



MEKA

CONCRETE BATCHING PLANTS



RCC

ROLLER COMPACTED CONCRETE PLANT

The Choice of Professionals



www.mekaconcreteplants.com



MEKA Roller Compacted Concrete Plants

MEKA has been designing unique plants for RCC and Dam applications since more than 15 years. Millions of cubic meters of concrete have been poured on MEKA equipment on Turkey's most significant and important projects of infrastructure and tens of concrete plants were restored and used again and again on different construction sites. With this experience, MEKA is a reliable partner and is capable of designing, manufacturing and servicing its equipment no matter how hard are the conditions and project itself.

What is Roller Compacted Concrete (RCC)?

RCC has essentially the same components like any other concrete but with different ratios with partial replacement of cement by fly ash and much less amount of water. The mix is

very dry and has 0 slump, which makes it harder to mix and it requires prolonged mixing cycles and more powerful and robust concrete mixers to be used. It is impossible to transport it with a mixer truck so the mix is normally discharged to a dump truck and for the same reason it can only be paved and after that compacted with a heavy vibratory on non-vibratory roller cylinder.

Most of the time, a structure made of RCC concrete has no joints, no formwork, no finishing and no any type of steel reinforcement which makes it rather economical for used areas. Its rigid physical properties and low costs make it one of the most used materials in construction of the concrete gravity dams and other heavy industrial applications.

Advantages of RCC

Low unit price: RCC materials are relatively cheap and flexible ratio of the mixture contents together with high construction speed make RCC dams a valuable alternative for different dam projects.

Better workability: Reduced cementitious content and the ease of placement and compaction leads RCC dams to be built in way that is more economical. On the other hand, a big advantage of RCC dams compared to the embankment dams comes from constructing the spillway into the dam body rather than having separate excavation and structure.

Speed of construction: Having better workability, RCC can be placed faster bringing together 3 main advantages: early operation of the facility, reduced risk of flooding and the corresponding minimized requirements for the diversion structures and cofferdams. At this point, the quality of the concrete plant and its continuous operation plays its important role. RCC placement should be as fast and continuous as possible in order to maintain structural integrity and high joint quality. Aggregate supply and loading, concrete plant location, transportation, paving and treatment must be adjusted according to the speed of the concrete plant and RCC placement rate.



Technical Specifications

| Specification | Value |
|--------------------------|-----------------------------|
| Capacity | 88 m ³ /hr (RCC) |
| Mixer Type | Twin Shaft |
| Mixer Capacity (compact) | 2x2 m ³ |
| Motor Power | 2x55 kW |
| Aggregate Compartments | 4 - 6 No. |

| Specification | Value |
|-----------------------------|-----------------|
| Mixer Feeding Conveyor | 1.000x23.500 mm |
| Aggregate Weighing Capacity | 4.400 kg |
| Cement Weighing Capacity | 1.000 kg |
| Water Weighing Capacity | 2x700 kg |
| Additives Weighing Capacity | Optional |

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Technical Specifications

| Specification | Value |
|--------------------------|------------------------------|
| Capacity | 131 m ³ /hr (RCC) |
| Mixer Type | Twin Shaft |
| Mixer Capacity (compact) | 2x3 m ³ |
| Motor Power | 2x37 kW |
| Aggregate Compartments | 4 - 6 No. |

| Specification | Value |
|-----------------------------|-----------------|
| Mixer Feeding Conveyor | 1.000x23.500 mm |
| Aggregate Weighing Capacity | 6.600 kg |
| Cement Weighing Capacity | 1.750 kg |
| Water Weighing Capacity | 2x1000 kg |
| Additives Weighing Capacity | Optional |

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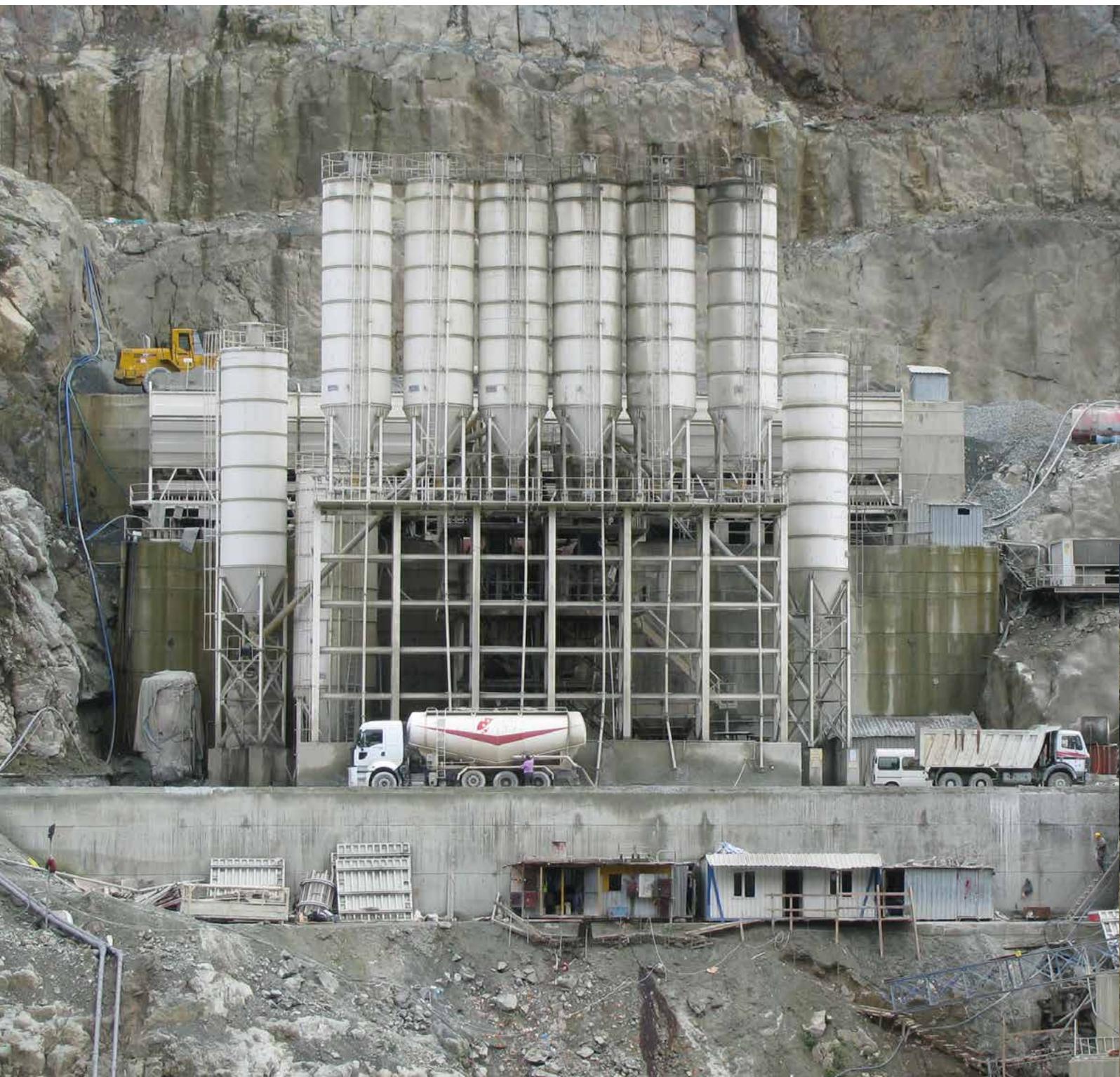
Technical Specifications

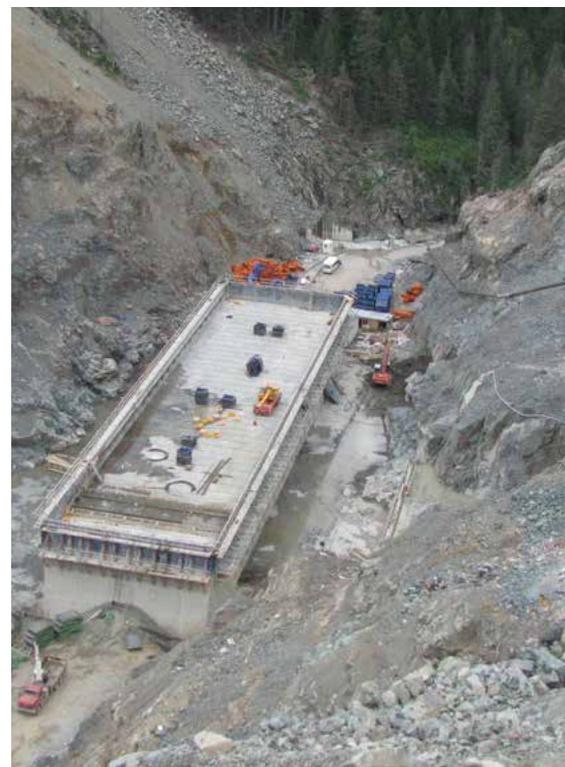
| Specification | Value |
|--------------------------|------------------------------|
| Capacity | 195 m ³ /hr (RCC) |
| Mixer Type | Twin Shaft |
| Mixer Capacity (compact) | 2x4,5 m ³ |
| Motor Power | 2x90 kW |
| Aggregate Compartments | 6 - 8 No. |

| Specification | Value |
|-----------------------------|-----------------|
| Mixer Feeding Conveyor | 1.200x34.750 mm |
| Aggregate Weighing Capacity | 9.900 kg |
| Cement Weighing Capacity | 2.000 kg |
| Water Weighing Capacity | 2x1200 kg |
| Additives Weighing Capacity | Optional |

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About Meka

MEKA is a professional enterprise focused only on manufacturing of concrete batching plants. Being a fast-growing Turkish manufacturer that provides a complete scope of services such as identifying its customer's needs, project planning, design, engineering, production, quality control, commissioning, personnel training and after-sales support, MEKA is on its way to becoming a global brand.

MEKA is committed to the principle of perfection in all its products and services presented to its customers. Providing its customers with information before sales, conducting a need analysis and after-sales support are all the services given within the framework of the principle of perfection, thus making MEKA the "reliable partner" of its customers.

MEKA: Leader in Europe In Terms of Manufacturing Force

MEKA is progressing with strong steps towards becoming a global leader with 300 personnel, 30 engineers and 3 manufacturing facilities (at Ostim/Ankara – 5.000 m², Temelli/Ankara- 18.000 m², Eskisehir – 30.000 m²) equipped with advanced technological infrastructure providing its annual production capacity of 250 concrete batching plants.



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