Continuous Mobile Asphalt Plants

ADVANCED Series

15P1 | 17P2 | 19P2
The Advanced plants line combines the maximum portability of a continuous production plant with the quality of batch plants. A line of versatile and reliable equipment, adaptable to different materials and climatic conditions. There are three production range options applicable to the various job sizes.

1. **HIGH PRECISION IN AGGREGATES DOSING**
   - Aggregates dosing system with maximum technology, with individual weighing, pick up system to guarantee the real belt speed and transmission of data by network, immune to electronic noises.

2. **COUNTERFLOW DRYER**
   - Counterflow dryer dedicated exclusively to aggregates drying and heating. Longer drying time and less fuel consumption.

3. **EXTERNAL MIXER PUG MILL TYPE**
   - Industrial computer appropriate to the construction sites. Intuitive graphical interface with touch screen technology.

4. **PRODUCTION CONTROL**
   - Larger filtering area in the category, ensuring production on a constant level. Very low level of pollutants emission into the atmosphere.

5. **SMART FILTERING SYSTEM**
   - Ciber quality and technology applied to ensure maximum quality in the production of asphalt mixes.
Continuous mobile asphalt plants

ADVANCED

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High precision in aggregates dosing

HIGH PRECISION IN THE PRODUCTION OF ASPHALT MIXES

> Dynamic weighing of the aggregates Carried out by a high precision load cell, along with a signal converter of great stability that guarantees the control in aggregates dosing.

PERFECT CONTROL OF AGGREGATES DOSING

> Versatile configuration and possibility of increasing the number of silos.

> Aggregates feeding length of 3,0 meters avoid contamination of aggregates between bins.

> Can be selected grids for the dosing silos, level sensors and additional vibrators.
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**DOSING BELTS**

*With vulcanized side protections, they require low maintenance and provide accurate dosing without loss of aggregates.*

*Straps for easy stretching and alignment. Evenly distribute the weight of aggregates load on the weighing roller.*

**MANUAL GATE**

*With a gentle operation by a handle, it helps the belt to work at the optimum speed, generating dosing stability and longer service life.*

**WALL VIBRATOR**

*Activated by the operator, or automatically, in case of lack of material.*

**COLLECTING AND CONVEYOR BELTS**

*With scraper hoppers with counter-weight that avoid adherence and loss of fine and wet aggregates.*

**SHAPED AND BALANCED WEIGHTING ROLLERS**

*They complement the high precision level provided by the self-regulating system.*

**CAN OPEN SYSTEM**

*Transmission of data of aggregates weighting data transmission up to PLC.*

*Immune to electronic noise. Correct weighting guarantee.*

**SPEED SENSOR ON THE REARROLLER**

*Continuous verification of the belt speed.*

*Correction of speed in case of engine slippage.*

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1] Metering belt with vulcanized side protection.
2] Speed sensor (Pick Up).
COUNTERFLOW DRYER

> Fully dedicated to aggregates drying and heating. It operates in a counterflow system, in which the heat is applied gradually over the aggregates, respecting the physical laws for moisture extraction, ensuring high productivity and low fuel consumption.

> Designed using advanced computerized simulation systems, it has fins designed to efficiently meet all the steps of the drying and heating stage with maximum efficiency, ensuring complete elimination of moisture, correct temperature and high throughput.

BURNER

> Operates under the principle of atomization at low pressure, guaranteeing the ideal oxygen condition for complete burning.

> Both the air and fuel dosing is proportional and independent, guaranteeing perfect burning and full utilization of the fuel, with high production, low consumption and respect for the environment.

> As the combustion chamber is made of stainless steel and does not use refracting stones, there is no wear. The maintenance rate is minimal.

1 Each region of the dryer has different types of flights, which perform specific functions.
2| Functional diagram of the dryer: different flights in each region dedicated to different functions.

3| Ciber burner for fuel oils (light and heavy). Ciber Dual burner for liquid and natural gases as option.
External Mixer
Pug Mill Type

Homogeneity of the mix from projects with conventional asphalt to highly viscous modified asphalts.

**EXTERNAL MIXER**

> Completely external blending process, using the Pug-Mill type mixer, with two synchronized, symmetrical and parallel shafts, with arms and vanes made of high wear resistance material.

> Fully internally protected mixer with high hardness wear plates, divided into small sections that allow easy and low cost replacement.

> Injection of bitumen in a controlled temperature environment, without hot gas flow, avoiding premature aging of the asphalt binder during the mix with aggregates.
Complete external blending process, using the Pug-Mill type mixer, with two synchronized, symmetrical and parallel shafts, with arms and vanes made of high wear resistance material.

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Homogeneity of the mix from projects with conventional asphalt to highly viscous modified asphalts.

Injection of bitumen in a controlled temperature environment, without hot gas flow, avoiding premature aging of the asphalt binder during the mix with aggregates.

Injection of bitumen by 9 spreading nozzles.

High shearing force applied on the mix, directly.

Mixer heated through thermal oil flow that maintains the ideal temperature of the mix.

Time of the mix adjustable according to the type of asphalt mix.
Smart filtering system

Rigorous control of pollutants emission

**HORIZONTAL VORTEX**

> Highly efficient pre-collector static separator type for retaining particulates in mesh 200 (>75pm) resulting in a long useful life of filtering elements.

**COLD AIR DAMPER**

> Temperature control of exhaustion gases

> Necessary robustness in the production of discontinuous asphalt mixes (SMA, GAP GRADED).

**EMERGENCY VALVE**

> Safety device that blocks hot gases flow to the filter in extreme cases of overheating.
**BAG FILTER**

- Laminated polyester pleated bags with a large filtering area and high durability.

- Particles filtering happens on the surface, avoiding impregnation by dust, increasing durability, generating less load loss and extremely low emission rates.

- Larger filtering area that guarantees production at a constant level and lower emission of pollutants to the atmosphere.
Production control

**COMFORT, TECHNOLOGY, RELIABILITY**

- Internal environment with temperature control and ergonomically set operation stand.
- Possibility of installing the cabin outside the chassis structure.
- Temperature controlled power board with easy access.
- Advanced processing software that guarantees the perfect aggregates and bitumen dosing through self correction of flow and weight in real time.
- Plug and Play software, ready to receive any of the options offered, at any time, with no need for replacement.
- Automatic or manual operation, very high precision potentiometer.
- Data transmission via CAN network.
- Maximum reliability in weighing information.
- The lowest possibility of electronic noise.
1] Control panel interactive screen of active matrix touch screen type.

2] The temperature controlled control cabin offers space, ergonomics and comfort to the operator. Visualization of the productive process.

3] "Overview" screen for operation and display of all equipment parameters.
## Optional items and technical data sheet

<table>
<thead>
<tr>
<th>Optional items - ADVANCED Series</th>
<th>ADVANCED 15 P1</th>
<th>ADVANCED 17 P2</th>
<th>ADVANCED 19 P2</th>
</tr>
</thead>
<tbody>
<tr>
<td>10m³ Dosing silos</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Dual burner Ciber</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Dual burner Hauck</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>STA 50 tons - Stationary and Portable</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>3.0 m³ fines silo</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Grounding kit</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Grid to separate impurities</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Additional vibrator</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>1.3 m³ filler silo (4l)</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Bitumen flow meter</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Fuel flow meter</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Toolkit</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
</tbody>
</table>
### Technical data sheet - ADVANCED Series

<table>
<thead>
<tr>
<th></th>
<th>ADVANCED 15 P1</th>
<th>ADVANCED 17 P2</th>
<th>ADVANCED 19 P2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Production Capacity</strong></td>
<td>40 - 80 t/h</td>
<td>80 - 120 t/h</td>
<td>100 - 150 t/h</td>
</tr>
<tr>
<td><strong>CHASSIS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantity of chassis</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Number of axles</td>
<td>2</td>
<td>1 + 3</td>
<td>1 + 3</td>
</tr>
<tr>
<td>Number of tires</td>
<td>8</td>
<td>4 + 12</td>
<td>4 + 12</td>
</tr>
<tr>
<td><strong>FEEDERS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of silos</td>
<td>3 standard</td>
<td>4 standard</td>
<td>4 standard</td>
</tr>
<tr>
<td></td>
<td>up to 4 optional</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Capacity</td>
<td>7.2 m³ with standard articulated extensions/ 10.0 m³ with optional articulates extensions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reading aggregates weight</td>
<td>Dynamic reading, through high precision compression load cell</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Belt</td>
<td>Closed flat belt built with vulcanized rubber, with fanfold lateral band</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DRYER</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Rotating metal cylinder operating in counterflow with bolted mobile fins</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>BURNER</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model</td>
<td>Ciber MC-8</td>
<td>Ciber MC-10</td>
<td></td>
</tr>
<tr>
<td>Safety System</td>
<td>Flame sensor type photocell UV interrupts fuel feeding in case of absence of flame</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>EXHAUSTION SYSTEM</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-separation</td>
<td>Pre-separator Static Separator type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Purification and recovery</td>
<td>High efficiency bag filter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of bags</td>
<td>72</td>
<td>144</td>
<td>216</td>
</tr>
<tr>
<td>Filtering area</td>
<td>360 m²</td>
<td>720 m²</td>
<td>1.080 m²</td>
</tr>
<tr>
<td>Bag filter efficiency</td>
<td>Higher than 99.99% - emission of particulate material lower than 50 mg/Nm³</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MIXER</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Fully external mixer with direct injection, Pug-Mill type, with two twin shafts synchronized in opposite rotation.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ELEVATOR</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Closed box drag elevator Redler type</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DISCHARGE SILO</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Type</td>
<td>Metal discharge silo with 1 m³ or 2 m³ capacity coupled to the elevator - options of 50 T, stationary or portable discharge silos in own chassis.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capacity</td>
<td>1 m³</td>
<td>1 m³</td>
<td>2 m³</td>
</tr>
</tbody>
</table>