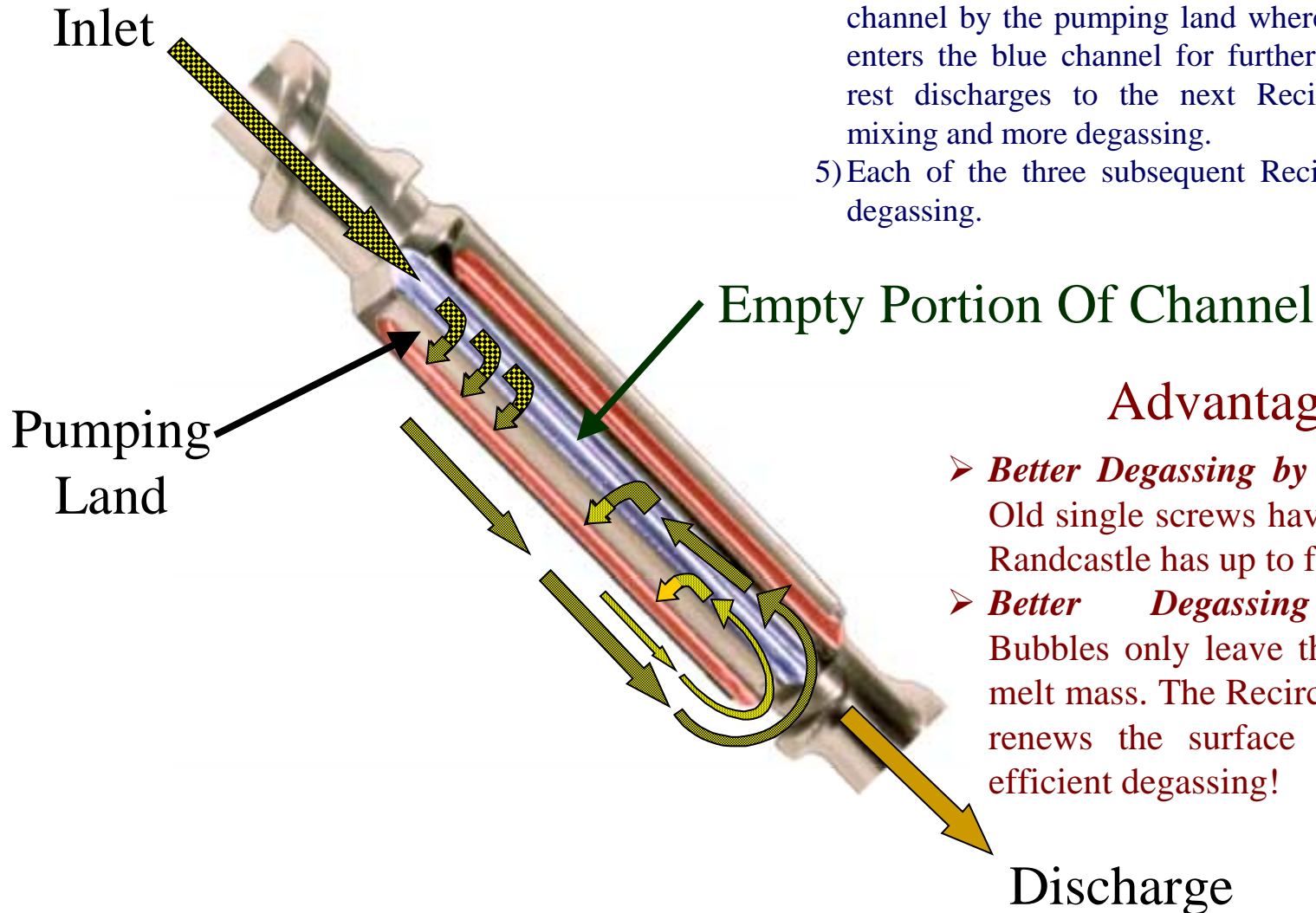


How Each Venting Recirculator Works

New Venting Mechanism

- 1) Gas, represented in black, enters the Recirculator inlet.
- 2) The pumping land drags material from the channel to empty it.
- 3) A vacuum is applied through the barrel vent at the empty portion of the channel to reduce the gas content.
- 4) The partially degassed material is pumped into the red channel by the pumping land where some material re-enters the blue channel for further degassing and the rest discharges to the next Recirculator mixer for mixing and more degassing.
- 5) Each of the three subsequent Recirculators continues degassing.



Advantages

- **Better Degassing by Multiple Vents:** Old single screws have one vent while Randcastle has up to four.
- **Better Degassing Mechanism:** Bubbles only leave the surface of the melt mass. The Recirculator constantly renews the surface for much more efficient degassing!