

I-Flex® Flex Lip



Brampton Engineering

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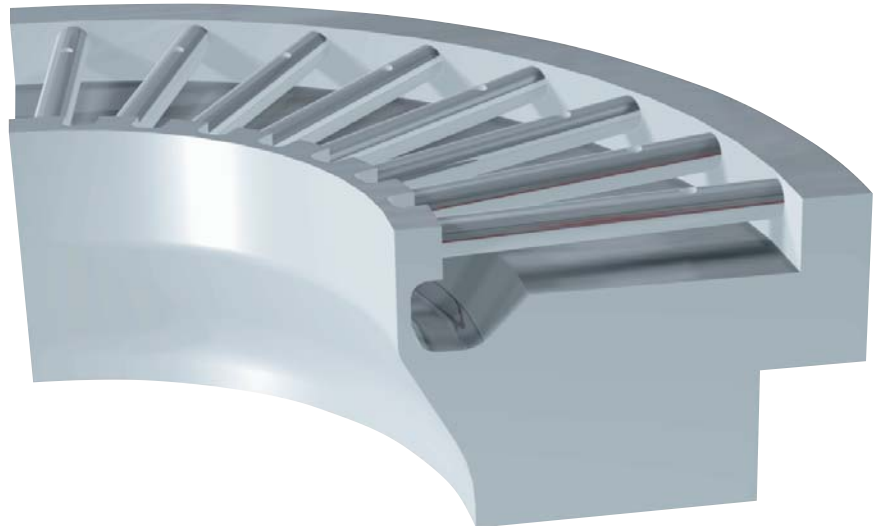
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Quality: Brampton Engineering Inc. World Headquarters continues to meet the ISO 9001 standard which covers design, manufacture, assembly, installation and service of our products.

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With Brampton Engineering I-Flex lip, blown film processors can produce film with minimal gauge variation while maintaining the desired properties. This precise gauge control method allows processors to save on material costs and to produce superior quality film. The I-Flex provides effective gauge control at every output rate. The I-Flex lip is Ingenious and Intelligent and provides Immediate results – film with consistent gauge.

Method of operation

The I-Flex lip uses sensor head(s) to continuously measure the film gauge. The film thickness signal, coupled with the oscillating haul-off reference position produces a gauge plot that is precisely registered to actuator positions on the I-Flex lip. Using this gauge plot, a rapid response algorithm determines what gauge adjustment is required. Mechanical actuators then physically distort the die lip (push or pull) at any one of the actuator locations. There is an average of one actuator per inch (25mm) of die lip circumference. The I-Flex lip provides direct and reliable gauge control.

Distinguishing Features

- Maintains effective gauge control independent of throughput rate
- Maintains thermal and rheological properties of the melt which is sensitive to heating or cooling – especially important for sophisticated coex structures
- Fast response time
- One control zone per inch (25mm) of die circumference
- Proprietary control system
- Reliable, controllable, robust.

Performance

I-Flex will improve gauge variation to half its original values. Ask us about results from customer trials.

The I-Flex can be retrofitted on any Brampton Engineering die and can be used in conjunction with air rings and internal bubble cooling systems.