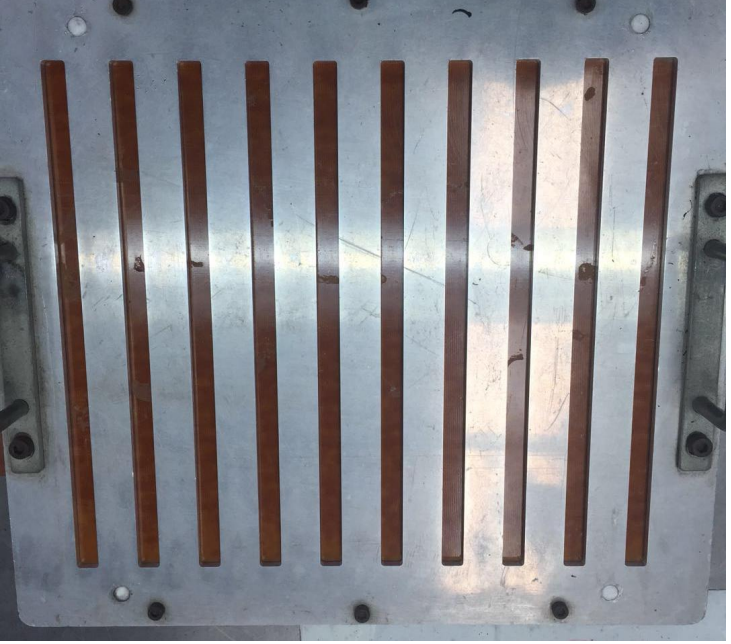
Video

Compression material input step one ：

1. Putting the material into the cutting machine.

2. The second picture is the stripes after cutting.

3. The video on the right is displaying this process.



Loading
the stripes

Video

Compression material input step two:

1. The material loading fixture

2. Putting the stripes into the fixture

3. The video on the right shows how to load the stripes into the fixture

Material preparation analysis: Compression &Injection

1. For compression process, the material is controlled by the worker.

a. In the process of cutting, the stripe dimension can be affected by the worker.

b. When the worker arrange the stripe, even if there is a fixture, it can be uneven.
This process can be influenced by the human effects.

2. For injection process, the material is rationing and very accurate.

a. There is no inflence by the worker.

b. One kilogram is exactly one kilogram. Accuracy.

In summary：
Compression material preparation is gravely lacking in quantitative accuracy.
Changing to injection process, it will reduce the mistake or defect which is caused by human effects drastically.

Moulding

Injection Moulding

In preparation
Video 01

Start moulding
Video 02

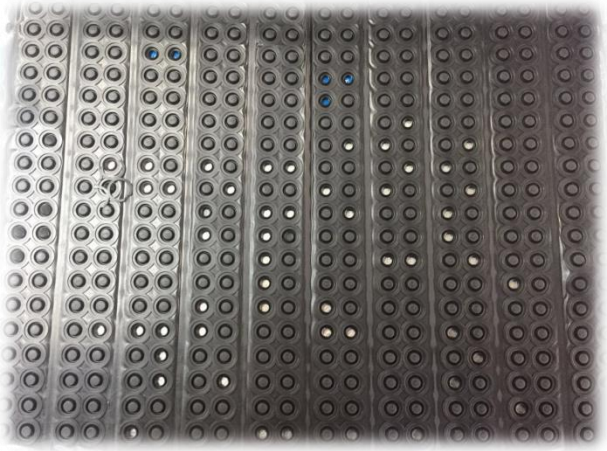
Demoulding
Video 03

Compression Moulding

Start moulding
video 01

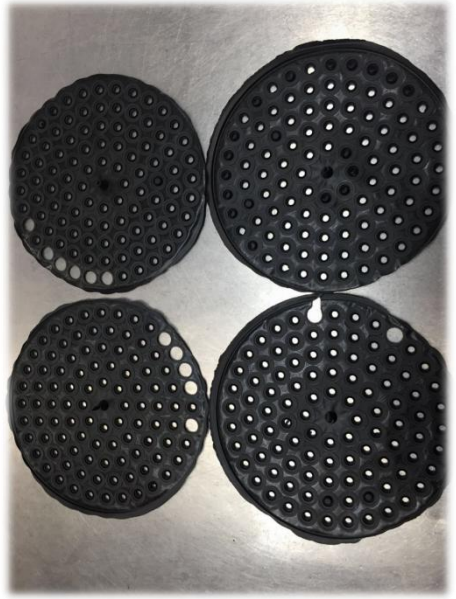
Demoulding
video 02

Finished Products



Compression
Products

Injection
Products



Products Analysis: Compression&Injection

1. For compression moulding, there is higher rejected rate than injection moulding.

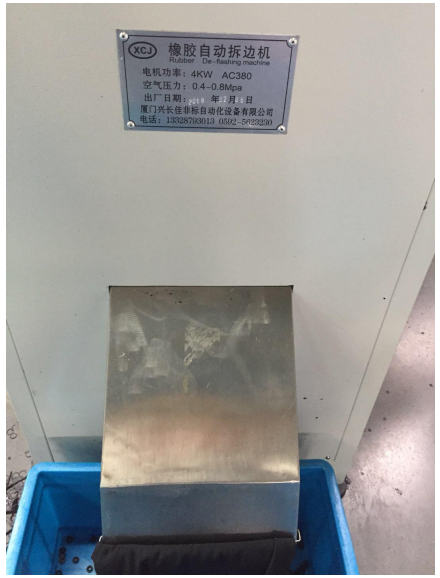
2. For the injection moulding, the quality is better and more stable than the compression moulding.

Deflashing

Deflashing Process:

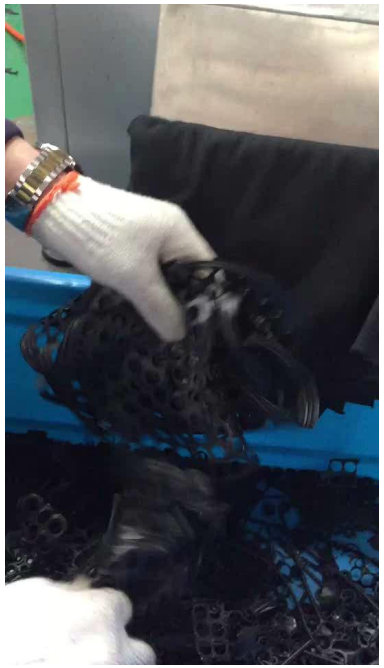
1. Video 01 shows the process of putting the products into the deflashing machine. (the products are only for presentation, we can put more products inside)

2.Video 02 shows the result after first time deflashing.
We will deflash twice.



Video 01

Video 02



Deflashing machine and the console

Trimming

Sifting Process:

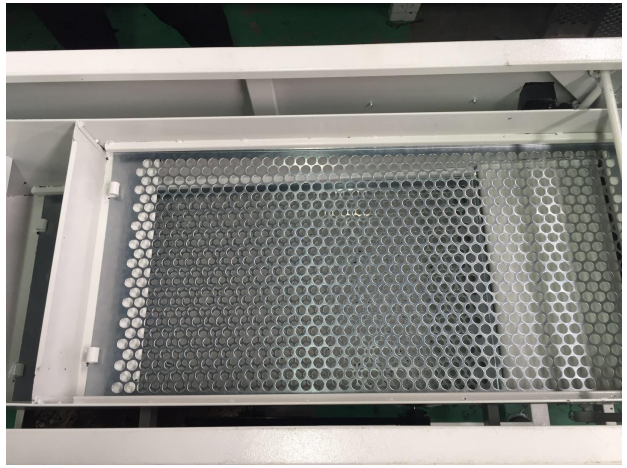
Video 01

1.Putting the products which are after deflashing into the sifting machine.

Video 02

2.Second time sifting

3. The final results after twice sifting



Sifting Machine

Inspection

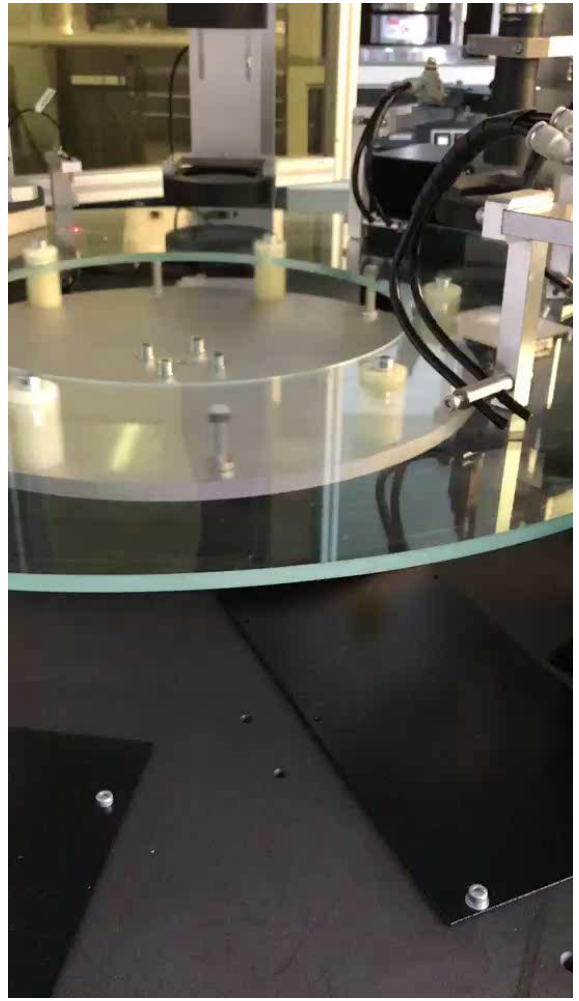
Full Automatic Inspection Machine

Inspecting the products by the full automatic inspection machine;

The machine has very high sensibility and high accuracy.

FYI, we combine manual inspection with the machine inspection.

Video



Thank you !