
506 Agricultural transaxle

Features

- › The 2-shaft design reduces gearbox size and provides ample room in the driver area, significantly enhancing ergonomics and comfort.
- › The basic configuration offers synchronized reverser ensuring easy and rapid reversal when manoeuvring in narrow spaces typical of vineyards and orchards.
- › The basic version complete with synchronized constant mesh gears 8 forward / 8 reverse gears ensures driving comfort and reliability, as well as significant tractor cost savings.
- › The wet service brakes, situated near the differential and before the final reduction, are designed to be virtually maintenance-free and to last as long as the tractor. The basic version control is manual/mechanical, while the hydraulic control is available as an optional on the version with suspended pedals for tractors with cabs, etc.
- › The ground drive rear power take-off (GD-PTO), basic on the 12 forward / 12 reverse and 24 forward / 24 reverse gear versions, allows the attachment of a motor trailer, improving versatility and traction on slopes or muddy terrain.
- › The independent rear PTO has been designed to transmit all the engine's power and is therefore ideal for Vineyard/Orchard tractors and light duty STD's which are mainly used with attachments such as sprayers, balers, rotary cultivators, etc.
- › The SAE 3 clutch housing ensures connection to different makes of diesel engine and satisfies the flexibility and brand image requirements of the various manufacturers.

Options

- › The wide range of optionals available, such as 12 forward / 12 reverse or 24 forward / 24 reverse gears, 30 km/h or 40 km/h and creeper, are designed to satisfy the needs of state-of-the-art, high productivity tractors.
- › The central position 4WD box option, designed for 4WD front axles with central differential, incorporates the patented Easy-shift system which provides shifting on-the-go and under load. Available for the 40 km/h version is a 4WD box with spring-applied hydraulic release operated by a solenoid valve electrical control, so as to obtain automatic braking on the four wheels when the brake pedals are engaged.
- › The twin dry disk central clutch option completes the supply. The rear PTO clutch disk can be supplied either in the "normally closed" or "normally open" version. The latter version offers, via cam control, the same feathered engagement of the PTO achieved with an hydraulically-controlled wet multidisk clutch, with clear advantages in terms of cost and engineering simplicity.
- › The 540 rpm one-speed rear PTO is offered in the basic version, while the two speed 540/540E or 540/1000, available as an optional, enhances cost-convenience and versatility.
- › The clutch housing with special length and interface can be supplied on request to satisfy specific vehicle architecture requirements.
- › The draft, position and mixed control hydraulic lift, together with descent speed and sensitivity control, is available as an optional. Situated at the top of the transmission, it is fully integrated in the driveline.

Input power max kW	kW	51	51	51	60.5	60.5	60.5
Input rotational speed max	rpm	2300	2300	2300	2300	2300	2300
Input torque max	Nm	272	272	272	324	324	324

NUMBER OF GEARS

· Main transmission		4 x 2	4 x 3	4 x 3	4 x 2	4 x 3	4 x 3
· Split/reversing transmission		1F + 1R	1F + 1R	2F + 2R	1F + 1R	1F + 1R	2F + 2R
· Total		8F + 8R	12F + 12R	24F + 24R	8F + 8R	12F + 12R	24F + 24R

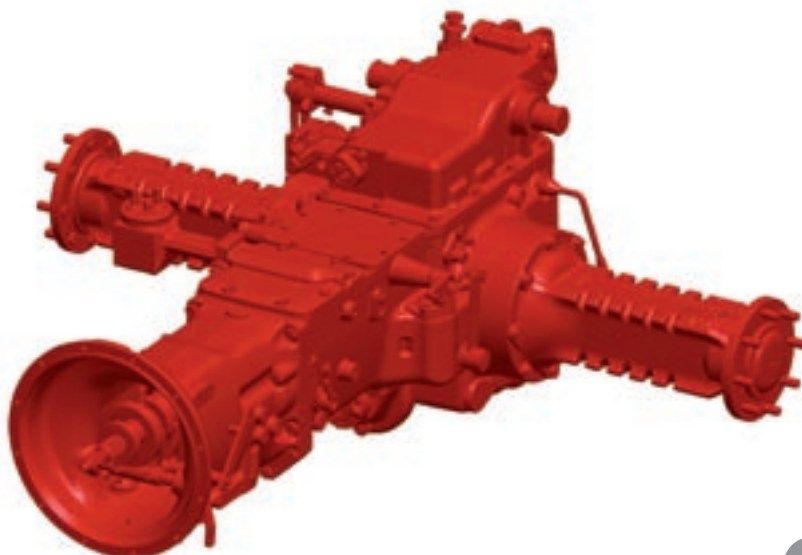
SHIFTING

· Main transmission		Shift synchronized range collar shift	Shift synchronized range collar shift	Shift synchronized range collar shift	Shift synchronized range collar shift	Shift synchronized range collar shift	Shift synchronized range collar shift
· Split transmission		-	-	Synchronized or Power-shiftable	-	-	Synchronized or Power-shiftable
· Forward/Reverse Transmission		Synchronized	Synchronized or Power-shiftable	Synchronized or Power-shiftable	Synchronized	Synchronized or Power-shiftable	Synchronized or Power-shiftable

Axle flange to flange distance	mm	1540	1540	1540	1540	1540	1540
Max torque at rear axle	kNm	14.9	14.9	14.9	17.6	17.6	17.6
MFWD Dynamic peak torque max	kNm	1.15	1.15	1.15	1.36	1.36	1.36
Total weight of vehicle max	kN	3.24	3.24	3.24	3.82	3.82	3.82
Rear axle max allowed tires		16.9R30	16.9R30	16.9R30	16.9R30	16.9R30	16.9R30
Radius index	mm	700	700	700	700	700	700
Total weight of transaxle max [including rockshaft and MFWD]	kN	0.725	0.725	0.725	0.735	0.735	0.735

OPTIONS

1 or 2 Pto speed / Ground drive Pto / Mechanical or hydraulic brakes / Mechanical or hydraulic rear differential lock engagement



Input power max kW	kW	62	62	62	68	68	68
Input rotational speed max	rpm	2300	2300	2300	2300	2300	2300
Input torque max	Nm	297	297	297	360	360	360

NUMBER OF GEARS

· Main transmission		4 x 2	4 x 3	4 x 3	4 x 2	4 x 3	4 x 3
· Split/reversing transmission		1F + 1R	1F + 1R	2F + 2R	1F + 1R	1F + 1R	2F + 2R
· Total		8F + 8R	12F + 12R	24F + 24R	8F + 8R	12F + 12R	24F + 24R

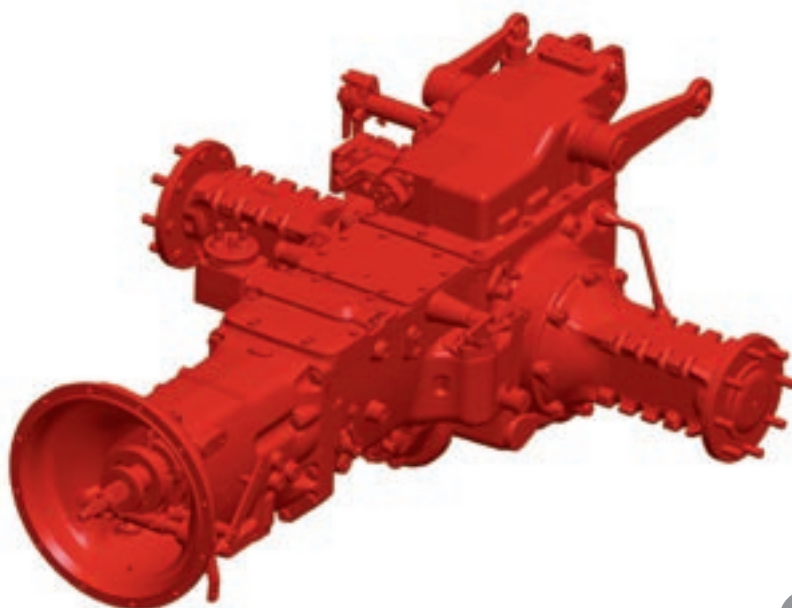
SHIFTING

· Main transmission		Shift synchronized range collar shift	Shift synchronized range collar shift	Shift synchronized range collar shift	Shift synchronized range collar shift	Shift synchronized range collar shift	Shift synchronized range collar shift
· Split transmission		-	-	Synchronized or Power-shiftable	-	-	Synchronized or Power-shiftable
· Forward/Reverse Transmission		Synchronized	Synchronized or Power-shiftable	Synchronized or Power-shiftable	Synchronized	Synchronized or Power-shiftable	Synchronized or Power-shiftable

Axle flange to flange distance	mm	1240	1240	1240	1240	1240	1240
Max torque at rear axle	kNm	14.1	14.1	14.1	16.1	16.1	16.1
MFWD Dynamic peak torque max	kNm	0.98	0.98	0.98	1.12	1.12	1.12
Total weight of vehicle max	kNm	3.2	3.2	3.2	3.6	3.6	3.6
Rear axle max allowed tires		16.9R28	16.9R28	16.9R28	16.9R28	16.9R28	16.9R28
Radius index	mm	675	675	675	675	675	675
Total weight of transaxle max [including rockshaft and MFWD]	kN	0.7	0.7	0.7	0.71	0.71	0.71

OPTIONS

1 or 2 Pto speed / Ground drive Pto / Mechanical or hydraulic brakes / Mechanical or hydraulic rear differential lock engagement



Input power max kW	kW	68	68	68
Input rotational speed max	rpm	2300	2300	2300
Input torque max	Nm	360	360	360

NUMBER OF GEARS

· Main transmission		4 x 2	4 x 3	4 x 3
· Split/reversing transmission		1F + 1R	1F + 1R	2F + 2R
· Total		8F + 8R	12F + 12R	24F + 24R

SHIFTING

· Main transmission		Shift synchronized range collar shift	Shift synchronized range collar shift	Shift synchronized range collar shift
· Split transmission		-	-	Synchronized or Powershifttable
· Forward/Reverse Transmission		Synchronized	Synchronized or Powershifttable	Synchronized or Powershifttable

Flange to flange distance	mm	890 or 970	890 or 970	890 or 970
Max torque at rear axle	kNm	13.8	13.8	13.8
MFWD Dynamic peak torque max	kNm	0.89	0.89	0.89
Total weight of vehicle max	kN	3.2	3.2	3.2
Rear axle max allowed tires		13.6R28	13.6R28	13.6R28
Radius index	mm	625	625	625
Total weight of transaxle max [including rockshaft and MFWD]	kN	0.68	0.68	0.68

OPTIONS

1 or 2 Pto speed / Ground drive Pto / Mechanical or hydraulic brakes / Mechanical or hydraulic rear differential lock engagement

