

# Torque Converter Transmissions Synchro Shuttle

MAIN TECHNICAL DATA	TCB80 2WD				TCB80 4WD			
Power Rating	82 kW @ 2,200 rpm				82 kW @ 2,200 rpm			
Max input Torque	750 Nm				750 Nm			
Max input speed	2,400 rpm				2,400 rpm			
Internal Pump Type	Gear				Gear			
Engine Flywheel Interface	SAE 3				SAE 3			
Output Flange Type	Yoke 1410				Yoke 1410			
2WD output drop from Engine	180 mm				180 mm			
4WD output drop from Engine	-				323 mm			
Vehicle Pump Interface	SAE C				SAE C			
Torque Converter Size	W300				W300			
Speed Gear	4 Fwd + 4 Rev				4 Fwd + 4 Rev			
Fwd/Rev Ratios Option	1:1 / 1:0.829				1:1 / 1:0.829			
Fwd Speed Gear Ratios	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>
	5.603:1	3.481:1	1.585:1	0.793:1	5.603:1	3.481:1	1.585:1	0.793:1
MFD Ratio Options	-				0.8:1 / 0.818:1 / 0.895:1			
Electronic Control	No				No			
Reverser	Power Reverse				Power Reverse			
Gear Shifting	Synchro Shuttle				Synchro Shuttle			
Direct Drive Option	Yes				Yes			
MFD Connection Options	-				SAHR Dog Clutch / SAHR Collar Shift / Positive Clutch			
Parking Brake Options	None / SAHR Wet Discs / Manual Wet Discs				None / SAHR Wet Discs / Manual Wet Discs			
Spin-On Oil Filter Options	Horizontal / Vertical / Remote				Horizontal / Vertical / Remote			
Electric System Voltage	12V				12V			
Differential Lock Solenoid	On Control Valve Assy				On Control Valve Assy			
Power Brake in/out Ports	15 bar nom.				15 bar nom.			
Speed Sensor	Available				Available			
Temperature Sensor	Available				Available			
Pressure Sensor	Available				Available			
Electrical Harness	N/A				N/A			

All specifications can be subject to changes without prior advice by Carraro



# Torque Converter Transmissions

## Power Synchro

MAIN TECHNICAL DATA	TCB80 SPS 4WD	TCB80 SPS Coaxial
Power Rating	82 kW @ 2,200 rpm	82 kW @ 2,200 rpm
Max input Torque	750 Nm	750 Nm
Max input speed	2,400 rpm	2,400 rpm
Internal Pump Type	Gear	Gear
Engine Flywheel Interface	SAE 3	SAE 3
Output Flange Type	Yoke 1410	Yoke 1410
2WD output drop from Engine	180 mm	335 mm
4WD output drop from Engine	323 mm	335 mm
Vehicle Pump Interface	SAE C	SAE C
Torque Converter Size	W300	W300
Speed Gear	4 Fwd + 4 Rev	4 Fwd + 4 Rev
Fwd/Rev Ratios Option	1:1 / 1:0.829	1:1 / 1:0.829
FWD Speed Gear Ratios	1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5.603:1   3.481:1   1.585:1   0.793:1	1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5.603:1   3.481:1   1.585:1   0.793:1
MFD Ratio Options	0.8:1 / 0.818:1 / 0.895:1	1:1
Electronic Control	Yes	Yes
Reverser	Power Reverse	Power Reverse
Gear Shifting	Servo Power Synchro	Servo Power Synchro
Direct Drive Option	Yes	Yes
MFD Connection Options	SAHR Dog Clutch / SAHR Wet Clutch / Positive Clutch	Permanent / SAHR Dog Clutch SAHR Wet Clutch
Parking Brake Options	None / SAHR Wet Discs / Manual Wet Discs	None / SAHR Wet Discs / Manual Wet Discs
Spin-On Oil Filter Options	Vertical / Remote	Vertical / Remote
Electric System Voltage	12V	12V
Differential Lock Solenoid	On Control Valve Assy	On Control Valve Assy
Power Brake in/out Ports	15 bar nom.	15 bar nom.
Speed Sensor	Yes	Yes
Temperature Sensor	Yes	Yes
Pressure Sensor	Yes	Yes
Electrical Harness	Available	Available

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# Torque Converter Transmissions Power Shift

MAIN TECHNICAL DATA	TCB90 PS 4WD	TCB90 PS Coaxial
Power Rating	90 kW @ 2,200 rpm	90 kW @ 2,200 rpm
Max input Torque	850 Nm	850 Nm
Max input speed	2,400 rpm	2,400 rpm
Internal Pump Type	Gear	Gear
Engine Flywheel Interface	SAE 3	SAE 3
Output Flange Type	Yoke 1410	Yoke 1410
2WD output drop from Engine	188 mm	350 mm
4WD output drop from Engine	350 mm	350 mm
Vehicle Pump Interface	SAE C	SAE C
Torque Converter Size	W300	W300
Speed Gear	4 Fwd + 4 Rev	4 Fwd + 4 Rev
Fwd/Rev Ratios Option	1:1 / 1:0.829	1:1 / 1:0.829
FWD Speed Gear Ratios	1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5.533:1 3.359:1 1.533:1 0.811:1	1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 4.426:1 2.687:1 1.226:1 0.649:1
MFD Ratio Options	0.804:1	1:1
Electronic Control	Yes	Yes
Reverser	Power Reverse	Power Reverse
Gear Shifting	Power Shift	Power Shift
Direct Drive Option	Yes	Yes
MFD Connection Options	SAHR Wet Clutch	Permanent / SAHR Wet Clutch
Parking Brake Options	None / SAHR Wet Discs / Manual Wet Discs	None / SAHR Wet Discs / Manual Wet Discs
Spin-On Oil Filter Options	Horizontal / Vertical / Remote	Horizontal / Vertical / Remote
Electric System Voltage	12V	12V
Differential Lock Solenoid	On Control Valve Assy	On Control Valve Assy
Power Brake in/out Ports	15 bar nom.	15 bar nom.
Speed Sensor	Yes	Yes
Temperature Sensor	Yes	Yes
Pressure Sensor	Yes	Yes
Electrical Harness	Available	Available

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