



**DYNAMIX®**  
CONCRETE EQUIPMENT



**DYNAMIX® CONCRETE MIXER TRUCKS**





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## BUILT ON 30 YEARS OF EXPERIENCE

Engineering & Plant Services has proudly manufactured, supplied and supported DYNAMIX® concrete mixers for over 30 years.

In partnership with some of the industries leading operators, DYNAMIX® has evolved beyond rugged dependability to deliver lifetime performance and reliability.

DYNAMIX® puts the safety of your team first before delivering industry-leading productivity as the foundation for your success.



Engineering & Plant Services provides world-class and comprehensive solutions to the New Zealand and Australian transport and infrastructure industries. Operating from bases in Melbourne, Auckland and Christchurch, the company offers world class service and support throughout Australia and New Zealand as part of the Sime Darby Transport Group.





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# DYNAMIX® OVERVIEW

## RANGE

Suitable for all sizes of operation and available in a full range of sizes up to 8 cubic metres. Larger sizes are available on request.

## ATTRIBUTES

- Designed for the Australian and New Zealand industry
- Low weight improves mixer capacity
- Designed for dry and wet batch applications
- Proven ability to mix and discharge low slump concrete at higher discharge rates (kerb or medium barrier slip form mix)
- Exceptional bowl loading speed
- Constant-speed bowl rotation
- Smooth mixing action significantly reduces stress on the truck chassis
- Low centre of gravity resulting in optimal drive conditions
- Low maintenance and operating costs

## STANDARD ACROSS THE RANGE

### Quality components and manufacture

- Latest Danfoss computerised control systems and hydraulics
- Long life bowls manufactured from high resistance wear plate 510 MPa
- Quality Italian bowl drives (PMP)
- Custom control system to eliminate driver input and reduce fuel consumption
- Lightweight extension chutes lined with wear resistant plastic
- Oil tank reservoir with electric cooling fan, remote mounted
- Independent pedestal design eliminating the need for chassis rails reducing weight and maintenance costs
- Clean lines for easy housekeeping and extending mixer life
- 70 PSI electric water pump for ease of cleaning
- Hide-away storage of hoses and water guns

### Exceptional safety attributes

- No external controls. All controls are from the cab or by wireless control system to ensure the driver is the only person who controls the mixer functions
- Emergency stops fitted to the rear of the mixer unit

### A peace of mind investment

- National service, technical support and full parts back-up

## OPTIONAL ENHANCEMENTS

### Customisation and options available

- Custom painting and graphics to customer's requirements
- Ladder enhancements and rear bumper step
- Reverse and blind-spot cameras
- Rear flood lights



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## KEY FEATURES

# EXCEPTIONAL DESIGN OF THE BOWL

### Bowl Diameter

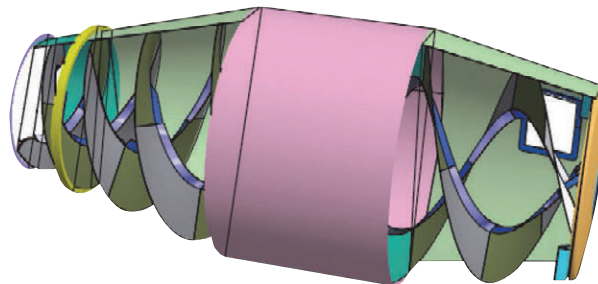
The smaller and optimal diameter of the DYNAMIX® bowl reduces stresses on the truck chassis and driveline components while supporting greater stability through better weight distribution.

### Non-Spit Bowl

The internal flight design of the DYNAMIX® bowl ensures the load is completely stable, especially at the discharge end. This eliminates the possibility of concrete escaping and posing a hazard at any time during loading, slumping and transit.

### Independent Pedestals

Independent front and rear mounted pedestals eliminates the need for chassis rails - reducing weight and maintenance costs and making cleaning much easier.



# INTELLIGENT BOWL CONTROL

Exceptional safety, operational and environmental benefits through DYNAMIX® intelligent constant speed bowl rotation.

## Optimal Load Management - Extended Transport Distance

Constant speed bowl rotation ensures the concrete payload does not dry or cure prematurely. This reduces excessive transport urgency, extends achievable transportation distances from plant to site, and helps ensure a quality and to-specification load delivery.

## Optimal Stability - Lower Centre of Gravity

Constant speed bowl rotation and bowl positioning combine to ensure the load remains at a low centre of gravity to reduce vehicle instability especially when cornering.

## Optimal Fuel Usage - Environmentally Friendly

Constant speed bowl rotation delivers both lower and more consistent fuel consumption, reducing diesel costs and environmental emissions.

## Reduced Lifetime Maintenance Costs

Constant speed bowl rotation reduces wear on the bowl and supporting components to minimise downtime and maximise service life.





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## SAFETY

# EXCEPTIONAL SAFETY FEATURES

Safety features driven from a long history of customer partnerships combined with industry best practice and the latest safety innovations.



**A**

**Standard - Emergency Stop**  
at the rear of mixer, inside cab and on wireless control system



**B**

**Standard - Enhanced Mixer Design**  
delivers low centre of gravity to enhance driving stability



**C**

**Standard - IntelliMix System**  
provides constant speed engine control improving driving stability



**D**

**Standard - Remote Control**  
a safer working environment through wireless remote control



**E**

**Standard - Hydraulic Power Chutes**  
reduce manual handling and risk of injury



**Standard - Low Weight Plastic Extension Chutes**  
reduce manual handling and risk of injury



**Standard - Ladder Design**  
is mindful of safety with integrated improvements from operational experience



**Optional - Reverse and Blind-Spot Cameras**  
to support safe driving and operation



**Optional - Rear Flood Lights**  
increasing visibility of the work environment



**Optional - Enhanced Ladder and Rear Bumper Step**  
supports safer access at the rear of mixer



**Standard - Trunnion Roller Guard  
& Bowl Mouth Guard**  
restrict access to moving parts and risk of injury



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## A PEACE OF MIND INVESTMENT

Engineering & Plant Services provides customers with unique advantages that reflect in exceptional operational performance and long-term profitability.

### Lifetime Solutions

We'll support you through the full product lifecycle. This includes leading technical support, ongoing parts and service, and options for refurbishment and bowl replacement to extend the life and return of your investment.

### National Parts and Support - Australia and New Zealand

Centres of Excellence in Melbourne, Auckland and Christchurch with the support of the Sime Darby Transport Group branch network throughout Australia and New Zealand.





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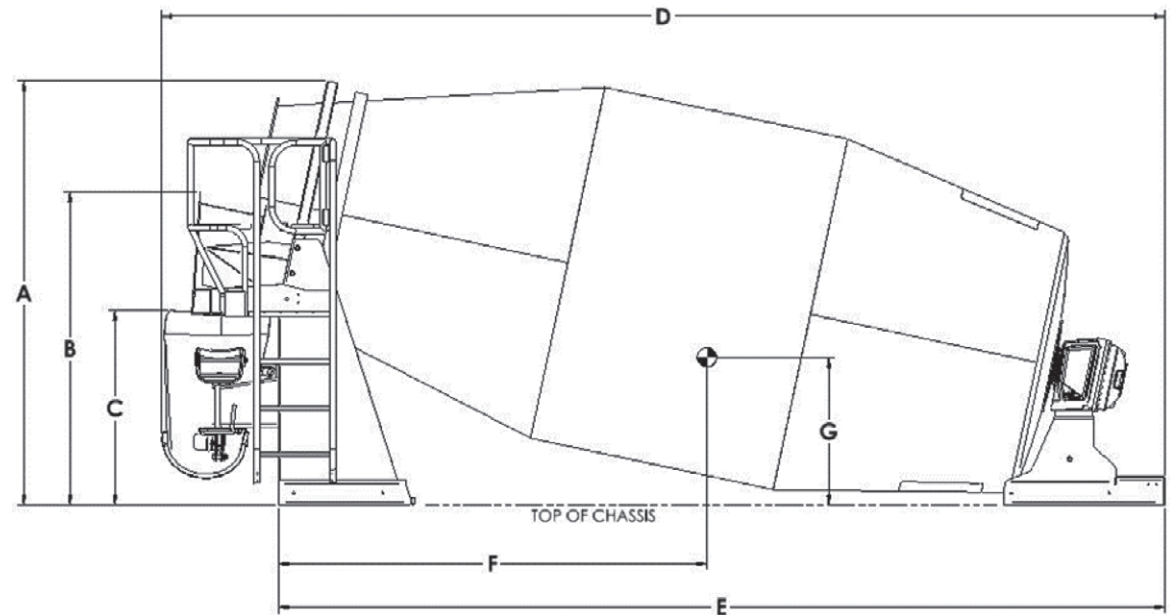
# MIXER SPECIFICATIONS



## General Specifications

| Feature:                                 | 5m <sup>3</sup>    | 6m <sup>3</sup>     | 7.5m <sup>3</sup>   |
|------------------------------------------|--------------------|---------------------|---------------------|
| (A) Height (overall)                     | 2,445 mm           | 2,550 mm            | 2,570 mm            |
| (B) Height to Discharge Chute            | 1,925 mm           | 1,925 mm            | 1,890 mm            |
| (C) Height to Swivel Chute               | 1,130 mm           | 1,180 mm            | 1,080 mm            |
| (D) Nominal Length (overall)             | 4,950 mm           | 5,370 mm            | 6,070 mm            |
| (E) Nominal Subframe Length              | 4,205 mm           | 4,685 mm            | 5,340 mm            |
| (F) Centre of Gravity - Along (approx.)  | 2,095 mm           | 2,220 mm            | 2,858 mm            |
| (G) Centre of Gravity - Height (approx.) | 950 mm             | 950 mm              | 945 mm              |
| Total Bowl Volume                        | 8.7 m <sup>3</sup> | 10.5 m <sup>3</sup> | 13.6 m <sup>3</sup> |
| Mixing Capacity to AS1379 - 2007         | 5.0 m <sup>3</sup> | 6.0 m <sup>3</sup>  | 7.5 m <sup>3</sup>  |
| Width over Mudguards                     | 2,465 mm           | 2,465 mm            | 2,465 mm            |
| Pedestal Base Width                      | 850 mm             | 850 mm              | 850 mm              |
| Bowl Axis Incline                        | 17.0°              | 15.0°               | 12.0°               |

Note: Centre of Gravity assumes full capacity load & full water tank

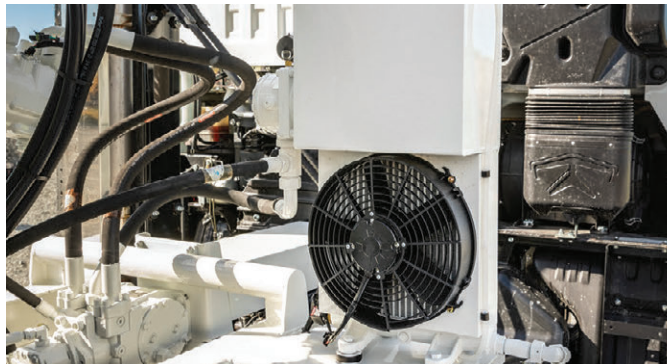


## Material Specification (Bowl)

| Feature:   | 5m <sup>3</sup> | 6m <sup>3</sup> | 7.5m <sup>3</sup> |
|------------|-----------------|-----------------|-------------------|
| Dished End | 8 mm 350 steel  | 8 mm 350 steel  | 8 mm 350 steel    |
| Rear Cone  | 4 mm 510 steel  | 4 mm 510 steel  | 4 mm 510 steel    |
| Barrel     | 4 mm 510 steel  | 4 mm 510 steel  | 4 mm 510 steel    |
| Front Cone | 4 mm 510 steel  | 4 mm 510 steel  | 4 mm 510 steel    |
| Flights    | 3 mm 510 steel  | 3 mm 510 steel  | 3 mm 510 steel    |
| Blades     | 5 mm 510 steel  | 5 mm 510 steel  | 5 mm 510 steel    |



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# AXLE LOADING AND LIMITS



## New Zealand Axle Loading and Limits

| Wheel Base | Mixer Size (m <sup>3</sup> ) | Front Axle (kg) | Rear (kg) | Total (kg) |  | Mixer Weight (kg) | Truck Tare (kg) | Total Load (m <sup>3</sup> ) | Total Load Payload (m <sup>3</sup> ) |
|------------|------------------------------|-----------------|-----------|------------|--|-------------------|-----------------|------------------------------|--------------------------------------|
| 6 x 4      | 5.0                          | 6,000           | 15,000    | 21,000     |  | 2,840             | 6,840           | 11,320                       | 4.7                                  |
|            | 5.0                          | 6500 (S/S)*     | 15,000    | 21,500     |  | 2,840             | 6,940           | 11,720                       | 4.8                                  |
| 8 x 4      | 6.0                          | 10,800          | 15,000    | 25,800     |  | 3,080             | 8,633           | 14,087                       | 5.8                                  |

## New Zealand Permitted Specialist Vehicles VDM 2016 (Rule 41001)

| Wheel Base | Mixer Size (m <sup>3</sup> ) | Front Axle (kg) | Rear (kg) | Total (kg) |  | Mixer Weight (kg) | Truck Tare (kg) | Total Load (m <sup>3</sup> ) | Total Load Payload (m <sup>3</sup> ) |
|------------|------------------------------|-----------------|-----------|------------|--|-------------------|-----------------|------------------------------|--------------------------------------|
| 6 x 4      | 6.0                          | 6,500           | 18,000    | 24,500     |  | 3,080             | 6,840           | 14,580                       | 6.0                                  |
| 8 x 4      | 7.5                          | 11,000          | 18,000    | 29,000     |  | 3,340             | 8,633           | 17,027                       | 7.0                                  |

## Australia Mass Limits for Trucks in Victoria

| Wheel Base | Mixer Size (m <sup>3</sup> ) | Front Axle (kg) | Rear (kg) | Total (kg) | Class     | Mixer Weight (kg) | Truck Tare (kg) | Total Load (m <sup>3</sup> ) | Total Load Capacity (m <sup>3</sup> ) |
|------------|------------------------------|-----------------|-----------|------------|-----------|-------------------|-----------------|------------------------------|---------------------------------------|
| 6 x 4      | 5.6                          | 6,000           | 16,500    | 22,500     | GML       | 2,840             | 6,840           | 12,820                       | 5.3                                   |
|            | 5.6                          | 6,000           | 17,000    | 23,000     | RFS       | 2,840             | 6,840           | 13,320                       | 5.6                                   |
|            | 5.6                          | 6,000           | 17,000    | 23,000     | NHVAS CML | 2,840             | 6,840           | 13,320                       | 5.6                                   |
|            | 5.6                          | 6,000           | 17,000    | 23,000     | NHVAS HML | 2,840             | 6,840           | 13,320                       | 5.6                                   |
| 8 x 4      | 7.5                          | 11,000          | 16,500    | 27,500     | GML       | 3,340             | 8,000           | 16,160                       | 6.7                                   |
|            | 7.5                          | 11,000          | 17,000    | 28,000     | RFS       | 3,340             | 8,000           | 16,660                       | 6.9                                   |
|            | 7.5                          | 11,000          | 17,000    | 28,000     | NHVAS CML | 3,340             | 8,000           | 16,660                       | 6.9                                   |
|            | 7.5                          | 11,000          | 17,000    | 28,000     | NHVAS HML | 3,340             | 8,000           | 16,660                       | 6.9                                   |
| 10 x 5     | 7.5                          | 11,000          | 20,000    | 31,000     | GML       | 3,600             | 9,300           | 18,100                       | 7.5                                   |
|            | 7.5                          | 11,000          | 20,000    | 31,000     | RFS       | 3,600             | 9,300           | 18,100                       | 7.5                                   |

### Legend:

|           |                                                                        |
|-----------|------------------------------------------------------------------------|
| GML       | = General Mass Limits                                                  |
| RFS       | = Certified Road Friendly Suspension                                   |
| NHVAS CML | = National Heavy Vehicle Accreditation Scheme Concessional Mass Limits |
| NHVAS HML | = National Heavy Vehicle Accreditation Scheme Higher Mass Limits       |

### Notes:

- \* Weights are based on 2.4 = m<sup>3</sup> concrete
- \* All weights are estimates only and may change final truck weight and specifications
- \* S/S refers to Super Single tyres

# WORLD CLASS SOLUTIONS FOR TRANSPORT & INFRASTRUCTURE

Engineering & Plant Services partners with both SANY and SIMEM to deliver exceptional global technology, local expertise and lifetime support to the Australian and New Zealand concrete and infrastructure industries.



DYNAMIX® Concrete Mixers



SANY Pumping Solutions



SIMEM Concrete Batching Plants



SANY Concrete Line Pumps



SANY Concrete Placing Booms



SIMEM Fixed & Mobile Plant Solutions



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