The Astec Turbo Double Barrel® Drum-Mixer is the
Here’s a quick four-page

4. HEATED AGGREGATE ENTERS THE OUTSIDE DRUM

5. RAP ENTERS THE OUTSIDE DRUM

6. BAGHOUSE FINES ENTER THE OUTSIDE DRUM

7. LIQUID AC ENTERS THE OUTSIDE DRUM

2. BURNER: HOT AIR ENTERS THE INSIDE DRUM

The Astec Turbo Double Barrel drum-mixer has a proven track record of being able to produce more mix at a lower cost-per-ton than any other drum-mixer on the market. There are two reasons for this remarkable achievement: (1) Astec’s unique design uses the entire length of the...
most popular production equipment on the market. overview of how it works:

1. Virgin aggregate enters the inside drum.
2. Aggregate moves through the inside drum.
3. Virgin aggregate, rap, fines and liquid AC are mixed in the outside drum.
4. Finished mixture exits the outside drum.

Details on the next page.
The design of the Astec Turbo Double Barrel drum-mixer is vastly different than anything else on the market. But that is because the process of mixing is totally different. This unique design combines the functions of a dryer and a continuous-process mixer in one compact and efficient system *(see diagrams on opposite page)*. The results for the producer are substantial. It provides a clean operation, with minimal oxidation and emissions. The systems permits remarkably high levels of control —so the quality of the finished mix can be precisely what the producer desires. Perhaps most important is the efficiency of the Astec Turbo Double Barrel drum-mixer and its ability to lower the producer’s cost per ton on a day-to-day basis.

**OPERATIONAL EFFICIENCY STATISTICS**

**Virgin Mixes**
- Compared with a counter-flow drum mixer: The Turbo Double Barrel makes 9% more mix per hour—but it actually burns 3% less fuel.
- Compared with a parallel-flow drum mixer: The Turbo Double Barrel makes 15% more mix per hour than a parallel-flow drum mixer—but burns 5% less fuel.

**50% RAP Mixes**
- Compared with a counter-flow drum mixer: The Turbo Double Barrel makes 14% more mix per hour—but it actually burns 12% less fuel.
- Compared with a parallel-flow drum mixer: The Turbo Double Barrel makes 24% more mix per hour than a parallel-flow drum mixer—but burns 19% less fuel.
lower maintenance cost, higher trade-in value:
Astec Turbo Double Barrel® Drum-Mixer

Cool, damp virgin aggregate enters the high end of the drum and moves through the drying chamber by virtue of three different types of flights that are attached to the interior wall of the drum. The conditioning flights (A) break up any clumps or sticky material in the aggregate. The showering flights (B) help to veil the material evenly through the hot gas stream. And the combustion flights (C) keep the aggregate from interfering with the flame, while spreading the material to maximize the radiant heat transfer.

When the hot, dry virgin aggregate leaves the inside of the inner drum, it is held within the confines of the outer drum for the sequential mixing process. The desired ingredients are added to the aggregate in an order that allows better temperature equalization and a more even distribution of all particles throughout the mix. First, the RAP is added, then the fines and additives, and finally the liquid AC.

The Astec Double Barrel drum-mixer was designed to have a long mixing chamber that would provide extraordinarily long mixing times. When combined with the sequential mixing process, these long mixing times ensure uniform and consistent incorporation of all aggregates, materials, and additives. Even if you are dealing with high raw-material variance or heavily modified or sticky mixes, the Astec design helps you produce homogenous, strong mixes.