



*Interior Technology*

**カンセンエキスパンダー工業株式会社**

**KANSEN EXPANDER INDUSTRIAL CO.,LTD.**

Catalogue

KSK Expander Roll  
do best to spread  
as possible.

**EX**PANDER ROLL  
THE POSSIBILITIES.





Variable Expander Roll  
Compact adjust bow roll

Auto Variable  
Control system

Conical Expander Roll

Bigger, high torque, used for paper industry all that had went by.

spread as possible.

**EX**PANDER ROLL  
THE POSSIBILITIES.

KSK will always give suggestion sincerely.



From above the product is  
Metal Expander Roll  
Teflon roll  
Carbon roll  
Water-using Expander Roll



Rubber Expander Roll

As an Expander Roll's pioneer,  
we have 80 years old history.

## KSK Expander Roll do best to

Raising a solution power to the film industry;  
"low torque", and  
"the more compactification".

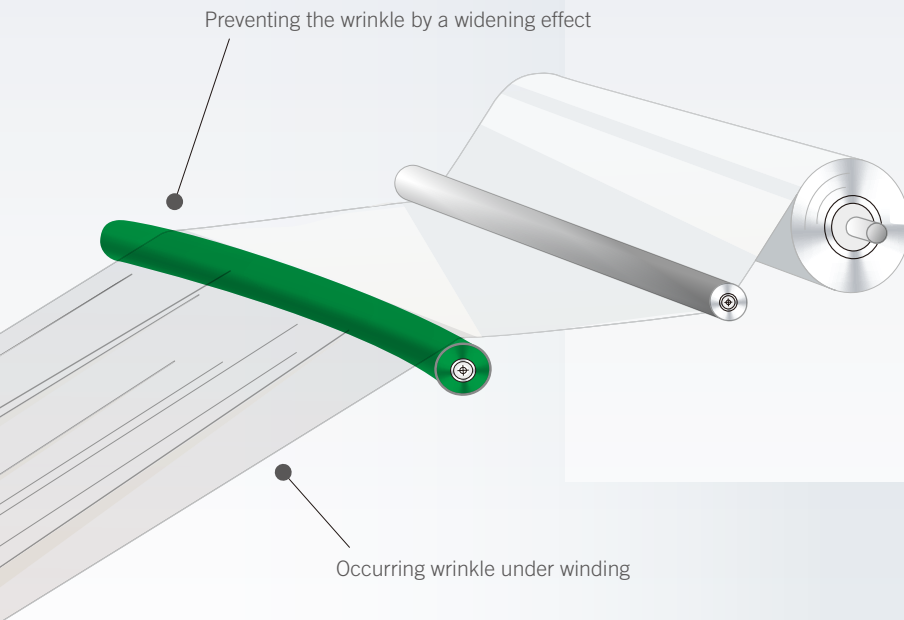


Low torque Expander Roll



Variable Expander Roll

Expander Roll is a like a bow-shaped roll (curve roll) which paper, nonwoven, metal sheet, and other sheet product.



01

Curved shaft of spread roll is composed of many spools which there are many internal bearing. Rubber type or metal type is available.



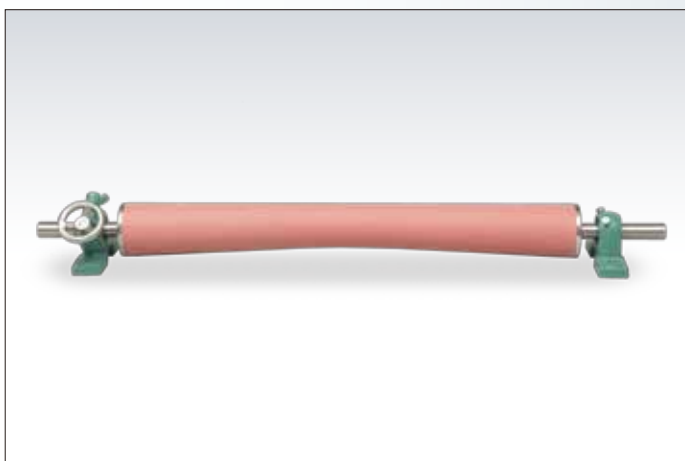
02

Expand Roll staying curved run lightly by a fixed shaft, can remove a wrinkle and a shrinkage according to the contact between bow roll and web. Also it won't give damage to the web.



## PICK UP EXPANDER ROLL

### ■ Conical Expander Roll



Suitable for following case.

Bow roll is not suitable for the position

Don't want give film any tension.

- Contact to the film in a flat surface, It's our original product.
- By the different diameter between center part and side, different speed spread from center to side.
- Use for tight contact angle with film.
- Only rubber.

Dia. (mm)  $\Phi 40 \sim \Phi 155$  Width (mm) 250~3000

flat



Flat surface between film and roll

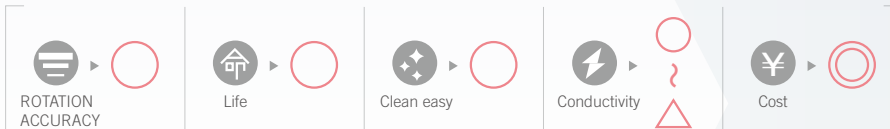


ch is used to help spreading web in manufacturing process of film

## Rubber Expander Roll



- Fixed bow with most results.
- Using for film, paper, metal foil and textile and other sheet product.
- Many kinds of rubber are available.  
(abrasion resistance, Chemical-resistance, heat-resistance, water resistance,conductive property etc.)
- Contrast to the flat Expander Roll, bow roll spreading wrinkle more effectually.



|            |           |
|------------|-----------|
| Dia. (mm)  | Φ40~Φ340  |
| Width (mm) | 250~10000 |

## ■ Straight variable Expander Roll



Bending can be adjusted by this one



Can used as guide roll when not necessary

When there wrinkle, used for Bow roll.

Suitable for following case.

Many kinds film so that one Expander Roll is not enough.

Don't want use hydraulic jack.

- Manual and easy to adjust bow.  
Can be adjusted under running.
- Bow can adjusted from 0mm.  
Also can be used as guide roll.
- Easy to operate by screw jack.  
Easy to choose space for installing.
- Both rubber and metal type are available.

|           |          |            |          |
|-----------|----------|------------|----------|
| Dia. (mm) | Φ60~Φ125 | Width (mm) | 500~2000 |
|-----------|----------|------------|----------|

There is no extra space to install adjust bow roll.

## Variable Expander Roll

Compact adjust bow roll

If there is not any extra space in the frame of machine, a compact jack within bracket is a good choice. Also easy to adjust in manual.



Jack is compact.

# Metal Expander Roll



- Superior to the long life and rotation accuracy.
- Clean more easily than rubber EXP.
- Good at conductivity to prevent static electricity.
- Groove processing are available in surface.

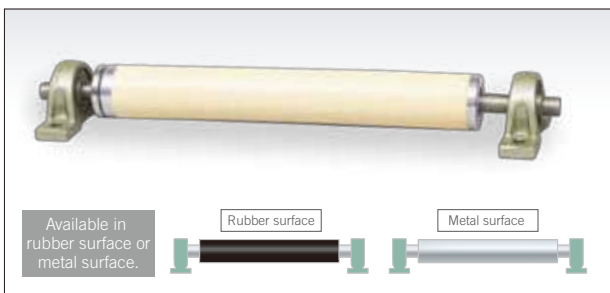


|            |           |
|------------|-----------|
| Dia. (mm)  | Φ60~Φ450  |
| Width (mm) | 250~11000 |

+a

Torque is lower than normal type, giving a small influence to film.

## Low torque Expander Roll



Suitable for following case.

Want torque of Expander roll low as possible

No space for pulley

- Suitable for low torque line
- No need pulley and save energy.
- No need extra space.
- Both rubber and metal type are available.

Dia. (mm) Φ75~Φ125 Width (mm) 500~2500

Use speed under 200m/min

There are various kinds of Expander Roll to meet different working condition. For details please see our homepage ([www.kansenexp.co.jp](http://www.kansenexp.co.jp)).



Expander Roll with teflon



Water-using Expander Roll



Adjust bow roll with control system (VCS)



Flange bracket



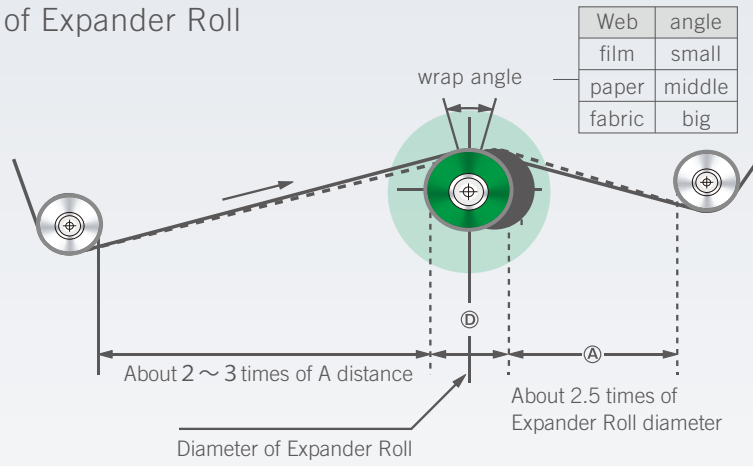
Pillow bracket



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

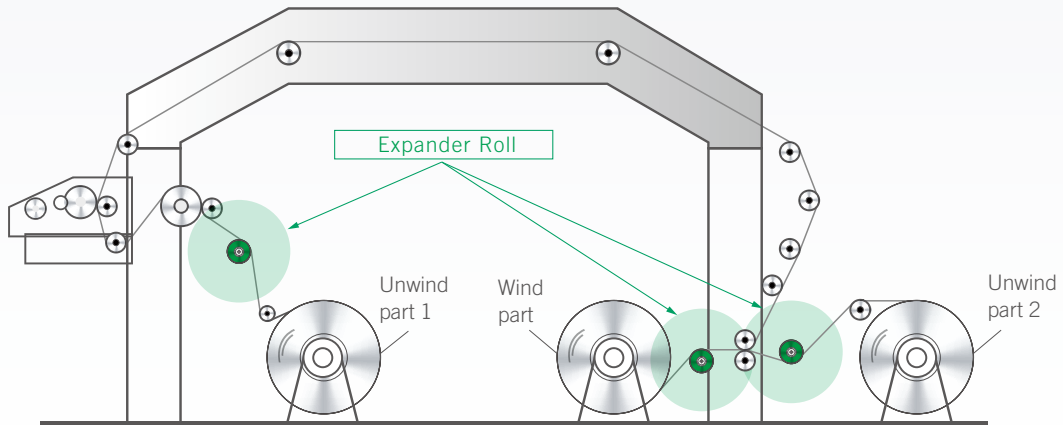
# Positon illustration of Expander Roll

Positon illustration of Expander Roll



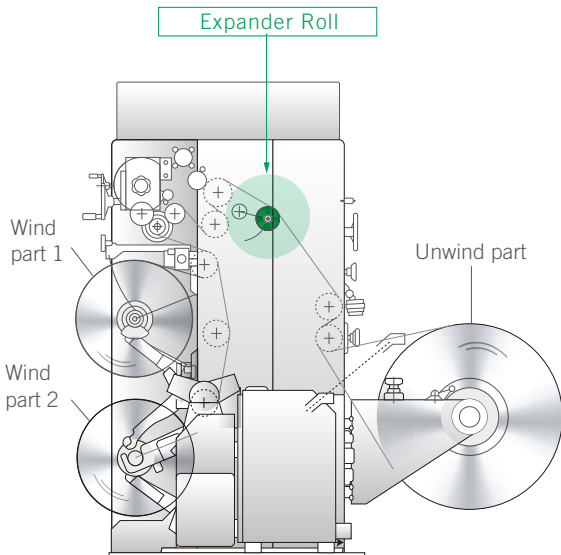
## Use before pressing

### 01 Coater Laminator



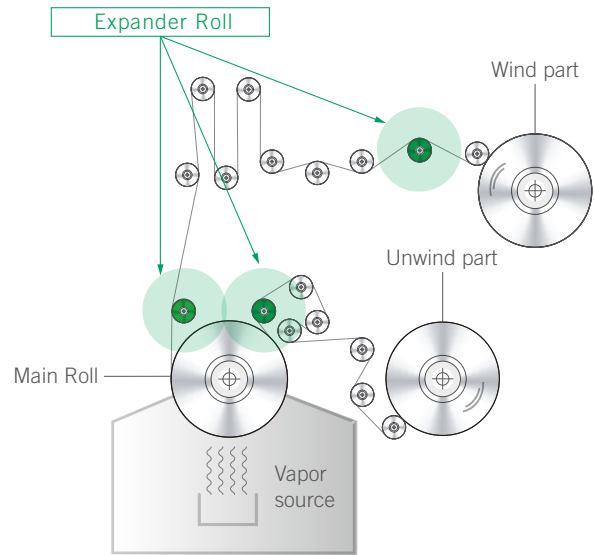
## Use before slitting

### 02 Slitter



## Use in the extreme temperatures

### 03 Vacuum vapor machine





| Date |       |     |
|------|-------|-----|
| Year | month | day |

## Specification (Order・Quotation・Inquiry)

\*Please fill the blank of the thick flame.

|              |                  |                |
|--------------|------------------|----------------|
| Company name | Person in charge | Tel number ( ) |
|              |                  | Fax number ( ) |
|              |                  | E-mail @       |

|                |       |                               |    |
|----------------|-------|-------------------------------|----|
| Roll Dia. (D)  | mm    | Roll total length (D)         | mm |
| Roll width (W) | mm    | Web (Paper・Film・Fabric・other) |    |
| Machine speed  | m/min | Web weight or thickness       |    |
| Machine        |       | Temperature                   | °C |
| Working place  |       |                               |    |

|   |      |                          |               |
|---|------|--------------------------|---------------|
| Mounting center (MC)                      | mm   | tension                  | kg/cm         |
| Roll type                                 |      | Rubber material Hardness |               |
| Bracket (flange or pillow)                | type | Teflon                   | (with or not) |
| Drive pulley (V Pulley・flat pulley・other) |      | Bending (E)              | mm            |

If any other question, please write down here to let us know.



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