

NEW

LAB TECH ENGINEERING
COMPANY LTD

MEET LABTECH'S
SINGLE-SCREW
RECYCLING EXTRUDERS

MARK II SERIES

SPECIAL

Professional
Quality at
Affordable
Prices



FASTER
DELIVERY
TIMES

MODERN
LEAN
DESIGN

FULL
WARRANTY
INCLUDED

NEWSLETTER

JUNE 2025

NEW LABORATORY SCIENTIFIC

SINGLE-SCREW RECYCLING EXTRUDERS MARK II

Recycling is crucial for reducing landfill waste, conserving resources, and minimizing pollution, playing a key role in sustainability. Labtech Engineering is committed to this effort, introducing our innovative Single-Screw Recycling Extruders. These versatile machines seamlessly integrate with Labtech's downstream pelletizing, blown film, cast film, and filament extrusion lines, offering unmatched flexibility for your recycling needs.

SINGLE-SCREW RECYCLING EXTRUDERS MARK II

TYPES LREX16-25/MARK II AND LREX16-30/MARK II

Our Single-Screw Recycling Extruders are engineered to meet the demands of modern recycling, offering a blend of compact design, cost-effectiveness, and superior material processing capabilities.

- **Compact and Space-Saving Design:** Ideal for QC labs, R&D centers, and academic research studies in universities.
- **Cost-Effective Operation:** Low material and power consumption, perfect for small-scale sample processing.
- **Efficient Processing:** Capable of handling various recycled plastic materials such as PET, LDPE, PP, etc.
- **High Channel Depth at Feed Zone:** Enhances material intake capacity, particularly beneficial for low-density recycled plastics with a high volume-to-mass ratio, preventing material bridging or clogging.
- **Precise Temperature Control:** Ensures optimal material processing and minimizes degradation throughout the extrusion process.
- The optional L/D 30 is specifically designed for mixing recycled materials with mixed colors, where the longer L/D ratio provides sufficient time for thorough mixing.



TECHNICAL SPECIFICATIONS

| RECYCLING SINGLE-SCREW EXTRUDERS MARK II | | LREX16-25/MARK II | LREX16-30/MARK II |
|--|------------------------|--------------------------|--------------------------|
| Screw Diameter | | 16 mm | 16 mm |
| L/D Ratio | | 25:1 | 30:1 |
| Max Screw Speed | | 150 RPM | 150 RPM |
| Drive Motor Power | | 2.2 kW | 2.2 kW |
| Max Barrel Temperature | | 300 °C | 300 °C |
| Maximum Output | For Strand Pelletizing | 3-4 kg/hr (R-HDPE flake) | 3-4 kg/hr (R-HDPE flake) |
| | For Cast/Blown Film | 2-3 kg/hr (R-HDPE flake) | 2-3 kg/hr (R-HDPE flake) |

