extrex® GPD

Twin gear pump for complex extrusion processes

The extrex® GPD (general purpose twin gear pump) combines optimally economic and operating efficiency for extrusion lines. An extrusion line fitted with Maag’s newest pump will be capable of running two completely different die head assemblies with distinct throughput and pressure ratings to produce high quality products. The individual output and tool pressure is by design ensured and adjustable.

Your benefits
- Simplified system design of extrusion lines for the production of multi-layer films with variable layer structure
- Improved throughput stability during use of multiple nozzle heads in profile extrusion lines
- Short residence times
- Compact design
- Excellent self-cleaning properties
extrex® GPD
for complex extrusion processes

A range of typical pumping media
- Polyolefines
- Polysters
- Polyamides
- Polycarbonates
- Styrene polymers
- Expandable polystyrene
- ABS/SAN
- Fluoro polymers
- TPE
- Other polymers upon request

Accessories
- Base and base frame
- Adapter flange
- Sensors
- Controllers, expac® complete solutions
- Drives

Options
- Defined tolerance classes
- Liquid heating with interconnecting holes
- Fusing pressure/temperature sensor holes in housing
- Choice of materials for every application
- Cooling for shaft seals
- Special seal types

Maag’s new extrex® GPD twin gear pump reduces complexity while lowering investment costs.
Now only one extruder equipped with the new extrex® GPD twin gear pump is required to replace two smaller extruders thus reducing overall capital expenditure and labour costs. As well, it also reduces potential downtime at operations running only one extruder and switching between processes.
The pump is now available for new installations but can also be ordered as a retrofit. Depending on the requirements electric or fluid heating is available, as well as special materials.

Theoretical conveying capacities:

<table>
<thead>
<tr>
<th>Applications</th>
<th>Polypropylene</th>
<th>Polyethylene</th>
<th>Polyester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density [g/cm³]</td>
<td>0.73</td>
<td>0.75</td>
<td>1.15</td>
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</table>

<table>
<thead>
<tr>
<th>extrex® GPD</th>
<th>Specific volume</th>
<th>Maximum capacity in kg/h at viscosities of</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump size [cm³/rev]</td>
<td>200 Pas</td>
<td>5,000 Pas</td>
</tr>
<tr>
<td>28</td>
<td>2x10.2</td>
<td>262</td>
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<tr>
<td>36</td>
<td>2x25.6</td>
<td>558</td>
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<tr>
<td>45</td>
<td>2x46.3</td>
<td>872</td>
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<td>56</td>
<td>2x92.6</td>
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<td>70</td>
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<tr>
<td>90</td>
<td>2x371</td>
<td>4,456</td>
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</table>

Global contacts, see www.maag.com
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