



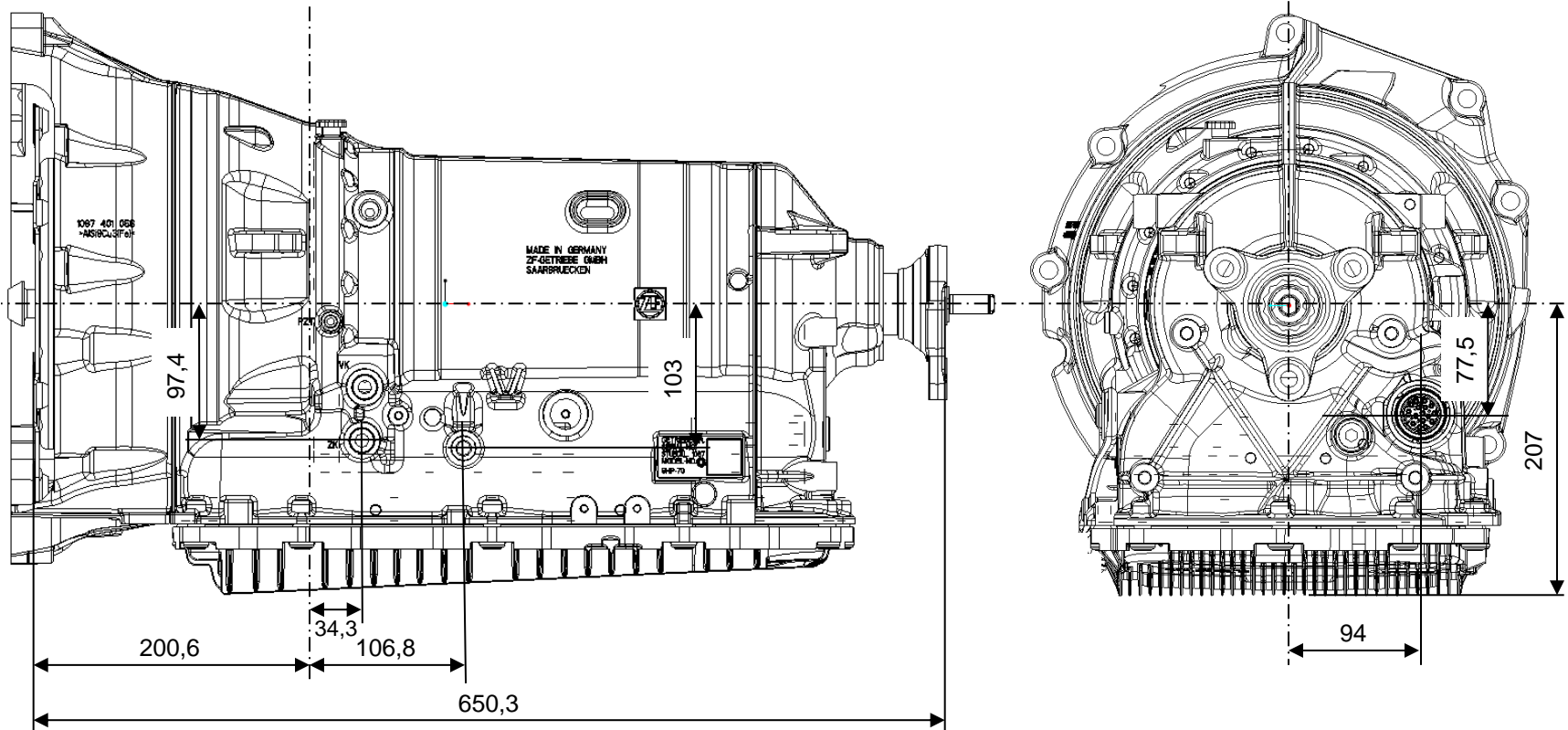
Data sheet 8HP75

ZF Friedrichshafen AG



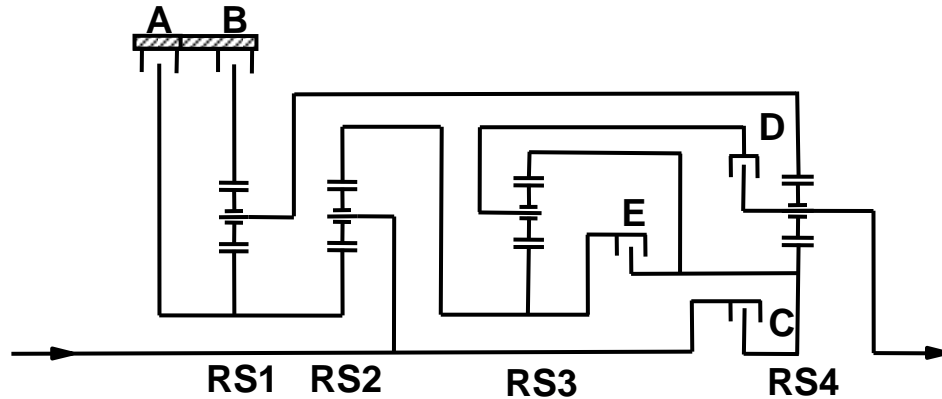
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Basic transmission



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Transmission schematic



Spreading 7,071

Gear	Brake		Clutch			Ratio i	Ratio step
	A	B	C	D	E		
1	●	●	●			4,714	1,50 1,49 1,26 1,30 1,28 1,19 1,26
2	●	●			●	3,143	
3		●	●		●	2,106	
4		●		●	●	1,667	
5		●	●	●		1,285	
6			●	●	●	1,000	
7	●		●	●		0,839	
8	●			●	●	0,667	
R	●	●		●		-3,317	Total 7,071

Spreading 7,813

Gear	Brake		Clutch			Ratio i	Ratio step
	A	B	C	D	E		
1	●	●	●			5,000	1,563 1,493 1,246 1,310 1,313 1,216 1,285
2	●	●			●	3,200	
3		●	●		●	2,143	
4		●		●	●	1,720	
5		●	●	●		1,313	
6			●	●	●	1,000	
7	●		●	●		0,823	
8	●			●	●	0,640	
R	●	●		●		-3,478	Total 7,813

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Basic data spreading 7,1



Transmission type	automatic car transmission 8 gears; standard drive-line				
		Petrol		Diesel	
	separation of clutch disks	without	with	without	with
Capacity	T _{max} Combustion engine	700 Nm	500 Nm	740 Nm	630 Nm
	P _{max} Combustion engine	380 kW	260 kW	280 kW	230 kW
	T _{max} Turbine forward	660 Nm / 760 Nm *)			
	T _{max} Turbine backward	550 Nm / 600 Nm *)			
Speed resistance	n _{max} 1. to 6. Gear	7200 min ⁻¹			
	n _{max} 7. Gear	6000 min ⁻¹			
	n _{max} 8. Gear	4600 min ⁻¹			
	n _{max} R-Gear	2500 min ⁻¹ (3500 min ⁻¹ for 5 second)			
Priming element	torque converter	NW 250 TTD			
Mass	dependent on equipment and torque converter	86 kg			
Running life	ZF load cycle / 150 000 km / CARLOS PTA Routenmix maximum vehicle speed 250 km/h vehicle weight limousine constant ratio petrol-engine 2 OD / diesel-engine 1 OD Share of trailer ratio 5 %				
Emergency gear	6. Gear				
Note	Applications with deviating boundary conditions are possible, but require a separate verification.				

*) dependent on the wheel set equipment

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Basic data spreading 7,8



Transmission type	automatic car transmission 8 gears; standard drive-line				
		Petrol		Diesel	
	separation of clutch disks	without	with	without	with
Capacity	T _{max} Combustion engine	700 Nm	500 Nm	740 Nm	630 Nm
	P _{max} Combustion engine	350 kW	260 kW	280 kW	230 kW
	T _{max} Turbine forward	660 Nm / 760 Nm *)			
	T _{max} Turbine backward	550 Nm / 600 Nm *)			
Speed resistance	n _{max} 1. to 6. Gear	7200 min ⁻¹			
	n _{max} 7. Gear	6000 min ⁻¹			
	n _{max} 8. Gear	4600 min ⁻¹			
	n _{max} R-Gear	2500 min ⁻¹ (3500 min ⁻¹ for 5 second)			
Priming element	torque converter	NW 250 TTD			
Mass	dependent on equipment and torque converter	86 kg			
Running life	ZF load cycle / 150 000 km / CARLOS PTA Routenmix maximum vehicle speed 250 km/h vehicle weight limousine constant ratio petrol-engine 2 OD / diesel-engine 1 OD Share of trailer ratio 5 %				
Emergency gear	6. Gear				
Note	Applications with deviating boundary conditions are possible, but require a separate verification.				

*) dependent on the wheel set equipment