

ROLLING STOCK

CURRENT CONDITION OF THE PASSENGER CARRIAGE FLEET

FPC's rolling stock varies by carriage type, age, and service equipment (about 74% are equipped with air conditioners, and approximately 60% with environmentally friendly toilets).

The average carriage age is a key metric showing the technical condition of a carriage fleet (as at 31 December 2018, the average



CHANGES IN CARRIAGE FLEET STRUCTURE, CARRIAGES

CARRIAGE TYPE	DESCRIPTION	FLEET AS AT 31 DECEMBER 2017	ACQUIRED	RETIRED
Deluxe	Compartment carriages, each compartment featuring a shower room, a washbasin, and a toilet	117	-	1
First-class sleeping	Compartment carriages with double berth compartments	848	4	206
RIC	Compartment carriages, European standard size	367	-	28
MIXED	Compartment carriages with deluxe and first-class sleeping compartments	13	-	-
K	Compartment carriages with four-berth compartments	9,111	78	776
O	Third-class open sleeping carriages	7,096	637	1,027
MO	Interregional carriages	698	-	44
B	Baggage carriages	234	-	12
R	Dining carriages	853	5	54
Other	Power cars and ancillary vehicles	49	-	3
Total		19,386	724	2,151

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17,959

cars

**total passenger carriage fleet as
on 31 December 2018**

age of FPC's carriages was 17.7 years). In recent years, the average age of our carriages has been decreasing through massive retirement of carriages reaching the end of their life.



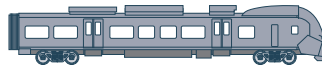
FLEET AS AT 31 DECEMBER 2018	AVERAGE AGE OF CARRIAGES AS AT 31 DECEMBER 2017, YEARS	AVERAGE AGE OF CARRIAGES AS AT 31 DECEMBER 2018, YEARS	AVERAGE WEAR, %
116	10.4	11.2	39.7
646	19.1	17.0	56.4
339	16.6	15.9	45.7
13	5.0	6.0	15.6
8,413	19.5	19.3	67.9
6,706	18.4	15.1	45.6
654	14.8	14.6	51.0
222	20.1	20.4	74.4
804	27.0	27.0	73.5
46	22.0	22.1	64.1
17,959	19.1	17.7	58.6

CARRIAGE TYPE¹
Double-decker compartment carriage with berths
Model 61-4465

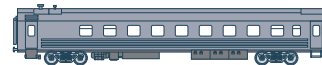
- 64 passengers
- 160 km/h
- Environmentally friendly toilet facility
- Air conditioner
- Water cooler
- Audio and video system


Compartment carriage for train sets
Model 61-4462

- 36 (18) passengers
- 160 km/h
- Environmentally friendly toilet facility
- Air conditioner
- Water cooler
- Audio and video system


Lastochka higher-speed electric train
Desiro RUS

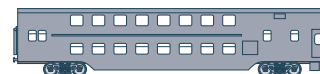
- 443 passengers
- 160 km/h
- Environmentally friendly toilet facility
- Air conditioner (an individual unit in each cab and passenger compartment)
- Retractable steps for easy boarding from and alighting to low platforms (200 mm)
- Passive safety system for passengers
- Floor-mounted racks for large hand luggage


Open sleeping carriage
Model 61-4447

- 54 passengers
- 160 km/h
- Environmentally friendly toilet facility
- Air conditioner
- Fire-extinguishing system connected to the on-board water supply system


RIC type sleeping carriage for use on international routes
Model 61-4476

- 32 passengers
- 160–200 km/h
- Environmentally friendly toilet facility, including a shower
- Climate control (heating, ventilation, and cooling)
- Water supply system
- Reading lights
- Power sockets to charge mobile phones or laptops
- Public address system with a volume control


Double-decker carriage with berths
Model 61-4492

- 60 berths per first-class carriage
- 104 berths per second-class carriage
- 160 km/h
- Environmentally friendly toilet facility
- Air conditioning and purification system
- Passenger information display
- Audio and video system
- Fire alarm system
- Train security and communication monitoring control system

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¹ Design service life: 28 years.



Passenger carriage with seats

Model 61-4458

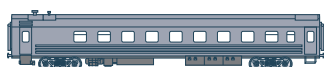
- 60 passengers
- 160 km/h
- Environmentally friendly toilet facility
- Air conditioner
- Water cooler
- Audio and video system
- Attendant call buttons



Compartment carriage with a compartment for special needs passengers

Model 61-4186

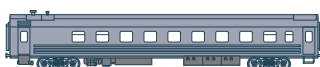
- 26 passengers
- 140 km/h
- Air conditioner
- A special compartment for a special needs passenger and an accompanying person
- A lift for boarding and disembarking wheelchair users
- Wheelchair accessible, extra-wide vestibule, aisle and toilet facility



Open sleeping carriage

Model 61-4194

- 54 passengers
- 140 km/h
- Environmentally friendly toilet facility
- Air conditioner



Second-class sleeping carriage

Model 61-4179

- 36 (18) passengers
- 140 km/h
- Environmentally friendly toilet facility
- Air conditioner



Deluxe carriage

Model 61-4449

- 8–12 passengers
- 140 km/h
- Environmentally friendly toilet facility
- Air conditioner with individual temperature control in each compartment
- A shower room in the compartment
- A safe in the compartment
- Audio and video systems
- A compartment access control system



Strizh higher-speed train

Talgo

- 443 passengers
- 160 km/h
- 7 trains by Patentes Talgo S.L.
- 20 carriages per train, including
 - 1 buffet carriage
 - 1 dining carriage
 - 2 railway service carriages with a diesel generator
- Environmentally friendly toilet facility (motorised carriages)
- Air conditioner (an individual unit in each cab and passenger compartment)
- Retractable steps for easy boarding from and alighting to low platforms (200 mm)
- Passive safety system for passengers
- Floor-mounted racks for large hand luggage

STRIZH HIGHER-SPEED TRAIN (TALGO)

For use on international routes:

- 3 train sets with 1,520/1,435 mm variable-gauge wheelsets
- 216 passenger seats
- 2 first-class carriages with seats
- 9 first- and second-class sleeping carriages
- 2 VIP sleeping carriages with a toilet and a shower in each compartment
- 3 first-class sleeping carriages, each with a compartment for special needs passengers
- Commissioned in 2016

For use on domestic routes

- 4 train sets with fixed-gauge wheelsets
- 414 passenger seats
- 11 first- and second-class carriages with seats
- 5 VIP sleeping carriages with a toilet and a shower in each compartment
- Commissioned in June 2015 (Moscow–Nizhny Novgorod route)