



Trolleybus  
ŠKODA 31Tr SOR

## Three-axle articulated 18 m length low-floor trolleybus

• Length	18 750 mm
• Width	2 550 mm
• Height incl. lowered poles	3 400 mm
• Outer turning circle diameter	24 000 mm
• Ramp clearance front/rest	7° / 7°
• Curb weight	15 800 kg

• Total passenger capacity	166
• Seats	50 + 2 + 1

• Type of bus body	SOR Libchavy
• Front axle	SOR Libchavy (rigid portal)
• Middle axle	ZF AVN 132
• Rear axle (driving)	ZF AV 132/80
• Total gear ratio	6,29
• Suspension	pneumatic

## Electrical equipment

### Technical interests:

- IGBT technology
- Asynchronous drive, maintenance-free
- 4 quadrant service (drive and brake)
- Energy recuperation during braking (15%-30%)
- Continuous regulation of moments until zero speed
- Comfort diagnostic system
- Operation on both trolley polarities
- Possible operation on lower power supply

### Roof container SJ 4.3

- Nominal output power of main traction inverter 225 kVA
- Nominal output power of auxiliary inverter 10 kVA
- Nominal current of board 24V battery charger 220 A
- „Double“ electrical insulation inside container
- Protection Classification IP 55
- Cooling AF (air, forced)

## Traction motor

• Asynchronous traction motor	SKODA 2 ML 3846 K/6
• Nominal power	250 kW
• Cooling	self
• Insulation class	200

## Collectors

• Manual	TSS 5.7, Lekov
• Semiautomatic	TSS 10.1, Lekov

## Heating

- Water, with electric boiler, double insulation

## Compressor

- Hydrovane TA6, Compair, single-stage rotary multi-plate

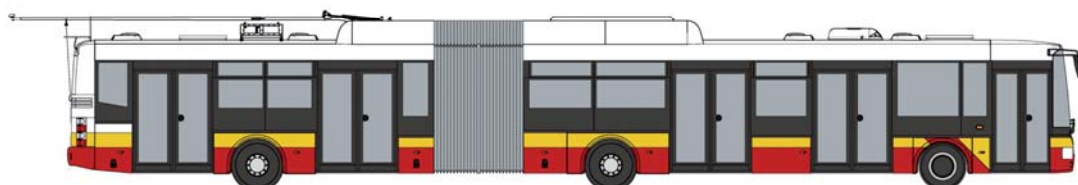
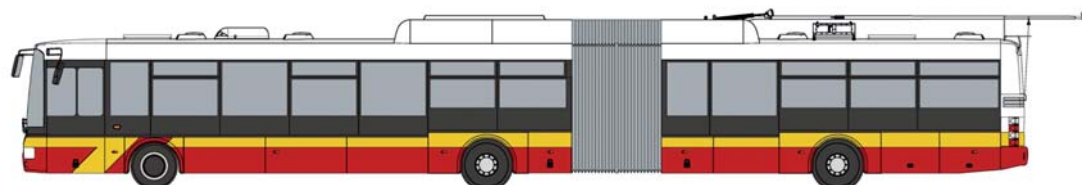
## Options:

### Diesel-electric generator

• Air pollution	EURO 5
• Nominal power	100 kW
• Generator with permanent magnets	

## Air-Conditioning

- For driver
- For passengers



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