Did you know???

人と技術のコミュニケーション NISHIBE

- Japan is known to be a country where most cosmetics/toiletries products in bottles also come in flexible pouches for re-fill.

- Japanese converters are using Nishibe pouch making machines to produce re-fill pouches. About **<u>90%</u>** of re-fill pouches in Japan are made with Nishibe machines.

Typical shelf appearance in a supermarket

Did you know???

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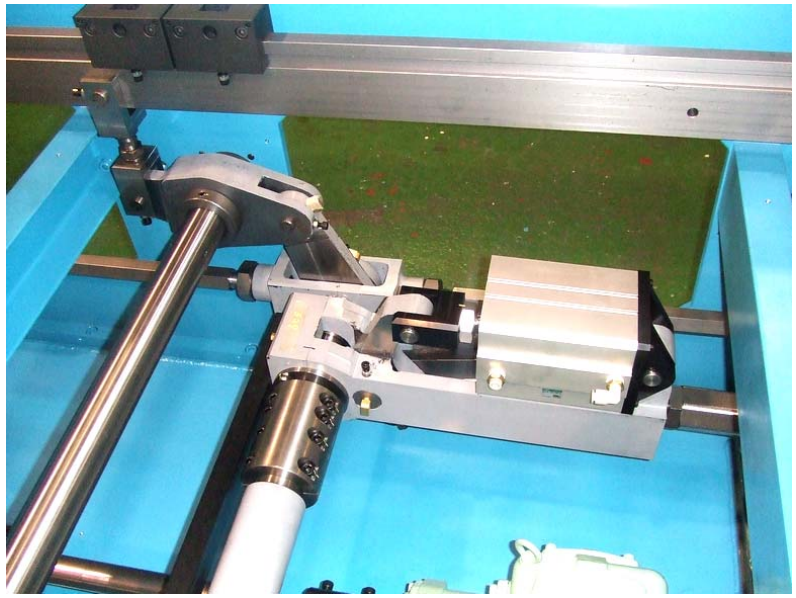
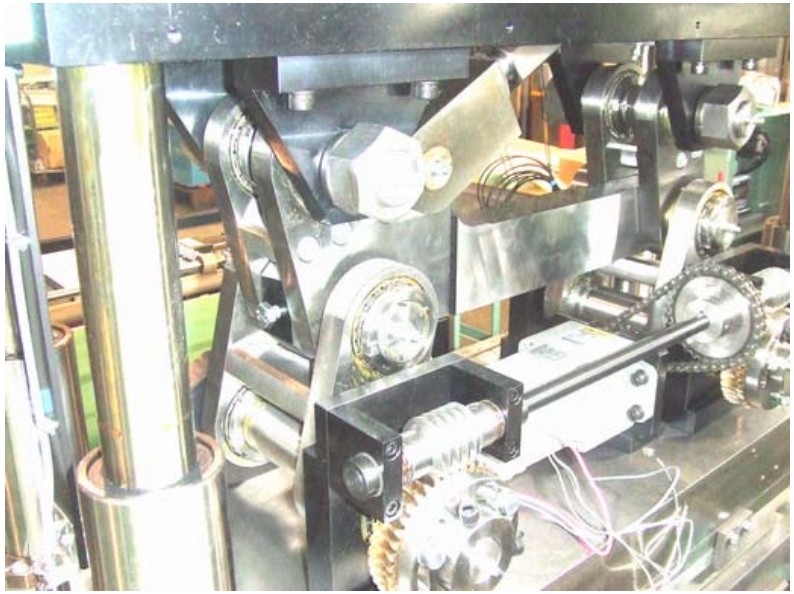
- The current mechanical design of Nishibe pouch making machines is based on stringent process requirements to produce defect-free liquid re-fill pouches.



SA drive transmission mechanism for re-fill application



Thomson mechanism

What makes the difference?

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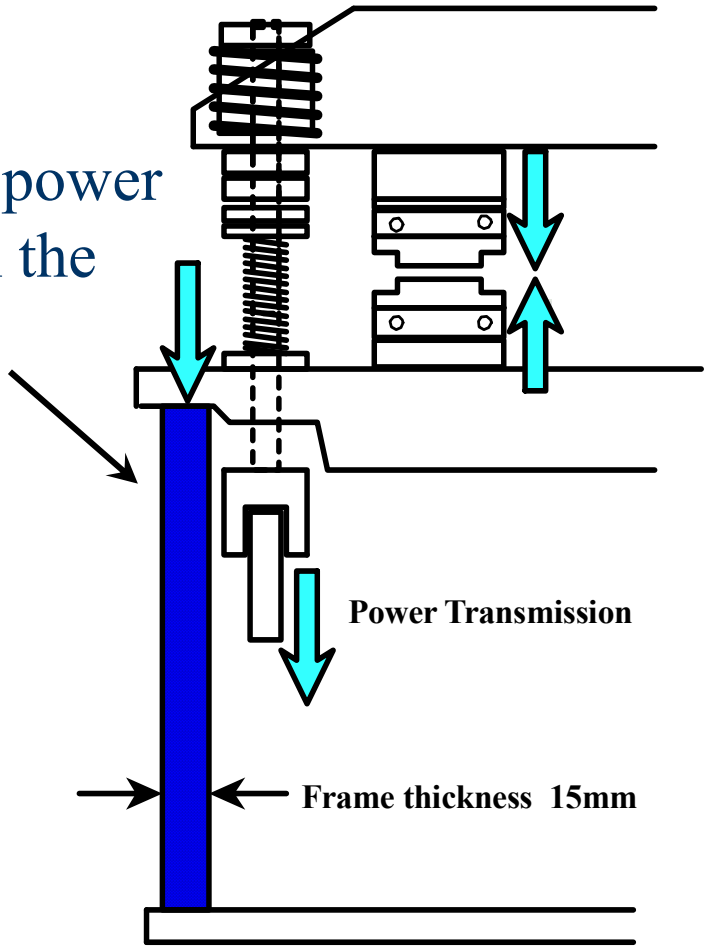
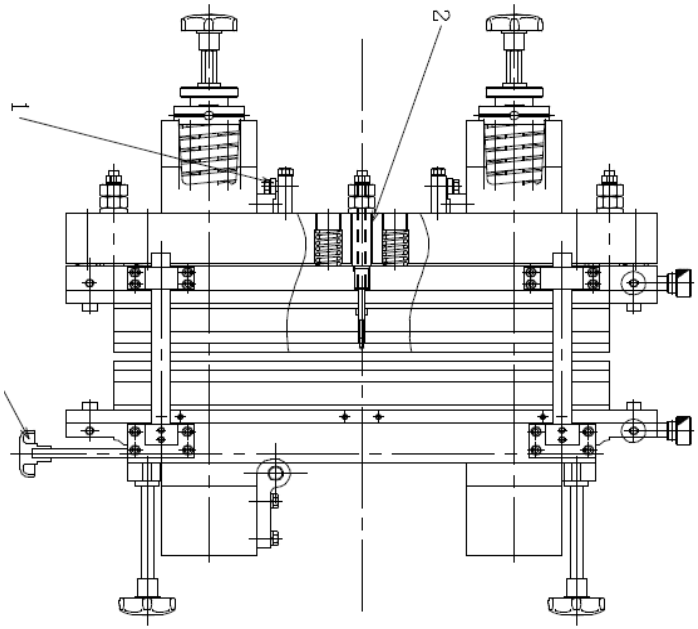
All the sealing power rests on the frames.





Longitudinal sealin unit

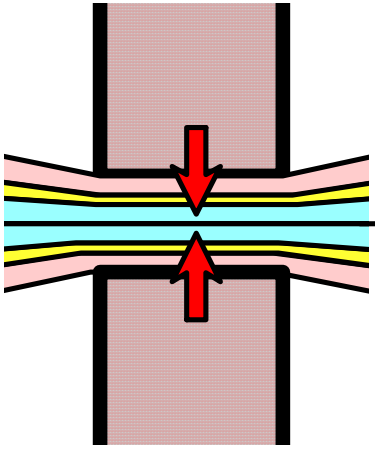
In Nishibe machine concept, no flexture of the structural components is allowed.

penetration of energy

人と技術のコミュニケーション NISHIBE

Stand-up pouch bottom area is the most critical of the seals especially for liquid re-fill application, for which the sealant layer is very thick.

Upper seal bar



Upper film

Lower film

Lower seal bar

<u>Nishibe features;</u>

Sturdy design, cast-iron seal bars, high quality parts ↓

Retention of high sealing pressure and precise pressure distribution ↓

Efficient engergy transmission ↓

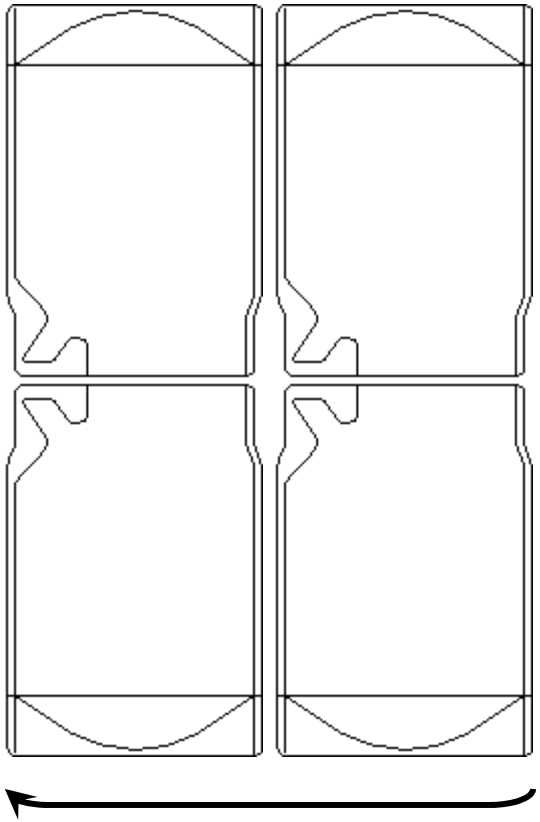
Fast, Safe, and Stable production

Double step possibility

人と技術のコミュニケーション NISHIBE

QUESTION

Is it possible to increase the output without risking the sealing time?



4 pouches / cycle

SOLUTION

Why not consider
DOUBLE STEP??

Legendary! 4 pouches each cycle

Speed 100 cycles / min.
= Output 400 ppm

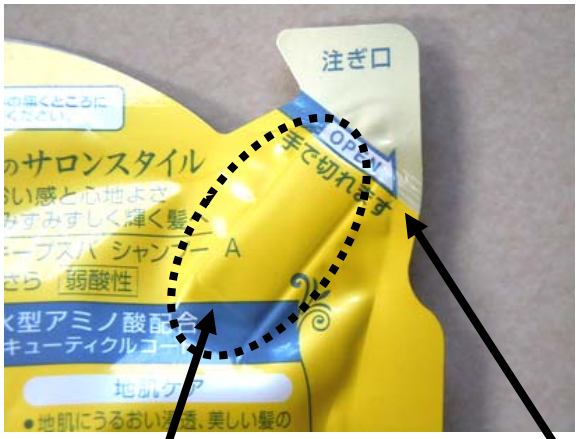
(with Thomson, 80 cycles /min.)

※ double step can be applied only for relatively small pouches.

3D forming possibility

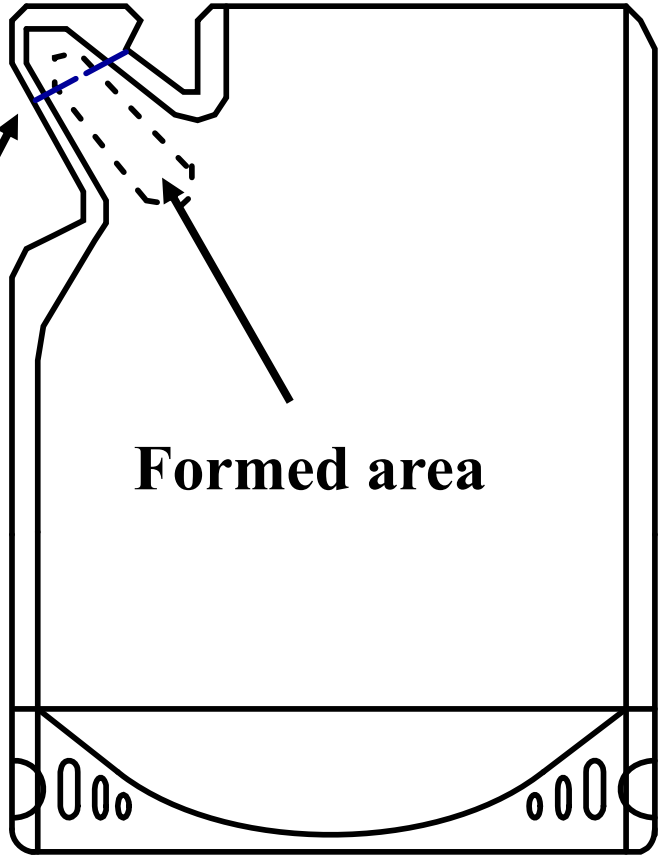
人と技術のコミュニケーション NISHIBE

The nozzle area can be formed for better flow of liquid. (a value of consumer convenienc)



Formed area

Laser half-cut open without scissors



Remark : 3D forming requires a suitable laminate.

How is that possible??

人と技術のコミュニケーション NISHIBE

In a nut shell….

- **Feature #1**

  Sturdy structure → Sealing power retension

- **Featrure #2**

  High quality mechanical parts → long stable production at a high speed

- **Feature #3**

  Professional choice of contact parts materials → minimise thermal bending effect → homogenous heat and pressure distribution
  → leak-free production