

Contents

Summary	2
Souhrn	3
1. Introduction	6
1.1 Definition of automatised gearbox	6
2. Past of automation of passenger car gearboxes	7
2.1 Semi-automated transmissions: automated clutch systems	7
2.2 Fully automated transmissions	7
3. Present of automatised gearboxes	9
3.1 Truck solutions	10
4. Future of automatised gearboxes	11
4.1 New internal gearshift systems intended for automation	11
4.1.1 Adaptations of hollow shaft shift mechanism for passenger car use	14
4.1.2 Maybach dog clutch	15
4.2 Systems for power gap cover during gearshift	16
4.2.1 Flywheel based systems	16
4.2.2 Hybrid configuration based systems	16
4.2.3 Possibilities of exploitation of external synchronisation	17
5. Conclusion	18
References	19
Author's CV	20