

Jarosław Moczarski: Research of Semi-Automatic Wagon Shunting Control System PSR-1

The article deals with the automation process of wagon shunting on marshalling yards. The need to modernize existing automatic wagon shunting systems, maintaining the required level of safety as well as the effectiveness of the station operation, is pointed out. The semi-automatic wagon shunting control system PSR-1, which is described, is a modified version of automatic wagon shunting systems (asr) already operated on marshalling yards and big shunting yards on the PKP PLK S.A. – managed network. The construction and scope of the system application are described. Moreover, advantages resulting from adopted modular structure in the modernization process of shunting yards' infrastructure are outlined. The range and results of that system research carried out by the Railway Research Institute are presented.

Keywords: marshalling yards, shunting control system of decoupled wagons