

# CHASSIS MA 15.0

## AGRALE CHASSIS. SAFETY, COMFORT AND PERFORMANCE TOGETHER.

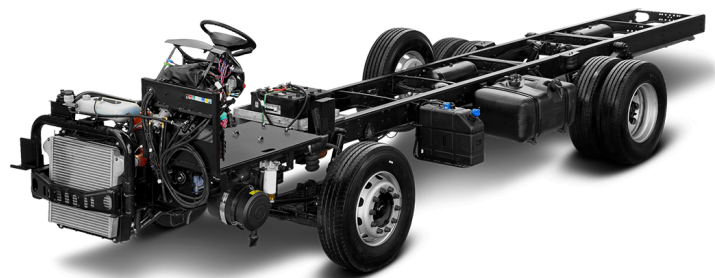
Buses Agrale are indicated for urban, intercity, and charter operations. The models meet the strict market demand for more economical and compact vehicles, best accessibility to passengers and multi-functional configuration options.



**AGRALE**

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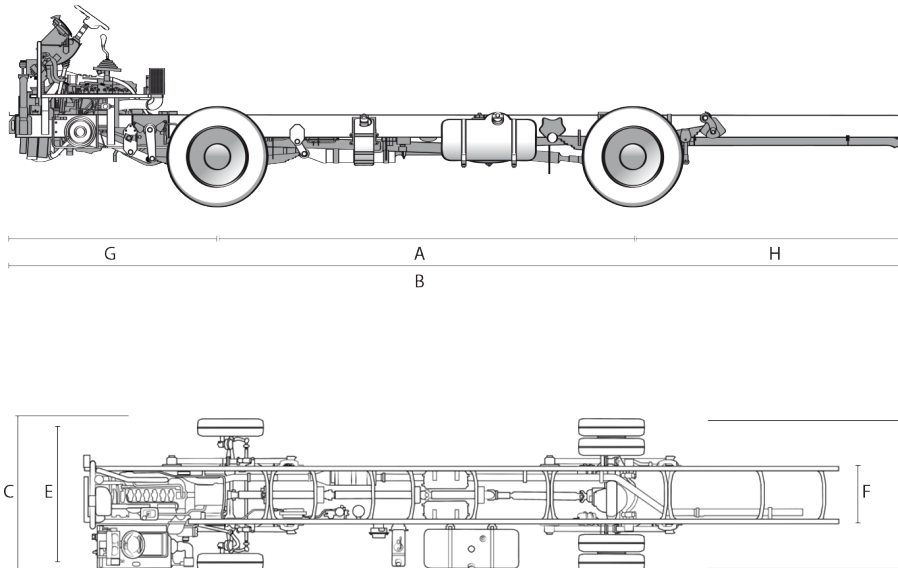


## CHASSIS MA 15.0

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| ENGINE                        |                                                             |
|-------------------------------|-------------------------------------------------------------|
| Make/model                    | CUMMINS / ISB 4.5 L                                         |
| Maximum Power                 | 207cv(152 kw) a 2300 rpm                                    |
| Maximum Torque                | 760 Nm a 1400/1800 rpm                                      |
| No. of Cylinders/Displacement | 4 / 4.460 cm                                                |
| Emissions control             | Gases Post-treatment by Selective Catalytic Reduction (SCR) |
| Aspiration                    | Sobrealimentado com turbo aftercooler                       |
| Electronic Injection          | COMMON RAIL                                                 |
| ELECTRIC SYSTEM               |                                                             |
| Tension                       | 24V                                                         |
| Battery                       | 12 V/135 Ah (02 unidades)                                   |
| Alternator                    | 28 V/80 A                                                   |
| DRIVING TRANSMISSION          |                                                             |
| Gearbox                       | EATON FS 5406 A                                             |
| No. of Gears                  | 6 forward / 1 reverse                                       |
| Disc's Outer Diameter         | 365 mm                                                      |
| AXLE                          |                                                             |
| Front axle                    | DANA 6.0                                                    |
| Rear axle                     | MERITOR 23-155                                              |
| Standard reduction ratio      | 4,88 : 1                                                    |
| Optional reduction ratio      | 5,38 / 4,56 / 4,10:1                                        |
| THEORETICAL PERFORMANCE       |                                                             |
| Maximum Speed                 | 98 Km/h (NS)<br>89 Km/h/ 105 Km/h/117 Km/h (opc)            |
| Climb on Ramp in TGW          | 44,7% (NS)<br>50,7 %/41,1% /36,1% (OPC)                     |

| TIRES                      |                      |
|----------------------------|----------------------|
| Dimensions                 | 275/80R 22,5         |
| WHEELSETS (TYPE)           |                      |
| Dimensions                 | 22,5 x 7,5           |
| BRAKES                     |                      |
| Parking Brakes             | Spring brake 30      |
| STEERING WHEEL             |                      |
| Model                      | ZF SERVOCOM 8097     |
| SUPPLY CAPACITY            |                      |
| Fuel tank                  | 210 L                |
| Urea tank (Arla 32)        | 35 L                 |
| WEIGHTS AND CAPACITIES     |                      |
| TGW - Total Gross Weight   | 15000 Kg             |
| Kerb weight                | 4.363 Kg / 4.750 Kg  |
| Effective Load + Body      | 10.635 Kg/ 10.550 Kg |
| Maximum Load of Front Axle | 6000 Kg              |
| Maximum Load of Rear Axle  | 10500 Kg             |
| OPTIONAL ITEMS             |                      |
| Consult optional items.    |                      |



## CHASSI MA 15.0

|   |                                             |                  |
|---|---------------------------------------------|------------------|
| A | Entre eixos                                 | 4.300mm/5.250mm  |
| B | Comprimento total veículo                   | 9.260mm/10.575mm |
| C | Largura (Face ext. pneus)<br>Eixo Dianteiro | 2.396mm          |
| D | Largura (Face ext. pneus)<br>Eixo Traseiro  | 2.410mm          |
| E | Bitola dianteira                            | 2.106mm          |
| F | Bitola traseira                             | 1.829mm          |
| G | Balanço dianteiro                           | 2.104mm          |
| H | Balanço traseiro                            | 2.847mm/3.212mm  |