



KBD 40 - 50S

1.1	Manufacturer		KION BAOLI	KION BAOLI	KION BAOLI
1.2	Manufacturer's type designation		KBD 40 Kohler	KBD 40 Deutz EU5	KBD 40 Weichai
1.3	Drive: electric, diesel, petrol, fuel gas		Diesel	Diesel	Diesel
1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated
1.5	Rated capacity / Rated load	Q (t)	4,0	4,0	4,0
1.6	Load centre distance	c (mm)	500	500	500
1.8	Load distance, centre of drive axle to fork	x (mm)	562	562	562
1.9	Wheelbase	y (mm)	2000	2000	2000
2.1	Service weight	Kg	6380	6800	6780
2.2	Axle loading, laden front/rear	Kg	9270/1250	9627/1243	9830/1250
2.3	Axle loading, unladen front/rear	Kg	3020/3360	2731/3676	3340/3440
3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		SE	SE	SE
3.2	Tyre size, front		300-15-20PR	300-15-20PR	300-15-20PR
3.3	Tyre size, rear		7,00-12-12PR	7,00-12-12PR	7,00-12-12PR
3.6	Tread, front	b10 (mm)	1180	1180	1180
3.7	Tread, rear	b11 (mm)	1190	1190	1190
4.1	Tilt of mast/fork carriage forward/backward	α/β (°)	6/12	6/12	6/12
4.2	Height, mast lowered	h1 (mm)	2390	2390	2390
4.3	Free lift	h2 (mm)	150	150	150
4.4	Lift	h3 (mm)	3000	3000	3000
4.5	Height, mast extended	h4 (mm)	4275	4275	4275
4.7	Height of overhead guard (cabin)	h6 (mm)	2260	2260	2260
4.8	Seat height/stand height	h7 (mm)	1280	1315	1280
4.12	Coupling height	h10 (mm)	380	380	380
4.19	Overall length	l1 (mm)	4180	4180	4180
4.20	Length to face of forks	l2 (mm)	3110	3110	3110
4.21	Overall width	b1/b2 (mm)	1485	1485	1485
4.22	Fork dimensions ISO 2331	s/e/l (mm)	50/150/1070	50/150/1070	50/150/1070
4.23	Fork carriage ISO 2328, class/type A, B		III A	III A	III A
4.24	Fork carriage width	b3 (mm)	1380	1380	1380
4.31	Ground clearance, laden, below mast	m1 (mm)	145	145	145
4.32	Ground clearance, centre of wheelbase	m2 (mm)	180	180	180
4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	4552	4552	4552
4.34.2	Aisle width for pallets 800 x 1200 crossways	Ast (mm)	4352	4752	4352
4.35	Turning radius	Wa (mm)	2790	2790	2790
4.36	Internal turning radius	b13 (mm)	900	900	900
5.1	Travel speed, laden/unladen	km/h	23/25	24/25	25,3/26,2
5.2	Lift speed, laden/unladen	m/s	0,450/0,500	0,440/0,530	0,456/0,528
5.3	Lowering speed, laden/unladen	m/s	0,400/0,320	0,420/0,290	0,455/0,320
5.5	Drawbar pull, laden/unladen	kN	20	25/23	24
5.7	Gradeability, laden/unladen	%	20	20	20
5.10	Service brake		Mech/Hydr	Mech/Hydr	Mech/Hydr
7.1	Engine manufacturer/type		Kohler KDI2504	Deutz TCD2.9 L4	Weichai WP4.1
7.2	Engine power according to ISO 1585	kW	55.4	55.4	62.5
7.3	Rated speed	min-1	2200	2300	2300
7.4	Number of cylinders/displacement	cm3	4/2482	4/2900	4/4090
7.5	Fuel consumption at turnover output	l/h or kg/h	-	5,1 l/h	10
7.9	Vehicle electrical system voltage	V	12	12	24
8.1	Type of drive unit		Hydrodynamic	Hydrodynamic	Hydrodynamic
10.4	Fuel tank, capacity	l/kg	90/75	90	90/75
10.8	Towing coupling, type DIN		Pin	Pin	Pin

1.1	Manufacturer		KION BAOLI	KION BAOLI	KION BAOLI
1.2	Manufacturer's type designation		KBD 40 Isuzu	KBD 40 Mitsubishi	KBD 50S Kohler
1.3	Drive: electric, diesel, petrol, fuel gas		Diesel	Diesel	Diesel
1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated
1.5	Rated capacity / Rated load	Q (t)	4,0	4,0	5,0
1.6	Load centre distance	c (mm)	500	500	500
1.8	Load distance, centre of drive axle to fork	x (mm)	562	562	567
1.9	Wheelbase	y (mm)	2000	2000	2000
2.1	Service weight	Kg	6780	7240	6980
2.2	Axle loading, laden front/rear	Kg	9830/1250	10240/1100	10800/1320
2.3	Axle loading, unladen front/rear	Kg	3340/3440	3800/3440	2900/4080
3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		SE	SE	SE
3.2	Tyre size, front		300-15-20PR	300-15-20PR	300-15-20PR
3.3	Tyre size, rear		7,00-12-12PR	7,00-12-12PR	7,00-12-12PR
3.6	Tread, front	b10 (mm)	1180	1180	1180
3.7	Tread, rear	b11 (mm)	1190	1190	1190
4.1	Tilt of mast/fork carriage forward/backward	α/β (°)	6/12	6/12	6/12
4.2	Height, mast lowered	h1 (mm)	2390	2390	2390
4.3	Free lift	h2 (mm)	150	150	155
4.4	Lift	h3 (mm)	3000	3000	3000
4.5	Height, mast extended	h4 (mm)	4275	4275	4275
4.7	Height of overhead guard (cabin)	h6 (mm)	2260	2260	2260
4.8	Seat height/stand height	h7 (mm)	1280	1280	1280
4.12	Coupling height	h10 (mm)	380	380	380
4.19	Overall length	l1 (mm)	4180	4180	4230
4.20	Length to face of forks	l2 (mm)	3110	3110	3160
4.21	Overall width	b1/b2 (mm)	1485	1485	1485
4.22	Fork dimensions ISO 2331	s/e/l (mm)	50/150/1070	50/140/1070	55/150/1070
4.23	Fork carriage ISO 2328, class/type A, B		III A	III A	III A
4.24	Fork carriage width	b3 (mm)	1380	1380	1380
4.31	Ground clearance, laden, below mast	m1 (mm)	145	145	145
4.32	Ground clearance, centre of wheelbase	m2 (mm)	180	180	180
4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	4552	4627	4597
4.34.2	Aisle width for pallets 800 x 1200 crossways	Ast (mm)	4352	4627	4397
4.35	Turning radius	Wa (mm)	2790	2790	2830
4.36	Internal turning radius	b13 (mm)	900	900	900
5.1	Travel speed, laden/unladen	km/h	25,3/26,2	24,4/25,3	23/25
5.2	Lift speed, laden/unladen	m/s	0,456/0,528	0,440/0,530	0,450/0,500
5.3	Lowering speed, laden/unladen	m/s	0,455/0,320	0,420/0,290	0,400/0,320
5.5	Drawbar pull, laden/unladen	kN	24	24	20
5.7	Gradeability, laden/unladen	%	20	20	20
5.10	Service brake		Mech/Hydr	Mech/Hydr	Mech/Hydr
7.1	Engine manufacturer/type		Isuzu 6BG1 QC-05	Mitsubishi S6S	Kohler KDI2504
7.2	Engine power according to ISO 1585	kW	68	52	55.4
7.3	Rated speed	min-1	2000	2300	2200
7.4	Number of cylinders/displacement	cm3	6/6494	6/4966	4/2482
7.5	Fuel consumption at turnover output	l/h or kg/h	-	6.15	-
7.9	Vehicle electrical system voltage	V	24	24	12
8.1	Type of drive unit		Hydrodynamic	Hydrodynamic	Hydrodynamic
10.4	Fuel tank, capacity	l/kg	90/75	90/75	90/75
10.8	Towing coupling, type DIN		Pin	Pin	Pin

1.1	Manufacturer		KION BAOLI	KION BAOLI	KION BAOLI
1.2	Manufacturer's type designation		KBD 50S Deutz EU5	KBD 50S Weichai	KBD 50S Isuzu
1.3	Drive: electric, diesel, petrol, fuel gas		Diesel	Diesel	Diesel
1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated
1.5	Rated capacity / Rated load	Q (t)	5,0	5,0	5,0
1.6	Load centre distance	c (mm)	500	500	500
1.8	Load distance, centre of drive axle to fork	x (mm)	567	567	567
1.9	Wheelbase	y (mm)	2000	2000	2000
2.1	Service weight	Kg	7340	7380	7380
2.2	Axle loading, laden front/rear	Kg	11000/1420	11360/1320	11360/1320
2.3	Axle loading, unladen front/rear	Kg	3120/4200	3220/4160	3220/4160
3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		SE	SE	SE
3.2	Tyre size, front		300-15-20PR	300-15-20PR	300-15-20PR
3.3	Tyre size, rear		7,00-12-12PR	7,00-12-12PR	7,00-12-12PR
3.6	Tread, front	b10 (mm)	1180	1180	1180
3.7	Tread, rear	b11 (mm)	1190	1190	1190
4.1	Tilt of mast/fork carriage forward/backward	α/β (°)	6/12	6/12	6/12
4.2	Height, mast lowered	h1 (mm)	2390	2390	2390
4.3	Free lift	h2 (mm)	150	155	155
4.4	Lift	h3 (mm)	3000	3000	3000
4.5	Height, mast extended	h4 (mm)	4275	4275	4275
4.7	Height of overhead guard (cabin)	h6 (mm)	2260	2260	2260
4.8	Seat height/stand height	h7 (mm)	1315	1280	1280
4.12	Coupling height	h10 (mm)	380	380	380
4.19	Overall length	l1 (mm)	4230	4230	4230
4.20	Length to face of forks	l2 (mm)	3160	3160	3160
4.21	Overall width	b1/b2 (mm)	1485	1485	1485
4.22	Fork dimensions ISO 2331	s/e/l (mm)	55/150/1070	55/150/1070	55/150/1070
4.23	Fork carriage ISO 2328, class/type A, B		III A	III A	III A
4.24	Fork carriage width	b3 (mm)	1380	1380	1380
4.31	Ground clearance, laden, below mast	m1 (mm)	145	145	145
4.32	Ground clearance, centre of wheelbase	m2 (mm)	180	180	180
4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	4597	4597	4597
4.34.2	Aisle width for pallets 800 x 1200 crossways	Ast (mm)	4397	4397	4397
4.35	Turning radius	Wa (mm)	2830	2830	2830
4.36	Internal turning radius	b13 (mm)	900	900	900
5.1	Travel speed, laden/unladen	km/h	24/25	25,3/26,2	25,3/26,2
5.2	Lift speed, laden/unladen	m/s	0,440/0,530	0,456/0,528	0,456/0,528
5.3	Lowering speed, laden/unladen	m/s	0,420/0,290	0,455/0,320	0,455/0,320
5.5	Drawbar pull, laden/unladen	kN	25/23	24	24
5.7	Gradeability, laden/unladen	%	20	20	20
5.10	Service brake		Mech/Hydr	Mech/Hydr	Mech/Hydr
7.1	Engine manufacturer/type		Deutz TCD2.9 L4	Weichai WP4.1	Isuzu 6BG1 QC-05
7.2	Engine power according to ISO 1585	kW	55.4	62.5	68
7.3	Rated speed	min-1	2300	2300	2000
7.4	Number of cylinders/displacement	cm3	4/2900	4/4090	6/6494
7.5	Fuel consumption at turnover output	l/h or kg/h	5,4 l/h	12	-
7.9	Vehicle electrical system voltage	V	12	24	24
8.1	Type of drive unit		Hydrodynamic	Hydrodynamic	Hydrodynamic
10.4	Fuel tank, capacity	l/kg	90	90/75	90/75
10.8	Towing coupling, type DIN		Pin	Pin	Pin

1.1	Manufacturer		KION BAOLI
1.2	Manufacturer's type designation		KBD 50S Mitsubishi
1.3	Drive: electric, diesel, petrol, fuel gas		Diesel
1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated
1.5	Rated capacity / Rated load	Q (t)	5,0
1.6	Load centre distance	c (mm)	500
1.8	Load distance, centre of drive axle to fork	x (mm)	567
1.9	Wheelbase	y (mm)	2000
2.1	Service weight	Kg	7780
2.2	Axle loading, laden front/rear	Kg	11330/1450
2.3	Axle loading, unladen front/rear	Kg	3160/4620
3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		SE
3.2	Tyre size, front		300-15-20PR
3.3	Tyre size, rear		7,00-12-12PR
3.6	Tread, front	b10 (mm)	1180
3.7	Tread, rear	b11 (mm)	1190
4.1	Tilt of mast/fork carriage forward/backward	α/β (°)	6/12
4.2	Height, mast lowered	h1 (mm)	2390
4.3	Free lift	h2 (mm)	155
4.4	Lift	h3 (mm)	3000
4.5	Height, mast extended	h4 (mm)	4275
4.7	Height of overhead guard (cabin)	h6 (mm)	2260
4.8	Seat height/stand height	h7 (mm)	1280
4.12	Coupling height	h10 (mm)	380
4.19	Overall length	l1 (mm)	4230
4.20	Length to face of forks	l2 (mm)	3160
4.21	Overall width	b1/b2 (mm)	1485
4.22	Fork dimensions ISO 2331	s/e/l (mm)	55/150/1070
4.23	Fork carriage ISO 2328, class/type A, B		III A
4.24	Fork carriage width	b3 (mm)	1380
4.31	Ground clearance, laden, below mast	m1 (mm)	145
4.32	Ground clearance, centre of wheelbase	m2 (mm)	180
4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	4667
4.34.2	Aisle width for pallets 800 x 1200 crossways	Ast (mm)	4667
4.35	Turning radius	Wa (mm)	2830
4.36	Internal turning radius	b13 (mm)	900
5.1	Travel speed, laden/unladen	km/h	24,4/25,3
5.2	Lift speed, laden/unladen	m/s	0,440/0,530
5.3	Lowering speed, laden/unladen	m/s	0,420/0,290
5.5	Drawbar pull, laden/unladen	kN	24
5.7	Gradeability, laden/unladen	%	20
5.10	Service brake		Mech/Hydr
7.1	Engine manufacturer/type		Mitsubishi S6S
7.2	Engine power according to ISO 1585	kW	52
7.3	Rated speed	min-1	2300
7.4	Number of cylinders/displacement	cm3	6/4966
7.5	Fuel consumption at turnover output	l/h or kg/h	-
7.9	Vehicle electrical system voltage	V	24
8.1	Type of drive unit		Hydrodynamic
10.4	Fuel tank, capacity	l/kg	90/75
10.8	Towing coupling, type DIN		Pin

Diesel and LPG trucks

KBD 40 Kohler - KBD 40 Deutz EU5										
Mast type	H3	Rated Capacity - Load center 500 mm	Rated Capacity - Load center 500 mm - with Sideshift	Rated Capacity - Load center 500 mm - Twin tyres	Rated Capacity - Load center 500 mm - Twin tyres - with Sideshift	H1	H4 with load backrest	H2 without load backrest	H2 with load backrest	Mast angle Front/back
VM Tele	3000	4000	3750	4000	3750	2390	4275	150	150	6/12
	3300	4000	3750	4000	3750	2540	4575	150	150	6/12
	3500	4000	3750	4000	3750	2640	4775	150	150	6/12
	4000	4000	3750	4000	3750	2940	5275	150	150	6/6
	4500	4000	3750	4000	3750	3190	5775	150	150	6/6
	5000	4000	3750	4000	3750	3440	6275	150	150	6/6
VFM 2 stage	2610	4000	3750	4000	3750	2195	3885	1349	970	6/12
	2700	4000	3750	4000	3750	2240	3975	1394	1015	6/12
	3000	4000	3750	4000	3750	2390	4275	1544	1165	6/12
	3300	4000	3750	4000	3750	2540	4575	1694	1315	6/12
	3500	4000	3750	4000	3750	2640	4775	1794	1415	6/12
	4000	4000	3750	4000	3750	2890	5275	2044	1665	6/12
VFHM triplex	3920	4000	3750	4000	3750	2245	5195	1399	1020	6/6
	4350	4000	3750	4000	3750	2390	5625	1544	1165	6/6
	4500	4000	3750	4000	3750	2441	5775	1595	1216	6/6
	4700	4000	3750	4000	3750	2507	5975	1661	1282	6/6
	4800	4000	3750	4000	3750	2540	6075	1694	1315	6/6
	5000	4000	3750	4000	3750	2640	6275	1794	1415	6/6
	5400	4000	3750	4000	3750	2765	6675	1919	1540	3/6
	6000	3350	3100	4000	3750	3005	7275	2159	1780	3/6

KBD 40 Weichai - KBD 40 Isuzu - KBD 40 Mitsubishi										
Mast type	H3	Rated Capacity - Load center 500 mm	Rated Capacity - Load center 500 mm - with Sideshift	Rated Capacity - Load center 500 mm - Twin tyres	Rated Capacity - Load center 500 mm - Twin tyres - with Sideshift	H1	H4 with load backrest	H2 without load backrest	H2 with load backrest	Mast angle Front/back
VM Tele	3000	4000	3750	4000	3750	2390	4275	150	150	6/12
	3300	4000	3750	4000	3750	2540	4575	150	150	6/12
	3500	4000	3750	4000	3750	2640	4775	150	150	6/12
	4000	3800	3550	4000	3750	2940	5275	150	150	6/6
	4500	3500	3250	4000	3750	3190	5775	150	150	6/6
	5000	3100	2850	3700	3450	3440	6275	150	150	6/6
VFM 2 stage	2610	4000	3750	4000	3750	2195	3885	1349	970	6/12
	2700	4000	3750	4000	3750	2240	3975	1394	1015	6/12
	3000	4000	3750	4000	3750	2390	4275	1544	1165	6/12
	3300	4000	3750	4000	3750	2540	4575	1694	1315	6/12
	3500	4000	3750	4000	3750	2640	4775	1794	1415	6/12
	4000	3800	3550	4000	3750	2890	5275	2044	1665	6/12
VFHM triplex	3920	3900	3650	3900	3650	2245	5195	1399	1020	6/6
	4350	3800	3550	3800	3550	2390	5625	1544	1165	6/6
	4500	3500	3250	3500	3250	2441	5775	1595	1216	6/6
	4700	3400	3150	3400	3150	2507	5975	1661	1282	6/6
	4800	3400	3150	3700	3450	2540	6075	1694	1315	6/6
	5000	3000	2750	3600	3350	2640	6275	1794	1415	6/6
	5400	2800	2550	3400	3150	2765	6675	1919	1540	3/6
	6000	2000	1750	3200	2950	3005	7275	2159	1780	3/6

KBD 50S Kohler - KBD 50S Deutz EU5

Mast type	H3	Rated Capacity - Load center 500 mm	Rated Capacity - Load center 500 mm - with Sideshift	Rated Capacity - Load center 500 mm - Twin tyres	Rated Capacity - Load center 500 mm - Twin tyres - with Sideshift	H1	H4 with load backrest	H2 without load backrest	H2 with load backrest	Mast angle Front/back
VM Tele	3000	5000	4750	5000	4750	2390	4275	150	150	6/12
	3300	5000	4750	5000	4750	2540	4575	150	150	6/12
	3500	5000	4750	5000	4750	2640	4775	150	150	6/12
	4000	5000	4750	5000	4750	2940	5275	150	150	6/6
	4500	5000	4750	5000	4750	3190	5775	150	150	6/6
	5000	5000	4750	5000	4750	3440	6275	150	150	6/6
VFM 2 stage	2610	5000	4750	5000	4750	2195	3885	1349	970	6/12
	2700	5000	4750	5000	4750	2240	3975	1394	1015	6/12
	3000	5000	4750	5000	4750	2390	4275	1544	1165	6/12
	3300	5000	4750	5000	4750	2540	4575	1694	1315	6/12
	3500	5000	4750	5000	4750	2640	4775	1794	1415	6/12
	4000	5000	4750	5000	4750	2890	5275	2044	1665	6/12
VFHM triplex	3920	5000	4750	5000	4750	2245	5195	1399	1020	6/6
	4350	5000	4750	5000	4750	2390	5625	1544	1165	6/6
	4500	5000	4750	5000	4750	2441	5775	1595	1216	6/6
	4700	5000	4750	5000	4750	2507	5975	1661	1282	6/6
	4800	5000	4750	5000	4750	2540	6075	1694	1315	6/6
	5000	5000	4750	5000	4750	2640	6275	1794	1415	6/6
	5400	5000	4750	5000	4750	2765	6675	1919	1540	3/6
	6000	4450	4200	5000	4750	3005	7275	2159	1780	3/6

KBD 50S Weichai - KBD 50S Isuzu - KBD 50S Mitsubishi

Mast type	H3	Rated Capacity - Load center 500 mm	Rated Capacity - Load center 500 mm - with Sideshift	Rated Capacity - Load center 500 mm - Twin tyres	Rated Capacity - Load center 500 mm - Twin tyres - with Sideshift	H1	H4 with load backrest	H2 without load backrest	H2 with load backrest	Mast angle Front/back
VM Tele	3000	5000	4750	5000	4750	2390	4275	150	150	6/12
	3300	5000	4750	5000	4750	2540	4575	150	150	6/12
	3500	5000	4750	5000	4750	2640	4775	150	150	6/12
	4000	4600	4350	4600	4350	2940	5275	150	150	6/6
	4500	4500	4250	4800	4550	3190	5775	150	150	6/6
	5000	4000	3750	4600	4350	3440	6275	150	150	6/6
VFM 2 stage	2610	5000	4750	5000	4750	2195	3885	1349	970	6/12
	2700	5000	4750	5000	4750	2240	3975	1394	1015	6/12
	3000	5000	4750	5000	4750	2390	4275	1544	1165	6/12
	3300	5000	4750	5000	4750	2540	4575	1694	1315	6/12
	3500	5000	4750	5000	4750	2640	4775	1794	1415	6/12
	4000	4600	4350	5000	4750	2890	5275	2044	1665	6/12
VFHM triplex	3920	4800	4550	4800	4550	2245	5195	1399	1020	6/6
	4350	4700	4450	4700	4450	2390	5625	1544	1165	6/6
	4500	4500	4250	4500	4250	2441	5775	1595	1216	6/6
	4700	4200	3950	4200	3950	2507	5975	1661	1282	6/6
	4800	4200	3950	4600	4350	2540	6075	1694	1315	6/6
	5000	3800	3550	4500	4250	2640	6275	1794	1415	6/6
	5400	3400	3150	4300	4050	2765	6675	1919	1540	3/6
	6000	2500	2250	4000	3750	3005	7275	2159	1780	3/6

