

Speeds and Transmission ratios

at rated engine speed of 2200 rpm , Axle ratio $i = 6,53$ and tyres 12,5R20 or 335/80R20

U 3000 / U 4000			Basic gears		Off-road gears (optional)	
gears	Transmission ratio		13,0		13,0 x 5,76 (G20)	
	forward	backward	Speed in km/h			
			forward	backward	forward	backward
1	9,57	14,56	6,6	4,3	1,1	0,8
2	6,63	10,10	9,5	6,2	1,7	1,1
3	4,37	6,66	4,4	9,5	2,5	1,6
4	3,21	4,90	9,6	12,9	3,4	2,2
5	2,18	3,33	28,8	18,9	5,0	3,3
6	1,51	2,30	41,6	27,3	7,2	4,7
7	1,00	1,52	63,1	-	11,0	7,2
8	0,73	1,12	85,0*	-	14,2	9,8

*electronically limited to 85 km/h, max. speed at max. engine RPM:
ca. 97 km/h (with tyres 12,5R20), ca. 102 km/h (with tyres 365/80R20)

Transmission

Fully synchronised MB 8-speed electrical-pneumatic shifting gear box with integrated transfer box and pneumatically switched drive for both axles. 6 reverse gears. Off-road gears are optional.

Electronic Quick Reverse (EQR), electropneumatic forward/reverse shifting.

Transmission ratios: see Table

PTO shafts / Special drives (optional)

At engine speed 2200 rpm

	i=	rpm
• Fast PTO (N16)	1	2200
Rotation		anti-clockwise
• Very fast PTO (N19)	0,61	3600
Rotation		clockwise

At engine speed 2500 rpm

• Fast PTO (N16)	1	2500
Rotation		anti-clockwise
• Very fast PTO (N19)	0,61	4100
Rotation		clockwise

Hydraulic system (optional)

Single circuit hydraulic system

Max. working pressure	bar	240
Circuit capacity	l/min	60
Oil capacity	litres	25
Quick release couplings front/rear		2/2

Chassis frame

Extremely torque-resistant ladder-type frame consisting of two U-shaped longitudinal members and tubular cross members.

Cab and rear platform/superstructure attached to the frame at three points on bearings and hence torsion-free. Torsion-free sub frame for superstructures available. Mounting brackets: front and middle (all optional).

Axles and suspension

Portal axles with differential locks front and rear, wheel hub drives, panhard rods and torque tubes. Coil springs, telescopic shock-absorbers and stabilisers front and rear. Central tire inflation system (optional).

Fording ability

Basic vehicle	mm	800
Fording device (optional)	mm	1200

Steering

Hydraulic power-assisted steering	ZF 8095
Turning circle Ø	
at wheelbase 3250 mm	ca. 14,5 m
at wheelbase 3850 mm	ca. 16,3 m

Brakes

Service brake:

Pneumatic-hydraulic twin circuit disk brakes with 4-channel ABS (disengageable). Automatic load responsive brake system (ALB).

Parking brake:

Spring brake system acting on the rear wheel brake discs.

Four wheel parking brake (optional).

Engine brake:

2-stage, actuated pneumatically by multiple function lever at the steering column, with exhaust flap and constant throttle.

Tyres

Basic execution	12,5R20
	335/80R20
Optional	365/80R20
	405/70R20

Weights/Bodies

	U 3000 / U 4000
Standard version GVW, max.	kg 9500
FA load, max.	kg 4400
RA load, max.	kg 5300
For fire brigade:	
Standard version GVW, max.	kg 10000
FA load, max.	kg 4500
RA load, max.	kg 5800

Platform

Maximum length:	
Short wheelbase	3.250 mm
Long wheelbase	4.100 mm

Cab

Version:	Tiltable all-stell cab with roof hatch (optional), three point mounted, crew cab (optional).
Doors:	Two doors with locks, storage compartments and 2 crank windows.
Driver's seat:	Nicely upholstered, with longitudinal and vertical adjustment; bak-krest adjustable. Hydraulically suspended seat is available as option.
Co-driver's seat:	Same as driver's seat, two seat fold-away passenger bench (optional).
Interior:	The interior materials can be cleaned easily. Two rear window mirrors (optionally heated and electrically adjustable).
Heating and ventilation:	Warm water circulatory heating with electric pump, 3 speed fan, vents for wind screens and side windows, air intake filtered. Air conditioning available as option.
Bonnet:	Can be raised or removed easily for maintenance.

Instruments

Large instrument panel with LCD displays and controls for speed (kmh or mph), engine revolutions, air pressure in braking system, cooling water temperature, fuel reserves, four wheel drive and differential locks engagement, outside temperature, brake lining wear, brake liquid level, air filter maintenance, engine oil level, off-road gears, operating hours, mileage and day's mileage, time, driver information system (FIS), pto engagement, anti-lock-braking system (ABS), optical and acoustic failure warning signals, tachograph (optional).

Lights

2 halogen headlights with asymmetrical dip, height adjustable. Indicator lights, marker lights (when applicable), hazard warning lights. Rear lights, number plate light, reversing light and a rear fog light. Rotating beacon (optional).

Trailer couplings (optional)

Rear:		
Q 06 Messrs. Ringfeder	Typ	86G110
Hole Pattern		83 x 56 mm
Max. vertical load	kg	500
D - value	kN	66
Front:		
Towing device		
towing eye, integrated in bumper		
Trailer couplings (optional)		



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