The SIMEM MDC mixing tank is completely protected with special anti-wear liners. The mixing action is performed by cast iron paddles, which are hydrodynamically designed to reduce wear and provide optimized mixing results.

All paddles are bolted onto the mixing arms, which are in turn bolted onto the mixing shaft for easier service and maintenance.

The special design of the mixing arms allows them to be installed in different configurations to create a flow of materials inside the mixing tank, thus ensuring an optimal mixing result.

## TECHNICAL FEATURES

<table>
<thead>
<tr>
<th>MODEL</th>
<th>200</th>
<th>300</th>
<th>200 mixing</th>
<th>300 mixing</th>
<th>200 mixing L</th>
<th>300 mixing L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete output m³/h</td>
<td>150</td>
<td>200</td>
<td>80-160</td>
<td>120-260</td>
<td>80-160</td>
<td>120-260</td>
</tr>
<tr>
<td>Concrete output Ton/h</td>
<td>300</td>
<td>400</td>
<td>140-230</td>
<td>240-400</td>
<td>140-230</td>
<td>240-400</td>
</tr>
<tr>
<td>Max Aggregate size</td>
<td>mm</td>
<td>65</td>
<td>65</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Mixing Motors</td>
<td>kW</td>
<td>1 x 30</td>
<td>2 x 37</td>
<td>1 x 30</td>
<td>2 x 37</td>
<td>1 x 30</td>
</tr>
<tr>
<td>Net Weight</td>
<td>Kg</td>
<td>6,000</td>
<td>6,800</td>
<td>6,000</td>
<td>7,000</td>
<td>7,400</td>
</tr>
</tbody>
</table>

## DIMENSIONS

| A - Length | mm | 3,900 | 3,940 | 3,900 | 3,940 | 5,260 | 5,125 |
| B - Width | mm | 1,665 | 1,850 | 1,805 | 1,990 | 1,805 | 1,990 |
| C - Height | mm | 1,280 | 1,500 | 1,380 | 1,600 | 1,380 | 1,600 |
SIMEM, with more than forty-five years experience in design, construction and installation of Mixers and Concrete Batching and Mixing Plants, provides technical solutions for all types of concrete production such as Precast, Ready-Mix and on-site concrete. SIMEM, in the last twenty years, has developed a wide range of equipment for all types of concrete production and Concrete Batching and Mixing Plants, providing in design, construction and installation of Mixers with more than forty-five years experience such as Precast, Ready-Mix and on-site concrete.

**Technical Solutions for All Types of Concrete Production**

The mixing process is the most significant and sensitive part of the production process of concrete, and choosing the correct mixer for the process is extremely important. Since the 1970’s, SIMEM has developed a wide range of mixers which have been designed for the production of quality concrete and are recognized worldwide. SIMEM MDC Continuous Flow Mixer adopts the twin shaft technology and is especially designed for Zero Slump Concrete and Roller Compacted Concrete (RCC). However, with special versions they have proven useful in other applications as well. The SIMEM MDC mixers can be supplied in extended versions for increased mixing time. A special version with over 80 degrees of tilting of the mixer, equipped with special nozzles divided into four or four washing zones. Water is fed via a triplex high pressure pump delivering 60 lt. of water per minute at 200 bar. The automatic wash down system can be started at the end of every shift for a complete washout of the mixer. Alternatively, where concrete production is intermittent, a mixer can be provided between productions. A high pressure wand is also included for final cleanout through the inspection doors.

**Continuous Flow Mixer MDC**

The MDC mixers are standard equipped with a bottom discharge opening for continuous flow of material. The MDC mixers are used in a variety of applications for treatment of industrial solid waste. The MDC mixers can be supplied in extended versions for increased mixing time. A special version with over 80 degrees of tilting of the mixer, equipped with special nozzles divided into four or four washing zones. Water is fed via a triplex high pressure pump delivering 60 lt. of water per minute at 200 bar. The automatic wash down system can be started at the end of every shift for a complete washout of the mixer. Alternatively, where concrete production is intermittent, a mixer can be provided between productions. A high pressure wand is also included for final cleanout through the inspection doors.

**Material Discharger**

The MDC mixers are standard equipped with a bottom discharge opening for continuous flow of material. The MDC mixers are used in a variety of applications for treatment of industrial solid waste. The MDC mixers can be supplied in extended versions for increased mixing time. A special version with over 80 degrees of tilting of the mixer, equipped with special nozzles divided into four or four washing zones. Water is fed via a triplex high pressure pump delivering 60 lt. of water per minute at 200 bar. The automatic wash down system can be started at the end of every shift for a complete washout of the mixer. Alternatively, where concrete production is intermittent, a mixer can be provided between productions. A high pressure wand is also included for final cleanout through the inspection doors.

**Automatic Greasing System**

The Automatic Greasing System is an option for the MDC mixers and includes a grease pump that gives a pressure of up to 200 bar, a line strainer and a divider block to ensure the correct amount of grease is pumped into each of the four shafts. Concrete shafts are included on the mixing shafts, and connected to the main automatic greasing unit. All four shaft seals are continuously greased by the self-lubricating system, which comes as an option on all models. The self-lubricating system provides a positive flow of grease to the seals ensuring that grout does not pass into the shafts. The grease pump on the self-lubricating system is mechanically driven by the mixing shafts. The gear case has a capacity of four kg., and includes a limit switch level indicator.

**Automatic High Pressure Wash Down System**

To reduce operating costs and time, SIMEM offers a high pressure wash down system. This system consists of two special rotating tubes running the full length of each side of the mixer, equipped with special nozzles divided into four or four washing zones. Water is fed via a triplex high pressure pump delivering 60 lt. of water per minute at 200 bar. The automatic wash down system can be started at the end of every shift for a complete washout of the mixer. Alternatively, where concrete production is intermittent, a mixer can be provided between productions. A high pressure wand is also included for final cleanout through the inspection doors.

**Planetary Gear Boxes**

SIMEM MDC mixers are not only designed for maximum productivity, but also for long term reliability of service. Driven by electric motors, the twin stage planetary gear boxes, rated at 94% efficiency, are connected to the main shafts with articulated joints, which virtually eliminate the transmission of any possible force from the mixing shafts to the reducer output shafts. Bearings for the mixing shafts are installed on separate flanges and isolated from the concrete seals, protecting the bearings in case of seal failure.

**Automatic Greasing System**

The Automatic Greasing System is an option for the MDC mixers and includes a grease pump that gives a pressure of up to 200 bar, a line strainer and a divider block to ensure the correct amount of grease is pumped into each of the four shafts. Concrete shafts are included on the mixing shafts, and connected to the main automatic greasing unit. All four shaft seals are continuously greased by the self-lubricating system, which comes as an option on all models. The self-lubricating system provides a positive flow of grease to the seals ensuring that grout does not pass into the shafts. The grease pump on the self-lubricating system is mechanically driven by the mixing shafts. The gear case has a capacity of four kg., and includes a limit switch level indicator.

**Planetary Gear Boxes**

SIMEM MDC mixers are not only designed for maximum productivity, but also for long term reliability of service. Driven by electric motors, the twin stage planetary gear boxes, rated at 94% efficiency, are connected to the main shafts with articulated joints, which virtually eliminate the transmission of any possible force from the mixing shafts to the reducer output shafts. Bearings for the mixing shafts are installed on separate flanges and isolated from the concrete seals, protecting the bearings in case of seal failure.

**Automatic High Pressure Wash Down System**

To reduce operating costs and time, SIMEM offers a high pressure wash down system. This system consists of two special rotating tubes running the full length of each side of the mixer, equipped with special nozzles divided into four or four washing zones. Water is fed via a triplex high pressure pump delivering 60 lt. of water per minute at 200 bar. The automatic wash down system can be started at the end of every shift for a complete washout of the mixer. Alternatively, where concrete production is intermittent, a mixer can be provided between productions. A high pressure wand is also included for final cleanout through the inspection doors.

**Planetary Gear Boxes**

SIMEM MDC mixers are not only designed for maximum productivity, but also for long term reliability of service. Driven by electric motors, the twin stage planetary gear boxes, rated at 94% efficiency, are connected to the main shafts with articulated joints, which virtually eliminate the transmission of any possible force from the mixing shafts to the reducer output shafts. Bearings for the mixing shafts are installed on separate flanges and isolated from the concrete seals, protecting the bearings in case of seal failure.

**Special Versions**

The MDC series of continuous mixers is designed, mainly, for Zero Slump Concrete and Roller Compacted Concrete (RCC), however, with several special designs, these mixers have proven useful in other applications as well. The SIMEM MDC mixers can be supplied in extended versions for increased mixing time. A special version with overflow discharge can also be supplied for mixing of cement based slurries. For operation in corrosive environments, a version with a stainless steel tank can be supplied, as well as a wide variety of charging solutions for water. The MDC mixers are used in a variety of projects around the world, including the building of dams, roads and backfilling of mines.

**SpecialVersions**

The MDC series of continuous mixers is designed, mainly, for Zero Slump Concrete and Roller Compacted Concrete (RCC), however, with several special designs, these mixers have proven useful in other applications as well. The SIMEM MDC mixers can be supplied in extended versions for increased mixing time. A special version with overflow discharge can also be supplied for mixing of cement based slurries. For operation in corrosive environments, a version with a stainless steel tank can be supplied, as well as a wide variety of charging solutions for water. The MDC mixers are used in a variety of projects around the world, including the building of dams, roads and backfilling of mines.

**Mixer Mind® Electronic Check System**

The Mixer Mind electronic check system is a complete surveillance unit designed to monitor temperatures and power consumption. In addition, it ensures that the automatic greasing system is working correctly. In the case of abnormality, it provides alarms which serve to avoid damage to the mixer and its components. The Mixer Mind also provides useful service reminders.

**Mixer Mind® Electronic Check System**

The Mixer Mind electronic check system is a complete surveillance unit designed to monitor temperatures and power consumption. In addition, it ensures that the automatic greasing system is working correctly. In the case of abnormality, it provides alarms which serve to avoid damage to the mixer and its components. The Mixer Mind also provides useful service reminders.

**Automatic Greasing System**

The Automatic Greasing System is an option for the MDC mixers and includes a grease pump that gives a pressure of up to 200 bar, a line strainer and a divider block to ensure the correct amount of grease is pumped into each of the four shafts. Concrete shafts are included on the mixing shafts, and connected to the main automatic greasing unit. All four shaft seals are continuously greased by the self-lubricating system, which comes as an option on all models. The self-lubricating system provides a positive flow of grease to the seals ensuring that grout does not pass into the shafts. The grease pump on the self-lubricating system is mechanically driven by the mixing shafts. The gear case has a capacity of four kg., and includes a limit switch level indicator.

**Automatic High Pressure Wash Down System**

To reduce operating costs and time, SIMEM offers a high pressure wash down system. This system consists of two special rotating tubes running the full length of each side of the mixer, equipped with special nozzles divided into four or four washing zones. Water is fed via a triplex high pressure pump delivering 60 lt. of water per minute at 200 bar. The automatic wash down system can be started at the end of every shift for a complete washout of the mixer. Alternatively, where concrete production is intermittent, a mixer can be provided between productions. A high pressure wand is also included for final cleanout through the inspection doors.