



CRC

for

Premium

Quality

Wool

Scouring Systems

Produced for the CRC for Premium Quality Wool undergraduate program by;
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Main Features

- **Scour medium**
 - aqueous
 - solvent
- **Scour vessels**
 - bowls
- **Wool Transport**
 - rakes
 - drums
 - conveyor belt
- **Applied Agitation**
 - squeeze rollers
- **Counter Current Flow**





Ancillary Features

- **Opening**
 - pre-scour
- **Blending**
 - before
 - after
 - Accumulator
- **Drying**
 - control regain
- **Recovery Systems**
 - water
 - solvent
- **Effluent Control**
 - separate
 - concentrate

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Scour Variables

- Detergents and Builders
- Temperature
- Water Quality
- Other Physical Variables
 - scour feed rate
 - wool mat thickness
 - wool transport
 - squeeze roller pressure
 - relative roller speeds
- Bowl Arrangement

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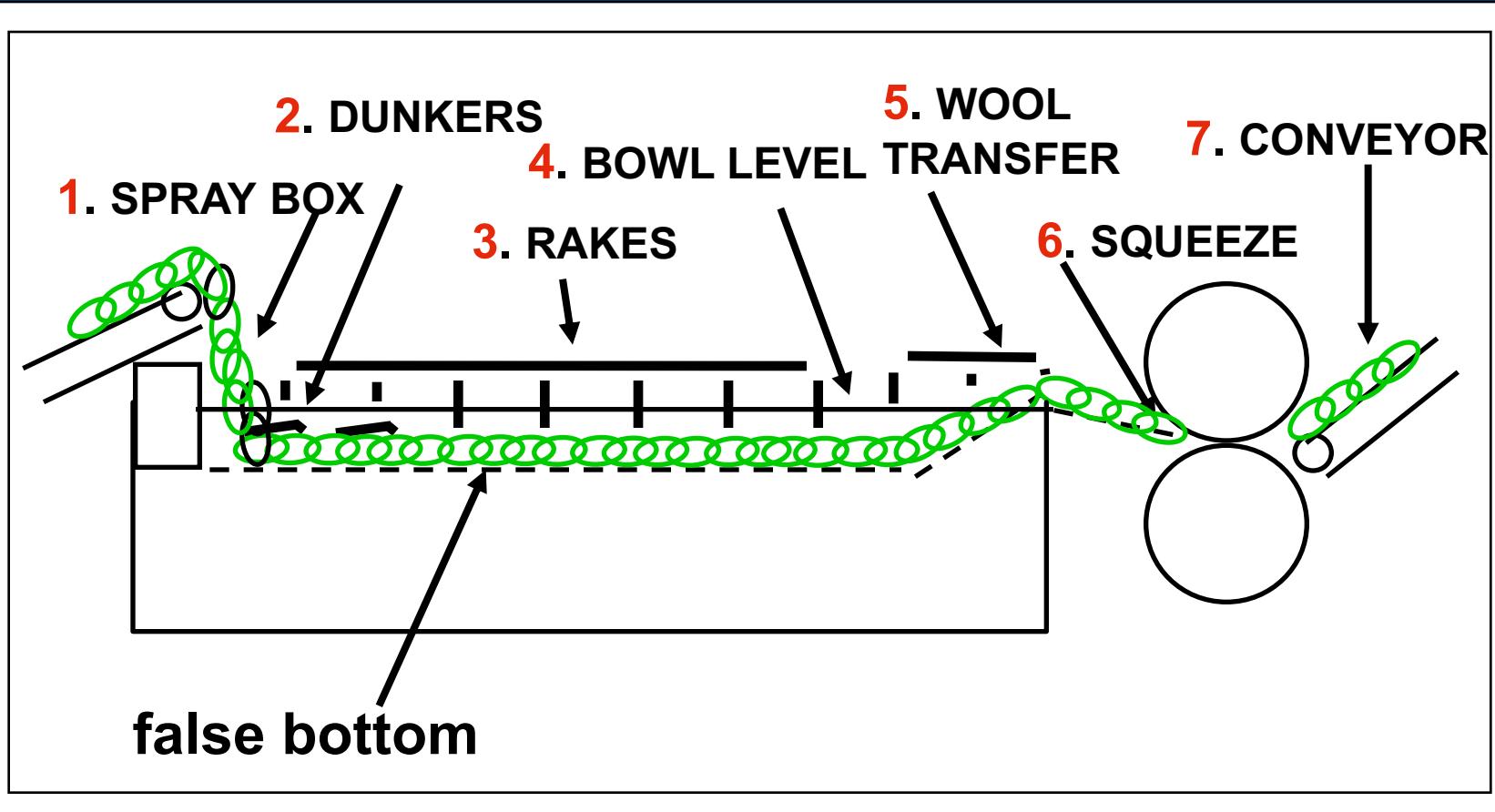
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Bowl Features



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Multi-Stage Scouring

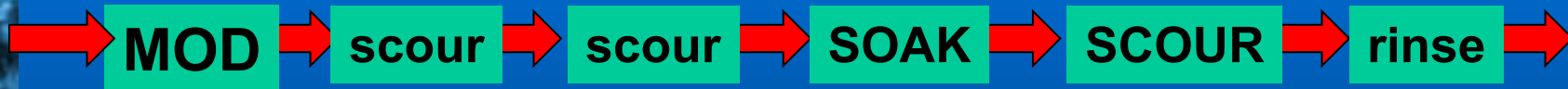
Conventional Hot



Conventional Suint



Modified Suint



MOD is modified suint bowl

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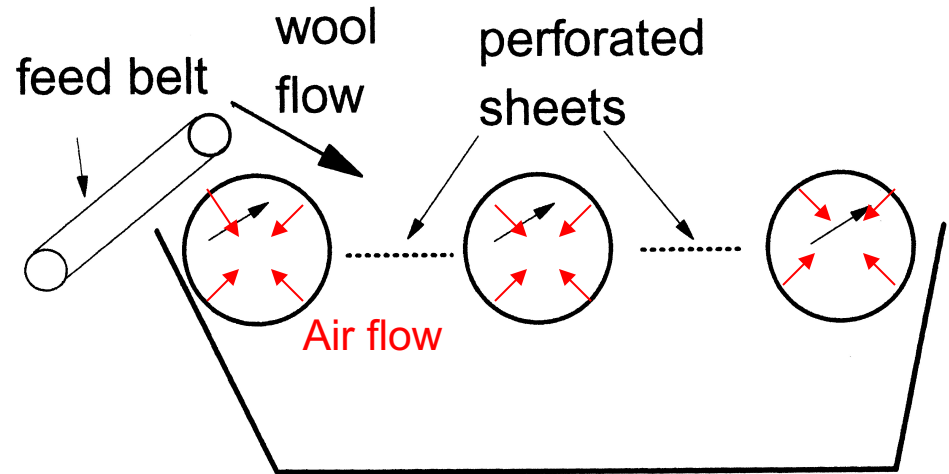
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Scour Examples

- Conventional
- Suction Drum
- Mini-bowl

Fleissner Drum Scour



WRONZ Mini-bowl

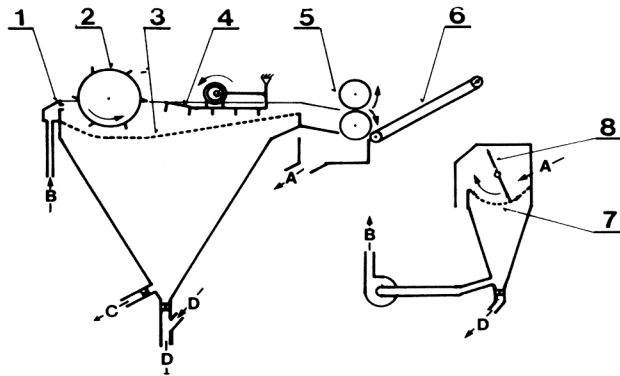


Fig. 37

WRONZ Mini-bowl.
 1 — jet box, 2 — dunker, 3 — woolway screen, 4 — headrake, 5 — squeeze rollers, 6 — transfer conveyer, 7 — side tank screen, 8 — flock removal. A-B liquor circulation in the bowl, C drawoff to HST, D flow to drain.

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References

- listed in Notes section

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