

Technical Data (Attachments)

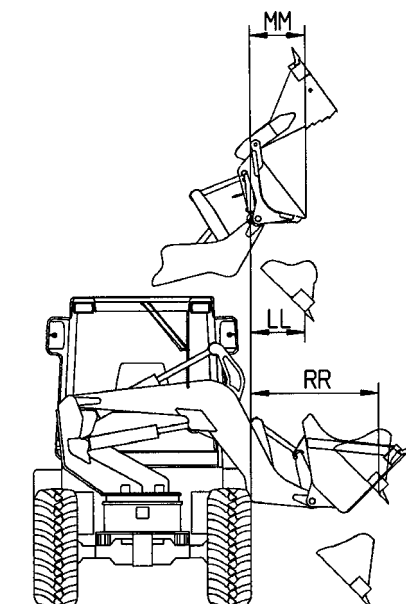
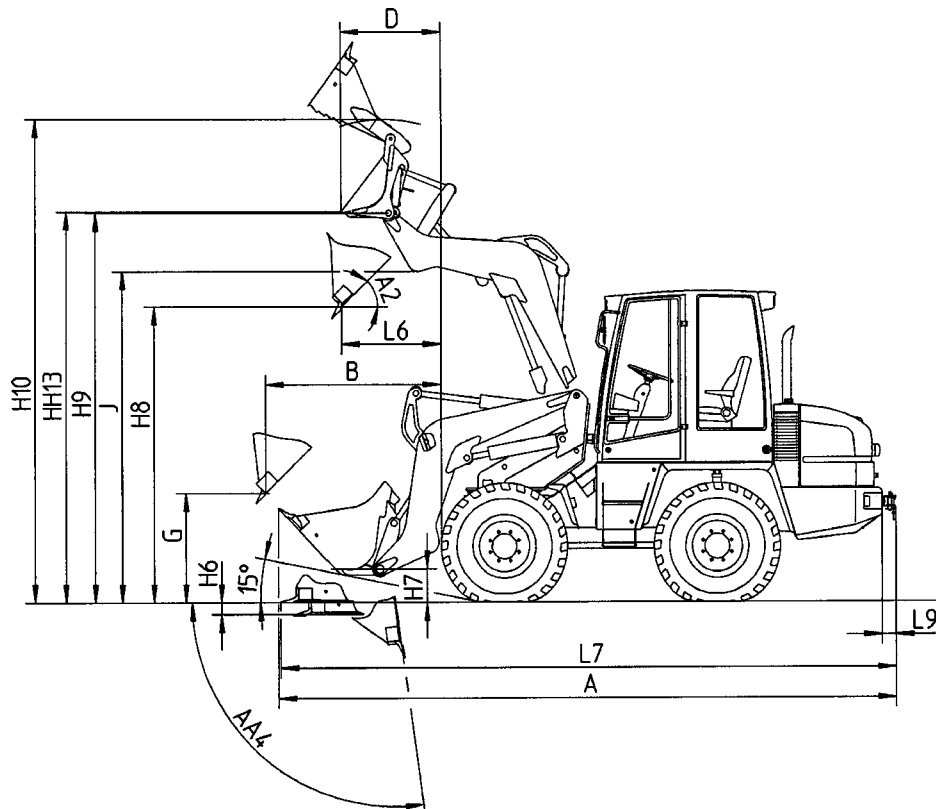
12.1 AS 70

NOTE

- All technical data refer to tire size 365/70 R 18.

12.1.1 Buckets

- Dimensions acc. to ISO 7131/35

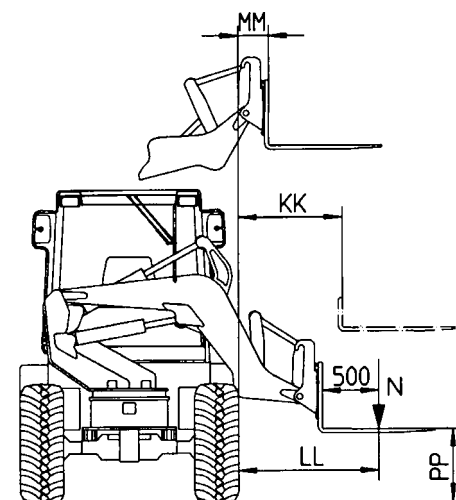
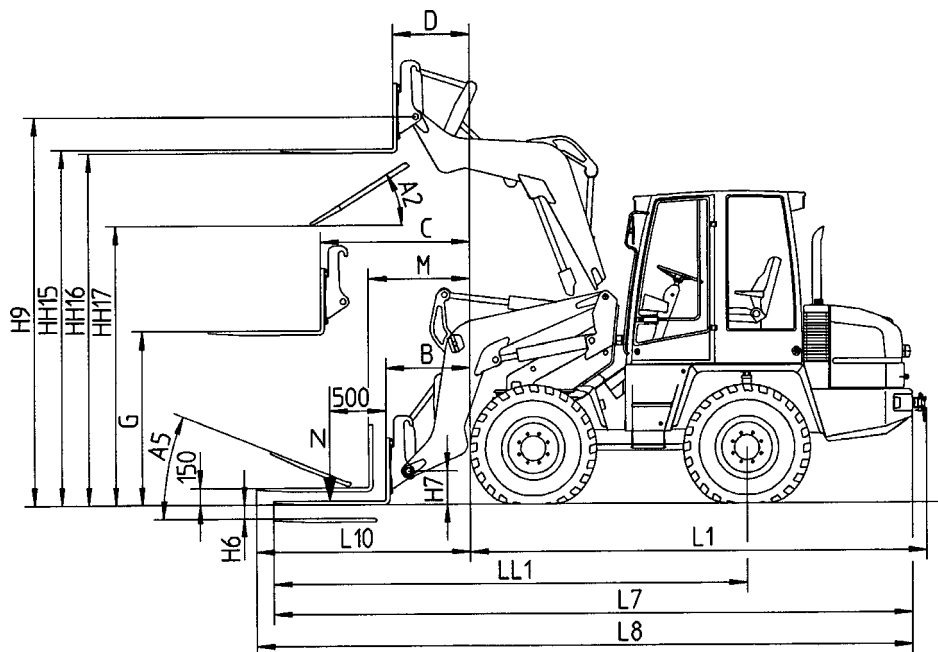


12.1.1 Buckets

Bucket type		Standard bucket	Lightweight bucket	Multi-purpose bucket
Bucket volume acc. to DIN/ISO 7546	m³	0,70	1,0	0,60
Bucket width	mm	1950	2000	1950
Dead weight	kg	262	302	483
Loads according to DIN 24094				
Bulk density	t/m³	2,0	1,45	1,8
Tip load				
- frontal	kg	3060	2900	2760
- swiveled	kg	3040	2880	2740
Payload				
- frontal	kg	1530	1450	1380
- swiveled	kg	1520	1440	1370
Loads according to ISO 8313				
Bulk density	t/m³	1,75	1,15	2,0
Tip load				
- frontal	kg	2800	2720	2560
- swiveled	kg	2460	2300	2200
Payload				
- frontal	kg	1400	1360	1280
- swiveled	kg	1230	1150	1100
Tear-out force acc. to ISO 8313	kN	40	36	42
A Total length	mm	5660	5800	5630
AA4 Max. dump angle	°	105	105	105
A2 Dump angle	°	45	45	45
B Max. dumping distance at dumping angle 45°	mm	1500	1540	1570
G Dumping height at max. dumping width and dump angle 45°	mm	1050	930	930
H6 Depth of feed-in	mm	95	140	120
H7 Distance to the bolt center (quick-change device)	mm	495		460
H8 Dumping height at max. lifting height and dump angle 45°	mm	2660	2540	2550
H9 Distance to the bolt center (quick-change device)	mm	3450	3450	3450
H10 Maximum working height	mm	4280		4100
J Free lift height	mm	2930	2930	2930
LL Dumping distance at max. lifting height and dumping angle 45°	mm	360	400	430
L6 Dumping distance at max. lifting height and dumping angle 45°	mm	850	890	925
L7 Total length	mm	5555		5680
L9 Shunting and trailer coupling	mm	125	125	125
RR Max. dumping distance at dumping angle 45°	mm	1030	1070	1100
Multi-purpose bucket opened:				
D Dumping distance at max. lifting height and tilted bucket	mm	-	-	960
HH13 Max. dumping height with tilted upbucket	mm	-	-	3400
MM Dumping distance at max. lifting height and tilted bucket	mm	-	-	470

12.1.2 Fork-lift attachment

- Dimensions acc. to ISO 7131/35



12.1.2 Fork-lift attachment

Fork length	1100 mm
Fork height	45 mm
Fork spacing (center - center)	
- min.	216 mm
- max.	1054 mm
Dead weight	210 kg

Perm. payload N acc. to DIN 24094**frontal**

- level terrain (stability safety factor 1.25)	2080 kg
- rough terrain (stability safety factor 1.67)	1560 kg

swiveled

- level terrain (stability safety factor 1.25)	1900 kg
- rough terrain (stability safety factor 1.67)	1430 kg

Perm. payload N acc. to ISO 8313**frontal**

- level terrain (stability safety factor 1.25)	1950 kg
- rough terrain (stability safety factor 1.67)	1465 kg

swiveled

- level terrain (stability safety factor 1.25)	1590 kg
- rough terrain (stability safety factor 1.67)	1190 kg

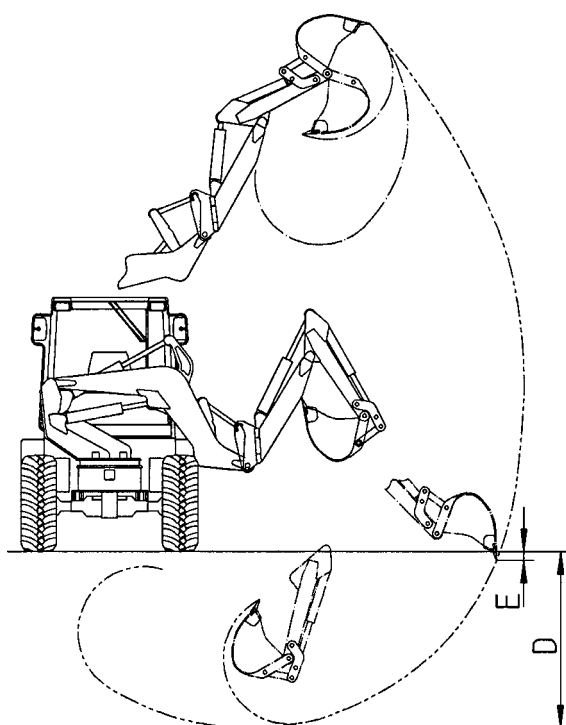
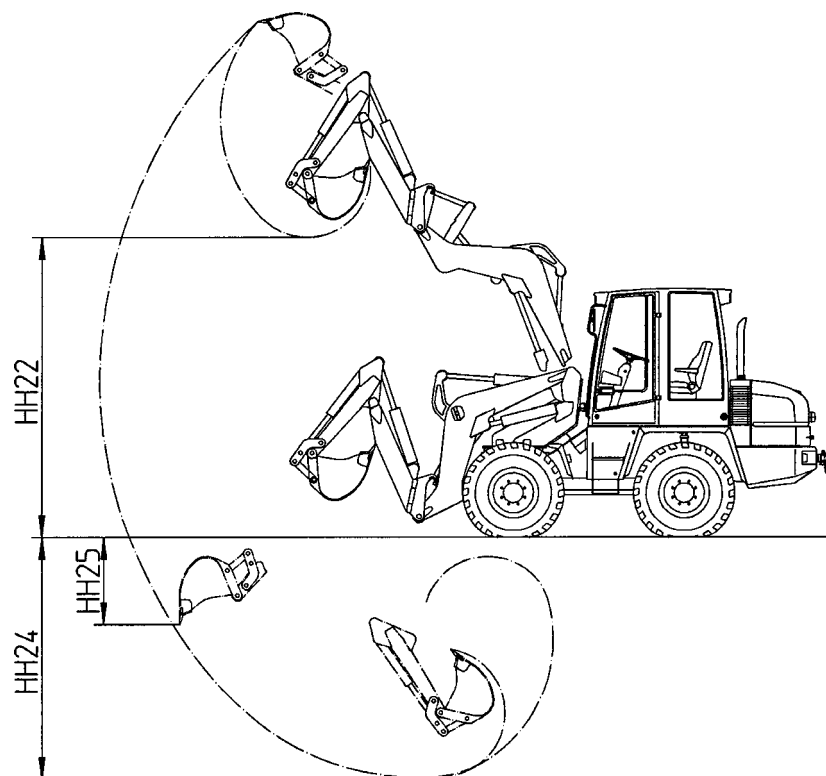
Permissible payload N acc. to ISO 8313 (height of upper tine edge: 150 mm)**frontal**

- level terrain (stability safety factor 1.25)	2290 kg
- rough terrain (stability safety factor 1.67)	1720 kg

A2	Dump angle	28 °
A5	Tilt angle	20 °
B	Min. operating span	900 mm
C	Max. operating span	1410 mm
D	Operating span at max. lifting height	720 mm
G	Free lift height at max. reach	1350 mm
H6	Depth of feed-in	250 mm
H7	Distance to the bolt center (quick-change device)	530 mm
H9	Distance to the bolt center (quick-change device)	3430 mm
HH15	Free lift height at max. lifting height (upper edge of tines)	3000 mm
HH16	Free lift height at max. lifting height (lower edge of tines)	2955 mm
HH17	Height with maximum lifting height and tilted tines	2400 mm
KK	Max. operating span	950 mm
LL	Distance between tires and rated load	1250 mm
LL1	Length	4510 mm
L1	Length	4000 mm
L7	Total length	6000 mm
L8	Total length	6060 mm
L10	Distance between tire and tine point (height of upper tine edge: 150 mm)	2175 mm
M	Reach (height of upper tine edge: 150 mm)	980 mm
MM	Reach at max. lifting height	280 mm
PP	Min. free lift height	380 mm

12.1.3 Front-end excavator

- Dimensions acc. to ISO 7131/35



12.1.3 Front-end excavator

Max. break-out force at bucket cutting edge	3200 daN
Max. tear-out force with bucket cutting edge	2900 daN

Bucket volume acc. to DIN ISO 7451	Bucket widths acc. to DIN ISO 7451	Dead weight
0.16 m ³	600 mm	85 kg
0.21 m ³	800 mm	95 kg

Dead weight	
- Front-end excavator without bucket	290 kg

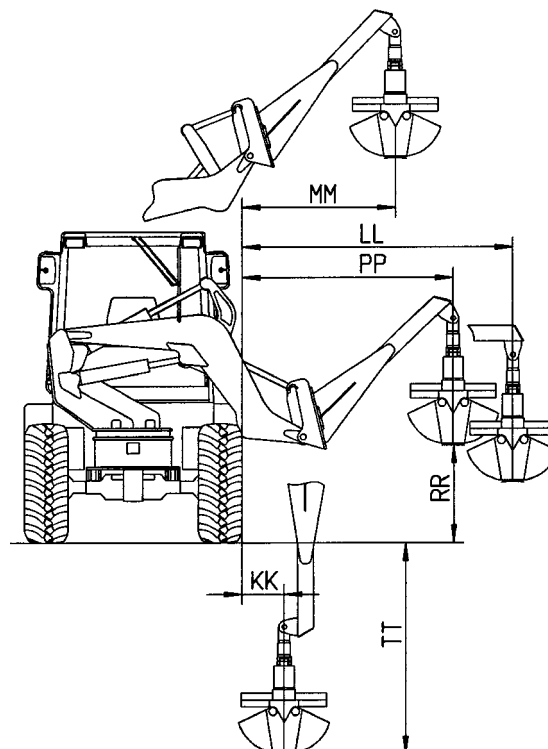
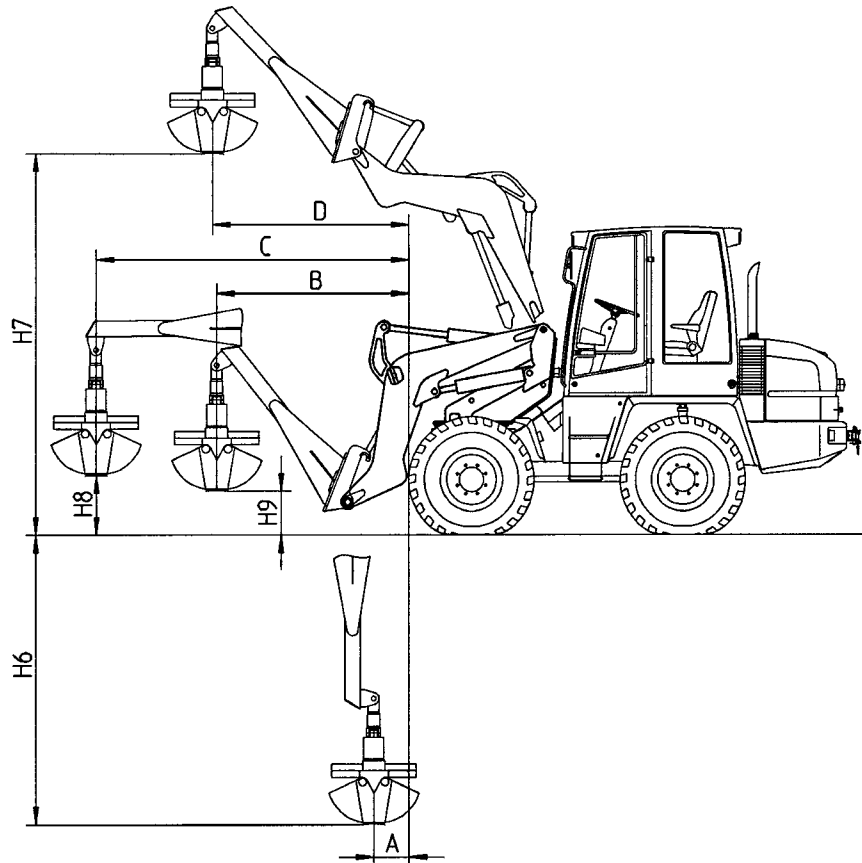
D	Max. digging depth over cutting edge acc. to DIN ISO 7135	2070 mm
E	Feed-in depth	150 mm
HH22	Max. dumping height acc. to DIN ISO 7135	3280 mm
HH24	Max. digging depth over cutting edge acc. to DIN ISO 7135	2710 mm
HH25	Feed-in depth	980 mm

Operating times at $n_{\text{Motor max.}}$:

- Extend shaft	1.3 s
- Retract shaft	2.1 s
- Open bucket	1.2 s
- Close bucket	2.0 s

12.1.4 Grab

- Dimensions acc. to ISO 7131/35



12.1.4 Grab

Grab type	Grab volume	Grab blade width	Dead weight
KM 626	0.05 m ³	250 mm	90 kg
KM 626	0.07 m ³	350 mm	100 kg
KM 626	0.09 m ³	250 mm	110 kg
KM 626	0.10 m ³	450 mm	125 kg
KM 626	0.125 m ³	350 mm	130 kg
KM 626	0.16 m ³	450 mm	140 kg

- Turning range of the turn drive: continuous
- Dead weight of grab arm 165 kg

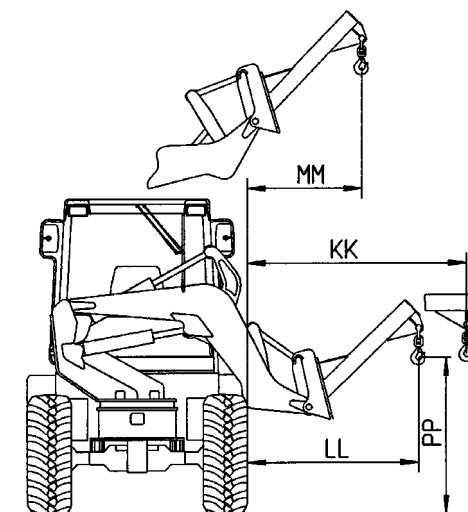
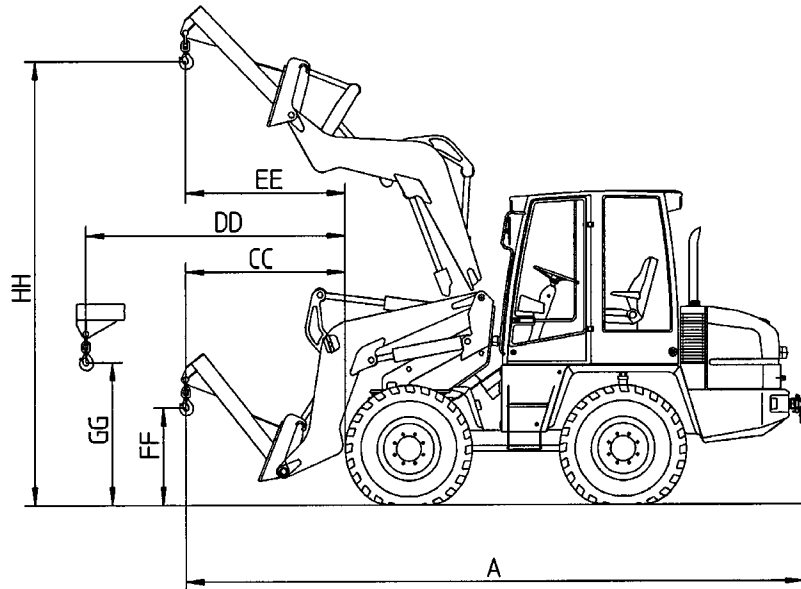
A	Reach at max. digging depth	540 mm
B	Min. dumping width	1940 mm
C	Max. dumping width	2890 mm
D	Dumping reach at max. overload height	2010 mm
H6	Max. digging depth above cutting edge	2750 mm
H7	Max. free lift over shell bottom	3120 mm
H8	Free lift height above shell bottom at max. dumping reach	650 mm
H9	Overload height above shell bottom at min. dumping reach	20 mm
KK	Reach at max. digging depth	450 mm
LL	Max. dumping width	2400 mm
MM	Dumping reach at max. overload height	1540 mm
PP	Min. dumping width	2080 mm
RR	Free lift height at min. dumping reach	650 mm
TT	Max. digging depth above cutting edge	2050 mm

NOTE

Only the grabs listed in the above table may be mounted on the loader.

12.1.5 Lifting hook

- Dimensions acc. to ISO 7131/35



12.1.5 Lifting hook

Permissible payload according to DIN EN 474-3
(Measurement analog to ISO 8313)

- Max. reach (stability safety factor 2)
 - front 880 kg
 - swiveled 640 kg

Dead weight 162 kg

A	Total length	5950 mm
CC	Min. reach	1940 mm
DD	Max. reach	2880 mm
EE	Reach at max. lifting height	2010 mm
FF	Min. lifting height with tilted quick-change device	975 mm
GG	Lifting height at max. reach	1520 mm
HH	Max. lifting height	4080 mm
KK	Max. reach	2430 mm
LL	Min. reach	2080 mm
MM	Reach at max. lifting height	1520 mm
PP	Lifting height at min. reach	1610 mm

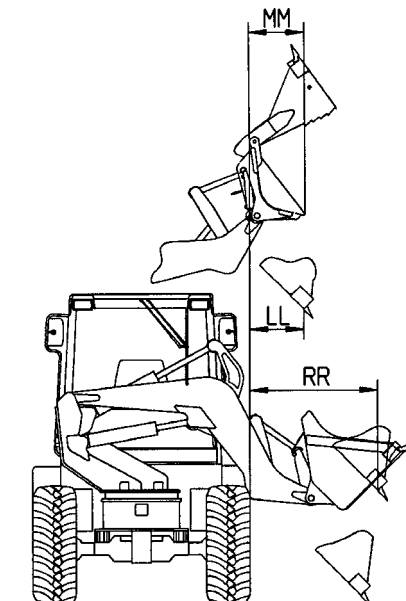
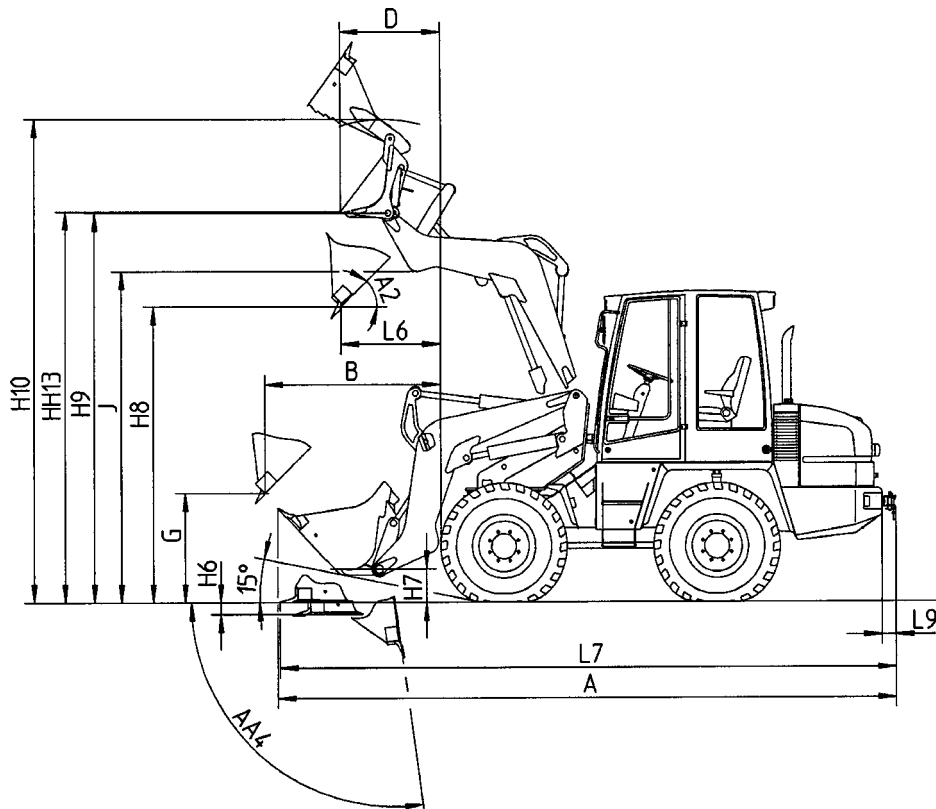
12.2 AS 90/AZ 85t

NOTE

- All technical data refer to tire size 365/80 R 20.

12.2.1 Buckets

- Dimensions acc. to ISO 7131/35

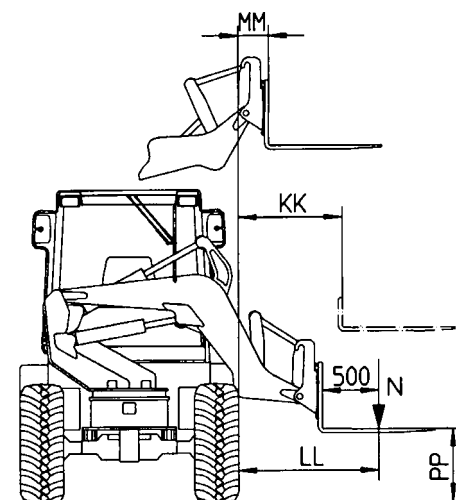
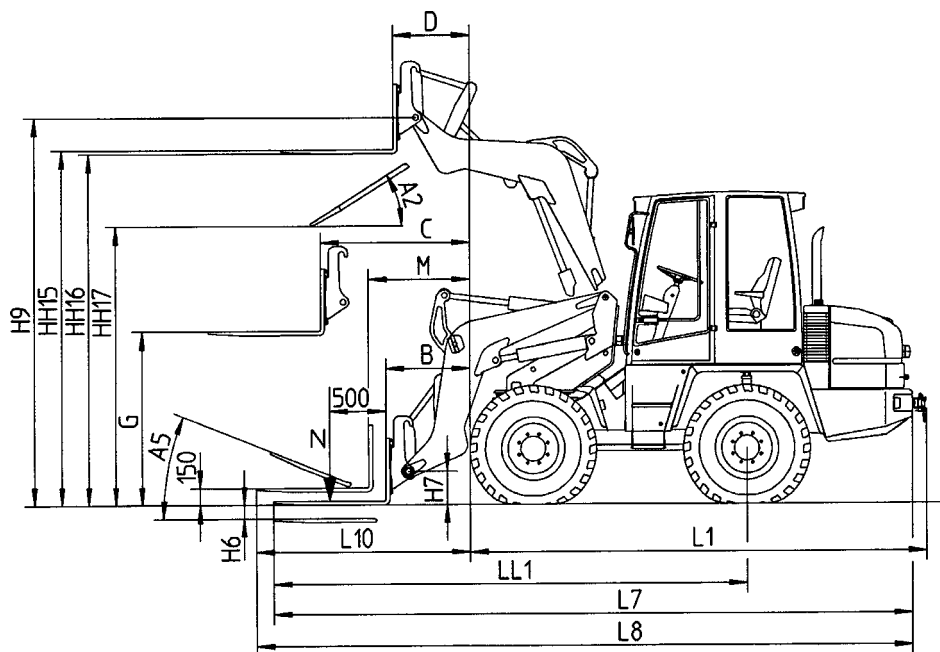


12.2.1 Buckets

Bucket type		Standard	Lightweight bucket	Multi-purpose bucket
bucket				
Bucket volume acc. to DIN/ISO 7546	m³	0,9	1,2	0,8
Bucket width	mm	2100	2000	2100
Dead weight	kg	288	378	500
Loads according to DIN 24094				
Bulk density	t/m³	1,8	1,3	1,9
Tip load				
- frontal	kg	3240	3180	3140
- swiveled	kg	3660	3460	3420
Payload				
- frontal	kg	1620	1590	1570
- swiveled	kg	1830	1730	1710
Loads according to ISO 8313				
Bulk density	t/m³	1,65	1,15	1,75
Tip load				
- frontal	kg	3020	2880	2820
- swiveled	kg	2960	2800	2760
Payload				
- frontal	kg	1510	1440	1410
- swiveled	kg	1480	1400	1380
Tear-out force acc. to ISO 8313	kN	45,5	42,5	43,5
A	Total length	mm	5695	6105
AA4	Max. dump angle	°	105	105
A2	Dump angle	°	45	45
B	Max. dumping distance at dumping angle 45°	mm	1415	1645
G	Dumping height at max. dumping width and dump angle 45°	mm	1050	900
H6	Depth of feed-in	mm	95	35
H7	Distance to the bolt center (quick-change device)	mm	550	
H8	Dumping height at max. lifting height and dump angle 45°	mm	2650	2500
H9	Distance to the bolt center (quick-change device)	mm	3500	3500
H10	Maximum working height	mm	4370	4180
J	Free lift height	mm	2940	2940
LL	Dumping distance at max. lifting height and dumping angle 45°	mm	300	530
L6	Dumping distance at max. lifting height and dumping angle 45°	mm	780	1010
L7	Total length	mm	5530	5640
L9	Shunting and trailer coupling	mm	125	125
RR	Max. dumping distance at dumping angle 45°	mm	980	1210
Multi-purpose bucket opened:				
D	Dumping distance at max. lifting height and tilted bucket	mm	-	900
HH13	Max. dumping height with tilted upbucket	mm	-	3470
MM	Dumping distance at max. lifting height and tilted bucket	mm	-	420

12.2.2 Fork-lift attachment

- Dimensions acc. to ISO 7131/35



12.2.2 Fork-lift attachment

Fork length	1100 mm
Fork height	45 mm
Fork spacing (center - center)	
- min.	216 mm
- max.	1054 mm
Dead weight	210 kg

Perm. payload N acc. to DIN 24094**frontal**

- level terrain (stability safety factor 1.25)	2300 kg
- rough terrain (stability safety factor 1.67)	1725 kg

swiveled

- level terrain (stability safety factor 1.25)	2350 kg
- rough terrain (stability safety factor 1.67)	1760 kg

Perm. payload N acc. to ISO 8313**frontal**

- level terrain (stability safety factor 1.25)	2135 kg
- rough terrain (stability safety factor 1.67)	1600 kg

swiveled

- level terrain (stability safety factor 1.25)	1965 kg
- rough terrain (stability safety factor 1.67)	1470 kg

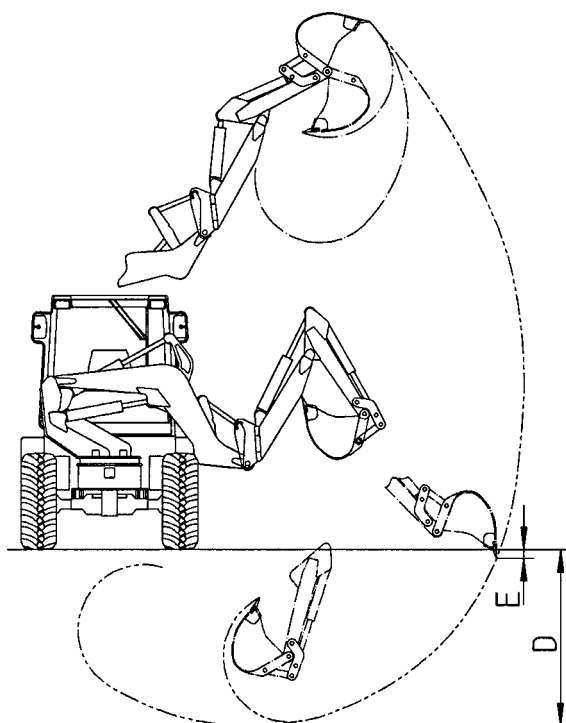
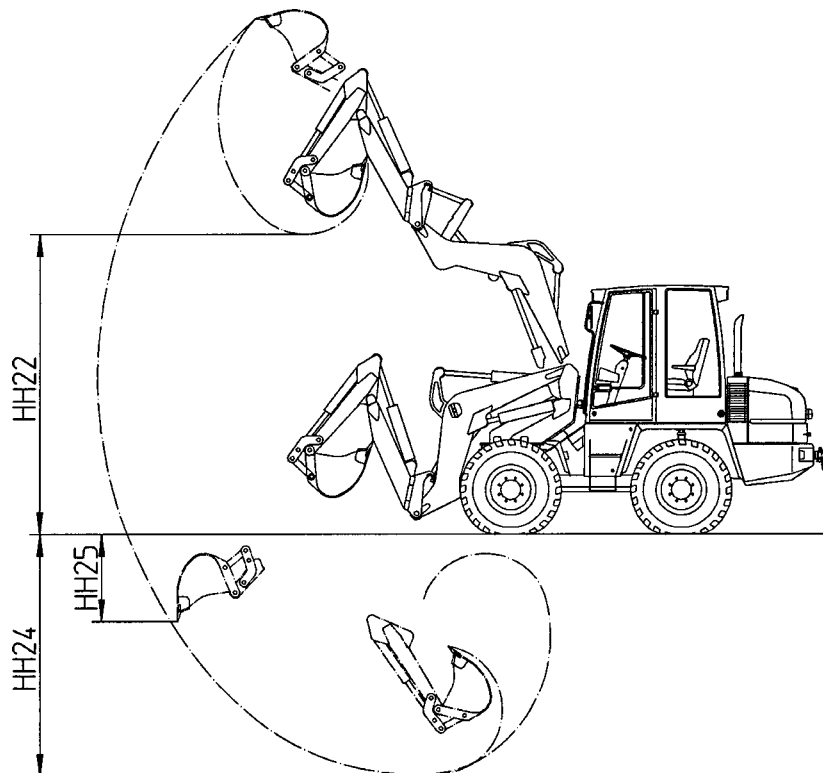
Permissible payload N acc. to ISO 8313 (height of upper tine edge: 150 mm)**frontal**

- level terrain (stability safety factor 1.25)	2550 kg
- rough terrain (stability safety factor 1.67)	1910 kg

A2	Dump angle	28 °
A5	Tilt angle	20 °
B	Min. operating span	900 mm
C	Max. operating span	1350 mm
D	Operating span at max. lifting height	660 mm
G	Free lift height at max. reach	1400 mm
H6	Depth of feed-in	170 mm
H7	Distance to the bolt center (quick-change device)	530 mm
H9	Distance to the bolt center (quick-change device)	3500 mm
HH15	Free lift height at max. lifting height (upper edge of tines)	3050 mm
HH16	Free lift height at max. lifting height (lower edge of tines)	3005 mm
HH17	Height with maximum lifting height and tilted tines	2460 mm
KK	Max. operating span	900 mm
LL	Distance between tires and rated load	1240 mm
LL1	Length	4440 mm
L1	Length	4060 mm
L7	Total length	5930 mm
L8	Total length	6000 mm
L10	Distance between tire and tine point (height of upper tine edge: 150 mm)	2065 mm
M	Reach (height of upper tine edge: 150 mm)	980 mm
MM	Reach at max. lifting height	245 mm
PP	Min. free lift height	600 mm

12.2.3 Front-end excavator

- Dimensions acc. to ISO 7131/35



12.2.3 Front-end excavator

Max. break-out force at bucket cutting edge

3200 daN

Max. tear-out force with bucket cutting edge

2900 daN

Bucket volume acc. to DIN ISO 7451	Bucket widths acc. to DIN ISO 7451	Dead weight
0.16 m ³	600 mm	85 kg
0.21 m ³	800 mm	95 kg

Weight

- Front-end excavator without bucket

290 kg

D Max. digging depth over cutting edge acc. to DIN ISO 7135

2020 mm

E Feed-in depth

100 mm

HH22 Max. dumping height acc. to DIN ISO 7135

3330 mm

HH24 Max. digging depth over cutting edge acc. to DIN ISO 7135

2660 mm

HH25 Feed-in depth

930 mm

Operating times at $n_{\text{Motor max.}}$:

- Extend shaft

1.3 s

- Retract shaft

2.1 s

- Open bucket

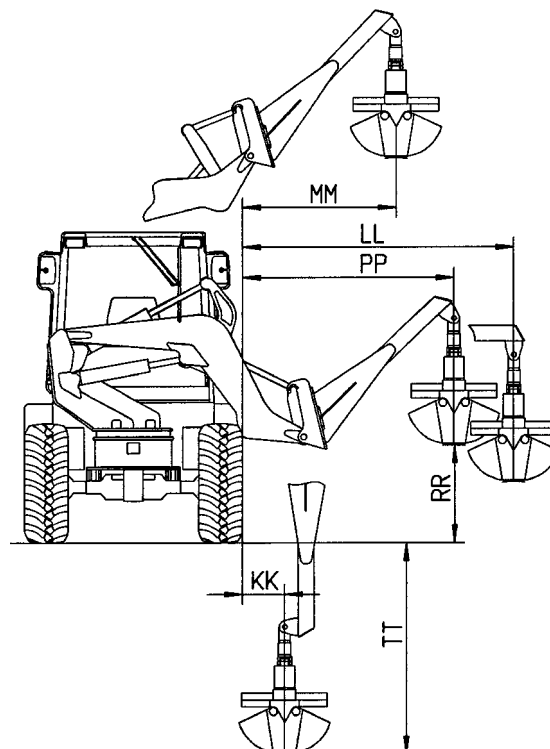
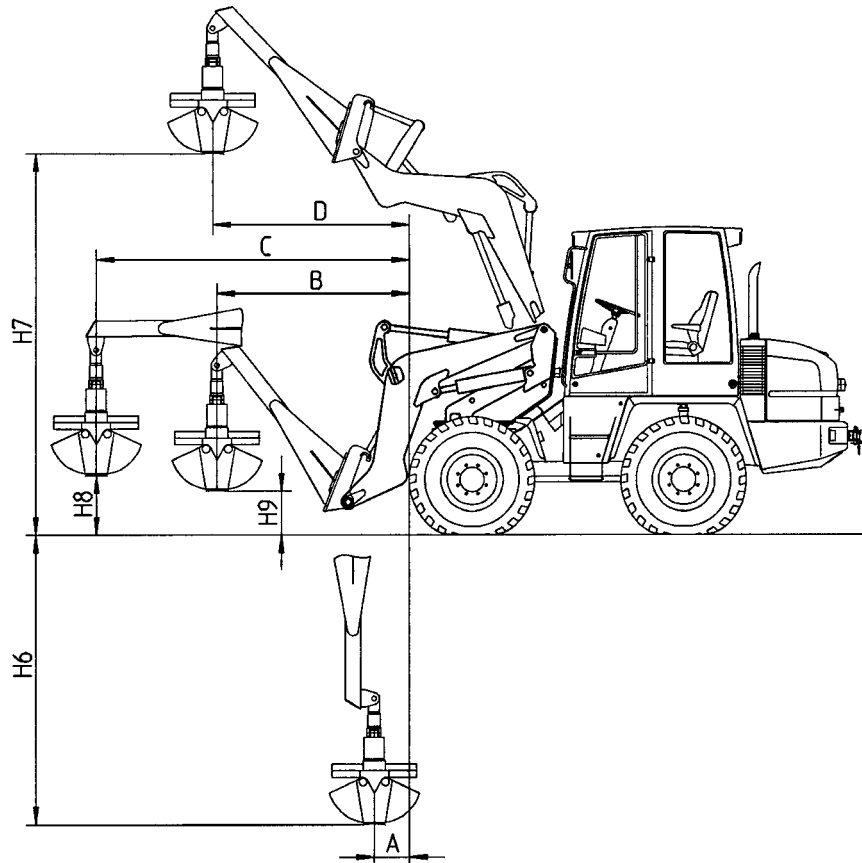
1.2 s

- Close bucket

2.0 s

12.2.4 Grab

- Dimensions acc. to ISO 7131/35



12.2.4 Grab

Grab type	Grab volume	Grab blade width	Dead weight
KM 626	0,05 m ³	250 mm	90 kg
KM 626	0,07 m ³	350 mm	100 kg
KM 626	0,09 m ³	250 mm	110 kg
KM 626	0,10 m ³	450 mm	125 kg
KM 626	0,125 m ³	350 mm	130 kg
KM 626	0,16 m ³	450 mm	140 kg
KM 605	0,15 m ³	325 mm	235 kg
KM 605	0,20 m ³	400 mm	250 kg
KM 605	0,25 m ³	500 mm	270 kg

- Turning range of the turn drive: continuous
- Dead weight of grab arm 165 kg

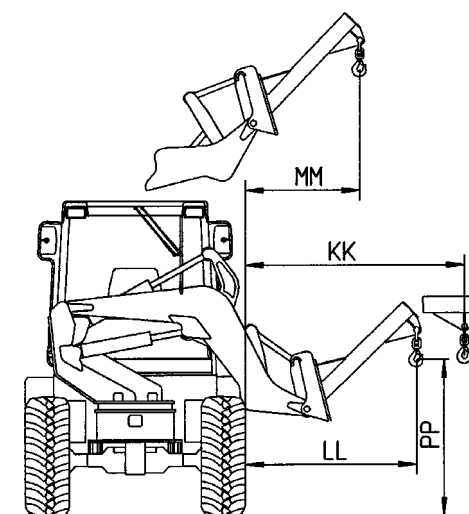
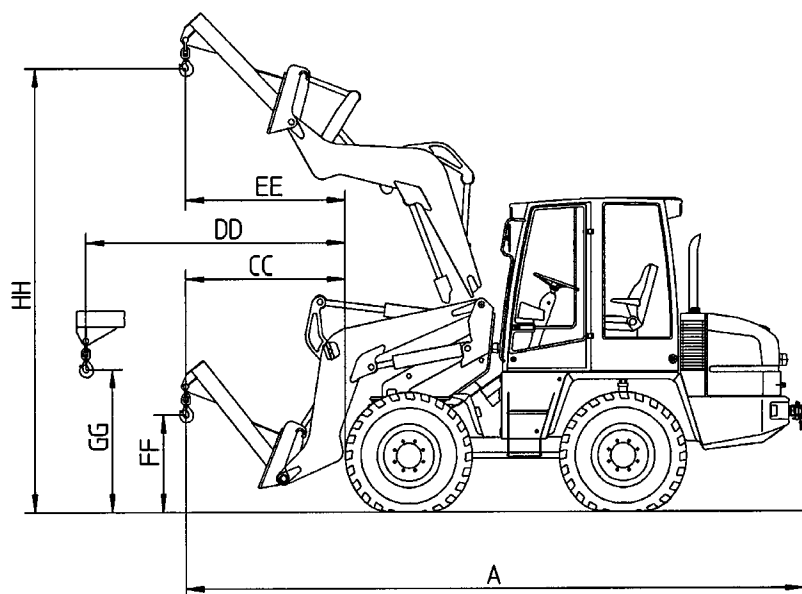
A	Reach at max. digging depth	490 mm
B	Min. dumping width	1880 mm
C	Max. dumping width	2830 mm
D	Dumping reach at max. overload height	1950 mm
H6	Max. digging depth above cutting edge	2680 mm
H7	Max. free lift over shell bottom	3140 mm
H8	Free lift height above shell bottom at max. dumping reach	700 mm
H9	Overload height above shell bottom at min. dumping reach	70 mm
KK	Reach at max. digging depth	540 mm
LL	Max. dumping width	2350 mm
MM	Dumping reach at max. overload height	1470 mm
PP	Min. dumping width	2030 mm
RR	Free lift height at min. dumping reach	700 mm
TT	Max. digging depth above cutting edge	1980 mm

NOTE

- Only the grabs listed in the above table may be mounted on the loader.
- The values given for “**A**” to “**TT**” refer to the KM 626 grab.

12.2.5 Lifting hook

- Dimensions acc. to ISO 7131/35



12.2.5 Lifting hook

Permissible payload according to

DIN EN 474-3

(Measurement analog to ISO 8313)

- Max. reach (stability safety factor 2)

- front

960 kg

- swiveled

780 kg

Dead weight

162 kg

A	Total length	5950 mm
CC	Min. reach	1880 mm
DD	Max. reach	2820 mm
EE	Reach at max. lifting height	1950 mm
FF	Min. lifting height with tilted quick-change device	1030 mm
GG	Lifting height at max. reach	1580 mm
HH	Max. lifting height	4100 mm
KK	Max. reach	2380 mm
LL	Min. reach	2030 mm
MM	Reach at max. lifting height	1470 mm
PP	Lifting height at min. reach	1660 mm