OVERVIEW

- ESCO’S FFH SYSTEM OVERCOMES THE CHALLENGES OF COSTLY BULK STORAGE AND PRE-BLENDING FACILITIES ALONG WITH THE PROBLEMS OF SETTLING, VISCOSITY INCREASES, SEPARATION AND AGGLOMERATION WHICH HAVE ALL CONTRIBUTED TO THE LIMITS OF BATCH BLEND SYSTEMS. FILLERS ARE METERED AND MIXED CONTINUOUSLY WITHOUT BATCHING.

BLENDING ADVANTAGES

- SHEAR RATE INDEPENDENT OF FILLER FEED RATE INSURES COMPLETE AND THOROUGH MIXING
- FILLER RATIOS CAN BE CHANGED ON THE FLY
- BLENDS OF FILLERS CAN BE UTILIZED
- FILLER TYPES CAN BE CHANGED ON THE FLY
- HIGH FILLER RATIOS ARE POSSIBLE
- TOTAL OUTPUT RATES CAN BE CHANGED ON THE FLY WITHOUT ALTERING FILLER RATIO
- LIMITED RESIDENCE TIME PREVENTS SEPARATION, AGGLOMERATION, AND TIME FOR FILLER TO REACT ADVERSELY WITH THE LIQUIDS
- MINIMUM PARTICLE DAMAGE
- VIRTUALLY ANY FREE FLOWING FILLER HAS THE POSSIBILITY OF USE IN THE FFH

MIXHEAD MODEL FEATURES

- CAPABLE OF HANDLING MULTI-COMPONENT LIQUID STREAMS
- POLYURETHANES, EPOXIES, AND POLYESTERS CAN BE PROCESSED
- CAN BE USED AS A PRE-BLENDER OR FINAL MIXER, BUT THERE’S NO NEED TO PRE-BLEND; THE FILLER FED MIX HEAD IS DESIGNED FOR INCORPORATING A WIDE RANGE OF SOLID FILLERS DIRECTLY INTO MULTI-COMPONENT SYSTEMS
- ONE OR TWO FILLER STREAMS CAN BE PROCESSED
- EACH CHEMICAL STREAM HAS ITS OWN RECIRCULATION/CALIBRATE VALVE AT THE HEAD

NOMINAL OUTPUT RATES

- 5-400 LBS/MIN [DEPENDING ON RATIO + FILLER BULK DENSITY]

OPTIONAL FEATURES

- OPTIONAL COMPUTER CONTROL STORES RECIPE FOR EASY SET-UP
- FLOW METER CONTROL ON PUMP DRIVES IS ALSO AVAILABLE
- ESCO TAILORS THE SYSTEM TO MEET YOUR NEEDS
### MIXHEAD MODEL

**MIXHEADS**

**OVERVIEW**

-ESCO mixing heads feature a modular design that allows production and application flexibility, improved maintainability and ease of customization to fit any polyurethane process application.

-M-series mixheads incorporate external valving and porting, which allows calibration without removal of the impeller.

### CUSTOM APPLICATION

**MIXING HEADS**

ESCO produces custom engineered mixing heads for any number of special or difficult to process applications including:

- Syntactic foam systems
- Hydrophilic urethane
- Multi-component or dual durometer systems
- Ribbon-flow style roll covering
- TPU mixing heads
- Hand held "mix guns" with recirculation for edge banding and small pour applications
- Slab or sheet process mixing heads with up to 24 discreet material streams

### MIXHEAD MODEL FEATURES

<table>
<thead>
<tr>
<th>Model</th>
<th>Output LBS/Min</th>
<th>Number of Components</th>
<th>Max Speed RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-100</td>
<td>0.25-3</td>
<td>2-3</td>
<td>6000</td>
</tr>
<tr>
<td>M-200</td>
<td>1-20</td>
<td>2-3</td>
<td>6000</td>
</tr>
<tr>
<td>M-500</td>
<td>5-70</td>
<td>2-5</td>
<td>5000</td>
</tr>
<tr>
<td>M-800</td>
<td>30-150</td>
<td>2-6</td>
<td>5000</td>
</tr>
<tr>
<td>M-900</td>
<td>50-300</td>
<td>2-6</td>
<td>5000</td>
</tr>
<tr>
<td>M-1000</td>
<td>100-600</td>
<td>2-6</td>
<td>4000</td>
</tr>
<tr>
<td>M-1100</td>
<td>200-1000</td>
<td>2-6</td>
<td>4000</td>
</tr>
</tbody>
</table>