Runtech’s patented AirBlade™ technology improves sheet dryness and sheet profiles

AirBlade™ perfects doctoring on the grooved and suction rolls.

**The grooved roll** RSP AirBlade™ improves the grooved roll dewatering with a sharp and powerful air knife.

**The suction roll** RSE AirBlade™ improves the vacuum roll doctoring performance significantly. The natural foil effect is amplified with compressed air.

### BENEFITS

- Higher dryness
- Improved moisture profile
- Improved dewatering
- Longer felt life
- Cleaner roll
- Improved runnability

### RESULTS

- M-Real Kyrö PM3: 1.8 % improved dryness after the press
- UPM Tervasaari PM5: Improved moisture profile: 2-sigma value from 0.35 to 0.20
- Palm Wörth PM6: 35 % more nip dewatering and the felt total dewatering is 7 % higher
- Mondi Ruzomberok PM17: 80 m/min higher machine speed and 0.3 % -units less draw
- Smurfit Mengibar PM3: 1 % – 2 % higher dryness after the press with the shoe press Air Blade
**APPLICATION GUIDELINES**

- Press section with grooved and blind drilled rolls
- Wire and press section suction rolls
- Shoe presses with backing bar
- Recommended roll hardness < 20 P&J
- A hose loaded blade holder is recommended
- Loading pressure 50 – 200 N/m
- Compressed air consumption
  - 1.0 – 1.8 Nm³/min/meter
- Blade angle
  - RSP AirBlade™ – 21 degrees
  - RSE AirBlade™ – 23 degrees

**REFERENCES** - over 270 installations worldwide

- Burgo Verzuolo PM9 – 1st press grooved roll
- Delfort Dunafin PM9 – press suction roll and 2nd press grooved roll
- Domtar Hawesville PM2 –ouch roll and 1st press grooved roll
- Domtar Johnsonburg PM5 – suction transfer roll
- IP Cedar Rapids PM1 – shoe press
- IP Cedar Rapids PM2 – shoe press
- IP Mansfield PM1 – shoe press
- IP Springfield PM2 – ENP sleeve
- Mondi Ruzomberok PM17 – 1st and 2nd press grooved rolls
- Mondi Ruzomberok PM18 –ouch roll and 1st press grooved roll
- Mondi Stebi PM5 – 1st press grooved roll and press suction roll
- M-Real Kyro PM3 – 1st, 3rd and 4th press grooved roll
- NewPage Port Hawkesbury PM2 –ouch roll
- Ningbo Xiaogang BM6 – 1st press grooved roll
- OJI Tomioka N1 – 1st press grooved roll
- Palm Wörth PM6 – 1st and 2nd press grooved rolls
- Shandong Chemning PM6 – 1st press grooved roll
- Shandong Huatai PM8 – 1st press grooved roll
- Smurfit Kappa Mengbary PM3 – shoe press
- Stora Enso Kaukopää PDM –ouch and 1st press grooved roll
- Stora Enso Maxau PM6 – 1st and 4th press grooved rolls
- Stora Enso Maxau PM7 – 1st and 4th press grooved rolls
- Stora Enso Vettiluoto PM1 – shoe, press suction and 1st and 3rd press grooved rolls
- Suzano Bahia Sul PDM – 1st and 2nd press grooved rolls
- Thai Paper PM2 –ouch roll
- UPM Steyrermühl PM4 – 1st press grooved roll
- Varel BM5 – extractor press
- Weyerhaeuser Longview – press suction roll
The tube loaded carbon composite blade holder means easy maintenance and trouble-free operation

**Runtech Systems** state of the art composite manufacturing technology provides a solution for challenging doctoring positions.

**Doctoring** is a basic operation in paper and board making which is often taken for granted. The CompoAdapt™ composite holder is designed to be installed on existing steel doctor beams, as well on the newest generation of Runtech CompoDoc™ full carbon composite doctor beams.

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**FEATURES**

- Light carbon composite construction
- Uni-directional carbon composite top plate
- Robust design – suitable for sheet knock down positions
- No heat expansion
- Specially designed for composite doctor beams but can also be used with conventional steel doctors

**BENEFITS**

- Easy maintenance and handling, including blade changes
- Excellent conformability across the machine
- Easy to install and keep clean
- Designed to effortlessly facilitate the replacement of conventionally hose loaded (DST) holders with CompoAdapt™

**APPLICATIONS**

- All sheet knock down positions
- Breast roll
- Press rolls
- Drying cylinders
- Calender rolls
- Reel
- Guide rolls
CompoAdapt™

Typical pneumatic drawing

REFERENCES - over 150 units sold

- AHL Rottersac PM1 – 4 pcs
- Arctic Paper PM1 – 2 pcs
- Domtar Johnsonburg PM5 – 1 pcs
- Domtar Marlboro PM1 – 4 pcs
- Dunafin PM9, Hungary – 3 pcs
- Hamburger Pitten PM4 – 15 pcs
- Hamburger Dunaújváros PM7
- Kemiartliners – 2 pcs
- Kreuzau PM3 – 3 pcs
- Madison Paper PM3 – 2 pcs
- Mondi Stevi PM5 – 3 pcs
- NewPage Porthawksbury PM1 – 1 pcs
- NewPage Porthawksbury PM2 – 2 pcs
- Propapier PM1 – 1 pcs
- SCA Ortviken PM4 – 4 pcs
- SCA Ortviken PM5 – 4 pcs
- Stora Enso Hylte PM4 – 2 pcs
- Stora Enso Kotka PM1 – 3 pcs
- Stora Enso Kvarnsveden PM11 – 2 pcs
- Stora Enso Kvarnsveden PM8 – 2 pcs
- Stora Enso Veitsiluoto PM1 – 7 pcs
- UPM Caladonia PM1 – 2 pcs
- UPM Chapelle PM3 – 5 pcs
- UPM Kaipola PM7 – 1 pcs

CompoAdapt loading graph
(with 50 kPa Opening Pressure)

SPARE PARTS

- P12016 Top Plate
- P12017 Spare Hose Kit