

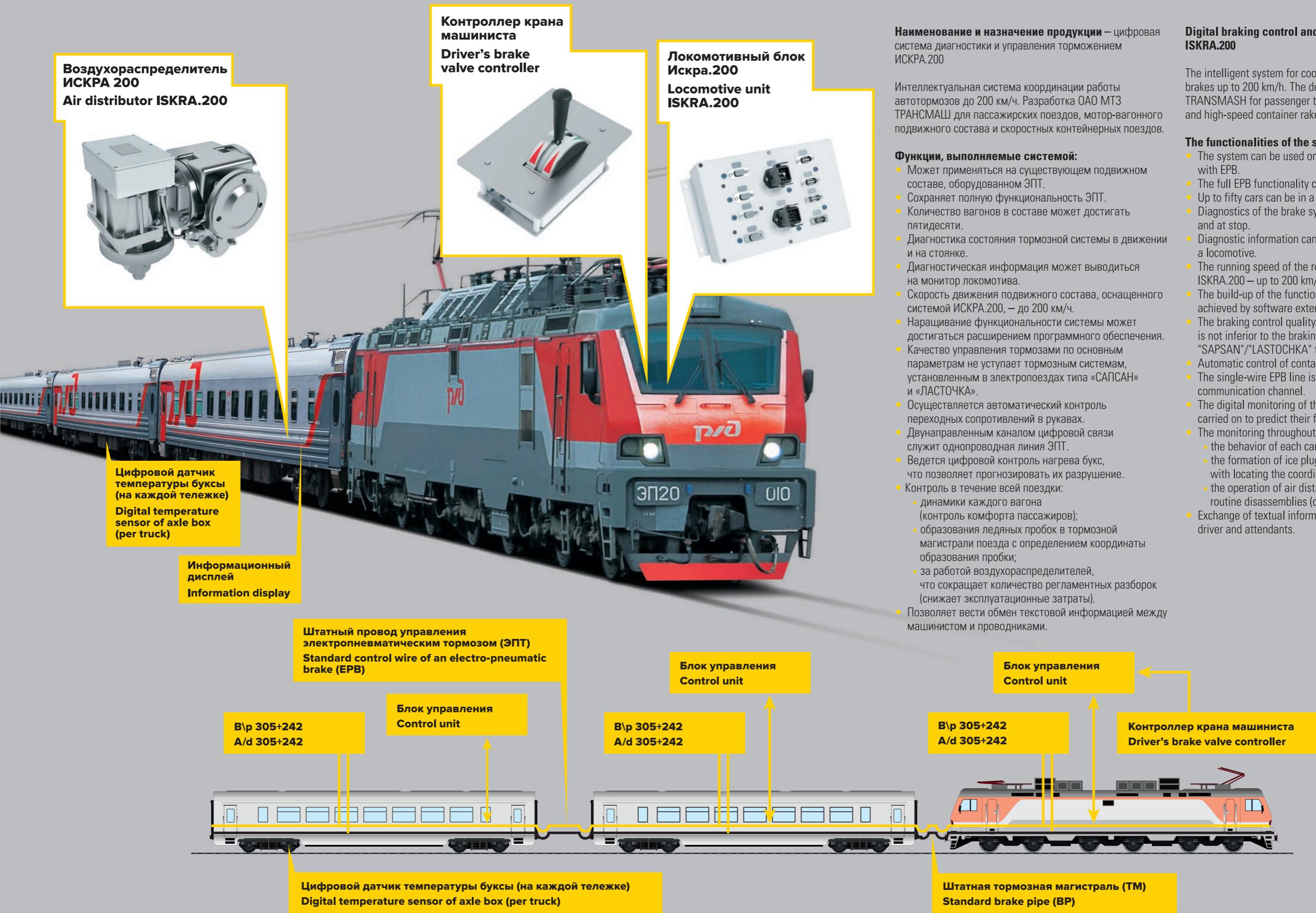
**RUSSIAN
BRAKE SYSTEMS**

Российские тормозные системы

ИСКРА.200

ЦИФРОВАЯ СИСТЕМА ДИАГНОСТИКИ И УПРАВЛЕНИЯ ТОРМОЖЕНИЕМ

Digital braking control
and diagnostics system
ISKRA.200



Digital braking control and diagnostics system ISKRA.200

The intelligent system for coordinating the work of automatic brakes up to 200 km/h. The development of OAO MTZ TRANSMASH for passenger trains, multiple-unit rolling stock and high-speed container rakes.

The functionalities of the system:

- The system can be used on existing rolling stock equipped with EPB.
- The full EPB functionality can be retained.
- Up to fifty cars can be in a train.
- Diagnostics of the brake system condition in running order and at stop.
- Diagnostic information can be displayed on the monitor of a locomotive.
- The running speed of the rolling stock equipped with ISKRA.200 – up to 200 km/h.
- The build-up of the functionality of the system can be achieved by software extension.
- The braking control quality in terms of the key parameters is not inferior to the braking systems installed in the "SAPSAN"/"LASTOCHKA" type electric trains.
- Automatic control of contact resistances in the hoses.
- The single-wire EPB line is used as a bidirectional digital communication channel.
- The digital monitoring of the heating of axle boxes is carried on to predict their failure.
- The monitoring throughout the entire trip over:
 - the behavior of each car (passenger comfort control);
 - the formation of ice plugs in the brake pipe of a train with locating the coordinates of each plug;
 - the operation of air distributors to reduce the number of routine disassemblies (cut-down of operating expenses).
- Exchange of textual information is possible between the driver and attendants.