

SPECIFICATIONS



ENGINE

Model Komatsu SAA6D125E-5
 Type..... Common rail direct injection, water-cooled, cooled EGR, emissionised, turbocharged, after-cooled diesel
 Rated capacity 257 kW/345 HP (ISO 9249 Net) at engine speed 1.900 rpm
 No. of cylinders 6
 Bore x stroke.....125 x 150 mm
 Displacement..... 11,04 ltr
 Battery 2 x 12 V/140 Ah
 Alternator..... 24 V/60 A
 Starter motor 24 V/11 kW
 Air filter type Double element type with monitor panel dust indicator and auto dust evacuator
 Cooling Suction type cooling fan with radiator fly screen



HYDRAULIC SYSTEM

Type.....HydrauMind. Closed-centre system with load sensing and pressure compensation valves
 Additional circuits..... 2 additional circuits are installed
 Main pump2 variable displacement piston pumps supplying boom, arm, bucket, swing and travel circuits
 Maximum pump flow..... 2 x 345 ltr/min
 Relief valve settings
 Implement380 bar
 Travel380 bar
 Swing285 bar
 Pilot circuit.....33 bar



ENVIRONMENT

Engine emissions Fully complies with EU Stage IIIA and EPA Tier III exhaust emission regulations
 Noise levels
 LwA external 107 dB(A) (2000/14/EC Stage II)
 LpA operator ear..... 71 dB(A) (ISO 6369 dynamic test)



OPERATING WEIGHT (APPR.)

Operating weight, including specified work equipment. High reach and medium reach includes attachment weight of 2.500 kg. Excavation boom equipment includes 3,4 m arm and 2.180 kg bucket. All include operator, lubricant, coolant, full fuel tank. Optional Hydraulic Wide Gauge (HWG) undercarriage adds approx. 9.930 kg to the machine weight.



SWING SYSTEM

Type..... Axial piston motor driving through planetary double reduction gearbox
 Swing lock.....Electrically actuated wet multi-disc brake integrated into swing motor
 Swing speed..... 0 - 9 rpm
 Swing torque132 kNm



DRIVES AND BRAKES

Steering control 2 levers with pedals giving full independent control of each track
 Drive methodHydrostatic
 Travel operation..... Automatic 3-speed selection
 Max. travel speeds
 Lo / Mi / Hi3,0 / 4,4 / 5,5 km/h
 Maximum drawbar pull..... 34.000 kgf
 Brake system..... Hydraulically operated discs in each travel motor



UNDERCARRIAGE

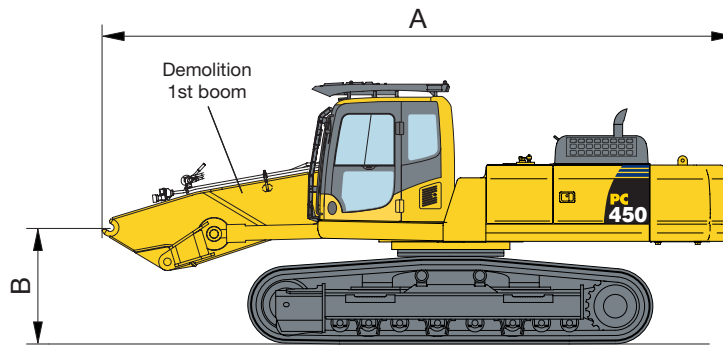
Construction..... X-frame centre section with box section track-frames
 Track assembly
 Type Fully sealed
 Shoes (each side) 49
 Tension Combined spring and hydraulic unit
 Rollers
 Track rollers (each side)..... 8
 Carrier rollers (each side)..... 2 (LC); 3 (HWG)



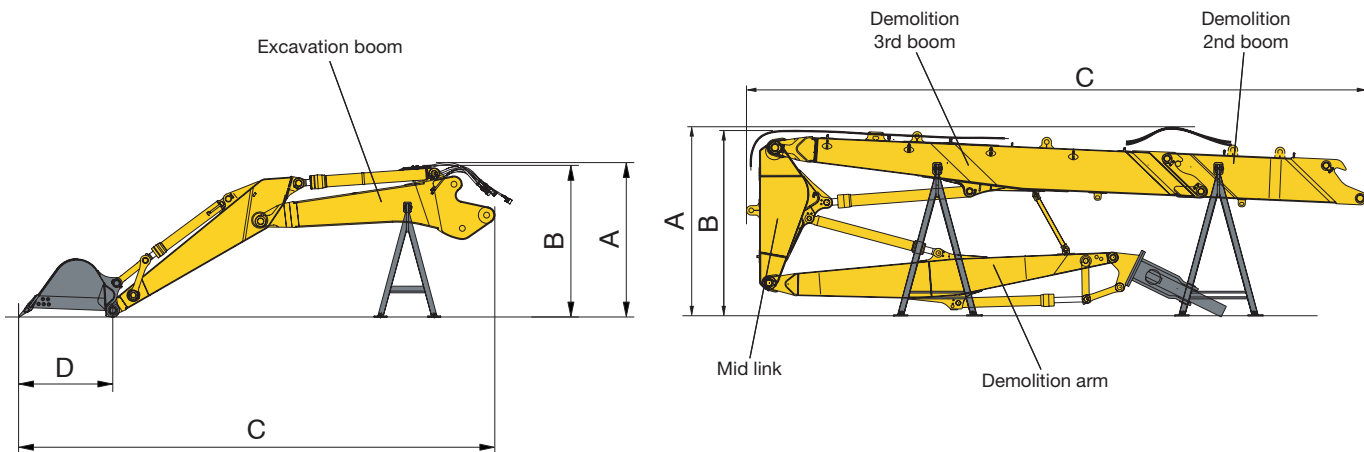
COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank..... 650 ltr
 Radiator 34 ltr
 Engine oil 38 ltr
 Swing drive..... 13,4 ltr
 Hydraulic tank 248 ltr
 Final drive (each side)..... 12 ltr

HIGH REACH			MEDIUM REACH		EXCAVATION BOOM	
	Operating weight	Ground pressure	Operating weight	Ground pressure	Operating weight	Ground pressure
Triple grouser shoes						
600 mm	58.690 kg	1,11 kg/cm ²	56.970 kg	1,07 kg/cm ²	50.270 kg	0,96 kg/cm ²
700 mm	59.140 kg	0,96 kg/cm ²	57.420 kg	0,93 kg/cm ²	50.720 kg	0,83 kg/cm ²



A	Transport length	8.315 mm
B	Maximum boom height (incl. hydraulic lines)	1.540 mm
	Transport weight with LC undercarriage (700 mm shoes, not including additional counterweight)	43.325 kg
	Additional weight for hydraulic wide gauge	9.930 kg
	Additional counterweight (1.470 mm × 640 mm × 550 mm)	4.490 kg

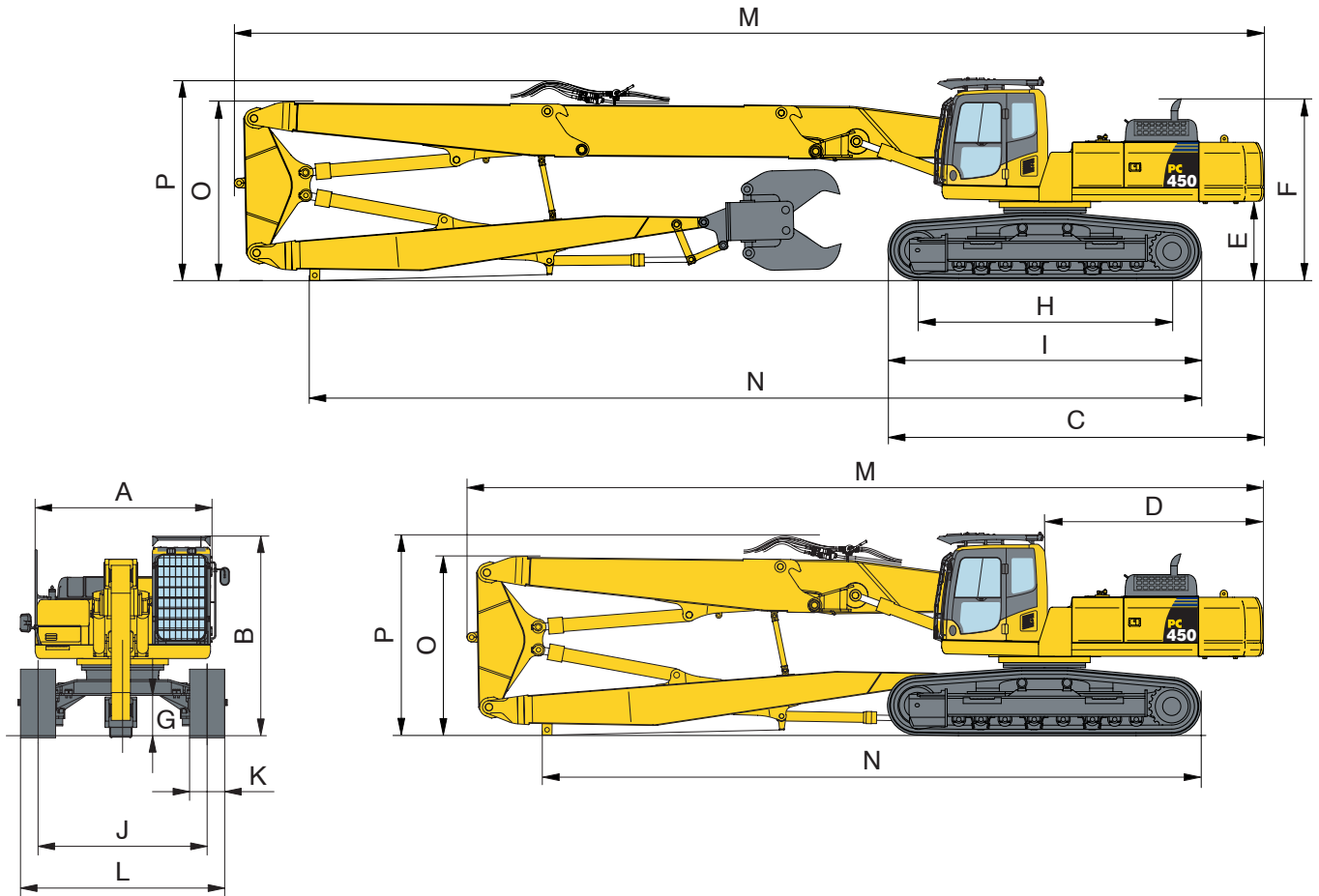


EQUIPMENT		EXCAVATION BOOM		HIGH REACH BOOM
		2,9 m arm	3,4 m arm	
A	Total height (incl. hydraulic lines)	3.025 mm	3.025 mm	3.425 mm
B	Height	2.980 mm	2.980 mm	3.250 mm
C	Length	8.780 mm	9.330 mm	11.412 mm
D	Tip radius	1.845 mm	1.845 mm	–
	Support weight	320 kg	320 kg	760 kg
	Excavation boom/2nd boom weight	2.910 kg ¹⁾	2.910 kg ¹⁾	1.720 kg
	3rd boom weight ¹⁾	–	–	2.500 kg
	Mid link weight	–	–	1.050 kg
	Arm weight ¹⁾	2.295 kg	2.305 kg	1.940 kg
	Bucket weight	2.180 kg	2.180 kg	–
	Total weight ²⁾	7.705 kg	7.715 kg	9.585 kg

1) Not including hydraulic cylinder.

2) Including hydraulic cylinders, links, hydraulic lines, stands and stated attachment weight.

TRANSPORT DIMENSIONS



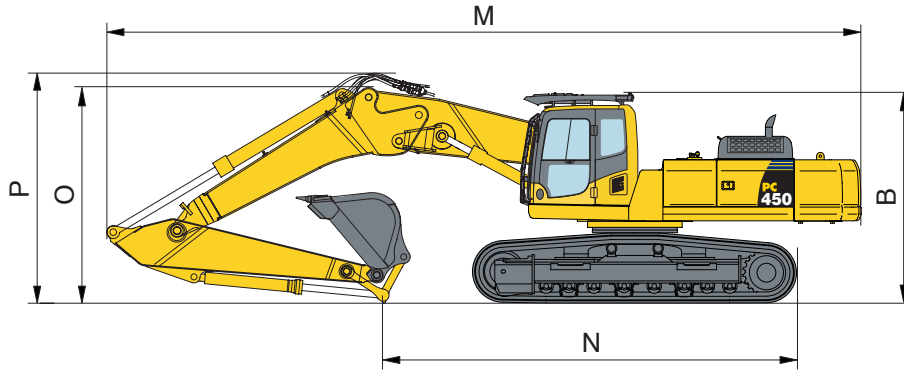
MACHINE DIMENSIONS		HIGH REACH	MEDIUM REACH
A	Overall width of upper structure ¹⁾	2.995 mm	2.995 mm
B	Overall height of cab, with FOPS ³⁾	3.485 mm	3.485 mm
	Overall height of cab, without FOPS ³⁾	3.265 mm	3.265 mm
C	Overall length of basic machine	6.385 mm	6.385 mm
D	Tail length	3.705 mm	3.705 mm
E	Clearance under counterweight	1.320 mm	1.320 mm
F	Machine tail height	3.110 mm	3.110 mm
G	Ground clearance	685 mm	685 mm
	Ground clearance (HWG undercarriage)	500 mm	500 mm
H	Tumbler centre distance	4.350 mm	4.350 mm
	Tumbler centre distance (HWG undercarriage)	4.315 mm	4.315 mm
I	Track length	5.355 mm	5.355 mm
J	Track gauge ²⁾	2.390 - 2.890 mm	2.390 - 2.890 mm
	Track gauge (HWG undercarriage)	2.280 - 3.130 mm	2.280 - 3.130 mm
K	Track shoe width (700 mm only with HWG undercarriage)	600 mm, 700 mm	600 mm, 700 mm
L	Overall track width with 600 mm shoes ²⁾	2.990 - 3.490 mm	2.990 - 3.490 mm
	Overall track width with 700 mm shoes ²⁾	3.090 - 3.590 mm	3.090 - 3.590 mm
	Overall track width with 700 mm shoes (HWG undercarriage) ²⁾	2.980 - 3.830 mm	2.980 - 3.830 mm
M	Transport length	18.870 mm	14.870 mm
N	Length on ground (transport)	17.840 mm	13.840 mm
O	Overall height (to top of boom)	3.120 mm	3.110 mm
P	Overall height (to top of hose)	3.350 mm	3.340 mm

1) Overall width of upper structure excludes side guards, handrails and mirrors. Side guards can be removed if transport width of less than 3 m is required.

2) Undercarriage in retracted - extended position

3) Overall height with Hydraulic Wide Gauge (HWG) undercarriage: + 165 mm

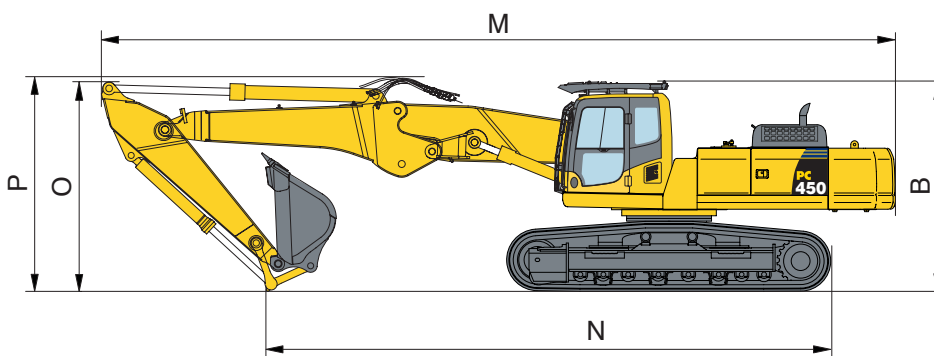
EXCAVATION BOOM - BENT POSITION



ARM LENGTH		2,9 m	3,4 m
M	Overall transport length	12.555 mm	12.430 mm
N	Transport length	7.415 mm	6.680 mm
B	Transport height (to top of cab, with FOPS)	3.485 mm	3.485 mm
	Transport height (to top of cab, without FOPS)	3.265 mm	3.265 mm
O	Transport height (to top of boom)	3.880 mm	3.660 mm
P	Transport height (to top of hose)	4.030 mm	3.810 mm

Overall height with Hydraulic Wide Gauge (HWG) undercarriage: + 165 mm

EXCAVATION BOOM - STRAIGHT POSITION

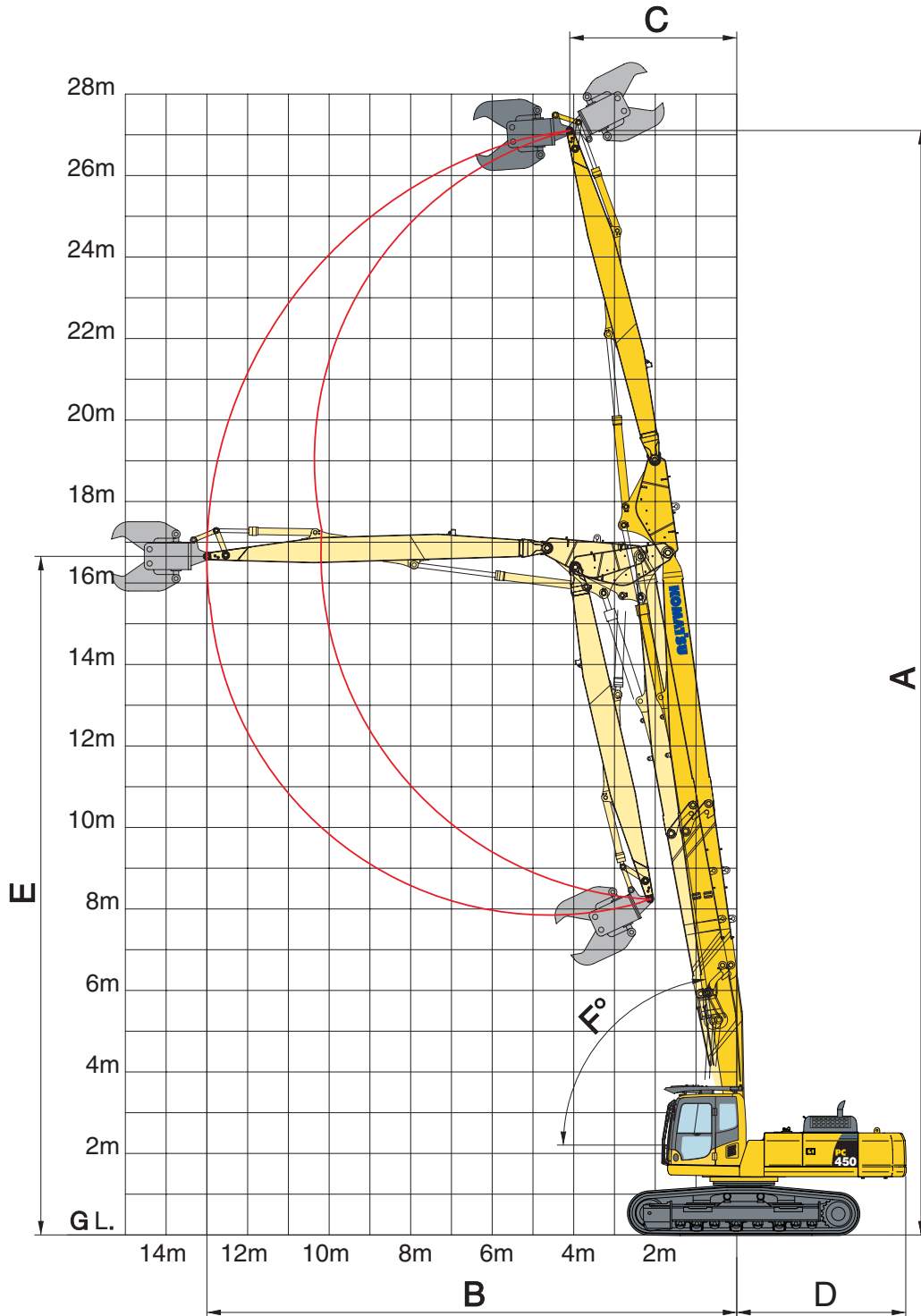


ARM LENGTH		2,9 m	3,4 m
M	Overall transport length	13.095 mm	13.070 mm
N	Transport length	9.105 mm	8.495 mm
B	Transport height (to top of cab, with FOPS)	3.485 mm	3.485 mm
	Transport height (to top of cab, without FOPS)	3.265 mm	3.265 mm
O	Transport height (to top of boom)	3.620 mm	3.690 mm
P	Transport height (to top of hose)	3.670 mm	3.740 mm

Overall height with Hydraulic Wide Gauge (HWG) undercarriage: + 165 mm

WORKING RANGE

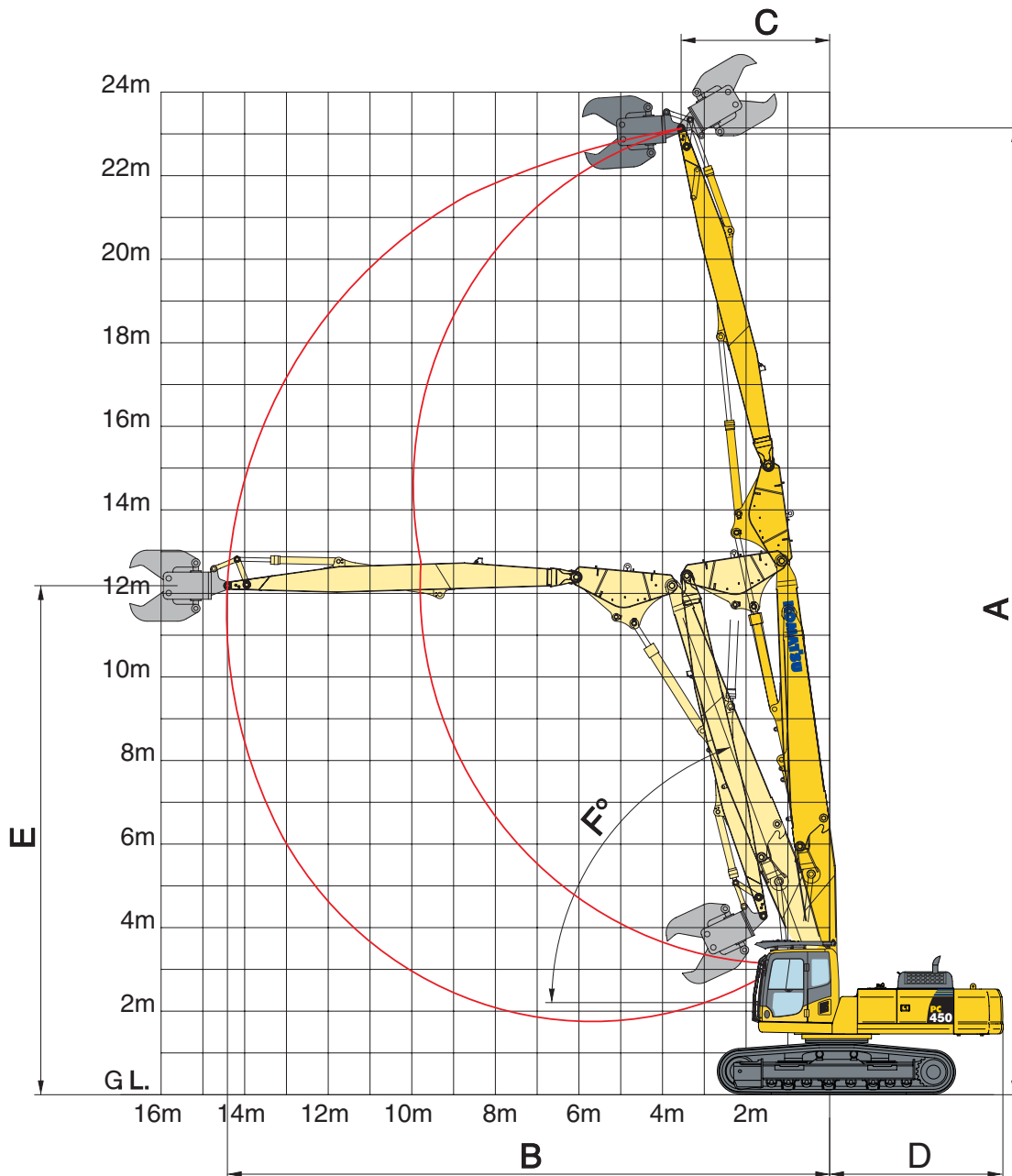
HIGH REACH DEMOLITION



HIGH REACH DEMOLITION		
A	Max. working height (to pin at arm end)	27.100 mm
B	Max. forward reach	13.500 mm
C	Min. swing radius of arm end pin (max. height)	4.100 mm
D	Tail swing radius	3.740 mm
E	Height at max. reach	16.650 mm
F	Min. boom angle from ground at max. height	80°

This working range is applicable through 360 degrees (depending upon fitted attachment) for LC or HWG undercarriage). For operator and jobsite safety, Komatsu recommend that high reach demolition machines work in line with the trackframe where ever possible.

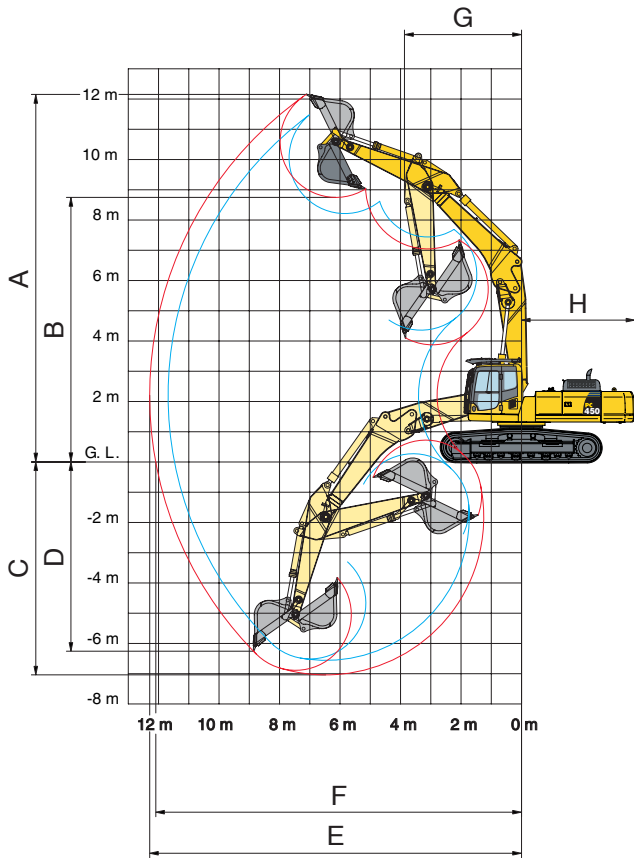
MEDIUM REACH DEMOLITION



MEDIUM REACH DEMOLITION		
A	Max. working height (to pin at arm end)	23.140 mm
B	Max. forward reach	14.410 mm
C	Min. swing radius of arm end pin (max. height)	3.550 mm
D	Tail swing radius	3.740 mm
E	Height at max. reach	12.180 mm
F	Min. boom angle from ground at max. height	70°

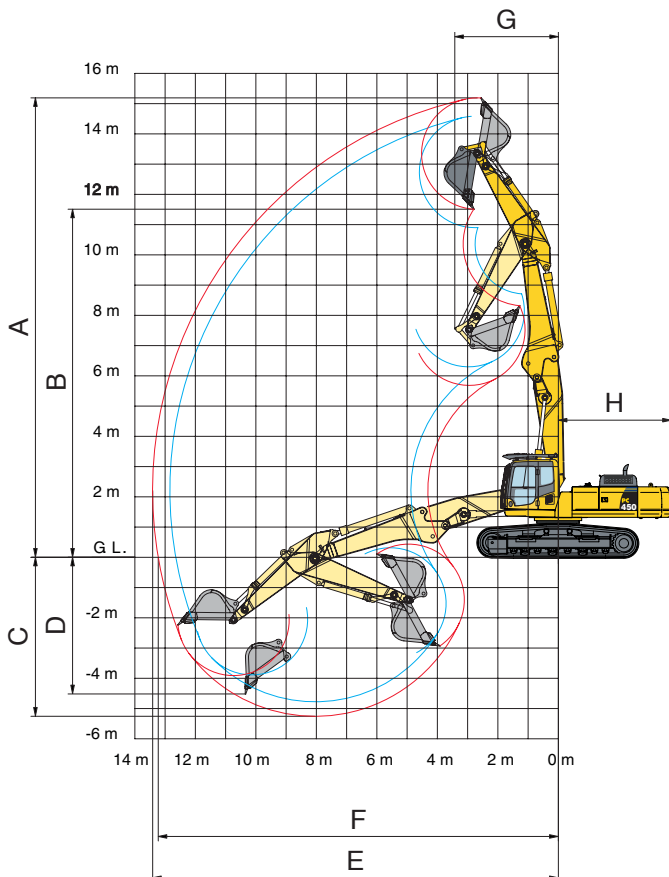
This working range is applicable through 360 degrees (depending upon fitted attachment) (for LC or HWG undercarriage). For operator and jobsite safety, Komatsu recommend that high reach demolition machines work in line with the trackframe where ever possible.

WORKING RANGE



EXCAVATION BOOM - BENT POSITION

	ARM LENGTH	2,9 m	3,4 m
A	Max. digging height	11.470 mm	12.150 mm
B	Max. dumping height	8.215 mm	8.750 mm
C	Max. digging depth	6.555 mm	7.035 mm
D	Max. vertical wall digging depth	5.060 mm	6.255 mm
E	Max. digging reach	11.680 mm	12.290 mm
F	Max. digging reach at ground level	11.470 mm	12.090 mm
G	Min. swing radius (bucket loaded)	3.900 mm	3.870 mm
H	Tail swing radius	3.740 mm	3.740 mm

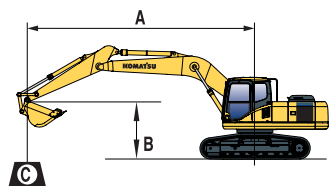


EXCAVATION BOOM - STRAIGHT POSITION

	ARM LENGTH	2,9 m	3,4 m
A	Max. digging height	14.580 mm	15.190 mm
B	Max. dumping height	10.900 mm	11.510 mm
C	Max. digging depth	4.775 mm	5.255 mm
D	Max. vertical wall digging depth	4.045 mm	4.520 mm
E	Max. digging reach	12.840 mm	13.410 mm
F	Max. digging reach at ground level	12.645 mm	13.225 mm
G	Min. swing radius (bucket loaded)	3.450 mm	3.425 mm
H	Tail swing radius	3.740 mm	3.740 mm

LIFTING CAPACITY

PC450LC-8



- A – Reach from swing centre
- B – Bucket hook height
- C – Lifting capacities, including bucket, bucket linkage and bucket cylinder

- Rating over front
- Rating over side
- Rating at maximum reach

When removing bucket, linkage or cylinder, lifting capacities can be increased by their respective weights

EXCAVATION BOOM - BENT POSITION

Arm length	A			10,5 m		9,0 m		7,5 m		6,0 m	
	9,0 m	kg	10250 *	10250 *							
	7,5 m	kg	10400 *	8400				12900 *	10350		
	6,0 m	kg	10950 *	6750		11200	6950	14400 *	9900	17000 *	14750
	4,5 m	kg	9600	5800		10850	6650	15000	9250	19200 *	13450
	3,0 m	kg	8900	5250		10450	6250	14200	8550	20500	12100
	1,5 m	kg	8600	5000		10050	5900	13450	7900	19250	11000
	0,0 m	kg	8750	5000		9750	5600	13000	7500	18550	10400
	-1,5 m	kg	9350	5350		9600	5450	12750	7250	18300	10200
	-3,0 m	kg	10750	6150				12500	7050	18400	10250
	-4,5 m	kg	13050 *	7900						15850 *	10600
	9,0 m	kg	7050 *	7050 *				8000 *	8000 *		
	7,5 m	kg	7100 *	7100 *				10350 *	10350 *		
	6,0 m	kg	7400 *	6100		9950 *	7150	13050 *	10200	15000 *	15000 *
	4,5 m	kg	7950 *	5300		11050	6800	15050 *	9550	18400 *	13950
	3,0 m	kg	8200	4850		10600	6400	14500	8800	20450 *	12250
	1,5 m	kg	7950	4600		10200	6050	13750	8150	19700	11400
	0,0 m	kg	8050	4600		9850	5700	12950	5700	18850	10700
	-1,5 m	kg	8500	4850		9650	5500	12850	7350	18450	10350
	-3,0 m	kg	9600	5500		9600	5500	12500	7050	18450	10300
	-4,5 m	kg	11850	6850				12950	7450	17350 *	10550

EXCAVATION BOOM - STRAIGHT POSITION

Arm length	A			10,5 m		9,0 m		7,5 m		6,0 m		
	9,0 kg	kg	10450 *	6950				12900 *	10000	12750 *	12750 *	
	7,5 kg	kg	9100	5450		10950	6750	14350 *	9700	14350 *	14350 *	
	6,0 kg	kg	7850	4550	7900	4600	10700	6500	14900	9150	21150 *	13500
	4,5 kg	kg	7150	4050	7750	4450	10300	6150	14100	8450	20100	11750
	3,0 kg	kg	6750	3750	7550	4300	9850	5750	13200	7700	18950	10750
	1,5 kg	kg	6600	3600	7350	4100	9500	5400	12650	7200	17950	9900
	0,0 kg	kg	6750	3700	7250	4000	9250	5200	12300	6850	17600	9600
	-1,5 kg	kg	7200	3950	7250	4000	9200	5100	12200	6800	15850 *	9600
	-3,0 kg	kg					8400 *	5200	10600 *	6900		
		9,0 kg	kg	7300 *	6050			8900 *	7000	10000 *	10000 *	9700 *
7,5 kg		kg	7150 *	4850			10400 *	6950	10950 *	10000	10600 *	10600 *
6,0 kg		kg	7200	4150	8100	4800	10900	6700	13600 *	9450	15200 *	13950
4,5 kg		kg	6550	3700	7900	4600	10500	6300	14400	8750	21100	12600
3,0 kg		kg	6250	3450	7700	4400	10050	5900	13550	8000	19500	11200
1,5 kg		kg	6150	3350	7450	4200	9650	5550	12900	7400	18350	10250
0,0 kg		kg	6250	3400	7300	4050	9350	5250	12450	7000	17800	9800
-1,5 kg		kg	6600	3600	7250	4000	9200	5150	12300	6850	17400 *	9700
-3,0 kg		kg	6350 *	4050	6450 *	4050	9250	5150	11850 *	6900	13600 *	9850

Lifting capacity table is published for guidance only, the machine is not intended for use as a crane. Lifting capacities are stated in kg, on the tip of the arm, for machine on firm, level supporting surface. The weight of any attachment used should be deducted from the values shown, to calculate payload. Indicated loads are based on ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity (indicated by *). Lifting capacity of the machine is limited by machine stability, hydraulic capacity and maximum permissible load of the attachment.