



Superior redesign with 3640 holes yields a more compact and productive VSI spiral lattice basket die with proven benefits

Characteristics

The American Maplan VSI die is used for the extrusion of multiple PO pipe products and is distinguished by its flexibility and variability. The die is based on a two-stage distribution concept consisting of a smoothing thread and spiral lattice basket.

Accessories

American Maplan also provides optional equipment to support maximum performance from the VSI head including carts for pipe head support, thermal die centering and separator blocks. For the dual line, striping and co-extrusion tooling is available.

Advantages:

- Good homogenization from the two-stage distribution concept, consisting of a smooth-out thread and a compact lattice basket
- Low pressure build-up and low melt temperature, even at high throughputs
- Large processing window even with changing material viscosities
- Consistent product quality at all pipe diameters
- Better wall control than previous heads
- Faster color change than previously offered lattice basket heads

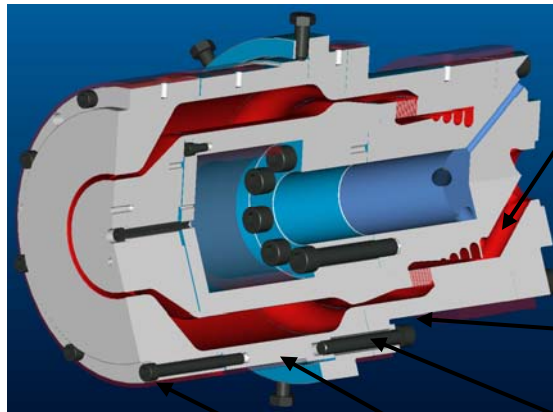
Polyolefin Pipe VSI Extrusion Head *Large Diameter*

Standard Features:

- Highly compact tool design
- Excellent wall thickness control
- Faster color change than previous lattice basket heads
- Relatively short flow paths from the extruder to the die exit

Optional Accessories:

- Carts for pipe head support
- Thermal die centering
- Separator Blocks for dual extrusion
- Co-extrusion tooling
- Striping tooling



The VSI die yields a highly productive result

**Spiral mandrel
Preliminary
distribution**

**Lattice basket
Final distribution**

Compression zone

Relaxation zone

Short die set

Technical data

Heads	PO 630 VSI	PO 800 VSI	PO 1000 VSI	PO 1200 VSI	PO 1400 VSI	PO 1600 VSI
Throughput [kg/hr]	1500	1500	1500	1500	1500	1500
Maximum Pipe Diameter [mm]	630	800	1000	1200	1400	1600
Minimum Pipe Diameter [mm]	160	250	400	500	630	630
Maximum Heating Zones (head)	18	19	12	27	30	24
Maximum Heating Zones (die set)	4	7	10	8	10	10
Heating Capacity [kW]	58.5	109.8	83	186	200	220
Weight (w/o die set) [kg]	3000	5500	5500	14,000	17,000	18,000

In the interest of continuing development, we reserve the right to amend any specification without notice.



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