



Automatic tablet inspection machine  
**TIE-9000 series**



**Ikegami**

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Automatic tablet inspection machine  
TIE-9000 series

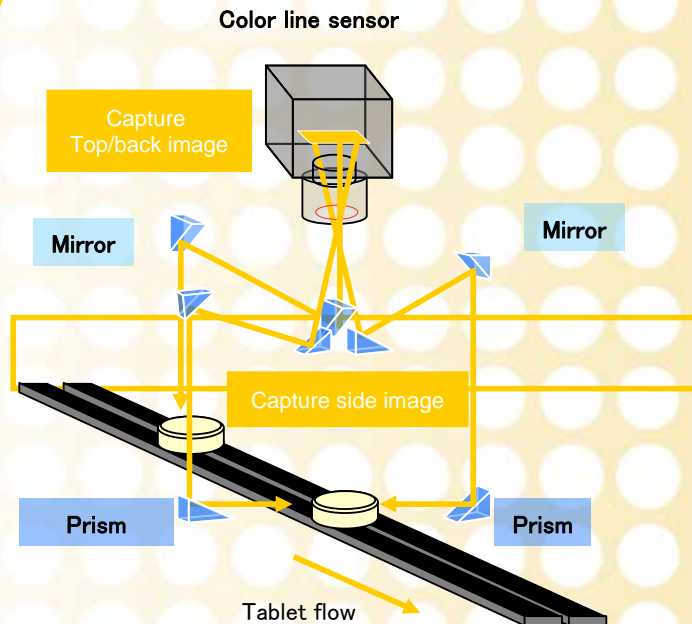
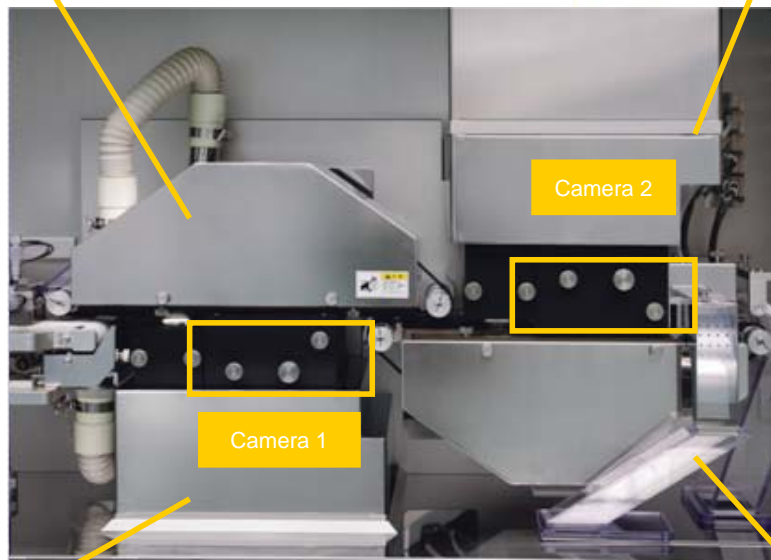
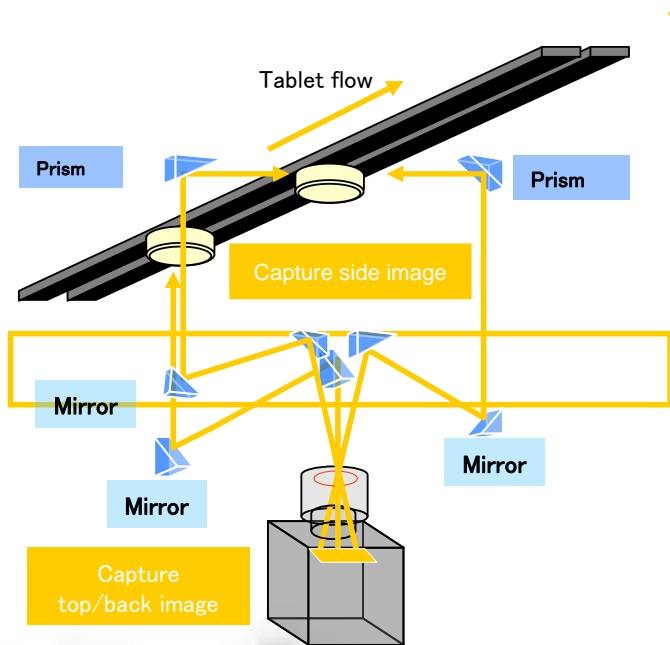


- ▶ New optical system A.I.I Patent pending
- ▶ High quality color line sensor
- ▶ Additional camera/lighting for split line/emboss/chipping inspection
- ▶ High luminance and long life LED
- ▶ Horizontal transfer for stable handling
- ▶ Highest output : 500,000 to 600,000 tablets/h (TIE-9500 model)
- ▶ Compact design
- ▶ Easy changeover & cleaning
- ▶ Touch screen operation



# High accuracy for top/back/side inspection

- Unique technique for individual capturing system for top/back and side inspection
- Entire surface inspection without dead angle



Color line sensor



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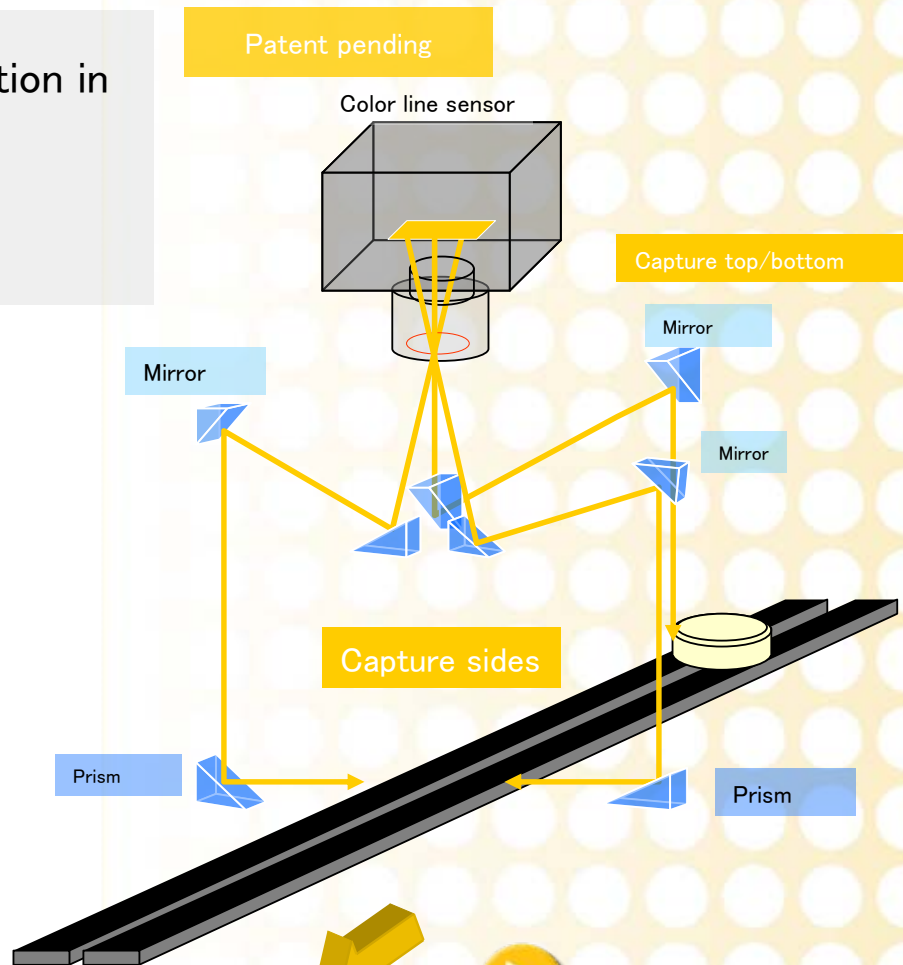
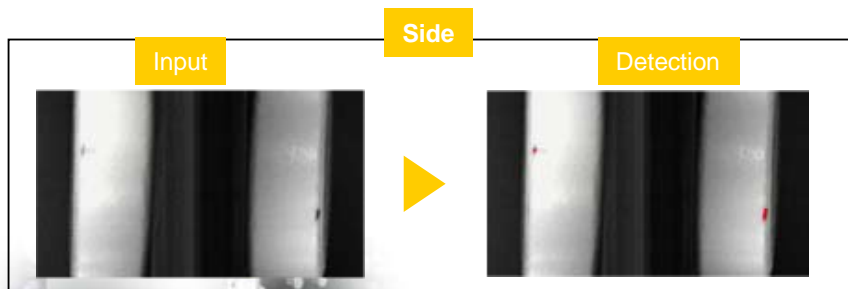
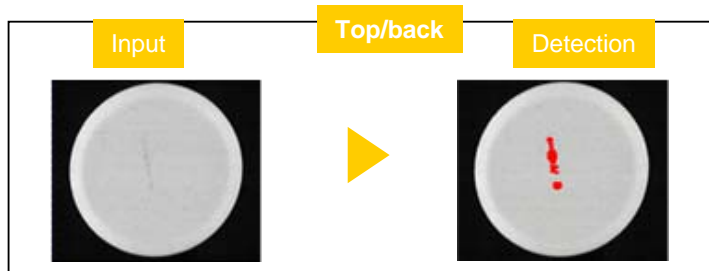
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# Newly developed optical system A.I.I.

Automatic tablet inspection machine  
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- Single camera for top/bottom & side inspection in individual stage
- High accuracy on edge inspection



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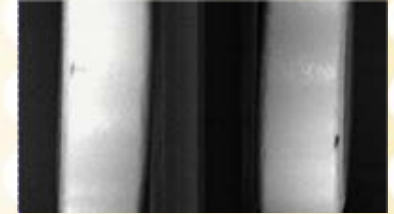
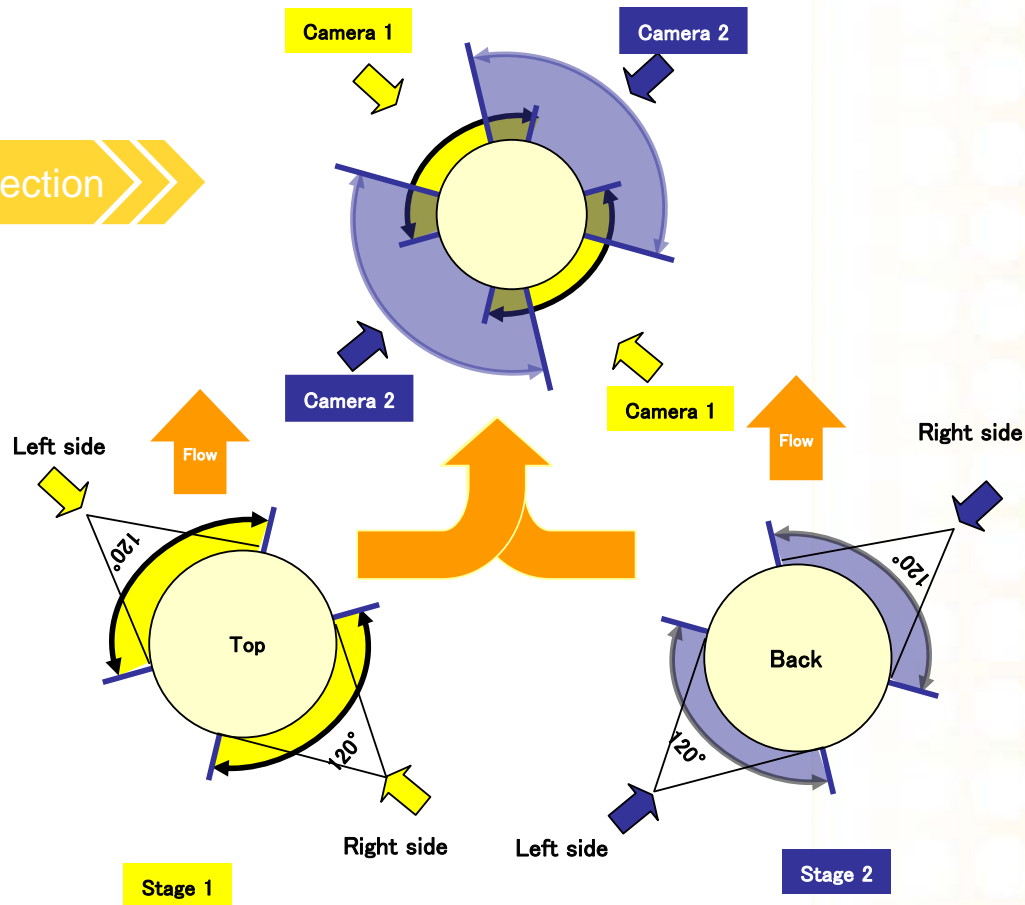
# NO DEAD ANGLE technique for side inspection

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TIE-9000

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All circumference inspection



Side



Top/Bottom



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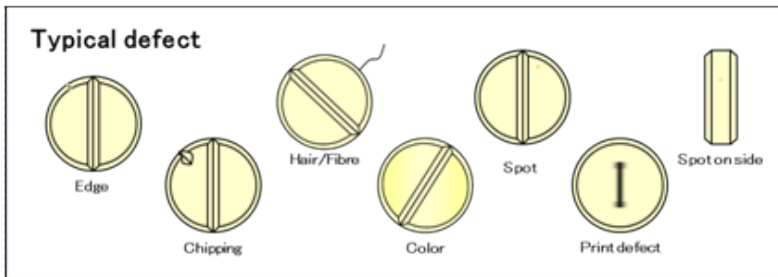
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# High quality camera

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- Capture best quality image for inspection
- 50  $\mu$  m detection accuracy
- No manual adjustment of camera & lighting for changeover



Application	Plain, Film coated, Sugar coated tablet, Oblong (Split line·Emboss·Print)
Size	[Round] $\phi$ 5mm~12mm [Oblong] L MAX21mm Thickness : 2~8mm * Other size may be applicable with option.



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# High quality color line sensor



## 【Monochrome processing】



Monochrome

Red filter

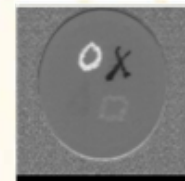
Green filter



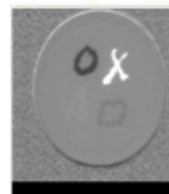
## 【Color processing】



Color balance in Blue/Red



Color balance in Green/Red



Color balance Red/Green



Color balance Blue/Green



Color balance Red/Blue



Color balance Green/Blue



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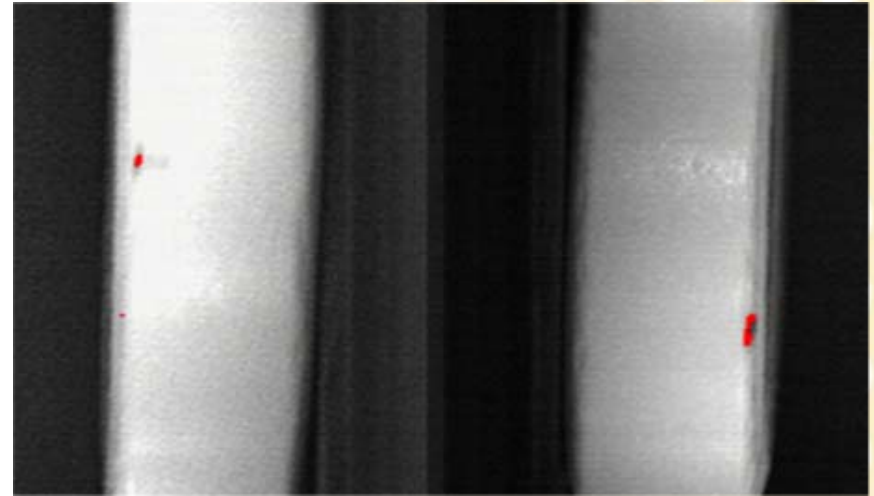
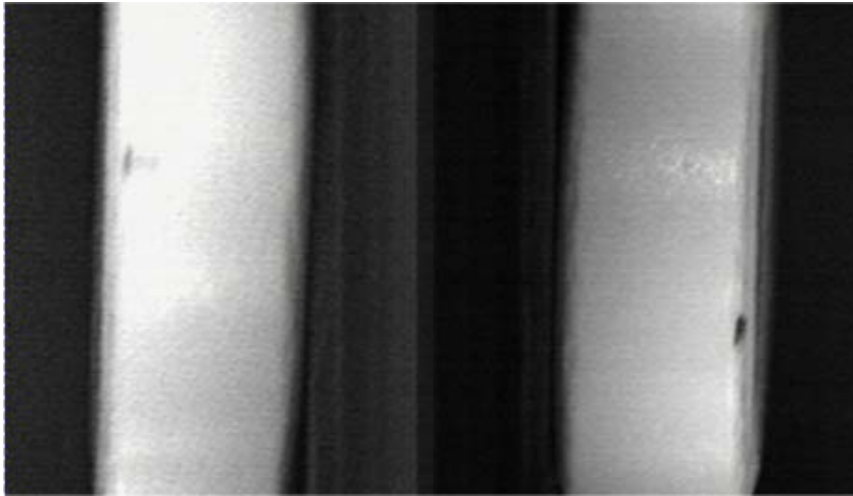
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TIE-9000

# High accuracy on edge inspection

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Edge inspection from angle



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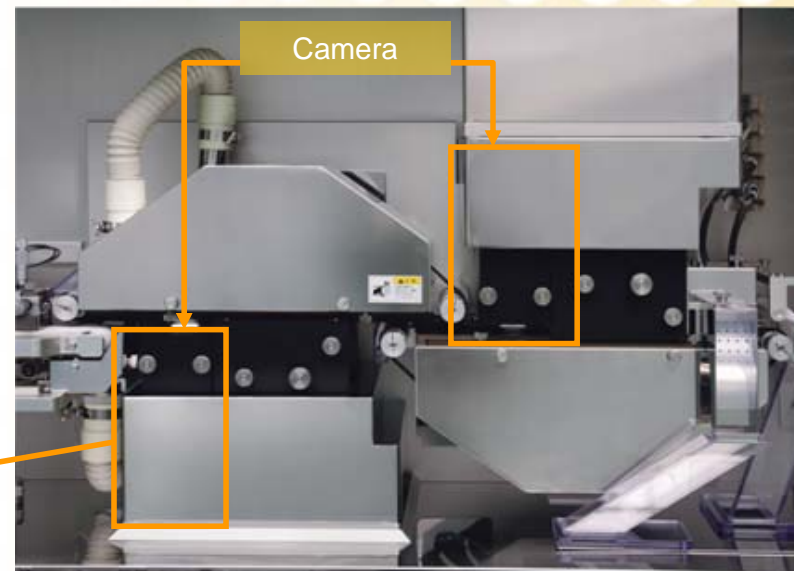
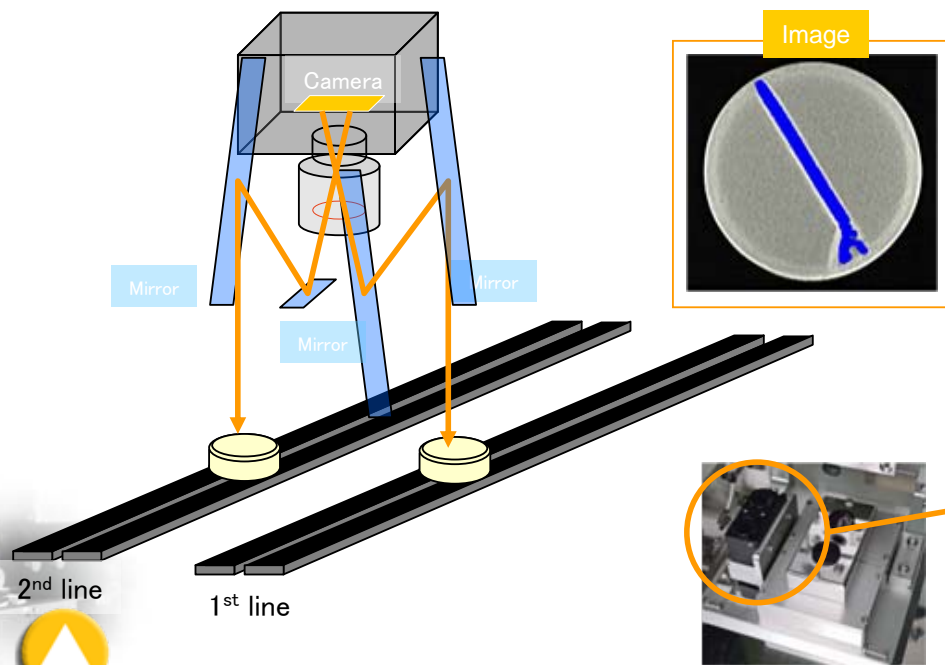
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## Camera/lighting for split line/emboss/chipping



- High accuracy for split line/emboss/chipping inspection
- LED lighting
- Single camera for 2 lines (TIE-9500)



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# High quality LED lighting

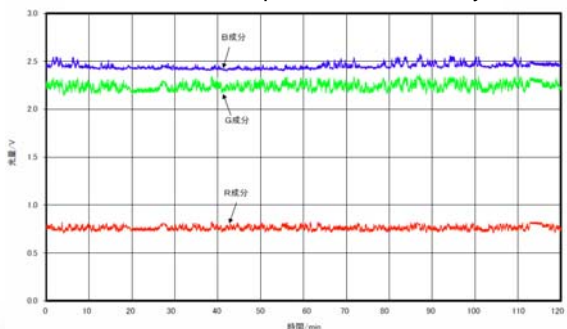
Automatic tablet inspection machine  
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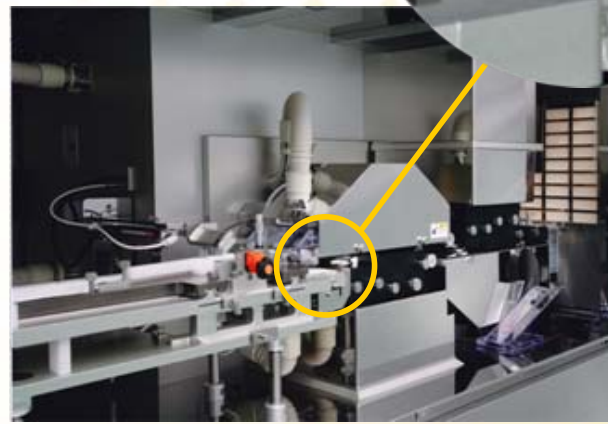
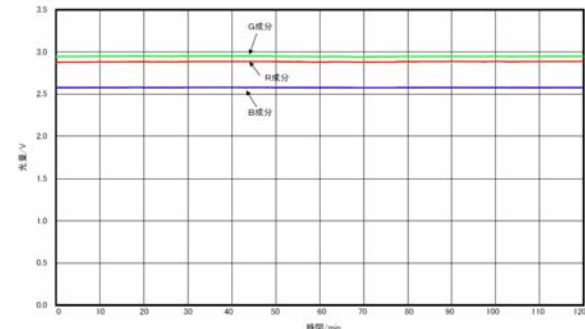
- Long life time : 10 to 15 years <8h per day>
- Low electricity consumption & Maintenance Free
- High & stable luminance for accuracy inspection



Metal halide lamp luminance stability



LED luminance stability



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## Compact & Simple structure

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- Easy changeover with minimum change parts
- Complete area access for cleaning



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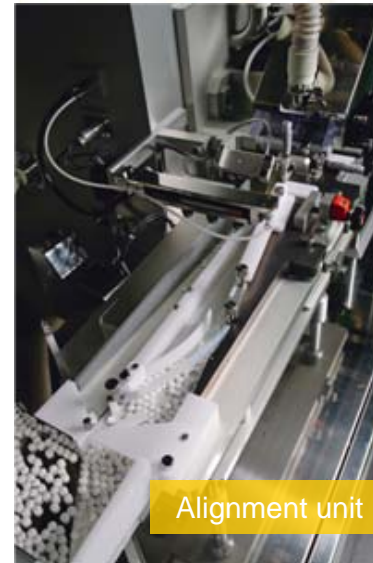


# Transfer

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- Horizontal transfer to avoid damage to tablet
- Stable transfer for oblong shape tablet
- Short-distance tablet transfer due to simple alignment system



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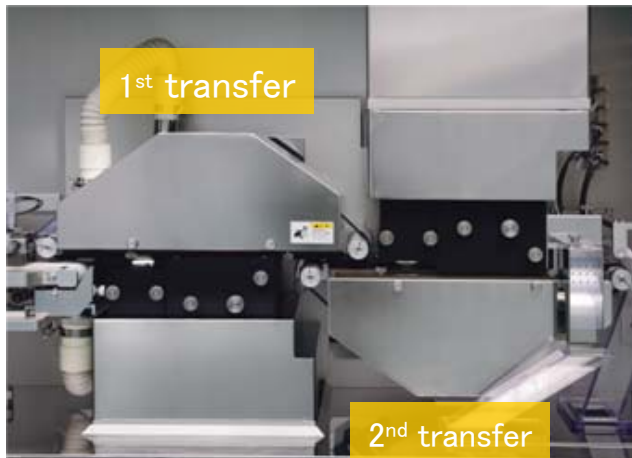
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## Higher output & reliable operation

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- Non-stop operation due to stable horizontal transfer
- 50m/min. speed transfer for higher output



Single line



Double lines

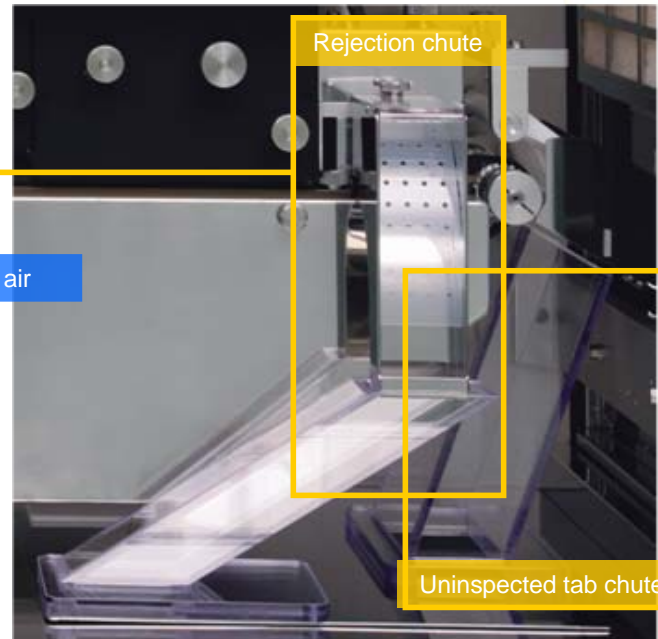
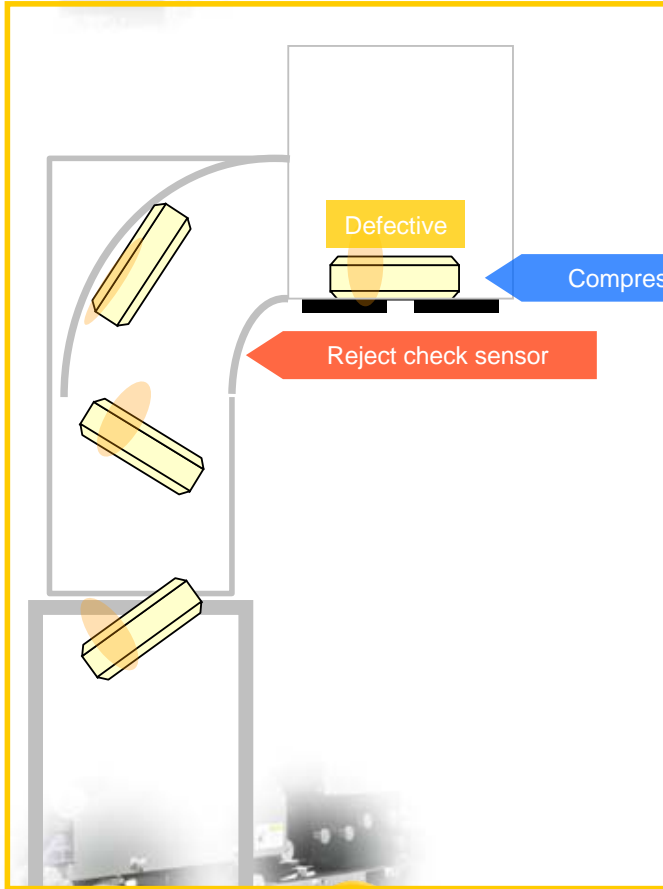


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# Defective tablet Rejection



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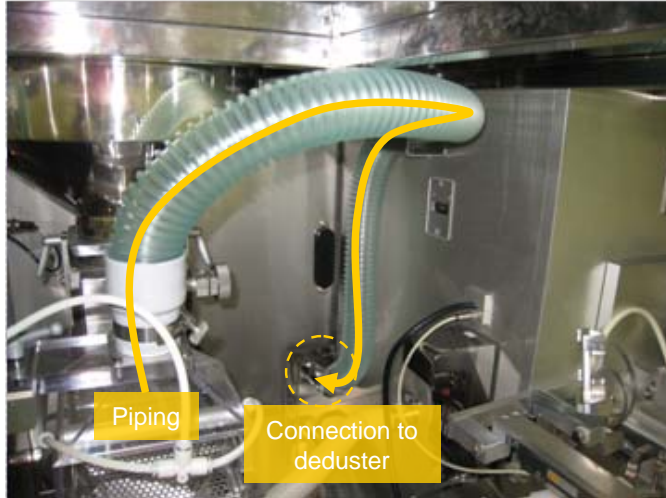
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# Deduster (optional)

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- Remove powder from tablet on punching plate



Cyclone



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# Operation panel

- Operator friendly color touch screen
- Unique turnable panel for working efficiency



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<http://www.ikegami.co.jp>



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