

# Monoaxial Machine Direction Orientation MDO Service

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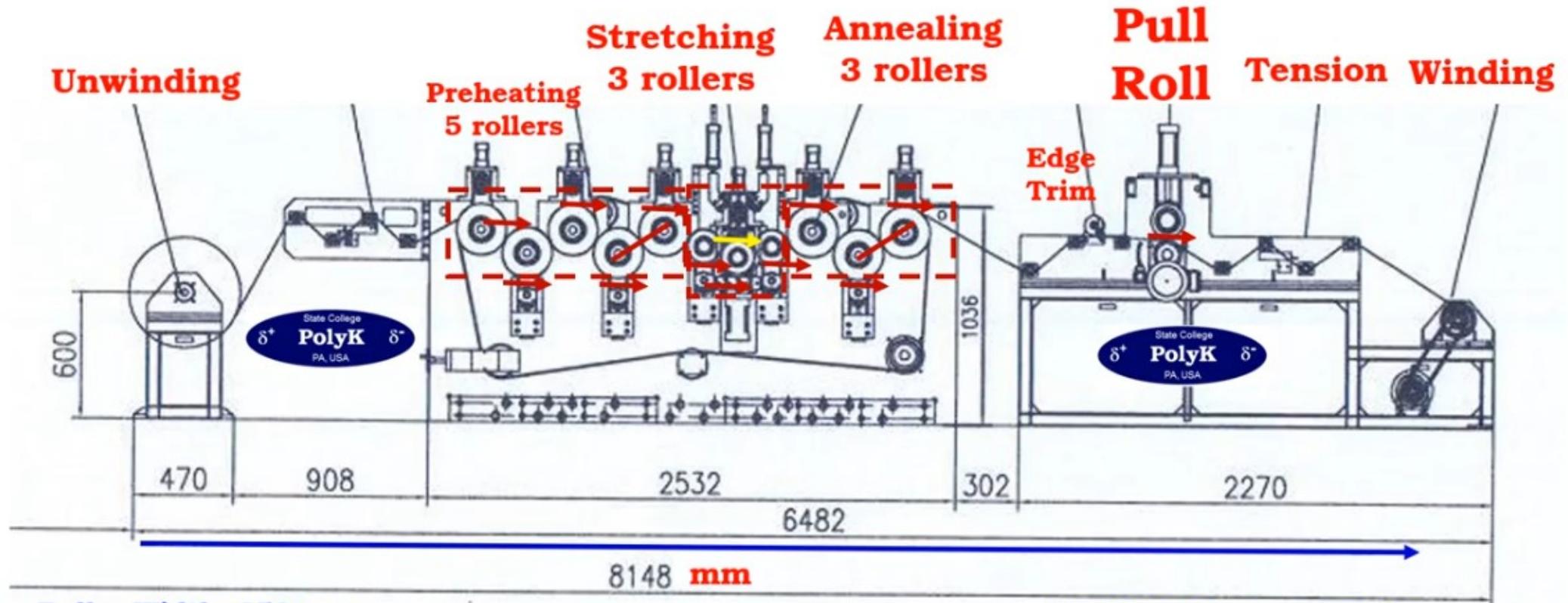
1. Three MDO machines for daily lease to support your product development, flexible schedule, reasonable cost, and experienced operators.
  - A. Lab scale, 500 mm wide roller, five rollers with independent motor speed control, slow speed for R&D
  - B. Pilot scale: 650 mm wide roller, 11 rollers with 9 motors, up to 5 m/min before stretching, 20 m/min after stretching. Multi-stage orientation
  - C. 1000 mm wide, six rollers with individual motors.
2. Other plastic film machines:
  - A. 700 mm wide film extruder with in-line Scantech X-Ray thickness monitor
  - B. 300 mm wide sheet extruder
  - C. Slitting/rewinding machines up to 1000 mm wide



# Schematic of PolyK MDO

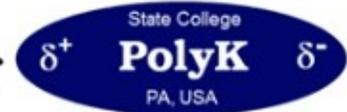
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- 1-2, 3-4, 5-7, 6-8, 9-10 shares oil heater (up to 250 C)
- 4-5 share one motor, 10-11 rollers share one motor
- 6/7/8 has diameter 160 mm (stretching rollers)
- Roller 1-5 speed limit 2 m/min, 6-11 up to 20 m/min



- Roller Width: 650 mm
- Diameter: 160 mm for stretching rollers
- Diameter: 240 mm for other rollers
- Line Speed: 5 m/min before stretching, 20 m/min after

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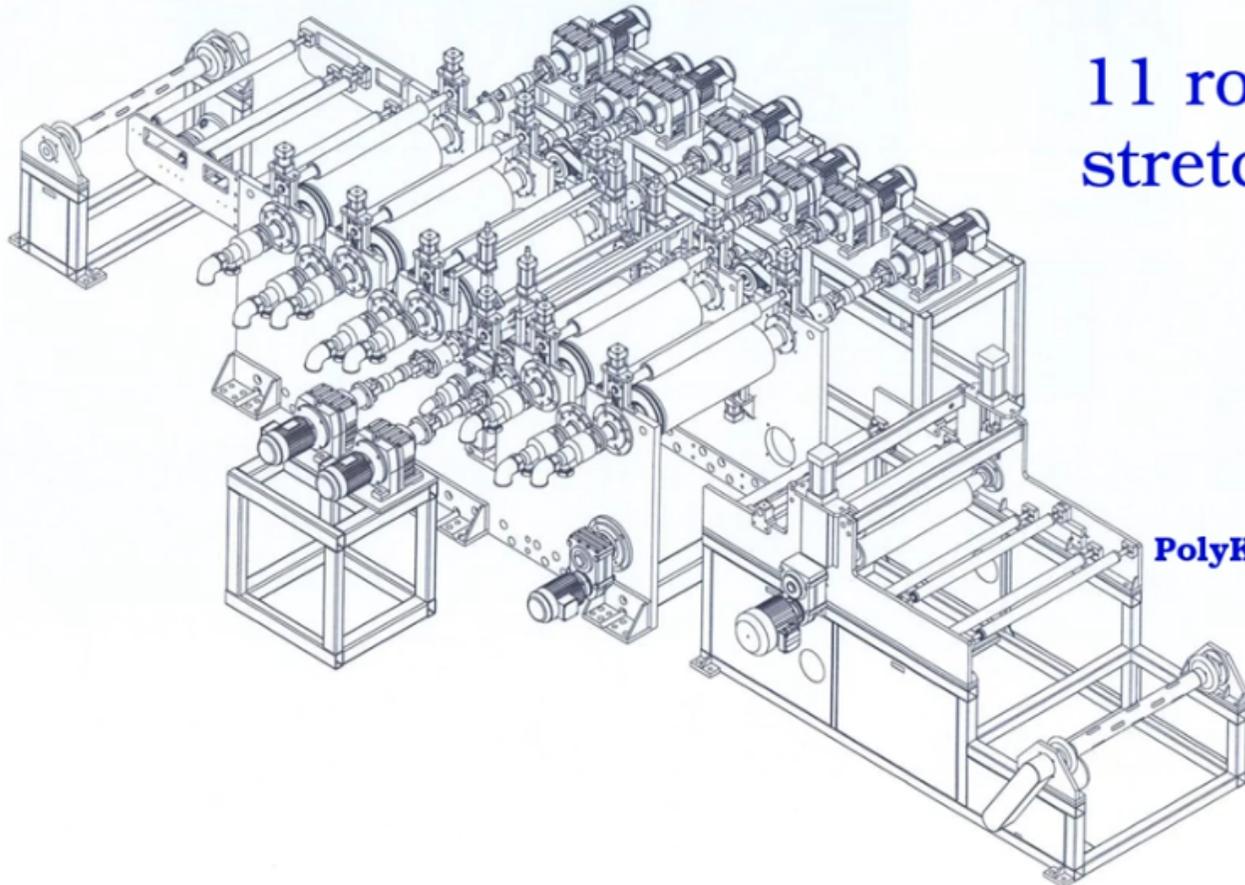


1. Preheating 1, 2, 3 roller: each with 1.1 kW motor
2. Preheating 4 and 5 share one 1.5 kW motor
3. All five preheating roller: (240 mm diameter 650 mm width)
4. Three stretching roller (159 mm diameter 650 mm width): 2.2 kW each motor, individually controlled.
5. 3 annealing rollers: (240 mm diameter 650 mm width), A1 is driver by a 1.5 kW motor, A2/A3 share one 1.5 kW motor
6. Easy to modify (adding more oil heaters)

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11 rollers, multi-stage stretching

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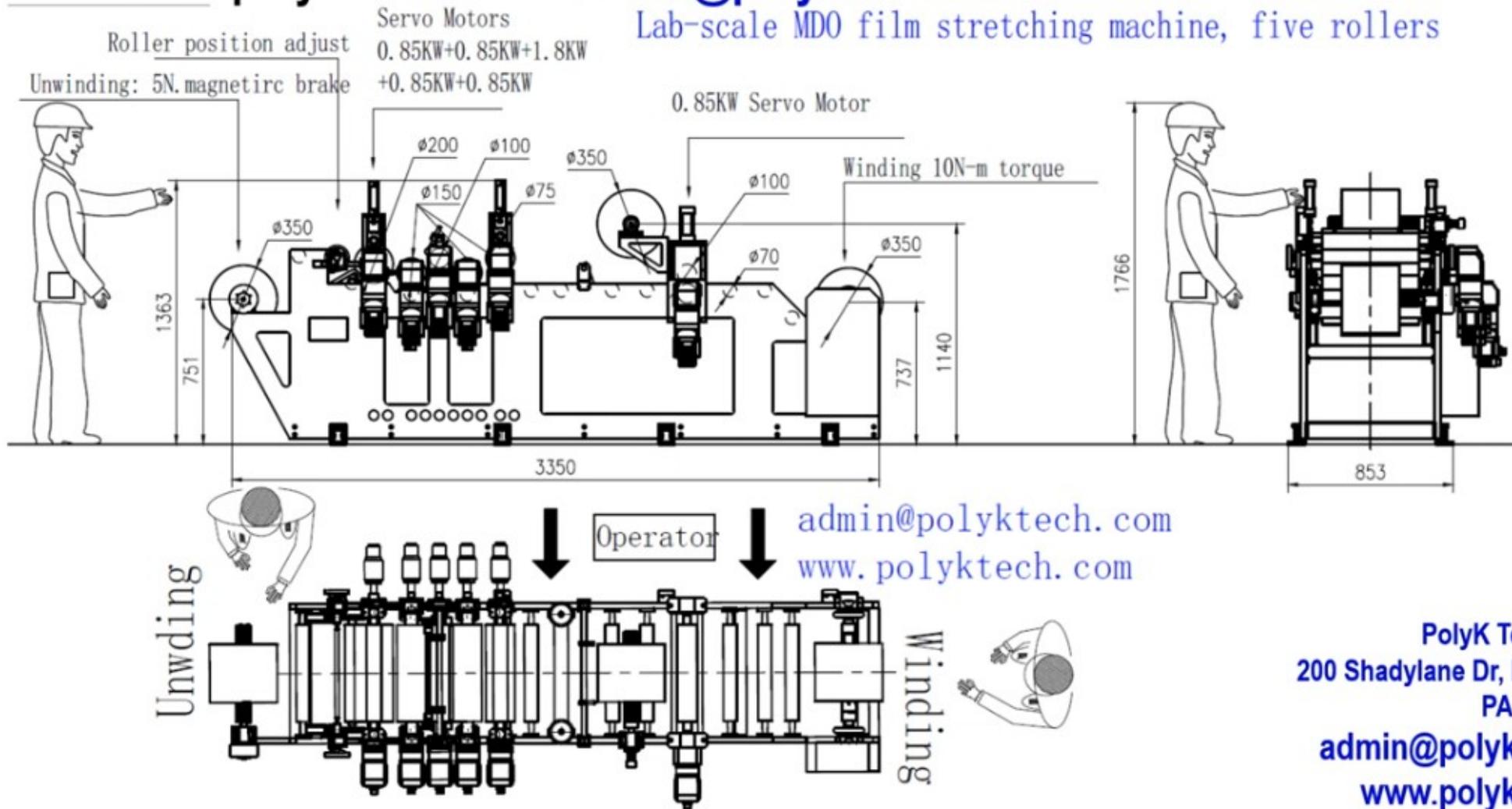
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# Lab-Scale Machine Direction Orientation MDO Service



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Lab-scale MDO film stretching machine, five rollers





# 700 mm Wide Plastic Film Extrusion

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# 300 mm Wide Plastic Sheet Extrusion

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1000 mm Wide Slitting-Rewinder with Edge Tracking



## Contact Us for More Information

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**Flexible Schedule, Reasonable Cost, &  
Experienced Operators**

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