

Ultradrum® A.R.E. Advanced RAP Entry

Gencor Industries, Inc. the world's premier producer of asphalt plants and equipment introduces the latest innovation in drum mix technology, the patented Ultradrum® ARE, a new leap forward in processing high percentages of recycled asphalt without super-heating aggregate.

The increased use of RAP has created the need to process at higher production rates and with higher moistures under extreme conditions.

The ARE (advanced rap entry) concept utilizes the convective heat of the combustion zone to preheat and advance the release of internal moisture in the recycled pavement. The advanced release of moisture results in higher production due to a more even and staged release of water vapor in the drying process.

The material process flow starts at the feed end of the Ultradrum where aggregates are quickly heated to correct temperature as they approach the burner. While the aggregates approach the combustion zone, the recycled asphalt is introduced into the combustion zone, behind specially designed combustion flighting.

The specially designed flighting allows the RAP material to cascade around the combustion zone absorbing conductive and convective energy allowing 50% RAP capability with lower aggregate temperatures and no reduction in plant capacity making it the highest production, lowest cost per ton drum mixer in the industry.



The heat releases the internal moisture from the product before it enters the mixer. RAP, virgin aggregate and baghouse fines combine in the mixing zone, away from the direct radiant zone. Asphalt cement (AC) is then added into a thoroughly dried mixture of primary dust, baghouse fines, virgin aggregate and RAP to form a fully coated and homogenous mix before exiting the drum.

Any hydrocarbons or steam vapors generated during the mixing process are captured by Gencor's patented Volatile Reclaim System and returned to the burner as fuel, making the Ultradrum® ARE the most environmentally clean drum mixer in the world.

Gencor has demonstrated the effectiveness of the Ultradrum ARE process with some of the largest hot mix producers in North America producing over 600 tons per hour with 50% (300 tph) of recycled asphalt. The new Ultradrum® ARE flighting design has even greater productivity and reduced maintenanc

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GENCOR ADVANCED RAP ENTRY MATERIAL FLOW

