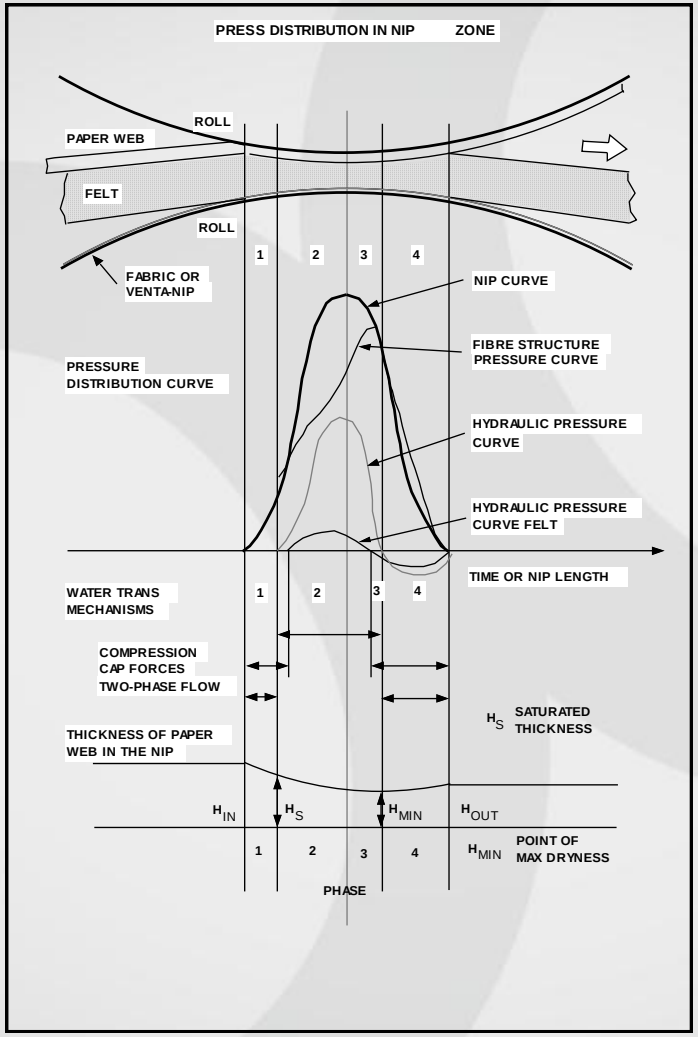
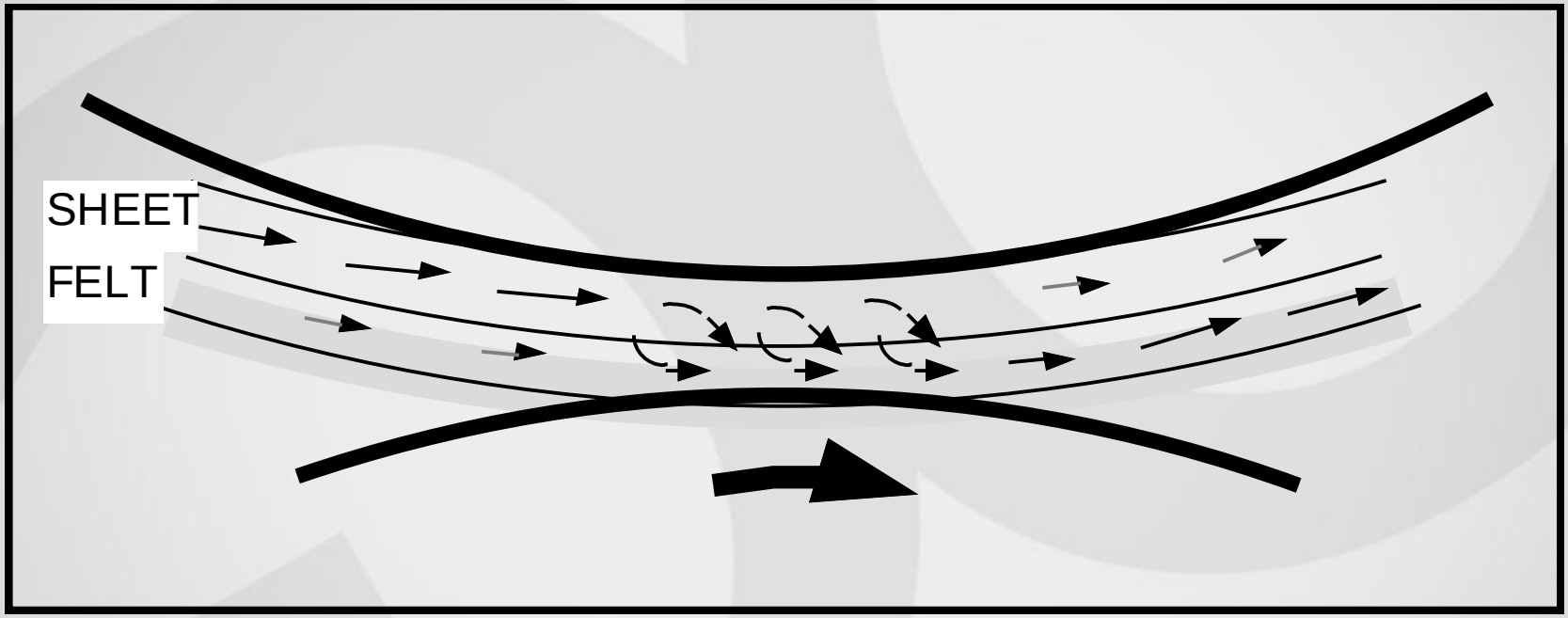
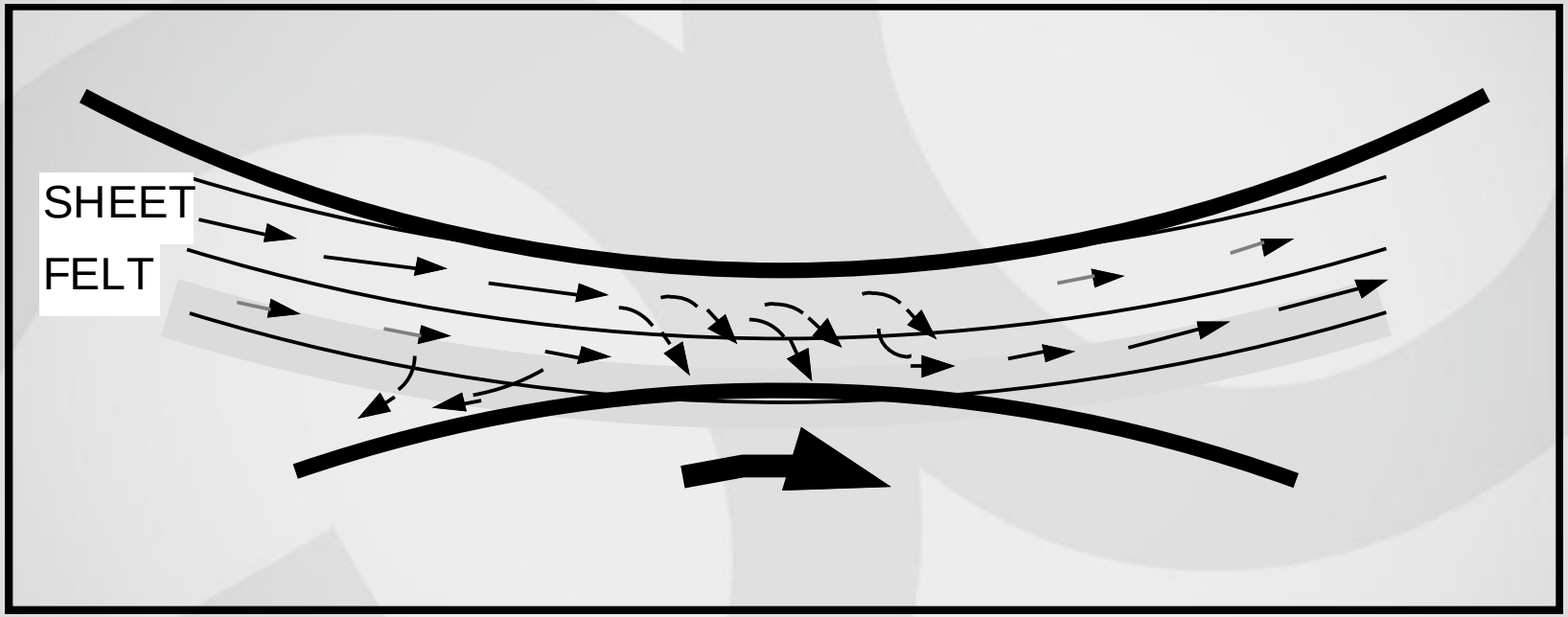
# Pressure Distribution



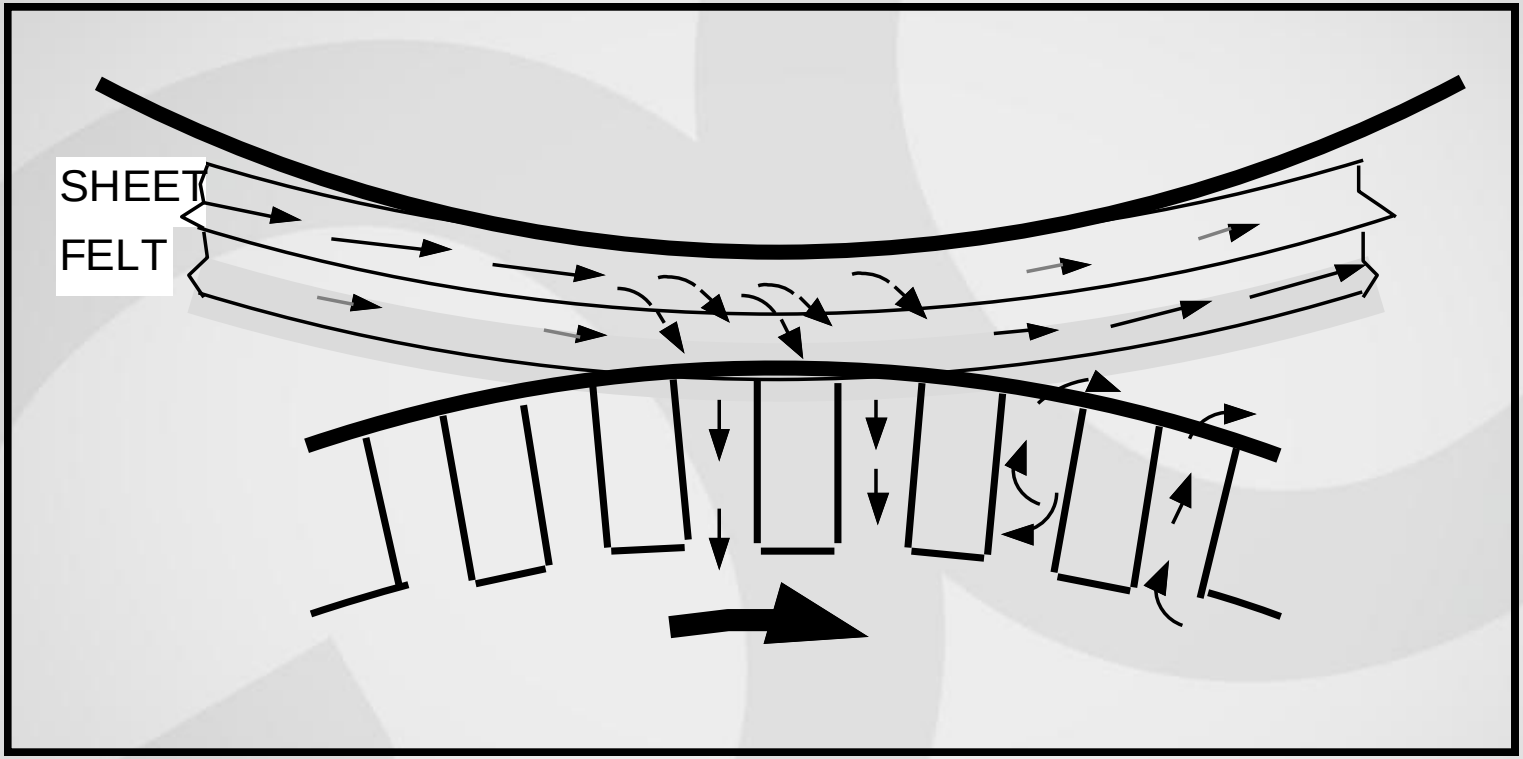
# *Plain Press nip (unsaturated)*



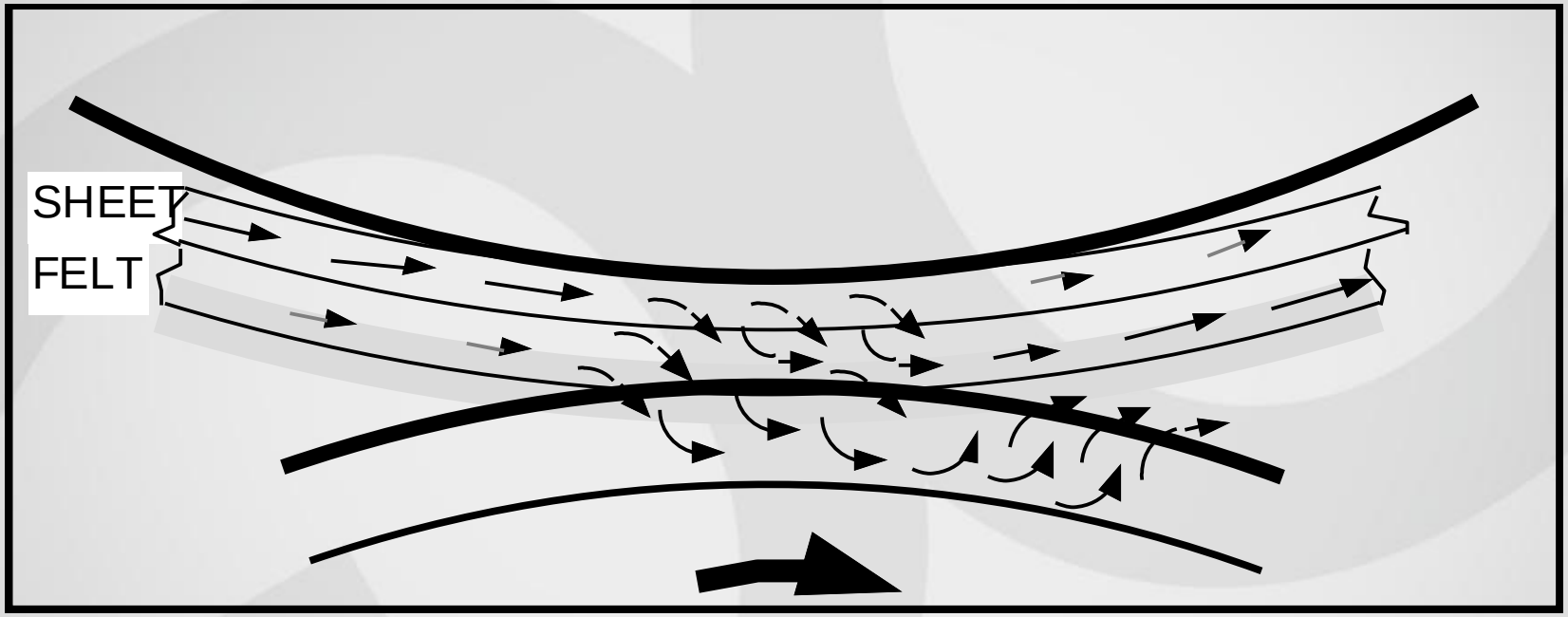
# *Plain Press nip (saturated)*



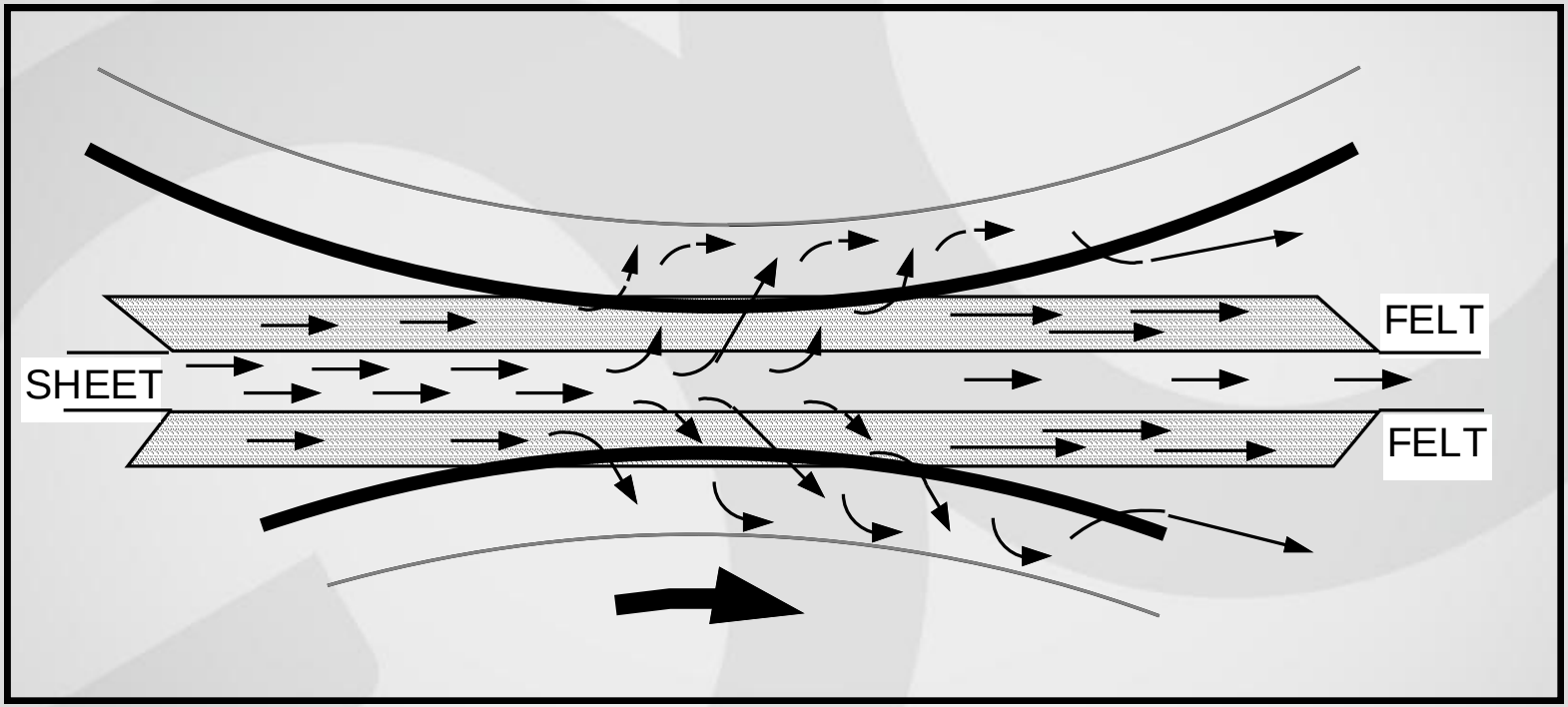
# Suction Press



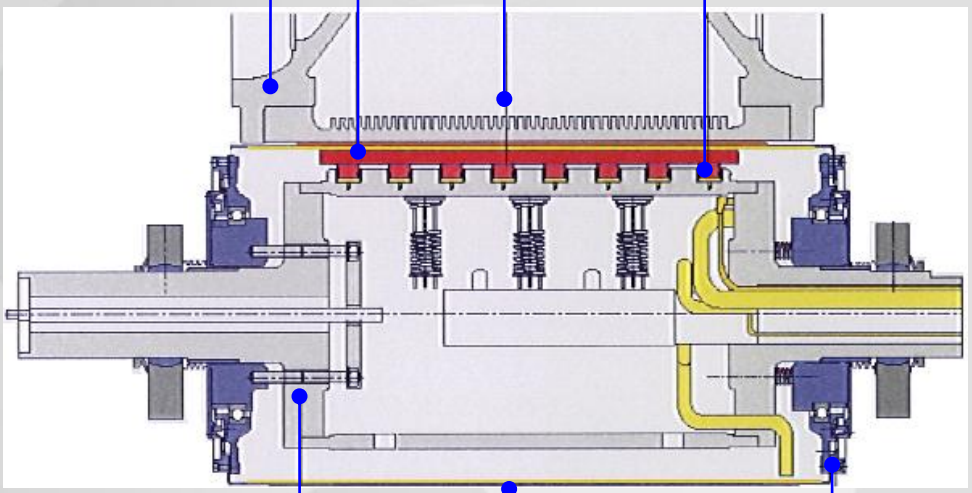
# Grooved Press

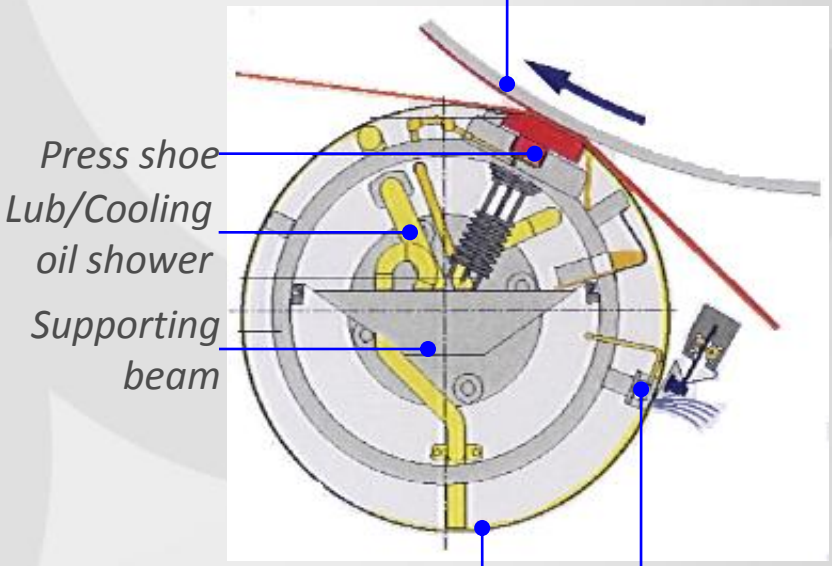


# Double felted
# Double grooved press

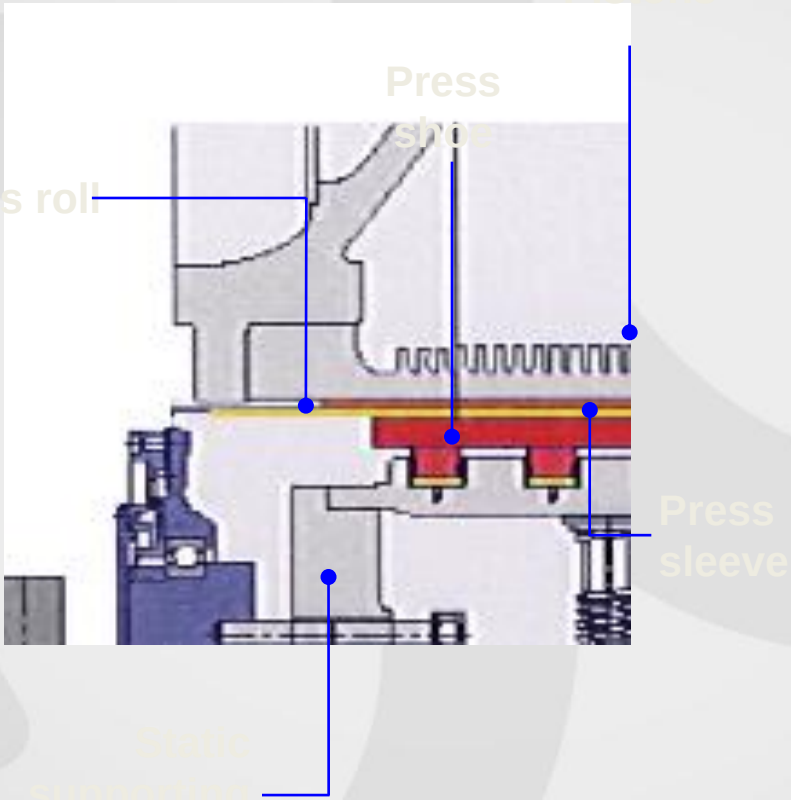


# ENP Extended Nip Press

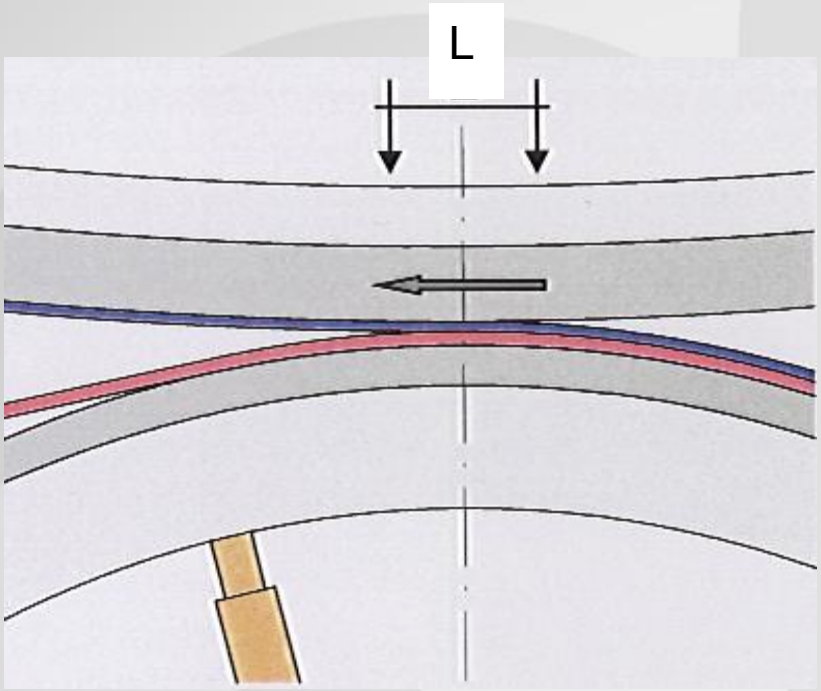


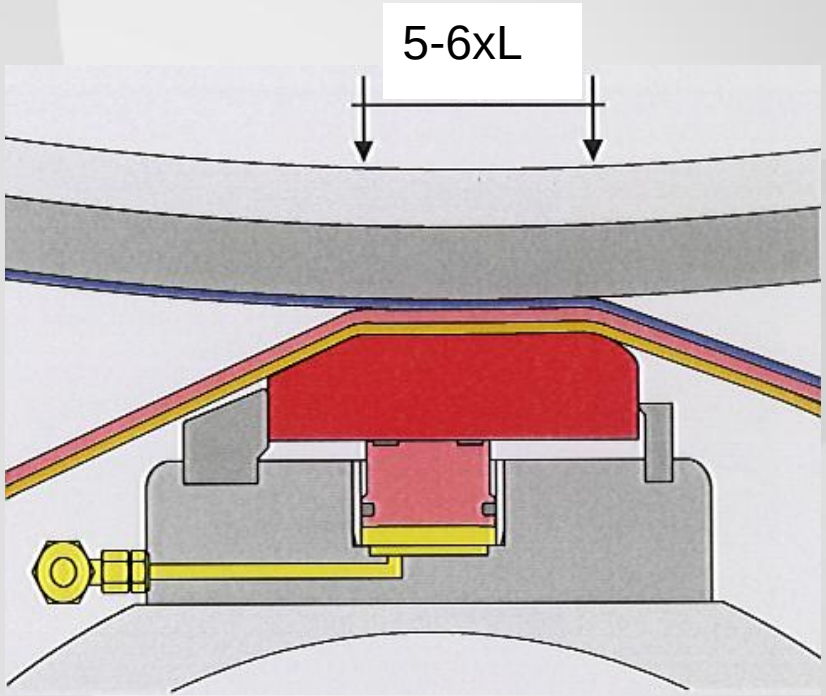



# ENP Extended nip press

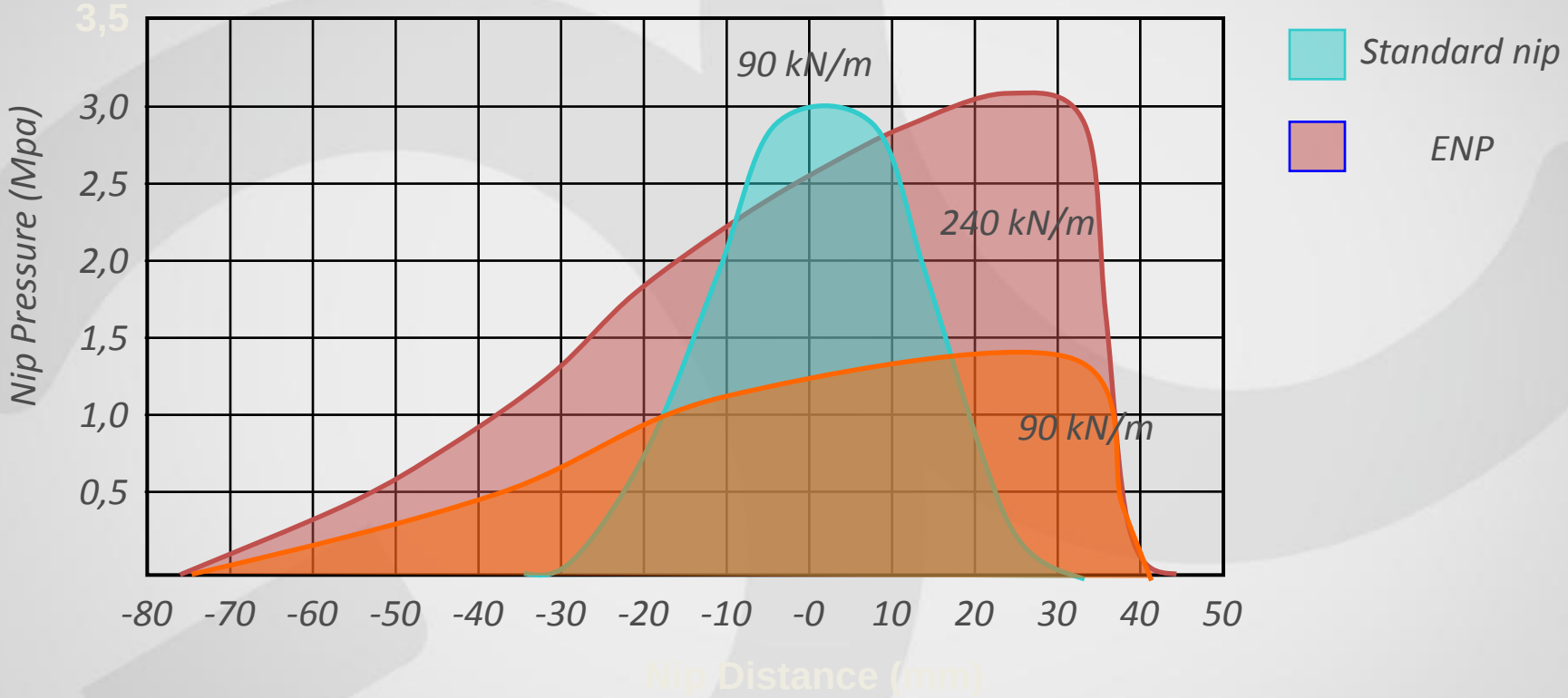


# *ENP Extended nip press*



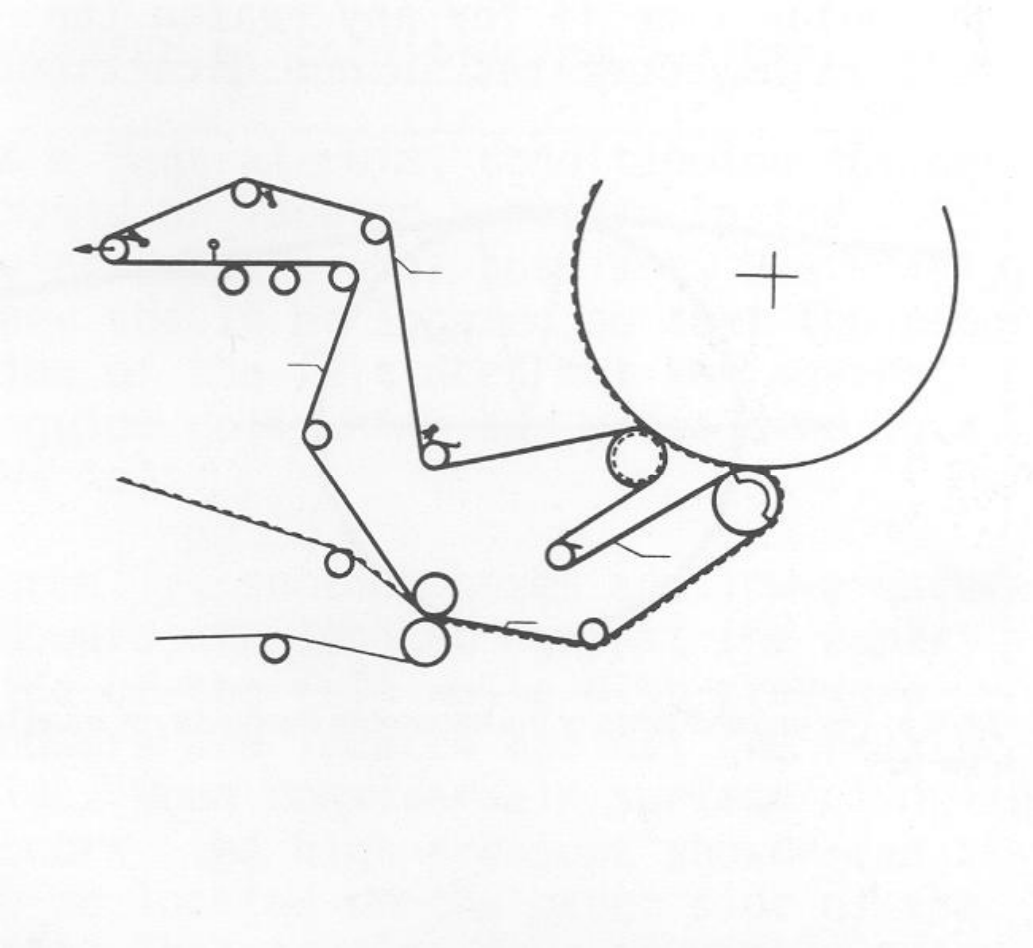
# ENP press impulse vs. standard



# ENP trade marks

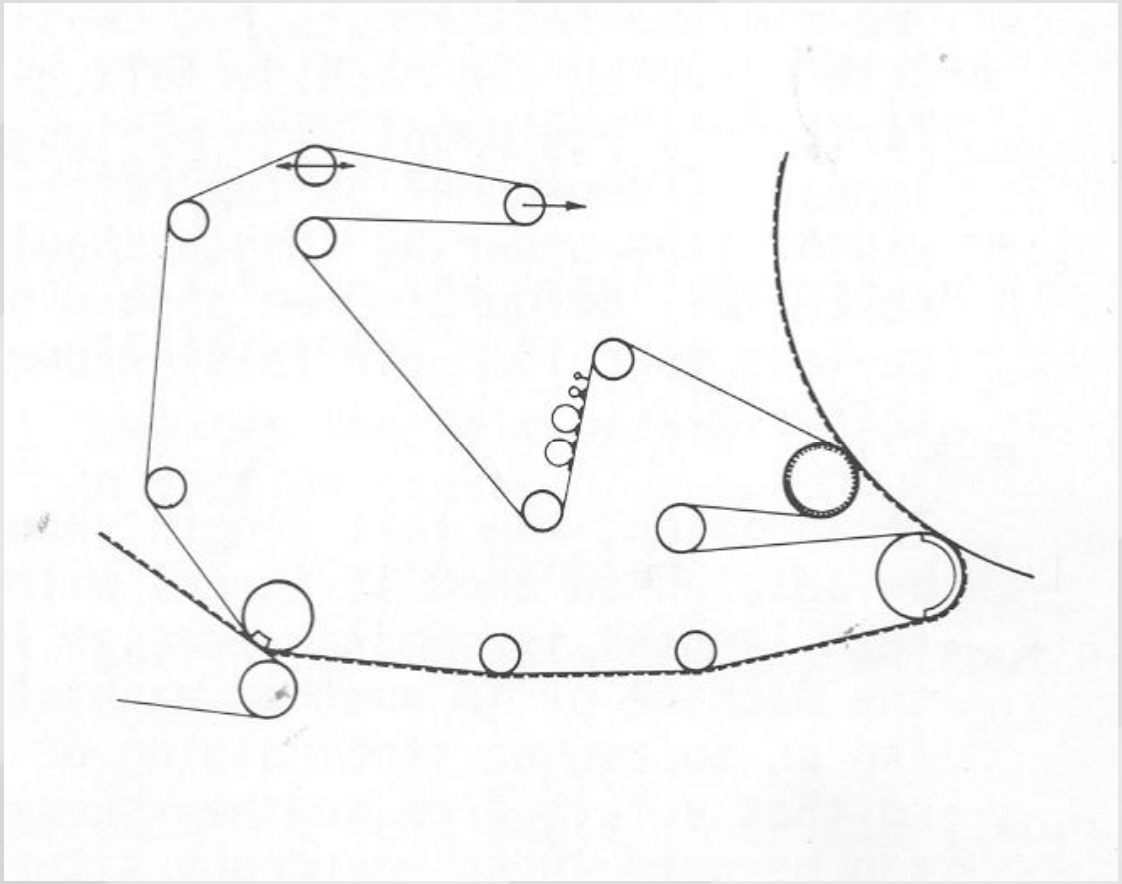
- *ENP (Beloit)*
- *ENP-C (Beloit)*
- *NipcoFlex (Voith)*
- *TissueFlex (Voith)*
- *Sym-Belt (Metso)*

# Location of conditioning system



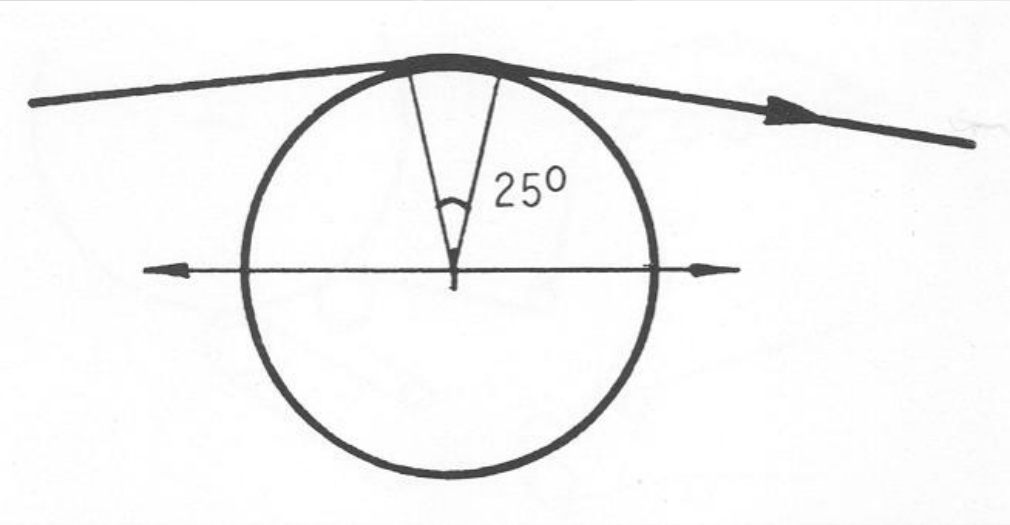
Location of suction boxes, showers and guide rolls gives rise to risk of splashing on sheet.

# Location of conditioning system



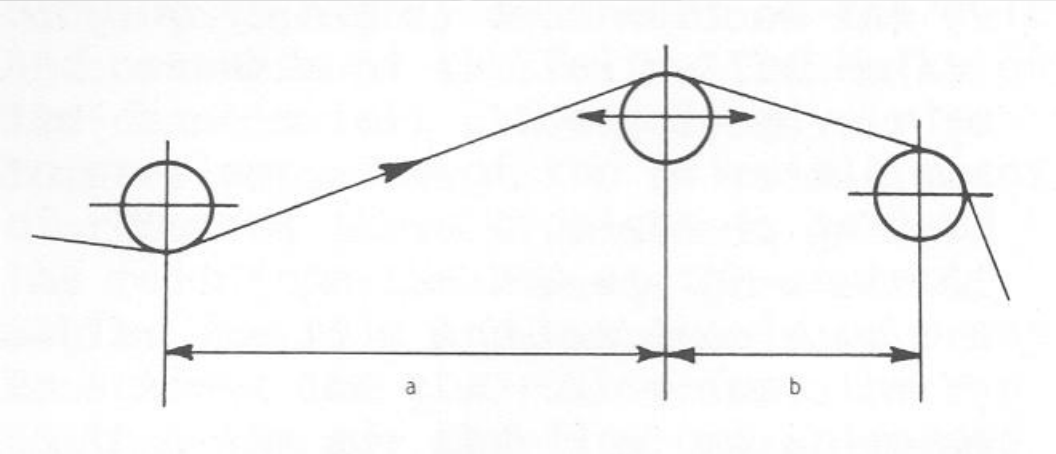
More suitable felt run.

# Tension & guide devices



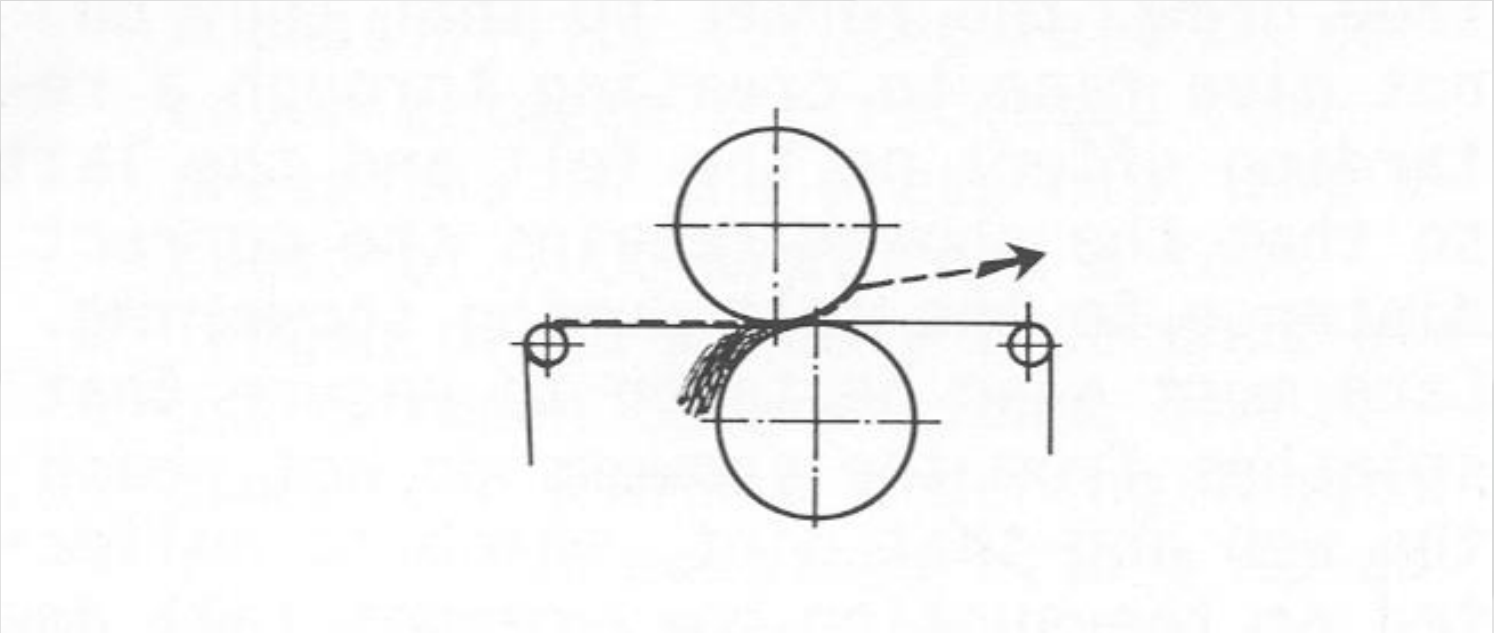

**:** The angle of wrap of the felt across the guide roll must be at least 25°.

# Tension & guide devices



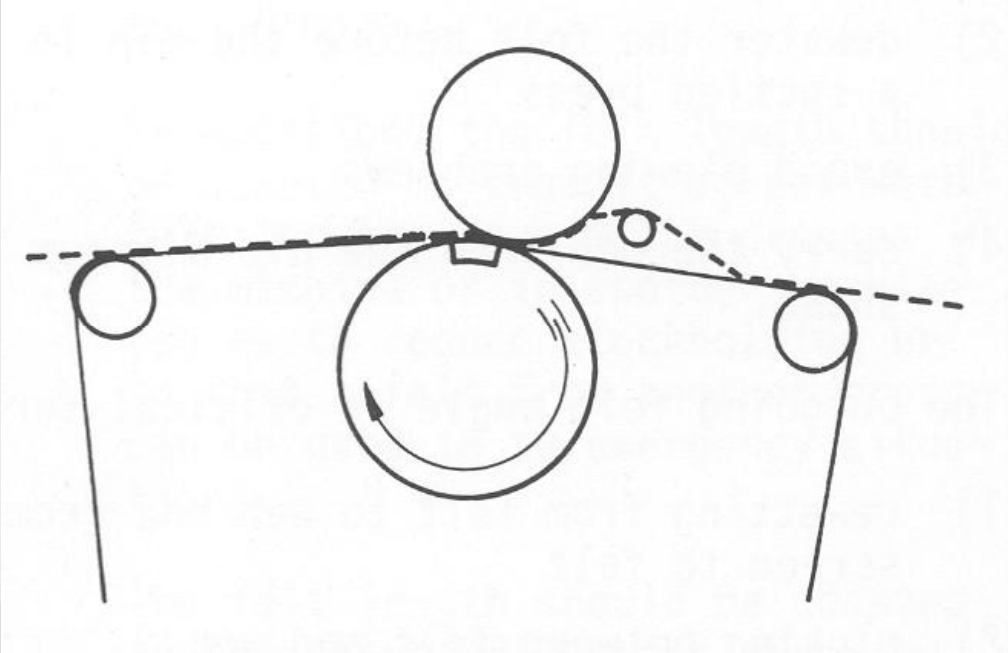

The distance a + b must be at least equal to the width of the felt. The distance b must be at least 1/3 of the width of the felt

# Press configurations



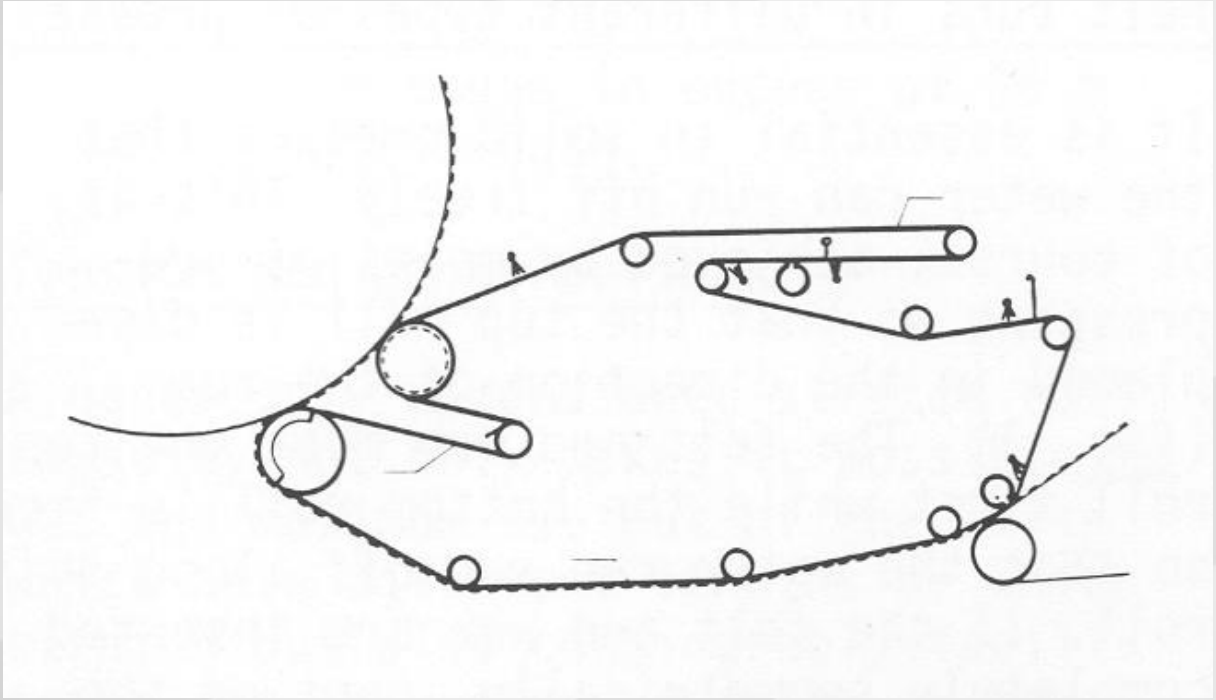
Pre-pressing in a solid press

# *Press configurations*



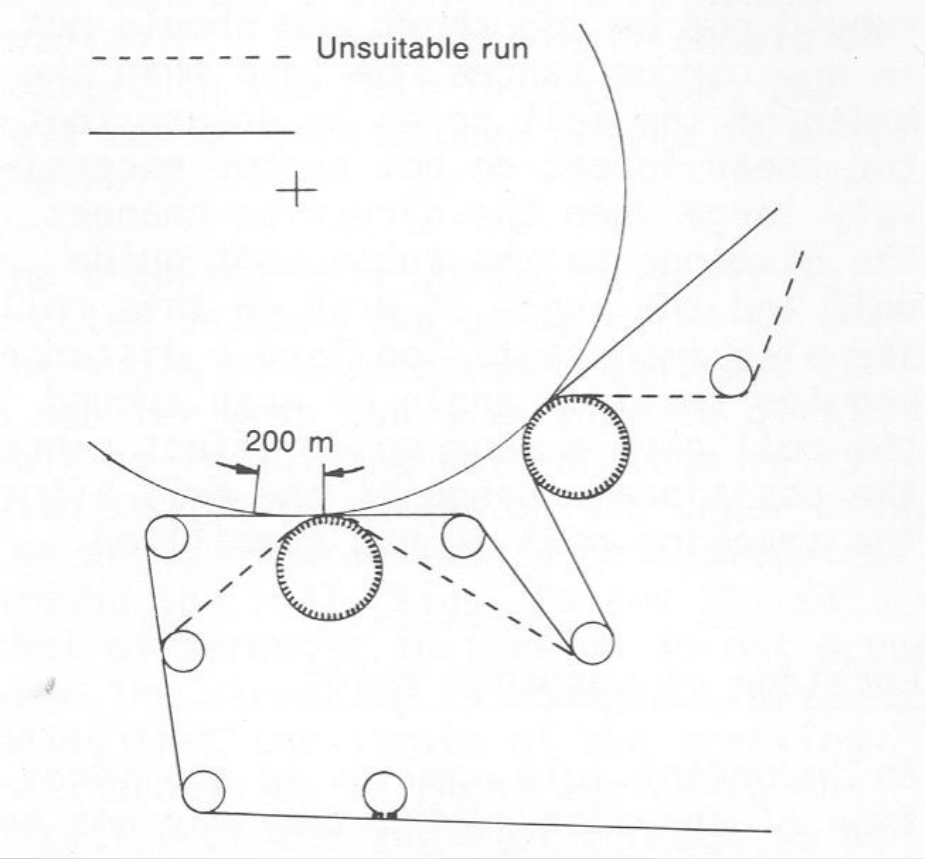
Air bleed in a suction press

# *Press configurations*



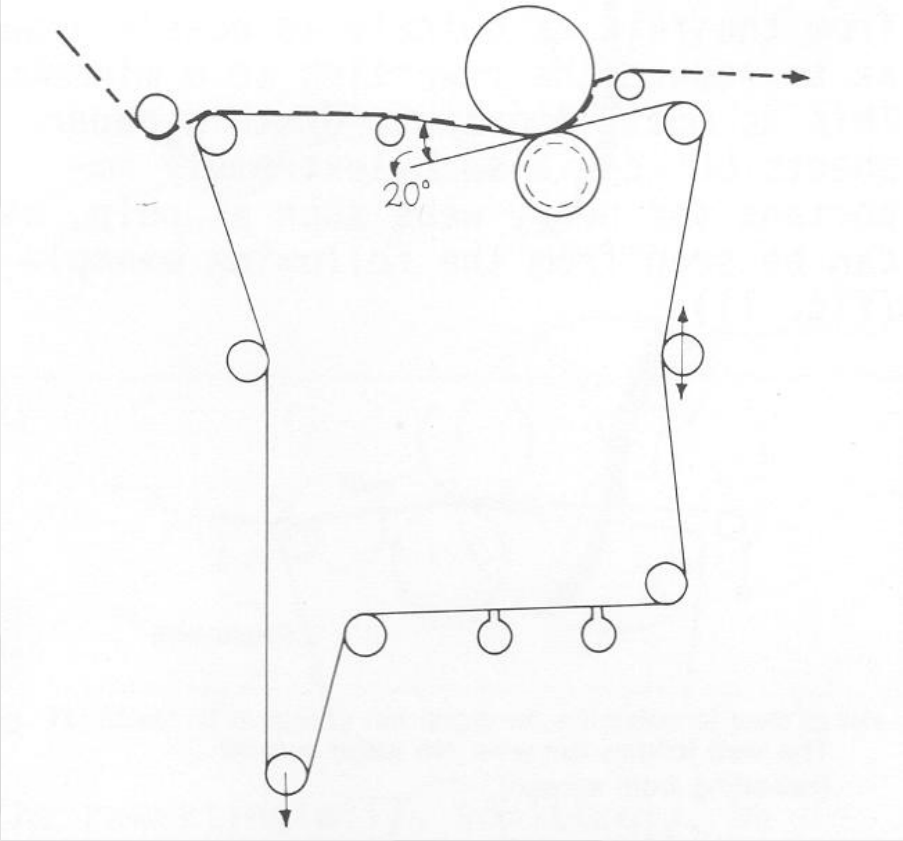
Single-felted soft tissue machine with a long suction zone in the first hot press

# *Press configurations*



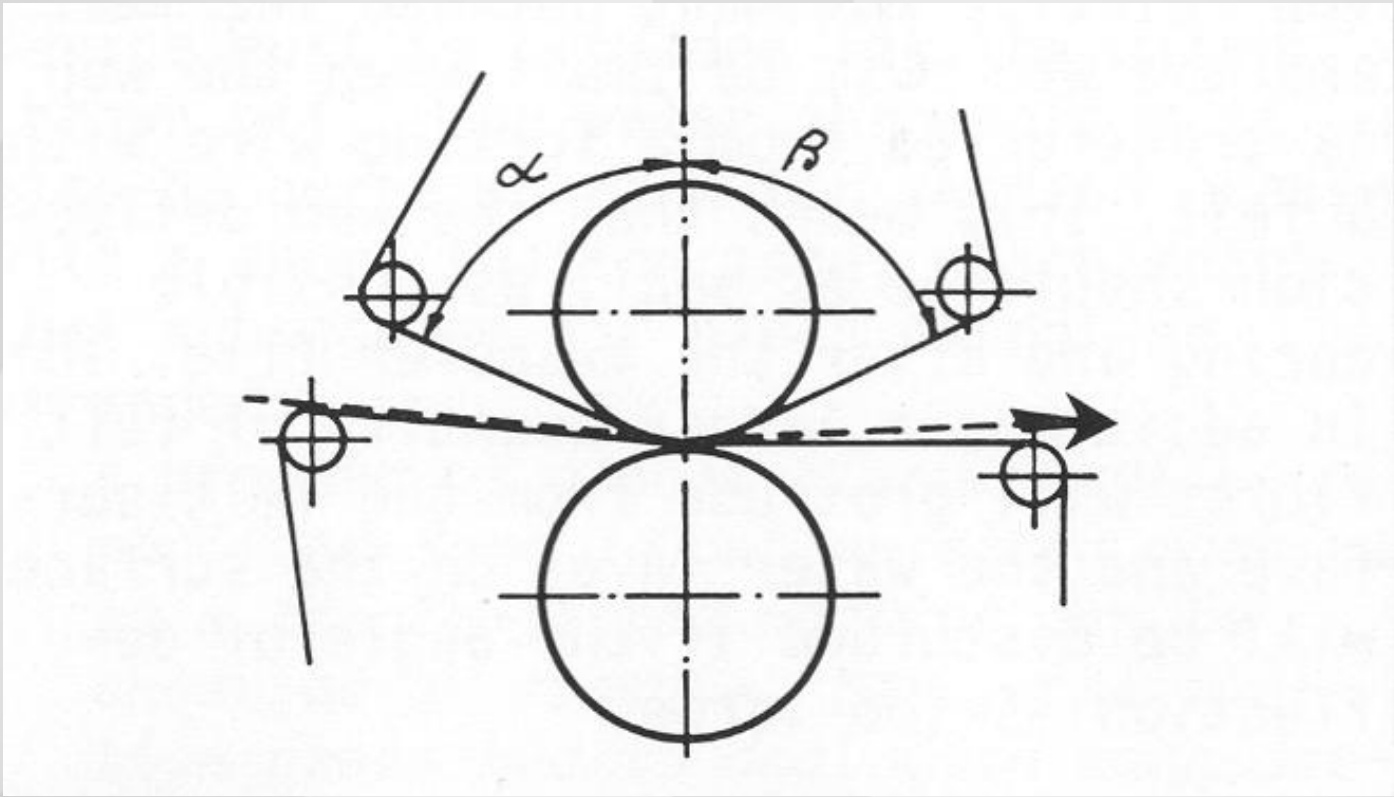

**:** Suitable run with blind-drilled first press roll.

# *Press configurations*



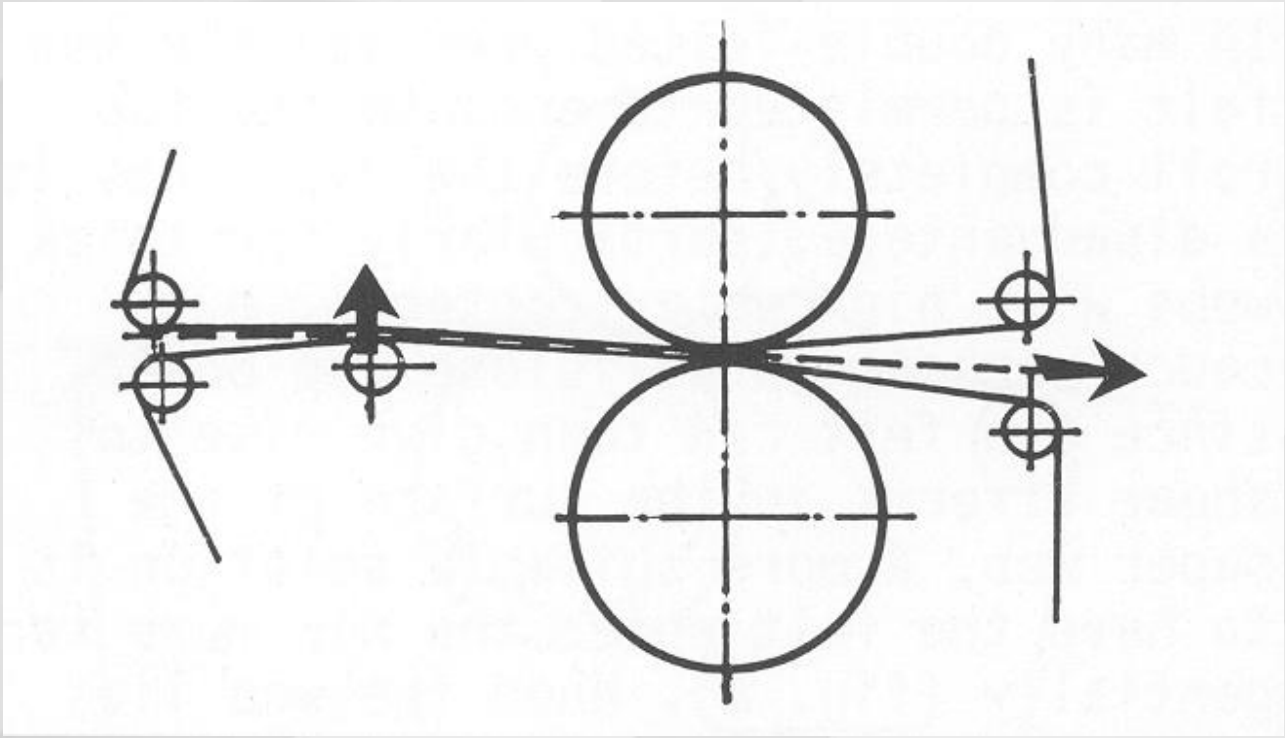

Recommended felt-sheet run for venta nip press in high speed machines.

# Press configurations



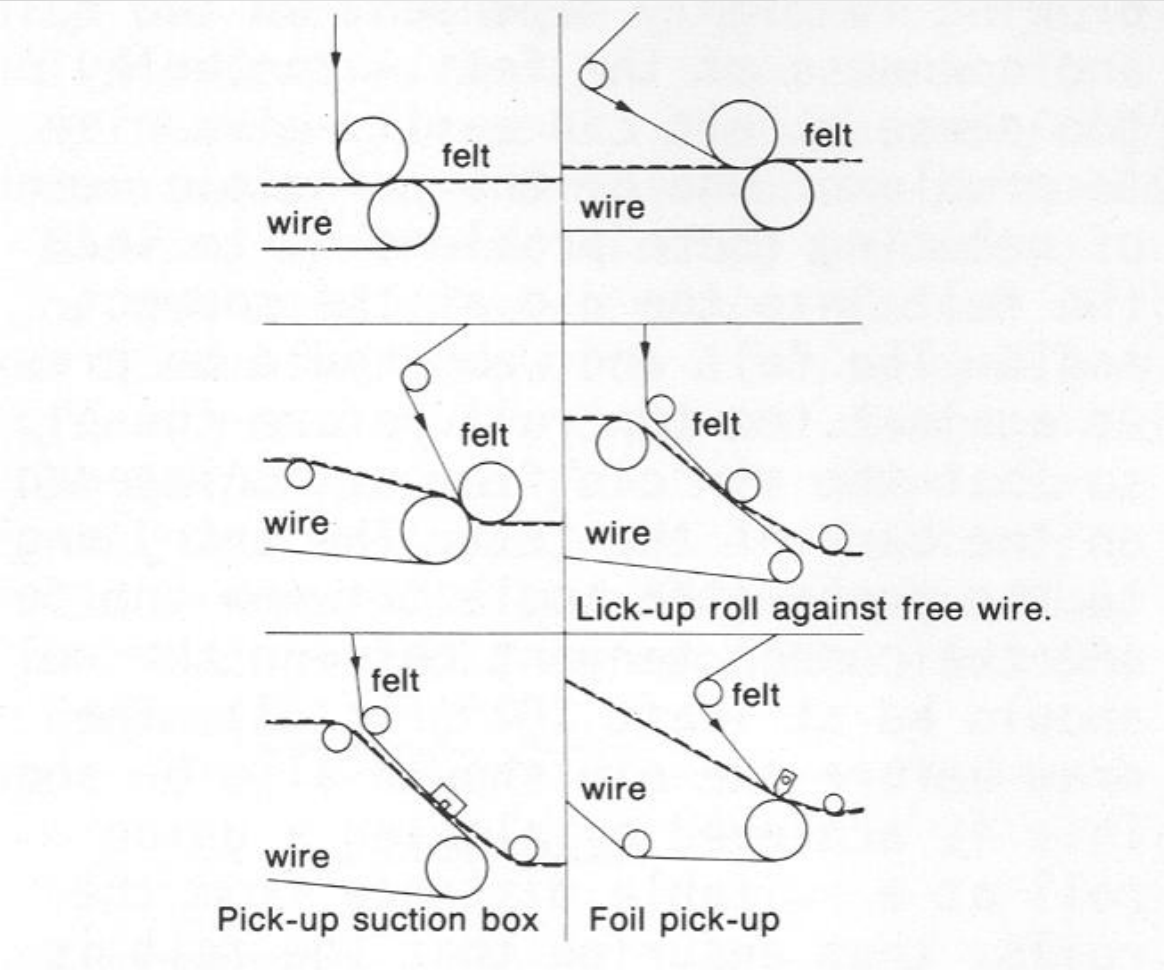

Suitable felt run in double-felted press.

# Press configurations



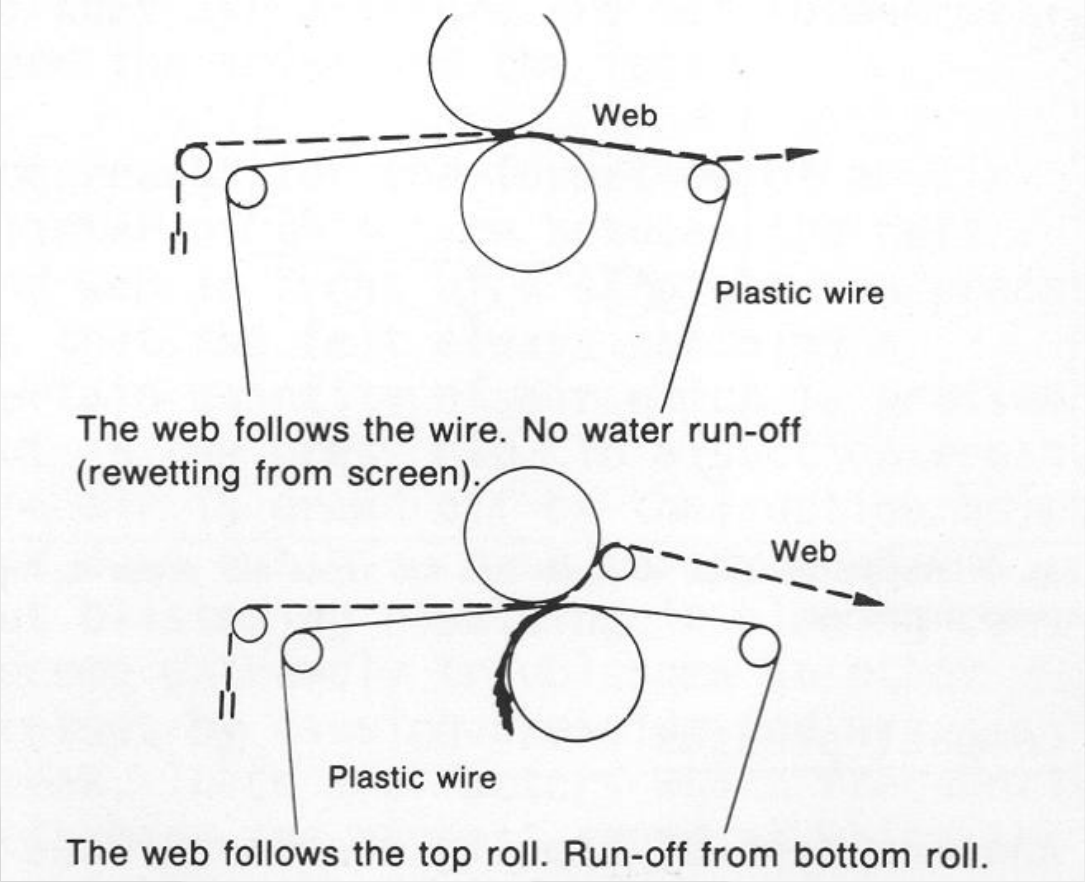
Adjustable guide roll before the nip in a double-felted press.

# Press configurations



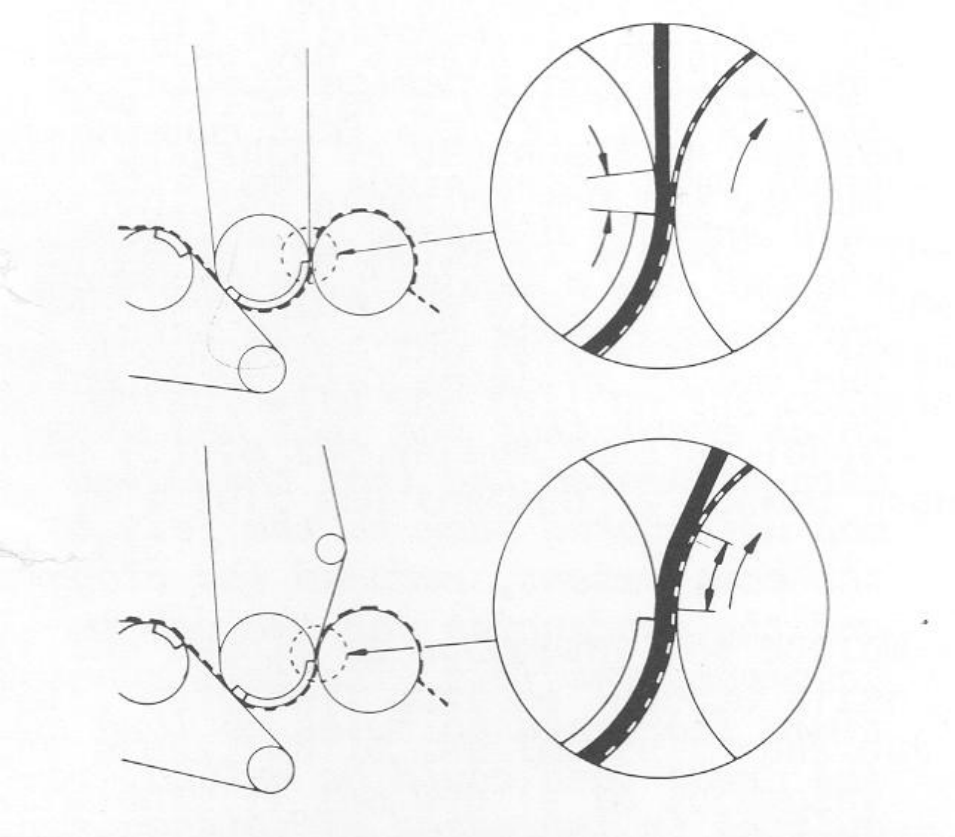

The pick-up angle against the wire should be sharp so as to give a satisfactory transfer. a illustrates an unsuitable felt run.

# Press configurations



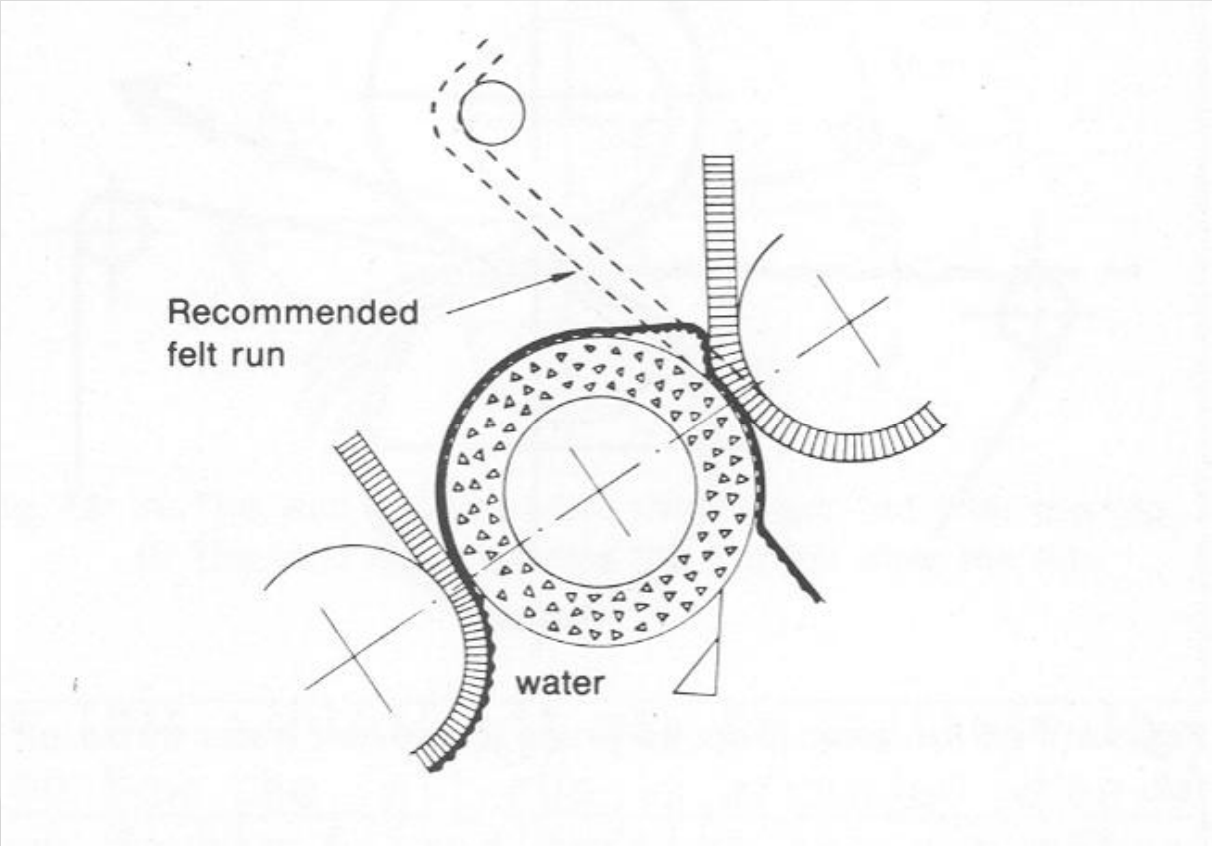

Different sheet runs when pressing pulp sheets against plastic wire.

# *Press configurations*



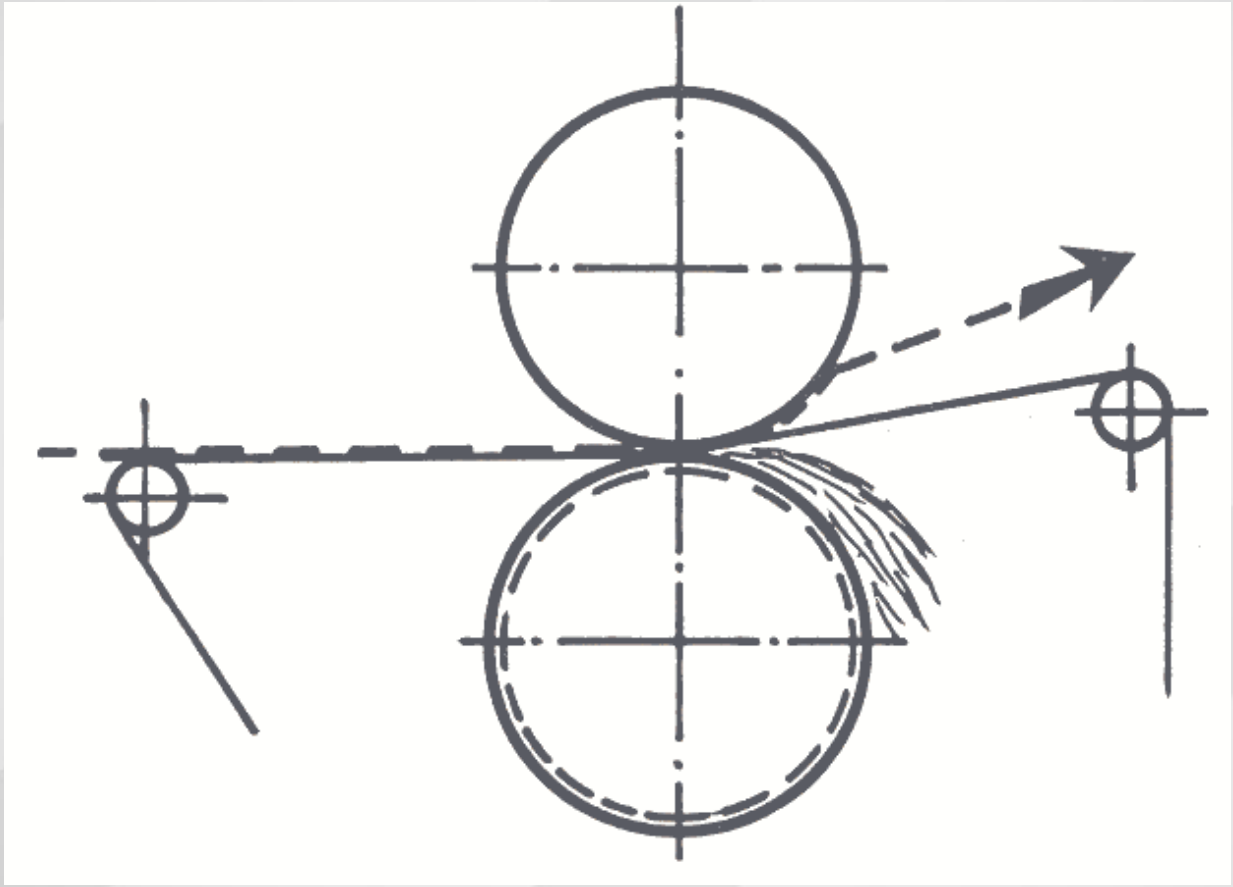
Effect of outgoing felt angle on adhesion of sheet to felt.

# *Press configurations*



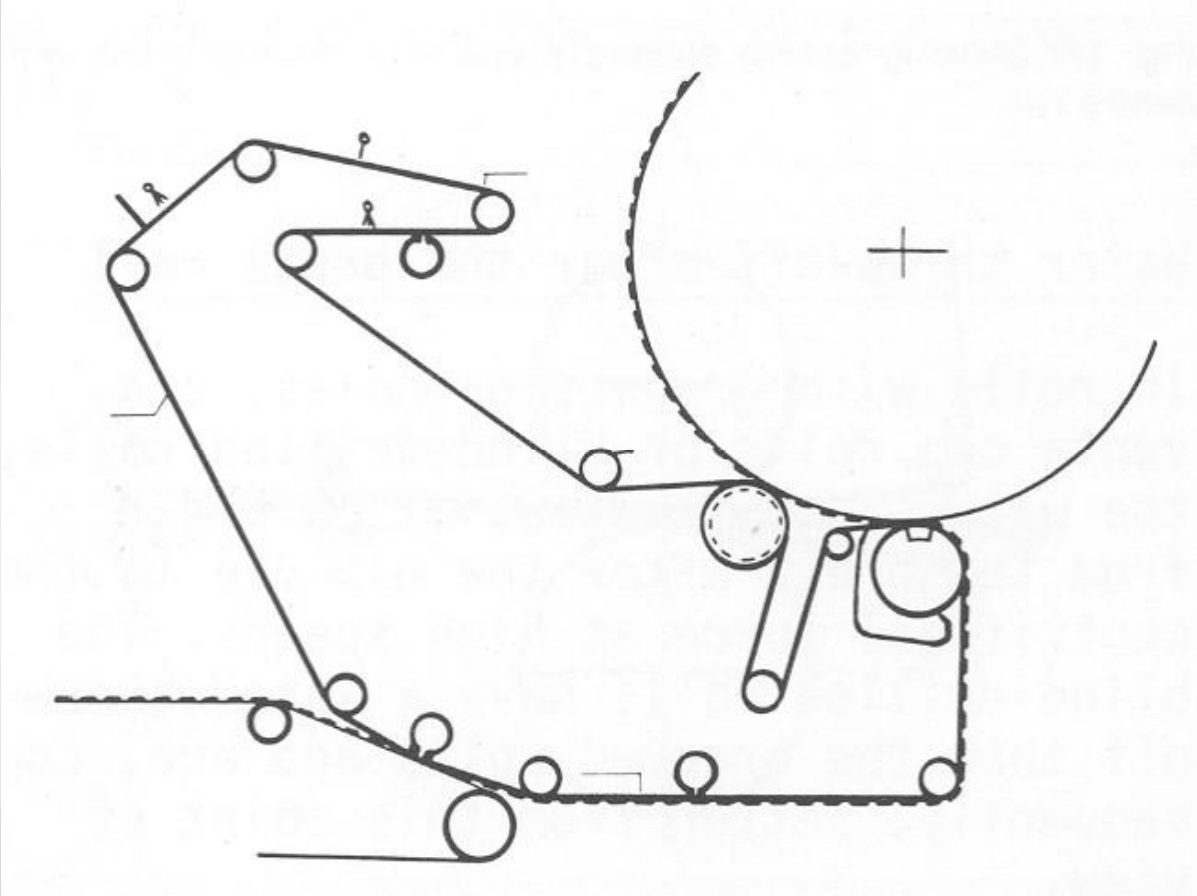

Blowing before second press in a double press with a centre roll

# *Press configurations*



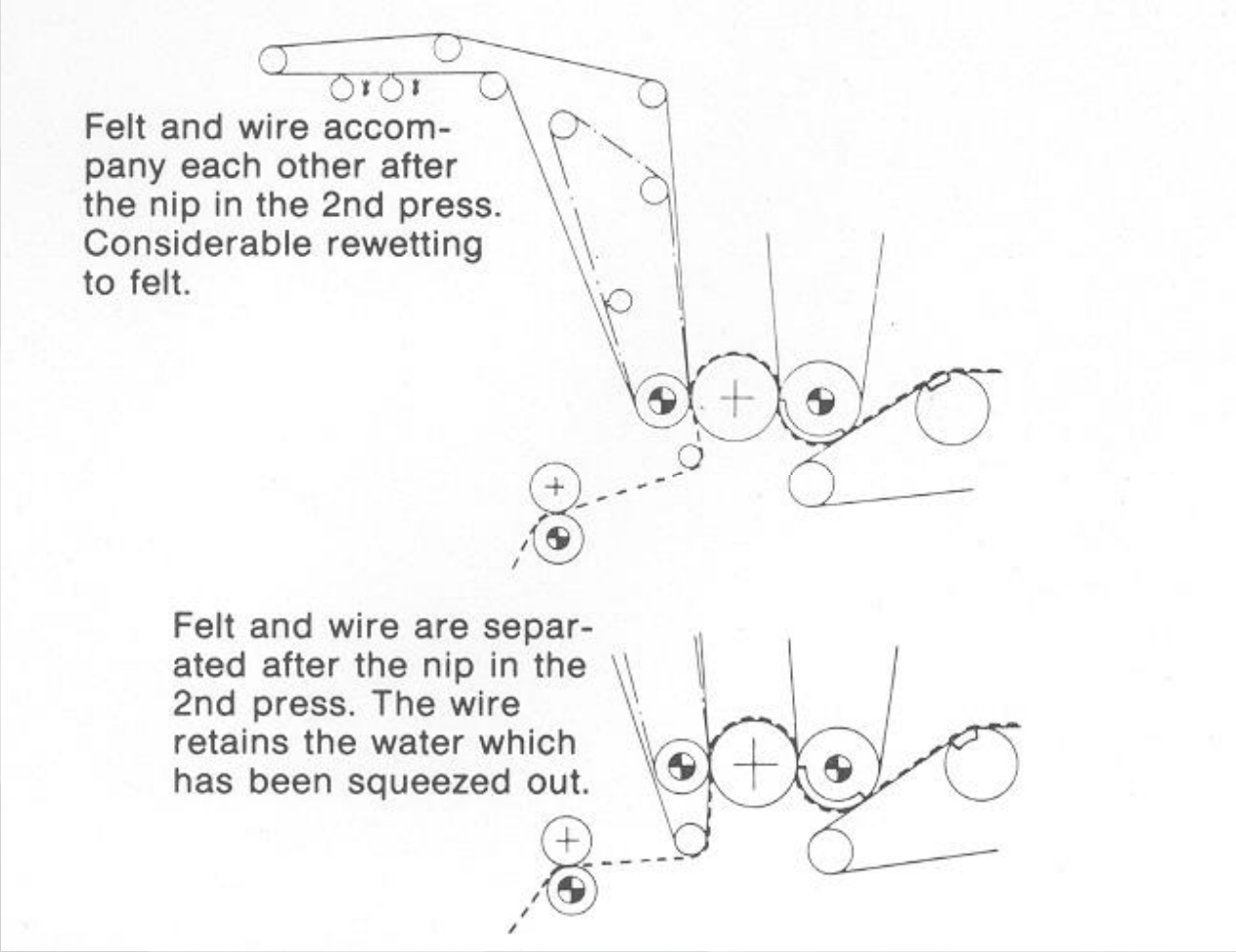
Felt run after grooved press to prevent water throw-off on felt.

# Press configurations



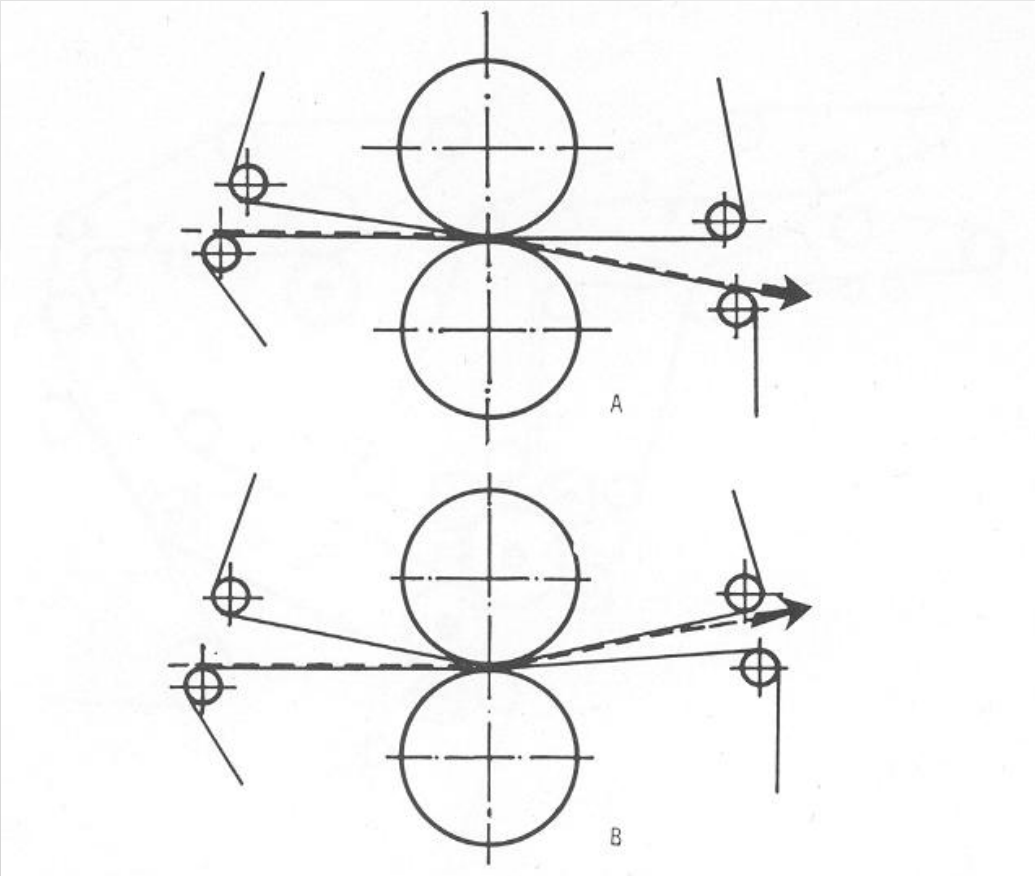
Suitable felt run after first suction hot-press (with short suction zone) to prevent water throw-off to felt

# *Press fabric run after 2nd press*



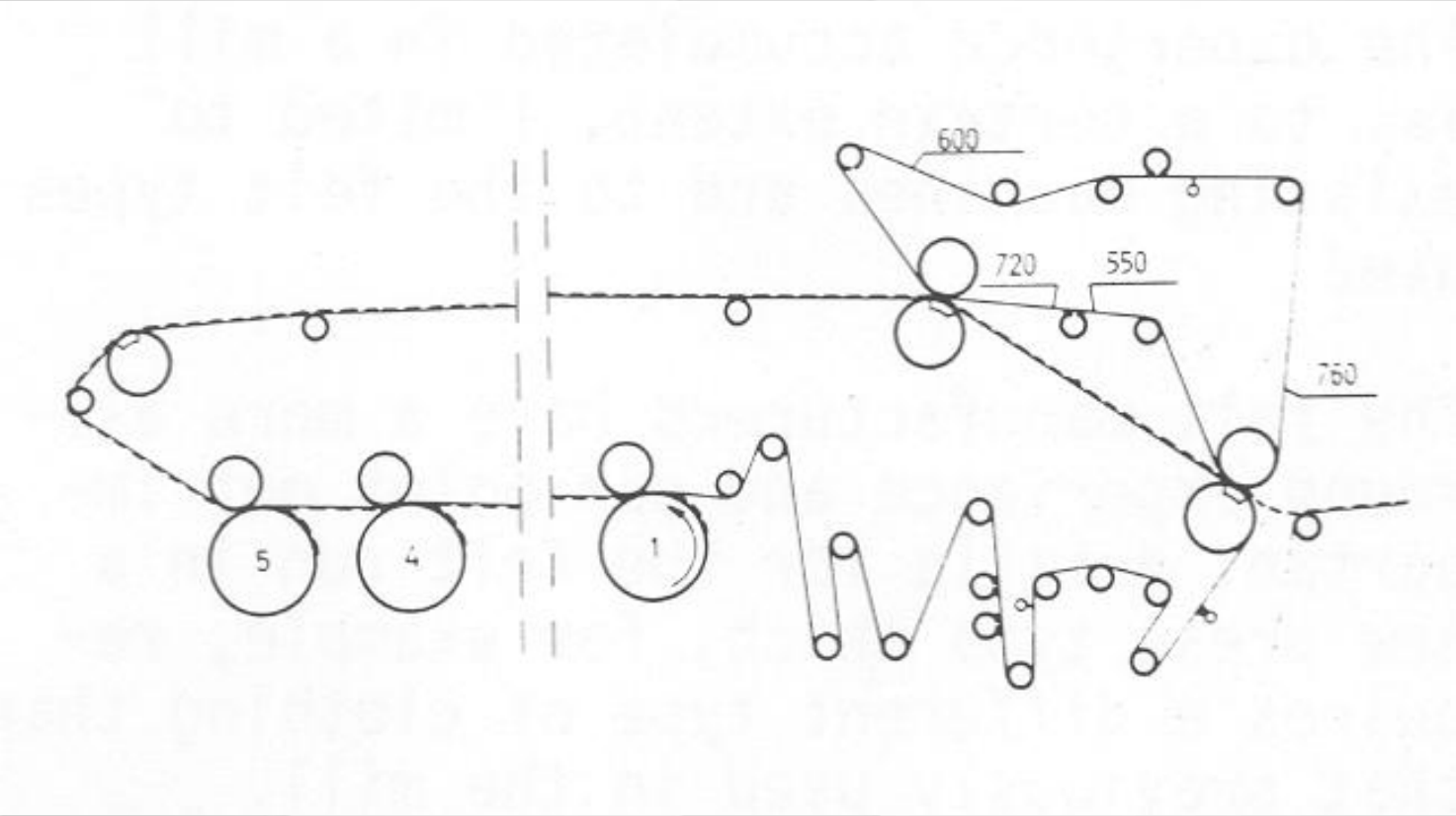

Felt and wire run in a second press

# Outgoing angle and double felted nip



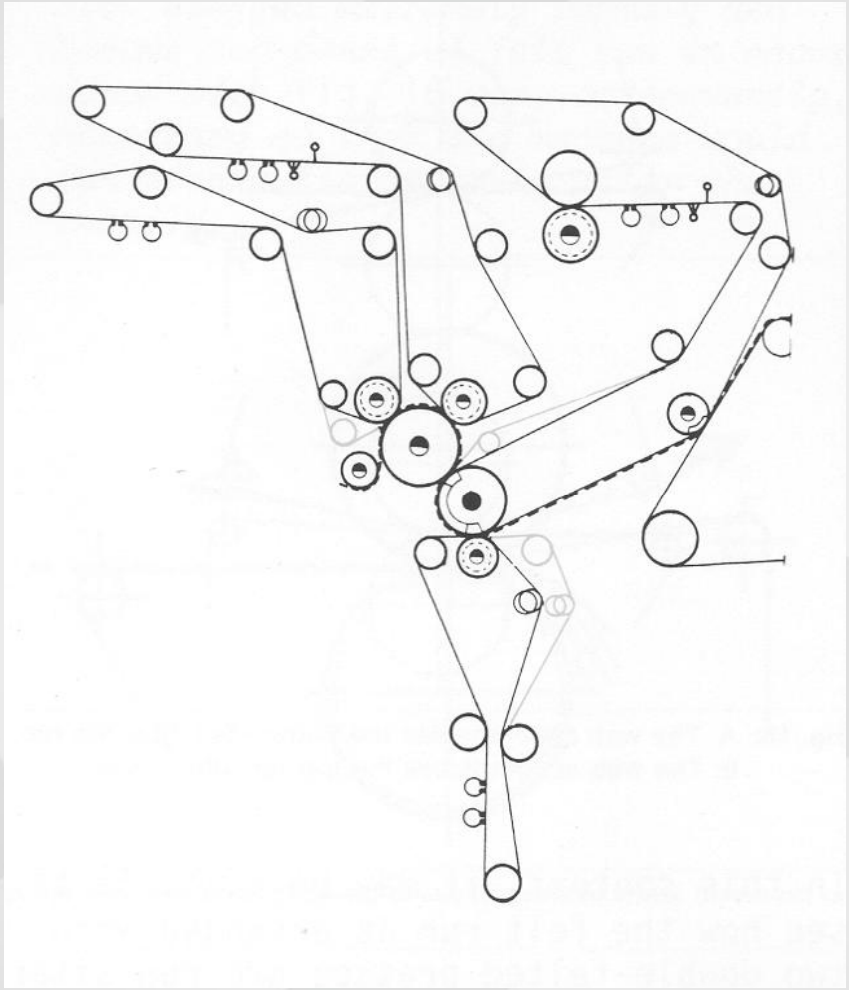

A- The Sheet accompanies the bottom felt after the nip
B- The Sheet accompanies the top felt after the nip

# Outgoing angle and double felted nip




Separation and dewatering of top felt between two presses.

# Outgoing angle and double felted nip



Recommended alteration to felt angles in high speed newsprint machines.