

# REVOLUTION™ Air Turn



*Non-contact web path control device used in place of rollers in web processing.*



**M**EGTEC's REVOLUTION™ non-contact air turn allows you the ability to turn a flexible web without damage to the coating or the web. It consists of a pressurized air chamber with a perforated radial surface matching the desired web path. The resulting cushion of air supports the web at a consistent distance from the face, with turn angles up to 300 degrees. The unique semi-circular design is engineered to reduce pressure requirements and air spillage, resulting in energy savings and lower noise levels. The air can also be heated to provide drying or curing.

*The bottom line is process knowledge*

# REVOLUTION™ Air Turn

## Performance

- Web path wrap angles from 15° up to 300°
- Fully non-contact web handling with typical web flotation clearances ranging from 1/8 to 1/4"
- Can handle webs prone to edge curl
- Patented\* air jet pattern minimizes air consumption and blower sizes
- Handles paper, films, foils and non-wovens with low air permeability

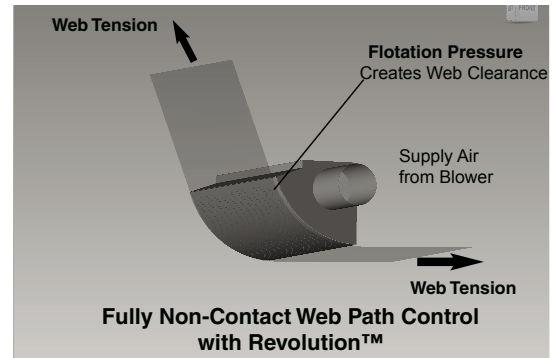
## Applications

- Non-contact web path guiding for web processing lines in place of idler rollers
- Web path from coater to dryer allows turning on the coated side
- Reduces scratches on sensitive web materials
- Available for web cooling or heating processes
- Control of web path inside ovens
- Festoon dryers and ovens

## Optional Features:

- Web tension signal for web tension indication or control
- Auto-clearance control of flotation
- Non-stick or hard surface finishes for easy cleaning
- Edge deckling for varying web widths
- Air cap over convex face for air capture and/or enhanced heat transfer

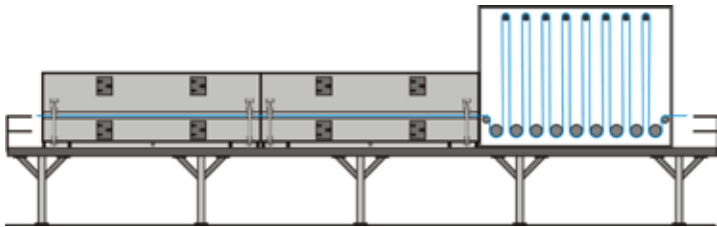
\*US Patent No. 6505792



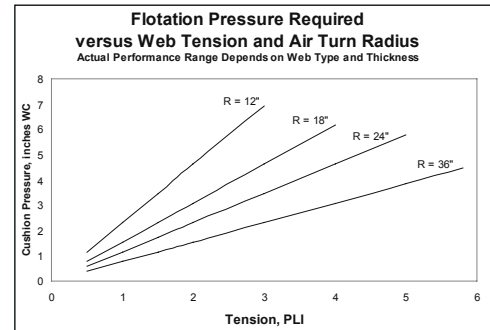
Basic principle of Revolution™ Air Turn



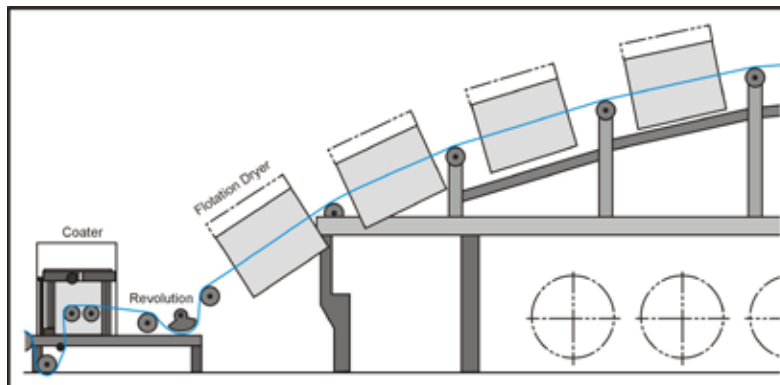
Fully non-contact flotation clearance ensures mar-free handling of web.



Festoon arrangement provides non-contact throughout thermal curing or drying of sensitive webs or coating even with long dwell time requirements.



Selections of Air Turn radius is based on weblines tension and range of operating conditions.



Ability to turn the web path even on the web's coated side provides unique solutions to the line layout which are not possible with idler rollers.