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The power on the pump shaft drive is defined. It was calculated from indicator pressure and theoretical productivity of the pump. As object of the study is chose autotractor diesel 6CHN 12/14 which is completed with the rowing fuel pump of the high pressure FP-635 ($d_n = 12$ mm and $S_n = 15$ mm). For intensification of fuel delivery a Common Rail system was offered. This system can provide the injection pressure up to 200 MPa. The share of the energy losses on drive FPHP in total mechanical loss while intensification of the fuel delivery was calculated.