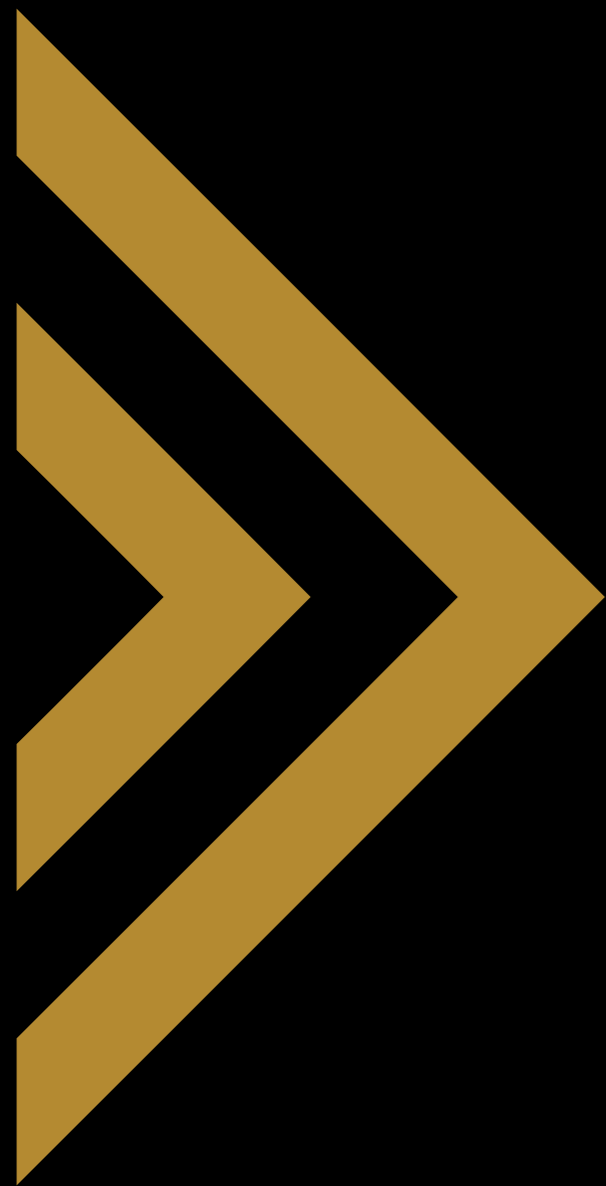


**UMA  
MOTORCOACH  
EXPO 2019  
BROCHURE**





# ABOUT US

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TEMSA is one of world's leading coach and midibus manufacturers. We provide a diversity of transportation solutions for our customers building on our 50 years of experience.

### **Connected to life**

TEMSA's mission is to be the human-centered technology company which provides smart and sustainable mobility solutions to the world for more pleasant journeys.

### **TEMSA is dedicated to**

- Becoming the leading mobility company
- Being among the world's most customer-centered businesses
- Designing the next generation mobility solutions of tomorrow
- Creating solutions through innovation

### **Shaping the future smart mobility**

Working so hard for a better future with smart mobility vision, TEMSA is one the first coach and bus manufacturers which have two different electrical buses ready for serial production, Avenue Electron and MD9 electriCITY. Autonomous MD9 electriCITY project is on its path and will be ready to order in 2022.

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TS 45





## TEMSA TS 45

### Upgrade the Expectations

#### DURABILITY

The TS 45 is constructed from stainless steel with an integral monocoque design that ensures strength and stability. Tested to the highest standards, it will perform at high quality.

#### PROVEN DRIVE TRAIN

With a 425 HP ISX Cummins engine and Gen 5 B500 Allison transmission, the TS 45 provides raw power and optimum serviceability. The drive train is combined with superb European quality to create a high-quality driving experience.

#### SAFETY IS OUR STANDARD

This 56 passenger coach ensures the safety of your passengers by offering high safety features on every coach. Standard features include an engine fire suppression system, lane departure warning system, tire pressure monitoring system, ABS, ATC, ESC, RSC, brake pad wear monitoring & warning system, laminated + tempered windows and 3 point safety belts.

#### ADDITIONAL FEATURES

This coach has a high capacity HVAC system with a 6 cylinder A/C compressor, with brushless fans on evaporator and condenser, which ensures low operational & maintenance costs.

#### MAIN FEATURES



Stainless steel



American driveline, ABS, ATC, ECS, RSC, meets UN / ECE R66 rollover regulation



56 seats with restroom, flat floor

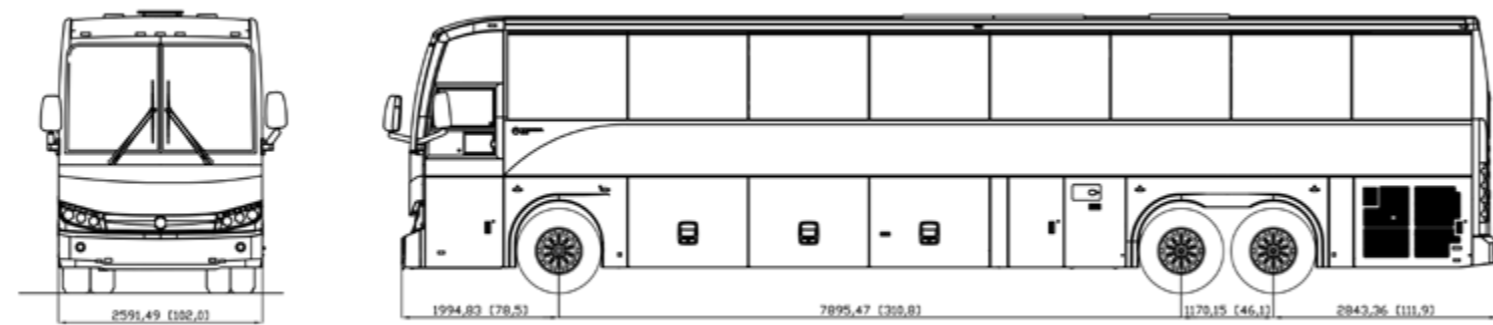


# TS 45

## Technical Specifications

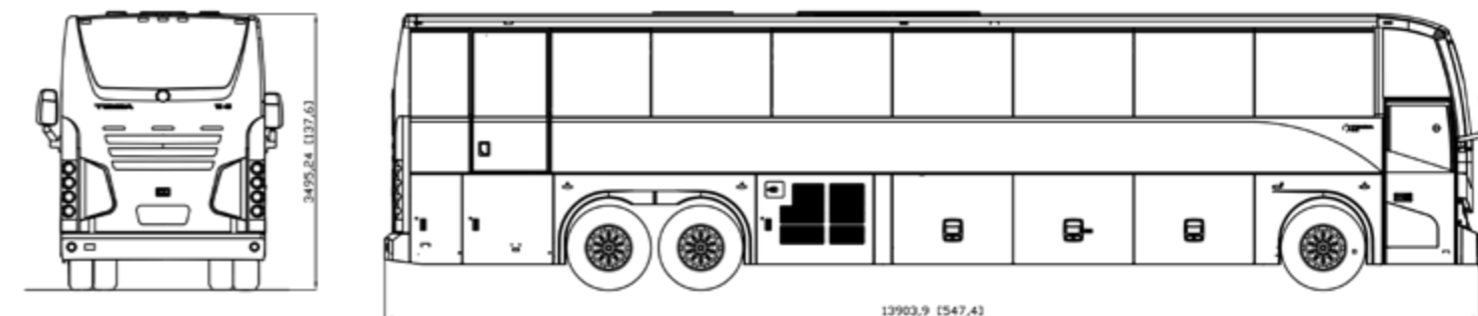
Engine	
Model	Cummins ISX 12 425 HP (EPA 2017)
Number of cylinders / Piston displacement (in³)	6 / 729
Maximum Output	425 HP / 1,800 rpm
Maximum Torque	1650 lb-ft/ 1,100 rpm
Transmission	
Model	Gen 5 Allison B500 (Retarder option)
Axle	
Front Axle	ZF RL 75 E - independent
Rear Axle	ZF A 132
Tag Axle	ZF RL 75 A (Steerable)
Ratio	3.54
Suspension	
Front	2 shock absorbers, 2 air bellows, Independent front suspension 4
Rear	shock absorbers, 4 air bellows
Tag	2 shock absorbers, 2 air bellows
Steering Electrical	
Model	ZF Power Steering
Brakes	
Service Brake	Front/Rear Disc Brakes, Full air
ABS	Standard
RSC	Standard
ESC	Standard
ASR (ATC)	Standard

Structure	
Type	Monocoque structure in stainless steel
Tires and Wheels	
Tire size	315 / 80 R 22.5
Fuel Tank	
Usable fuel tank capacity (US gal)	200
DEF tank capacity (US gal)	15
Dimensions and Weights	
Overall length (ft)	45
Overall width (in)	102
Overall height (incl. air conditioner)	11'6"
Wheelbase (in)	310.8
Overhang front / rear (in)	78.5 / 112
Aisle height (in)	75.78
Turning radius (ft)	40.2
Luggage compartment (ft³)	460
GVWR	51,500 lbs (23,360 kg)
Max. seating arrangement	56+1 with restroom
Electrical System	
System voltage / Battery	2x12V, 225Ah
Alternator	2x140 A Presto Lite (Leece Neville)
Heating and Air Conditioning System	
Driver area	A/C defroster cooling & heating/ windshield defrosting
Passenger compartment / air conditioner	Full automatic HVAC system/ 6 cylinder Bitzer A/C compressor, brushless evaporator and condenser
Preheater	Spheros Thermo E320-32kW Option



## STANDARD EQUIPMENT

- Curtains (roller type for driver side and decorative type for passenger windows) • Air conditioning with roof heating • Full coach raising, front body kneeling system • Modesty panels • First aid kit • Interior mirror • Cruise control • Resettable circuit breakers • Overhead parcel racks • Rear view mirrors • Reflectors • Mud flaps • Tool set • LED type interior & exterior lights • 12V plug for mobile phone use (2 units) • Remote jump start post • 3 point seat belt for driver and passenger seats • 2 manually operated escape hatches (roof) • Electrically operated sun visors • Lane departure warning system • Tire pressure monitoring system • Rearview camera preparation



## STANDARD EQUIPMENT

- Parking sensor on rear bumper • Restroom with 16 gal. holding tank plus a 16 gal. auxiliary lights • Front left parcel rack cover (1 unit) • Engine brake (jacobs) • Pneumatically controlled driver seat (ISRI) • DRL (Daytime Running Lights) • Energy absorbing front/ rear bumper • Fabric seat covers with leather headrest • One color opaque paint • Fire suppression system • Brake pad wear & monitoring system • ABS • ATC • ESC • RSC • Docking lights • Luggage door exterior lights • Extra room for driver in the parcel rack • Laminated + tempered windows

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### **SERVICE & WARRANTY**

TEMSA after sales teams are with you, anytime, anywhere, all around the world so your business always keeps up the good work.

### **Excellent After Sales Services, minimum TCO**

While well coordinated services and innovative solutions for smart mobility offers you maximum vehicle performance and reduced total cost of ownership (TCO) you can enjoy your booming business without any difficulty or losing time.

### **Your vehicle is always brand new**

Enjoy your warranty period and maximize your vehicle's performance with periodic maintenance. TEMSA authorized service locations are home of some of the most experienced professionals in their fields. We take care your vehicle with combination of high level engineering and state of the art technology, just to ensure that you always enjoy your vehicle as it is brand new.

TS 45: 25,000 miles

TS 35: control in 7,500 miles - replacement in 15,000 miles

TS 30: control in 7,500 miles - replacement in 22,500 miles

### **Coach & Bus Genuine Parts**

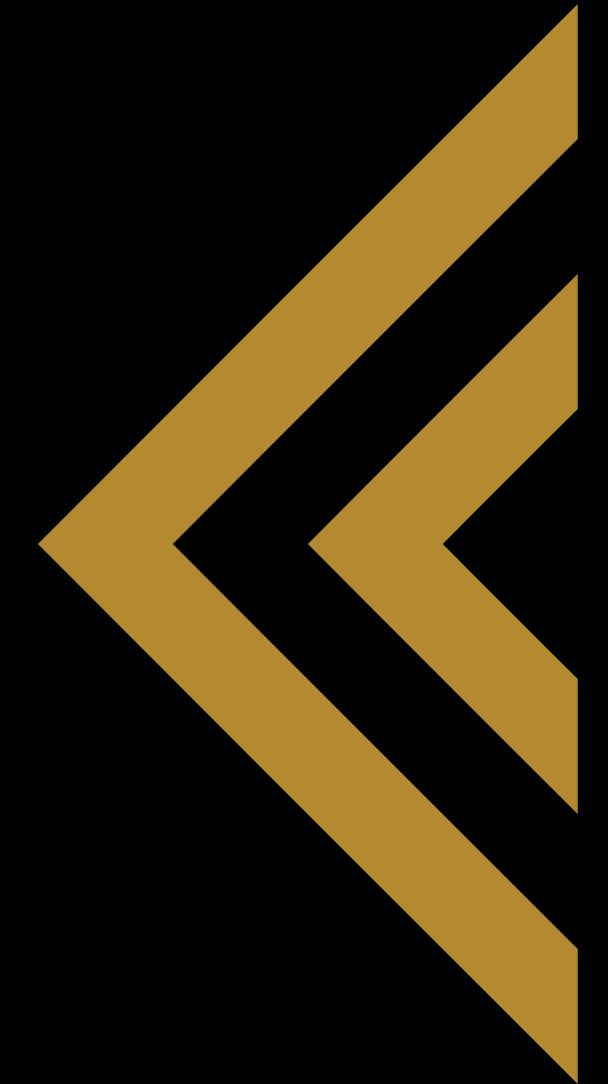
TEMSA Spare Parts are available in 60 different countries through more than 100 authorized dealers.

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## **TEMSA North America Customer Care 24/7 Technical Support**

**833 NA TEMSA**

**833-628-3672**





[www.temsa.com](http://www.temsa.com)

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