Hot Mix Asphalt Production
Asphalt Plants

Batch Plant

Drum Plant

Continuous Mix Plant
Batch Plant
Material Flow

(Taken from The Asphalt Institute Manual ES-1, Second Edition)
Typical Batch Plant
(Taken from The Asphalt Institute Manual ES-1, Second Edition)

Major Batch Plant Components
1. Cold Bins
2. Cold Feed Gate
3. Cold Elevator
4. Dryer
5. Dust Collector
6. Exhaust Stack
7. Hot Elevator
8. Screening Unit
9. Hot Bins
10. Weigh Box
11. Pugmill
12. Mineral Filler
13. Hot AC Storage
14. Weigh Bucket
Typical Cold Bins
Typical Cold Bins

Cold feed gates
Aggregate Dryer
Dryer Cutaway
Mixing Tower
Mixing Tower Cutaway

(Taken from The Asphalt Institute Manual ES-1, Second Edition)
Hot Feed Bins

(Taken from The Asphalt Institute Manual ES-1, Second Edition)
Hot Feed Bins

(Taken from The Asphalt Institute Manual ES-1, Second Edition)
Pugmill Mixer
(Taken from The Asphalt Institute Manual ES-1, Second Edition)
Typical Mixing Cycle

1. Aggregate enters pugmill from weigh box
2. Asphalt cement enters pugmill from spraybar
3. Aggregate and asphalt cement are mixed
4. Finished mix discharged through pugmill gate
5. Pugmill gate closes to receive the next batch
Continuous Weighing

(Taken from The Asphalt Institute Manual ES-1, Second Edition)
Continuous Pugmill

(Taken from The Asphalt Institute Manual ES-1, Second Edition)
Drum Plant
Parallel-Flow Drum Plant

(Taken from The U. S. Army Corps of Engineers Hot Mix Paving Handbook)
Counter-Flow Drum Plant

(Taken from The U. S. Army Corps of Engineers Hot Mix Paving Handbook)
Double-Drum Plant

(Taken from The U. S. Army Corps of Engineers Hot Mix Paving Handbook)
Double-Drum Plant

(Taken from The ASTEC Double-Barrel Brochure)
Double-Drum Plant

(Taken from The ASTEC Double-Barrel Brochure)
Portable Drum Plant
Modern Fixed Drum Plant
Hot Mix Asphalt Paving
Asphalt Paver

Hopper

Screed

Side Arm
Asphalt Paver

- Screed
- Hopper
- Side Arm
Paving Machine

Source: PTC Pavement Guide Interactive
Paving Machine

Source: PTC Pavement Guide Interactive
Paving Train
Paving Train

Source: Pavement Guide Interactive
Paving Train
Shuttle Buggy