



CATERPILLAR

206 Excavator

- Hydraulic Excavator with Wheel Undercarriage
- 50 kW (67 HP) Flywheel Power (Deutz engine)
- 11 745 kg Operating Weight (with dozer)

Machine shown may have optional equipment.



engine

Choice of diesel engines:

Flywheel Power

Deutz F4L 912	50 kW (67 HP) at 2150 RPM
Perkins 4.236	51 kW (68 HP) at 2150 RPM

The net power at the flywheel of the vehicle engine based on SAE J1349 standard conditions, 25°C and 100 kPa, using 35 API gravity fuel oil at 15,6°C, and after deductions for fan, air cleaner, water pump, lubricating oil pump, fuel pump, alternator and muffler. No deration is required up to 1500 m altitude with Deutz engine and 2300 m with Perkins.

(Above ratings also valid under standard conditions of ISO 1585.)

Deutz 4-stroke-cycle F4L 912 diesel engine with four cylinders, 100 mm bore, 120 mm stroke and 3,77 liters displacement. Air cooled. Dry air filter with main filter and secondary element.

Perkins 4-stroke-cycle 4.236 diesel engine with four cylinders, 98,4 mm bore, 127 mm stroke and 3,86 liters displacement. Water cooled. Dry air filter with main filter and secondary element.

24 volt direct electric starting system. Two 12-volt, 95 amp-hour batteries.

hydraulic system

Two variable displacement piston pumps power the boom, stick, bucket, swing and travel circuits. Summated control, with both pumps providing identical flow rates to the system or to pre-selected single circuit. Output of each pump @ rated engine rpm and 115 bar (11 500 kPa) 93 l/min
Relief valve setting 300 bar (30 000 kPa)

Cylinders:	Bore and Stroke	kN
Boom (2)	101,7 x 815 mm	2 x 239
Stick (1)	101,7 x 1040 mm	1 x 239
Bucket (1)	89,0 x 815 mm	1 x 183

All cylinders have rod and head-end snubbers to cushion bottoming impact. Check valve in boom circuit can be actuated by operator to prevent load drift.

Separate hydraulic oil cooling circuit with thermostatically controlled, hydraulically driven fan.



transmission

Fully hydrostatic; all-wheel drive by variable displacement piston motor. Forward and reverse travel controlled by lever beside left armrest. On-the-go shifting between work and travel ranges with automatic safeguard to prevent early downshifting. Overspeed valve limits downhill travel speed in forward gear.

Speeds (forward and reverse):

Work	0-6,0 km/h
Travel	0-20,0 km/h

Optional creeper speeds (forward and reverse):

Work	0-1,8 km/h
Travel	0-6,0 km/h

Gradeability with 9.00-20 tires: 80%.



brakes

Service — Oil disc brakes on all four wheels. Air-over-hydraulic actuation. Lockable during excavator operation. Adjustment and maintenance free.

Parking — Auxiliary shoe brake mounted between drive shaft sections. Spring applied, air released. Functions as additional service brake during excavator operation.

Emergency — Uses spring applied, air released parking brake. Operator can manually modulate application. Automatically applies after air tanks for service brakes are exhausted.

For working stability, a single switch applies the four-wheel disc brakes, the parking brake and the hydraulic locking cylinders of the oscillating axle. Each function can also be applied individually.



air system

One-cylinder air compressor, belt driven from the engine. Three air tanks with condensation drain valves. 6,2 bar (620 kPa) minimum and 7,3 bar (730 kPa) maximum pressure in air tanks and system. 30% drop in pressure actuates warning light on console and audible alarm. Standard console air gauge shows pressure.



tires

Duals 9.00-20, 10.00-20.
Singles 18-19,5.



controls

Two pilot-operated joysticks on seat armrests actuate boom, stick, bucket and swing. A switch in top of each handle activates solenoid valves to control attachment options such as clam or grab rotator and ditch cleaning or ditch grading bucket tilt.

Right lever: Move forward and backward to lower and raise boom. Right and left to control bucket curl and dump, or to open or close attachment clamshell.

Left lever: Move forward and backward to move stick out and in. Left and right to swing left or right.

Oblique movement of either lever operates two functions simultaneously.

Clamshell rotation to right is a button on right control lever; to left on left lever.

Left pedal is swing brake. To permanently lock swing, push pedal beyond normal braking point to engage latch. Push again with foot touching latch to release lock.

Left armrest lifts for operator entry and exit. Raising the armrest prevents actuation of all hydraulic functions except steering and any circuit then in use.



swing mechanism

Hydraulic piston motor drives combined spur/planetary gearing to pinion. Swing gear has external teeth. Ball-type swing bearing. Shoe brake on swing drive housing is controlled through spring-applied hydraulically-released cylinder and locks upper structure in any position. Modulated swing braking reduces pendulum effect of clamshell or other suspended tools or loads. Two mechanical swing lock pin positions (180° opposite each other) can be engaged from cab to lock undercarriage to upper frame for travel or transport. Swing speed at rated engine speed

11,3 RPM



steering

Fully hydraulic — powered by a separate pump mounted on main pump housing. Steering cylinder, integrated with axle, exerts uniform steering effort left or right. Emergency steering capability, actuated by steering wheel.

Steering angle (inner wheel, each direction)

35°

Turning circle diameter (center line

of outside dual tire)

11,8 m

Vehicle clearance turning circle (with 2-piece boom and folded equipment):

Foreboom retracted and in upper position

13,65 m

Foreboom retracted and in lower position

13,8 m



axles and final drives

All-wheel drive. Conventional differentials and planetary final drives. Front steering axle oscillates ±8.5° for stability on rough terrain, lockable from cab in any position of oscillation.

Ground clearance

330 mm

Axle load capacity

26 ton



service refill capacities

(See Operation and Maintenance Guide for recommended change intervals and related data.)

	Liters
Fuel tank	185
Cooling system (Perkins engine)	30
Hydraulic system (includes tank)	240
Hydraulic tank	180
Lubrication:	
Engine oil: Deutz	11
Perkins	8,4
Swing drive	9,5
Rear axle housing, differential, and power shift transmission	15
Front steering axle and differential housing	9,5
Final drives (each of four)	1,5
Oil disc brakes (complete system)	0,5



standard equipment NOTE: Standard and optional equipment may vary by country. Consult your Caterpillar dealer for specifics.

Complete lighting system for travel on public roads. One boom-mounted work light. Sound insulated cab with floor mat, literature pocket, bottle rack, cigarette lighter, ashtray and coat hanger. Interior cab light. Roof hatch. Front window, locks open, infinitely adjustable. Provision for radio installation. Vibration damped seat, fully adjustable. Fuel gauge in cab. Operator's signaling/warning horn. Rearview mirrors. Windshield wiper. Swing pinion protection. Storage boxes — one each on undercarriage and upper structure, with a tool kit in the lower.

Human-engineered for comfort and efficiency

Versatile performance

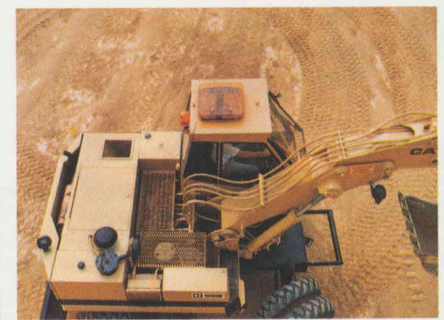
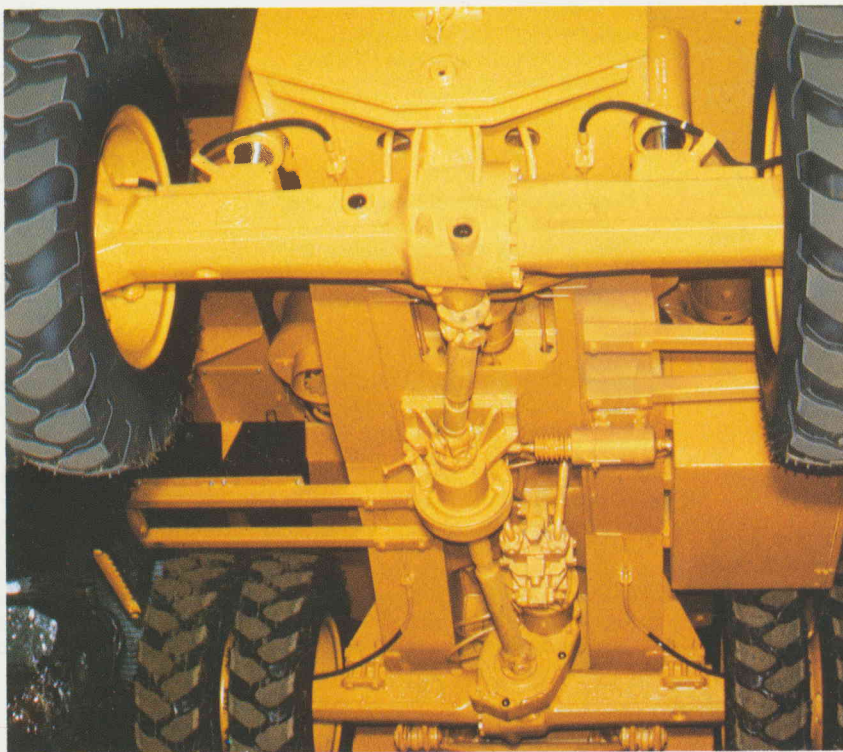
- Designed to be **compact**, yet stable.
- Excellent digging range, dump height and lift capacity.
- Variable displacement hydraulic system with power summation.
- Oscillating steering axle . . . locks hydraulically for stable platform when working.
- Standard four-wheel drive . . . full hydrostatic . . . sure maneuvering on poor underfooting.
- Work/travel speed ranges with on-the-go shifting between ranges . . . speeds to 20 km/h . . . safeguard to prevent early downshifting . . . optional creeper speeds for precise travel with heavy loads. Overspeed valve limits downhill speed in forward gear.
- 80% gradeability with 9.00-20 tires.
- Four-wheel oil disc brakes . . . maintenance free.
- Independent hydraulic oil cooler helps assure system temperature control in all climates.
- Choice of air-cooled Deutz or water-cooled Perkins diesel engines.
- Full range of buckets: backhoe, rock, ditch-cleaning, ejector, trapezoidal . . . clamshells and grapples. Articulated boom option. Hydraulic hammer arrangements.

Advanced operator's station (photos ►)

- Piloted controls — easy and responsive, smooth and accurate. Short lever travel.
- Full instrumentation . . . cab resiliently mounted . . . roof hatch . . . infinitely adjustable front window.
- Seat has excellent adjustment features, including to operator weight, and independent horizontal adjustment relative to joysticks and to steering wheel and pedals.
- Single switch sets oscillating axle, parking brake and four-wheel brakes for instant work. Also individually controlled.
- Extremely quiet sound levels for both operator and spectator.



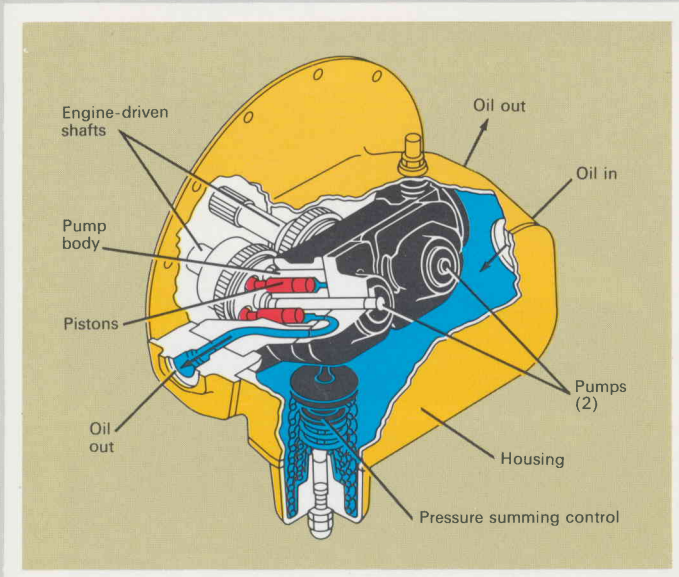
Mobile, stable, versatile . . .



Full hydraulic steering delivers quick, sharp maneuvering with a 35-degree steering angle left or right (inner wheel). Turning circle diameter on center line of outside dual tire is 11.8 meters. For protection and serviceability, the steering cylinder is fitted within a sleeve integral with the front axle housing. A pump powered by the steering wheel provides emergency steering capability.

◀ **Oscillating front axle** provides excellent jobsite mobility and stability. Oscillation helps keep all four wheels on the ground for maximum traction and a smoother ride. Hydraulic cylinders lock the axle solidly for excavation work or moving with a load. Check valves prevent cylinder movement in case of hydraulic line failure.

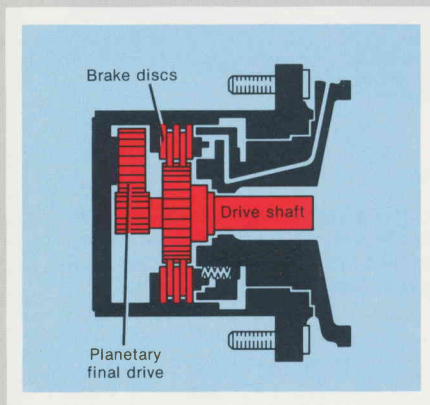
State-of-the-art hydraulic power



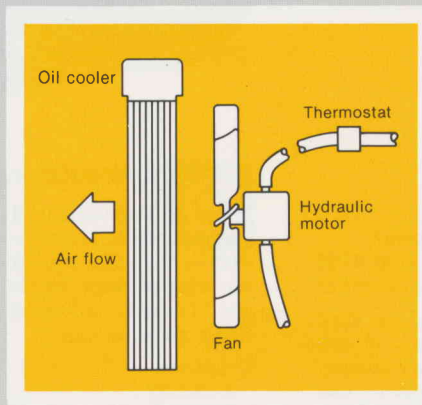
Two variable displacement piston pumps are the key to exceptional productivity. These pumps furnish summated power to the boom, stick and bucket. With summated control, both pumps supply identical flow rates to the system or to a single circuit, as required, for fast implement response and high fuel efficiency. One of the pumps also powers the travel circuit, and the other the swing and attachment dozer/outrigger functions.



All-wheel hydrostatic drive features smooth, easy on-the-go shifting between work and travel ranges. With the push of a button, the operator shifts up or down as terrain or road conditions demand. Protection against early downshifting is built in — transmission responds only (and automatically) when ground speed is correct. Top road speed is 20 km/h.



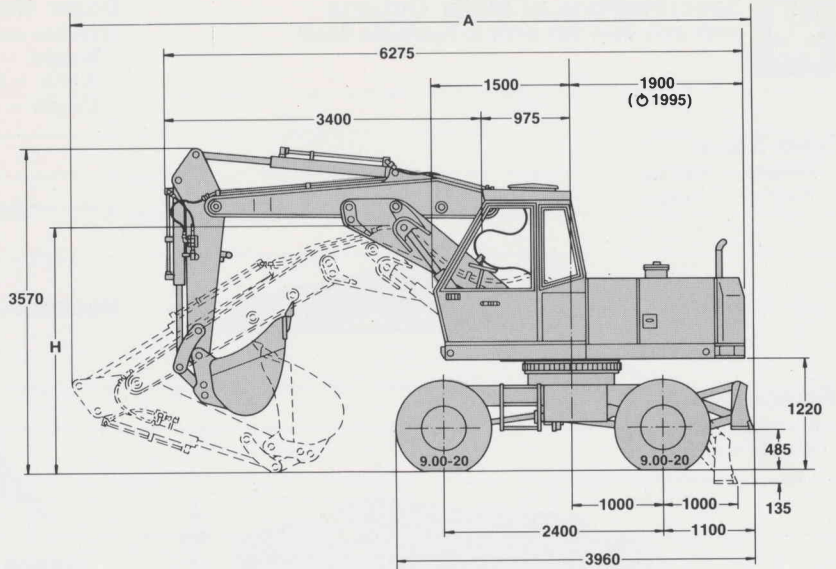
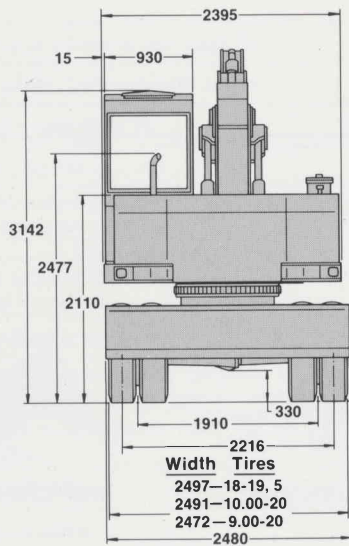
Oil disc brakes on all four wheels provide reliable service braking, are adjustment and maintenance-free. An overspeed valve in the piston drive motor gives additional downhill retarding in forward gear, protecting the motor and reducing stress on the wheel brakes.



Hydraulic oil cooler, independent from engine fan, assures cooling capability in high ambient temperatures. The cooler fan is hydraulically driven and thermostatically controlled for efficiency. A light on the instrument panel indicates when the fan is running at maximum speed.



THE CATERPILLAR 206 EXCAVATOR is backed by your Caterpillar dealer with CAT PLUS services — the most comprehensive customer support system in the industry. Your dealer provides an extensive parts inventory, factory-qualified servicemen and many special support programs designed specifically for your needs. By reducing down-time and increasing productivity, these services are an important part of the total value you expect from Caterpillar.



Transport Dimensions with 2-piece Boom

Stick	Foreboom extended and in lower position				Foreboom extended and in upper position			
	Dozer to front (mm)		Dozer to rear (mm)		Dozer to front		Dozer to rear	
	A	H	A	H	A	H	A	H
1600 mm	7250	2710	7390	2710	7550	2510	7690	2510
2100 mm	7330	2890	7430	2800	7570	2640	7710	2640
2600 mm	7270	3170	7400	2720	7550	2820	7720	2650



weight (approximate)

Shipping — (includes Deutz engine, 10% fuel, 2-piece boom, 2100 mm stick and 900 mm backhoe bucket):

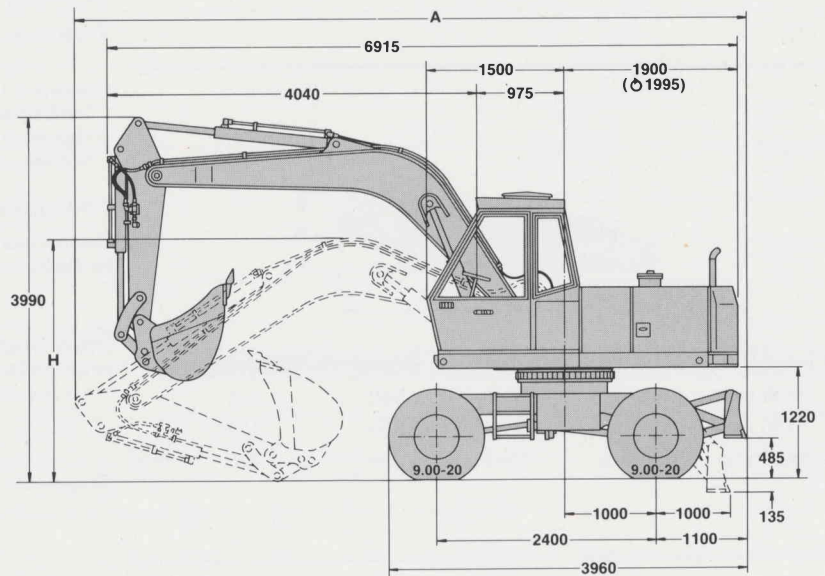
- Without dozer 10 830 kg
- With dozer 11 530 kg

Operating — (shipping weight plus full fuel tank, and operator):

- Without dozer 11 045 kg
- With dozer 11 745 kg

For the following equipment, change the above weights:

- With Perkins engine +100 kg
- With one-piece boom -90 kg
- With 1600 mm stick -45 kg
- With 2600 mm stick +65 kg
- With one set of outriggers (rear) . . +1000 kg



Transport Dimensions with 1-piece Boom

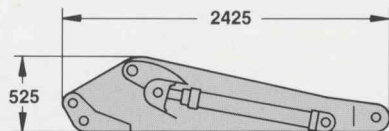
Stick	Dozer to front (mm)		Dozer to rear (mm)	
	A	H	A	H
1600 mm	7300	2560	7390	2560
2100 mm	7380	2810	7430	2670
2600 mm	7320	3140	7400	2570



Specifications of Major Options (with cylinders but without hydraulic lines)

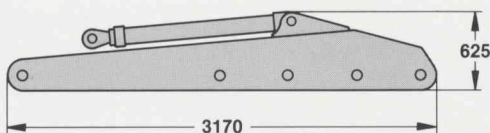
Stub Boom

Weight — 670 kg
Width — 715 mm



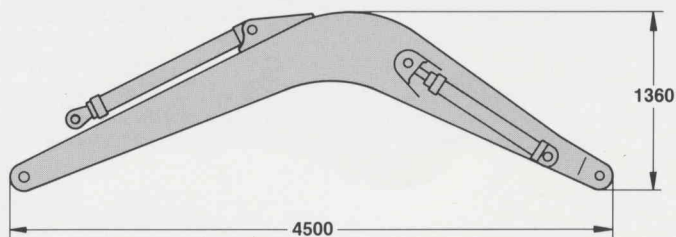
Foreboom

Weight — 580 kg
Width — 460 mm

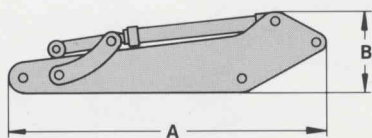


One-piece Boom

Weight — 1160 kg
Width — 715 mm



Sticks

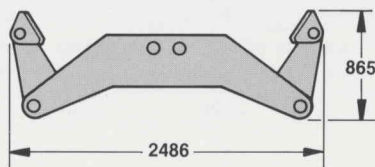


	Weight	A (mm)	B (mm)	Width (mm)
1600 mm	455 kg	2340	650	455
2100 mm	500 kg	2835	600	455
2600 mm	565 kg	3355	605	455

Outriggers, one or two sets

(each set — with cylinders and linkage but without hydraulic lines):

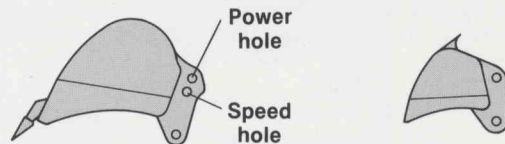
Weight — 1000 kg
Width — 425 mm
(NOTE: Specify out-rigger and/or dozer needs with machine order to assure proper carbody configuration.)



Dozer Blade (with cylinders and linkage)

Weight — 700 kg
Width — 2480 mm
Height — 710 mm

Buckets



General Purpose (Backhoe)

Ditch Cleaning

All general purpose (backhoe) buckets have power and speed holes to adapt to working conditions.

	Cutting width (mm)	Capacity, Heaped, ISO (liters)	
General Purpose:	500	245	
	600	310	
	700	380	
	800	450	
	900	520	
	1000	590	
	1100	660	
	1200	725	
Rock: (NOTE: heavy duty rock buckets are not to be used.)	600	330	
	750	440	
	1000	625	
Trenching (with ejector):	280	185	
	380	220	
Clamshell (all available with rotators and tips with welded or bolt-on adapters):	280*	135	
	380*	190	
	600	310	
	700	360	
	800	410	
*Available with ejectors.			
Ditch Cleaning (without teeth)*:	1500	355	
	1800	430	
	2000	480	
	2400	580	
Ditch Grading (with strike-off plate)*:	2000	230	
	2400	280	
*Available with optional hydraulic tilting (45° to either side).			
	Slope	Bottom width (mm)	Capacity, Heaped, ISO (liters)
Trapezoid:	1:1	400	380
	1:1	600	475
	1:1,25	400	435
	1:1,25	600	535
	1:1,5	400	495
	1:1,5	600	595

MAJOR COMPONENT WEIGHTS:

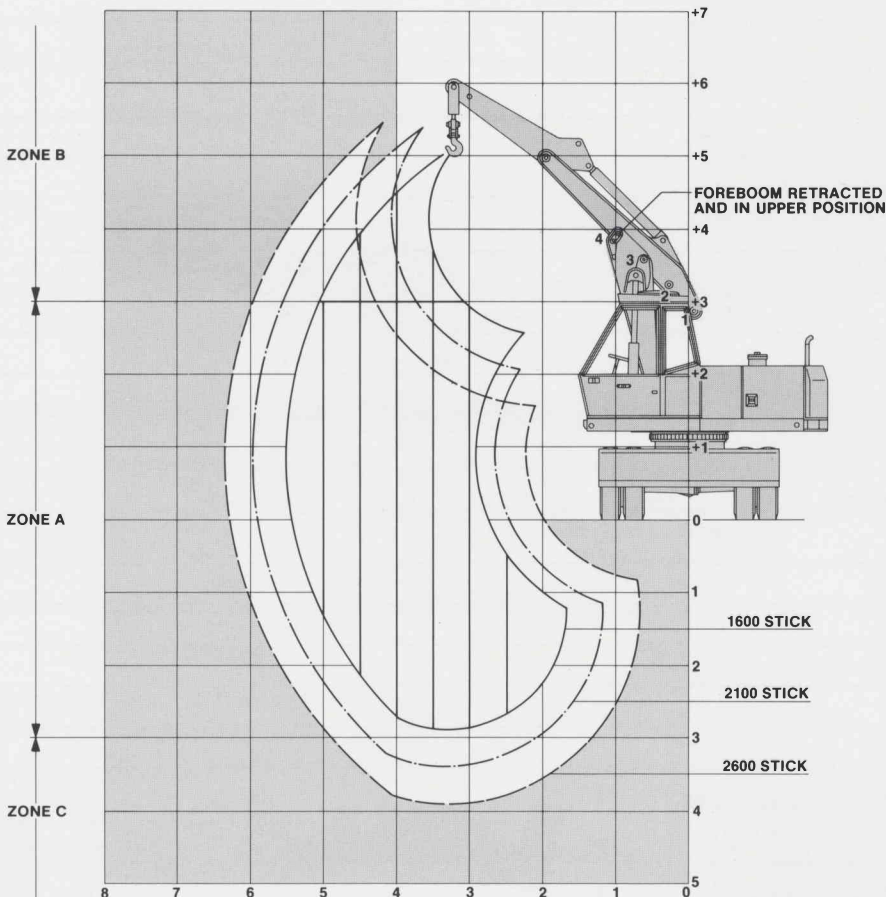
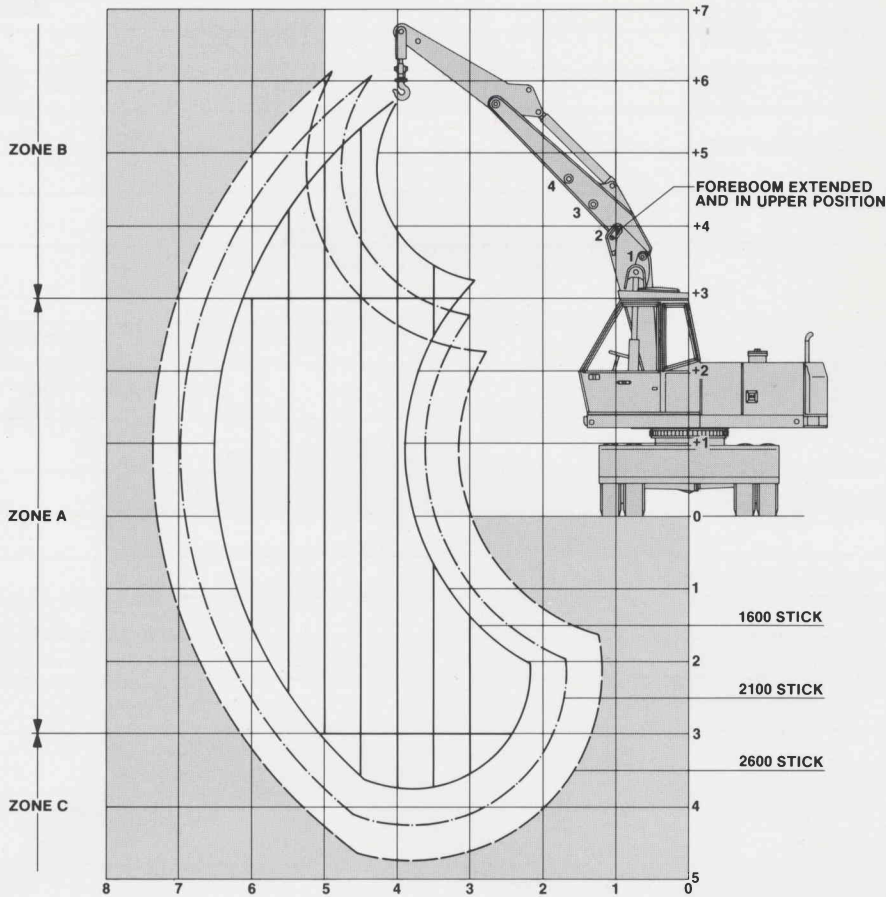
Upperstructure (with swing bearing, but without boom or other attachments) — 5410 kg

Undercarriage Assembly (with storage box, tool kit, wheel chocks and 10.00-20 tires . . . without swing bearing, no attachments) — 3245 kg



optional equipment

One and two-piece booms (see page 6).	
Articulated boom, hydraulically offset.	
Backhoe sticks (see page 6).	
Buckets (see page 6).	
Dozer, rear mounted. (Cannot be installed with two outrigger sets.)	
Outriggers, one set (rear-mounted) or two. (Single set is front mounted when dozer installed.)	
Auxiliary hydraulic circuits.	
Boom height adjustment link (between stub boom and foreboom of two-piece boom).	
Clamshell lines with diverter valve for all stick lengths.	
Clamshell suspension.	
Clamshell extensions.	
Clamshell roading restraint.	
Lifting hook.	
Ripper tooth.	
Bucket tilting device (for ditch cleaning and grading buckets only).	
Hydraulic hammer arrangement (controls, mounts, lines and linkage installed — with or without hammer).	
Multi-tine grapple (open tine or orange peel).	
Pulpwood grapple.	
Tires (see page 2).	
Rubber spacer rings for use between dual tires.	
Creeper speeds (mechanically engaged from ground or remotely controlled from cab).	
Swing gear tooth guard.	
Electric refueling pump.	
Cold weather starting aid for Deutz or Perkins engines (to -15°C).	
Additional warning horn, air operated.	
Travel alarm (standard in USA).	
Swiss roading package.	
French air tank system.	
Optional cab with integral FOPS (falling object protective structure).	
Third exit (rear) from cab.	
Additional work light, boom-mounted (for use only with one-piece boom).	
Work light, rear.	
Rotating beacon.	
Side marker light.	
Headlight protection.	
Lifting overload warning.	
Cab heater (engine oil heating with Deutz engine — water heating with Perkins).	
Radio.	
Windshield washer (standard in USA).	
Mirror group.	



Lifting capacity data is shown on pages 9, 10, 11. The payload capacities in metric tons (t) are according to DIN 15 019 Part 2 (values not directly comparable to SAE or PCSA ratings) — with the following conditions:

- Dual tires (12 ply rating)
- Vehicle on firm and level ground
- Bucket and bucket cylinder not attached

When attachments such as bucket and bucket cylinder are installed, the weights of these attachments should be deducted from the data in these tables.

Weight of bucket cylinder and linkage = 185 kg.

Not Equipped with Dozer or Outriggers — 360° swing Foreboom fully extended

Stick	Zone	Radius in m		Lifting capacity in metric tons						
		3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0
1600	B	4,85	3,90	3,25	2,75	2,35	2,05	1,80		
	A	4,30	3,40	2,85	2,40	2,10	1,85	1,65		
	C	4,55	3,60							
2100	B	4,80	4,00	3,35	2,80	2,40	2,05	1,80	1,60	
	A	4,25	3,35	2,75	2,35	2,05	1,80	1,60	1,45	
	C	4,35	3,45	2,90	2,45					
2600	B				2,90	2,45	2,10	1,80	1,60	1,40
	A	4,10	3,25	2,70	2,25	2,00	1,75	1,55	1,40	1,30
	C	4,20	3,30	2,75	2,30	2,00				

Foreboom fully retracted

1600	B	4,90	4,00	3,25	2,70	2,30				
	A	4,35	3,45	2,85	2,45	2,10				
	C									
2100	B		4,05	3,35	2,80	2,35	2,00			
	A	4,30	3,40	2,80	2,40	2,10	1,85			
	C									
2600	B				2,85	2,40	2,00	1,75		
	A	4,20	3,30	2,75	2,35	2,00	1,75	1,60		
	C	4,35	3,45							

With Dozer Elevated — over steering axle Foreboom fully extended

Stick	Zone	Radius in m		Lifting capacity in metric tons						
		3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0
1600	B	4,85	4,00	3,40	2,95	3,00	3,10	2,80		
	A	6,35	5,10	4,35	3,90	3,45	3,00	2,70		
	C	5,65	4,85							
2100	B	4,80	4,00	3,40	2,95	2,55	2,60	2,75	2,50	
	A	5,35	4,35	3,85	3,50	3,20	3,00	2,65	2,35	
	C	5,60	4,65	4,55	4,05					
2600	B				2,90	2,55	2,25	2,35	2,45	2,20
	A	4,75	3,95	3,35	3,10	2,90	2,75	2,60	2,30	2,10
	C	5,45	4,50	4,25	3,95	3,40				

Foreboom fully retracted

1600	B	4,90	4,05	3,75	3,80	3,65				
	A	5,60	4,90	4,45	4,05	3,50				
	C									
2100	B		4,05	3,45	3,25	3,35	3,20			
	A	4,90	4,20	4,00	3,75	3,45	3,00			
	C									
2600	B				2,95	2,85	3,00	2,80		
	A	4,85	4,00	3,40	3,30	3,20	2,95	2,65		
	C	5,50	4,95							

With Dozer on Ground — 360° swing Foreboom fully extended

Stick	Zone	Radius in m		Lifting capacity in metric tons						
		3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0
1600	B	4,85	4,00	3,40	2,95	2,85	2,45	2,15		
	A	5,50	4,30	3,50	3,00	2,55	2,25	2,00		
	C	5,65	4,50							
2100	B	4,80	4,00	3,40	2,95	2,60	2,50	2,15	1,90	
	A	5,35	4,25	3,45	2,90	2,50	2,20	2,00	1,80	
	C	5,55	4,35	3,55	3,00					
2600	B				2,90	2,55	2,25	2,20	1,90	1,70
	A	4,80	3,95	3,35	2,85	2,45	2,15	1,95	1,75	1,60
	C	5,40	4,15	3,40	2,90	2,50				

Foreboom fully retracted

1600	B	4,90	4,05	3,75	3,30	2,75				
	A	5,55	4,35	3,55	3,00	2,60				
	C									
2100	B		4,05	3,45	3,25	2,85	2,40			
	A	4,90	4,20	3,50	2,95	2,55	2,25			
	C									
2600	B				2,95	2,85	2,45	2,10		
	A	4,85	4,00	3,40	2,90	2,50	2,20	2,00		
	C	5,50	4,35							

With Dozer on Ground — ±30° over rear axle Foreboom fully extended

Stick	Zone	Radius in m				Lifting capacity in metric tons					
		3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	
1600	B	4,85	4,00	3,60	2,95	2,95	3,10	3,20			
	A	6,35	5,10	4,35	3,90	3,60	3,55	3,25			
	C	5,65	4,85								
2100	B	4,80	4,00	3,40	2,95	2,55	2,60	2,25	2,85		
	A	5,35	4,35	3,85	3,50	3,25	3,10	3,00	2,95		
	C	5,55	4,65	4,55	4,35						
2600	B				2,90	2,60	2,25	2,30	2,45	2,60	
	A	4,75	3,95	3,35	3,10	2,90	2,75	2,65	2,65	2,65	
	C	5,45	4,50	4,25	4,15	3,95					

Foreboom fully retracted

With Single Rear Outriggers Elevated — 360° swing Foreboom fully extended

Stick	Zone	Radius in m				Lifting capacity in metric tons						
		2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0
1600	B			4,85	4,00	3,40	2,95	2,75	2,40	2,10		
	A	9,50	7,30	5,25	4,10	3,40	2,85	2,50	2,20	1,95		
	C		7,10	5,50	4,30							
2100	B			4,80	4,00	3,40	2,95	2,60	2,40	2,10	1,85	
	A	10,30	7,10	5,15	4,05	3,30	2,80	2,35	2,15	1,90	1,75	
	C	9,35	7,00	5,30	4,15	3,40	2,90					
2600	B					2,90	2,60	2,25	2,15	1,85	1,60	
	A	10,95	6,90	4,75	3,95	3,25	2,75	2,40	2,10	1,85	1,65	1,55
	C	9,15	6,85	5,10	4,00	3,25	2,75	2,40				

Foreboom fully retracted

With Single Rear Outriggers Elevated — over steering axle Foreboom fully extended

Stick	Zone	Radius in m				Lifting capacity in metric tons						
		2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0
1600	B			4,85	4,00	3,40	2,95	2,95	3,10	3,05		
	A	9,50	7,45	6,35	5,10	4,35	3,90	3,60	3,30	2,90		
	C		7,10	5,65	4,85							
2100	B			4,80	4,00	3,40	2,95	2,60	2,60	2,75	2,70	
	A	10,30	8,35	5,35	4,35	3,85	3,05	3,25	3,10	2,85	2,55	
	C	9,35	7,00	5,55	4,65	4,55	4,35					
2600	B					2,90	2,60	2,25	2,30	2,45	2,40	
	A	11,50	9,10	4,75	3,95	3,35	3,10	2,90	2,75	2,70	2,50	2,30
	C	9,15	6,85	5,45	4,50	4,25	4,15	3,65				

Foreboom fully retracted

With Single Rear Outriggers Elevated — over rear axle Foreboom fully extended

Stick	Zone	Radius in m				Lifting capacity in metric tons						
		2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0
1600	B			4,70	3,55	2,95	2,50	2,10	1,85	1,60		
	A	8,30	5,30	3,90	3,05	2,55	2,15	1,85	1,65	1,45		
	C		5,55	4,10	3,25							
2100	B			4,65	3,70	3,05	2,55	2,20	1,85	1,60	1,40	
	A	7,95	5,10	3,80	3,00	2,45	2,10	1,80	1,60	1,45	1,30	
	C	8,20	5,35	3,95	3,10	2,55	2,20					
2600	B						2,60	2,20	1,90	1,65	1,40	1,25
	A	7,60	5,00	3,70	2,90	2,40	2,00	1,75	1,55	1,40	1,25	1,15
	C	7,80	5,10	3,75	2,95	2,45	2,05	1,80				

Foreboom fully retracted

1600	B		6,15	4,70	3,70	3,00	2,45	2,05				
	A	8,10	5,30	3,95	3,10	2,55	2,20	1,90				
	C											
2100	B				3,85	3,10	2,55	2,15	1,80			
	A	7,85	5,20	3,85	3,05	2,50	2,15	1,85	1,65			
	C											
2600	B						2,60	2,20	1,85	1,55		
	A	7,70	5,05	3,75	3,00	2,45	2,10	1,80	1,60	1,45		
	C	8,10	5,30	3,90	3,10							

With Single Rear Outriggers on Ground — 360° swing Foreboom fully extended

Stick	Zone	Radius in m				Lifting capacity in metric tons						
		2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0
1600	B			4,85	4,00	3,40	2,95	2,95	2,90	2,50		
	A	9,50	7,45	6,40	5,10	4,20	3,55	3,05	2,70	2,40		
	C		7,10	5,65	4,80							
2100	B			4,80	4,00	3,40	2,95	2,60	2,60	2,55	2,20	
	A	10,30	8,35	5,35	4,35	3,85	3,50	3,00	2,65	2,35	2,10	
	C	9,35	7,00	5,60	4,65	4,25	3,60					
2600	B						2,90	2,55	2,25	2,30	2,25	2,00
	A	11,50	9,10	4,75	4,00	3,35	3,10	2,90	2,55	2,30	2,05	1,85
	C	9,15	6,80	5,45	4,50	4,10	3,45	3,00				

Foreboom fully retracted

1600	B		6,15	4,90	4,05	3,80	3,80	3,25				
	A	9,50	6,70	5,65	4,90	4,25	3,60	3,10				
	C											
2100	B				4,05	3,45	3,25	3,30	2,80			
	A	8,20	6,10	4,90	4,20	3,95	3,55	3,05	2,65			
	C											
2600	B						2,95	2,85	2,90	2,50		
	A	8,20	6,10	4,85	4,05	3,40	3,30	3,00	2,60	2,35		
	C	9,20	6,90	5,50	4,90							

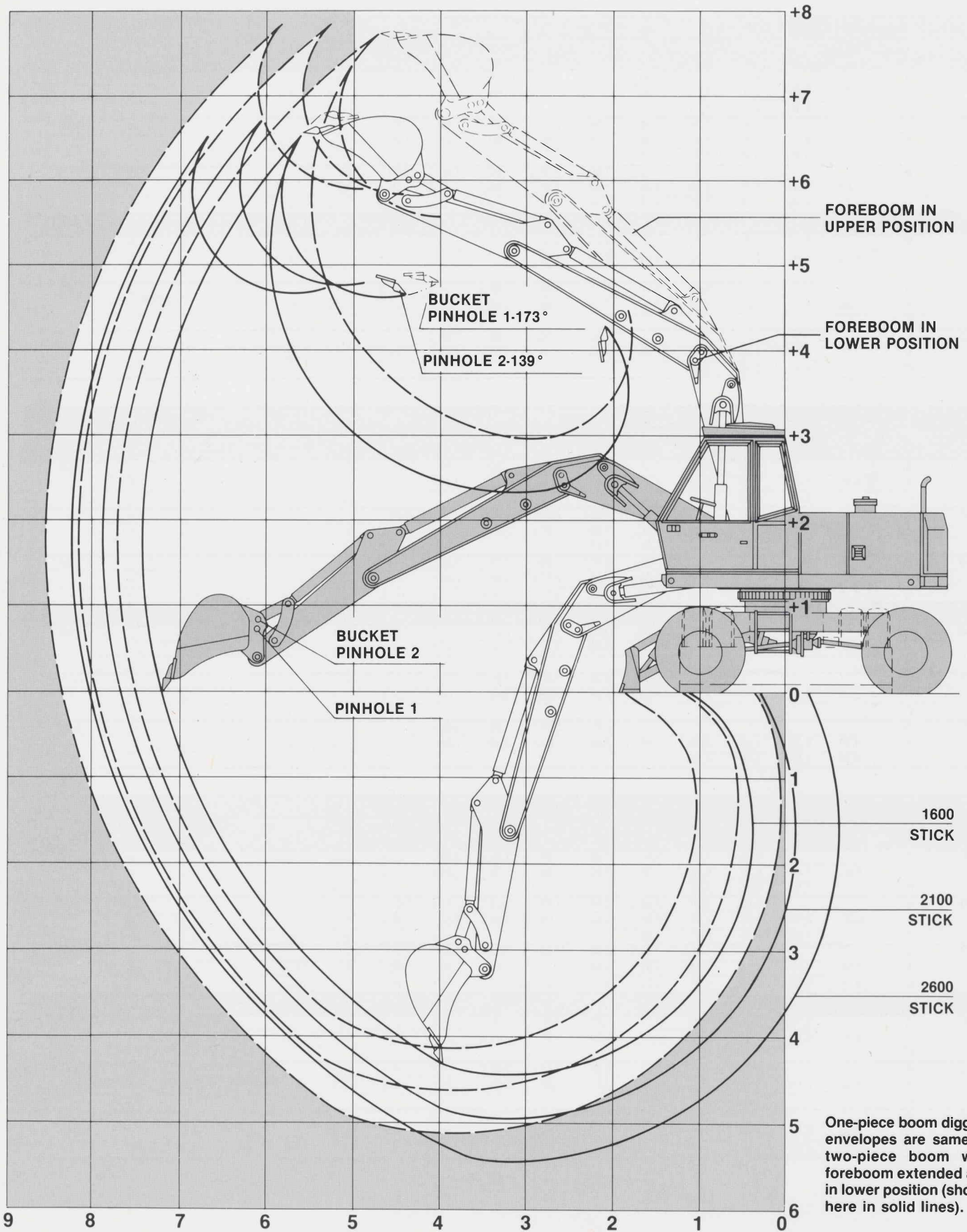
With Single Rear Outriggers on Ground — ±45° over rear axle Foreboom fully extended

Stick	Zone	Radius in m				Lifting capacity in metric tons						
		2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0
1600	B			4,85	4,00	3,40	2,95	2,95	3,10	3,20		
	A	9,50	7,45	6,35	5,10	4,35	3,90	3,60	3,35	3,25		
	C		7,10	5,65	4,85							
2100	B			4,80	4,00	3,40	2,95	2,60	2,60	2,75	2,85	
	A	10,30	8,35	5,35	4,35	3,75	3,50	3,25	3,10	3,00	2,95	
	C	9,35	7,00	5,55	4,65	4,55	4,35					
2600	B						2,90	2,60	2,25	2,30	2,45	2,60
	A	11,50	9,10	4,75	3,95	3,35	3,10	2,90	2,75	2,70	2,65	2,60
	C	9,15	6,85	5,45	4,50	4,25	4,15	3,95				

Foreboom fully retracted

1600	B		6,15	4,90	4,05	3,75	3,80	3,95				
	A	9,50	6,70	5,60	4,90	4,45	4,20	4,05				
	C											
2100	B				4,05	3,45	3,25	3,35	3,50			
	A	8,20	6,15	4,90	4,20	3,95	3,75	3,60	3,60			
	C											
2600	B						2,95	2,85	3,15			
	A	8,20	6,10	4,85	4,05	3,40	3,30	3,25	3,20	3,20		
	C	9,20	6,90	5,50	4,90							

206 General Purpose
and Rock Buckets



Data explanation:

Possible stick/bucket combinations for material weighing up to 1800 kg per loose cubic meter. Safety factor over 360° swing according to DIN 24087.

All data is for foreboom in upper position. Data in parentheses: foreboom in lower position.

- x = foreboom fully extended
- m = foreboom in mid-position
- r = foreboom fully retracted
- = stability not assured

Shaded area indicates one-piece boom range.

Maximum breakout force (exerted by bucket cylinder with bucket in maximum force pinhole): 71 kN
 Maximum digging force (exerted by stick cylinder with bucket in maximum force pinhole): 60 kN

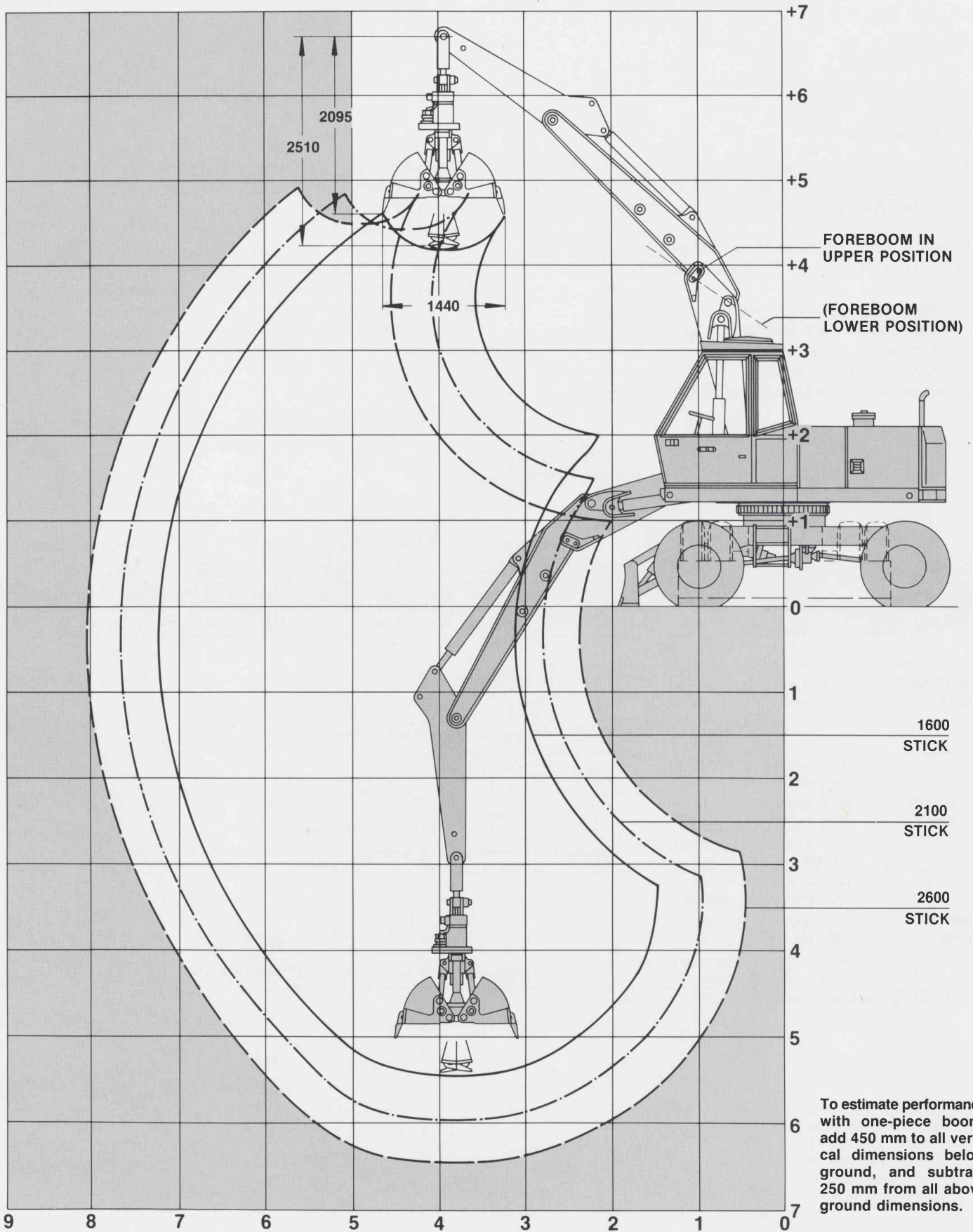
General purpose backhoe buckets have two pinholes to adapt bucket to different work conditions. Pinhole #1 provides wide curling arc with less force, and pinhole #2 is for smaller curling arc with more force.

General Purpose Backhoe Buckets

Rock Buckets

		500	600	700	800	900	1000	1100	1200	600	750	1000
Cutting width	mm	500	600	700	800	900	1000	1100	1200	600	750	1000
Capacity (ISO)	l	245	310	380	450	520	590	660	725	330	440	625
Weight	kg	295	315	350	370	410	435	460	510	325	375	435
1600 mm stick	With outriggers or dozer elevated — 360° swing	x	x	x	x	x	m (x)	r (m)	r	x	x	m
	With dozer on ground — 360° swing	x	x	x	x	x	x	x	m (x)	x	x	x
	With single rear outriggers on ground — 360° swing	Equals or exceeds stability with dozer on ground (see line above).										
2100 mm stick	With outriggers or dozer elevated — 360° swing	x	x	x	x	m (x)	r (m)	r	— (r)	x	x	r (m)
	With dozer on ground — 360° swing	x	x	x	x	x	x	x	m	x	x	x
	With single rear outriggers on ground — 360° swing	Equals or exceeds stability with dozer on ground (see line above).										
2600 mm stick	With outriggers or dozer elevated — 360° swing	x	x	x	m (x)	r (m)	r	— (r)	—	x	m (x)	— (r)
	With dozer on ground — 360° swing	x	x	x	x	x	x	m (x)	m	x	x	m (x)
	With single rear outriggers on ground — 360° swing	Equals or exceeds stability with dozer on ground (see line above).										

NOTE: All data assumes machine on firm, level ground.



To estimate performance with one-piece boom, add 450 mm to all vertical dimensions below ground, and subtract 250 mm from all above ground dimensions.

Data explanation:

Possible stick/clamshell combinations for material weighing up to 1800 kg per loose cubic meter. Safety factor over 360° swing according to DIN 24 087.

All data is for foreboom in upper position. Data in parentheses: foreboom in lower position.

With foreboom in lower position, digging depths are increased 295 mm and dumping heights are reduced by:

- 905 mm (for 1600 mm stick)
- 1010 mm (for 2100 mm stick)
- 1215 mm (for 2600 mm stick)

With clamshell extensions, digging depth increases and dump height decreases proportionally with the length of the extension.

Data is with bucket cylinder and linkage (totaling 185 kg) and indicated clam installed.

- x = foreboom fully extended
- m = foreboom in mid-position
- r = foreboom fully retracted
- = stability not assured

Shaded area indicates one-piece boom range.

Closure force for all buckets listed here: 41 kN.

280 mm and 380 mm width bucket components can be used on same actuator. 600 mm, 700 mm and 800 mm components can be used on same actuator.

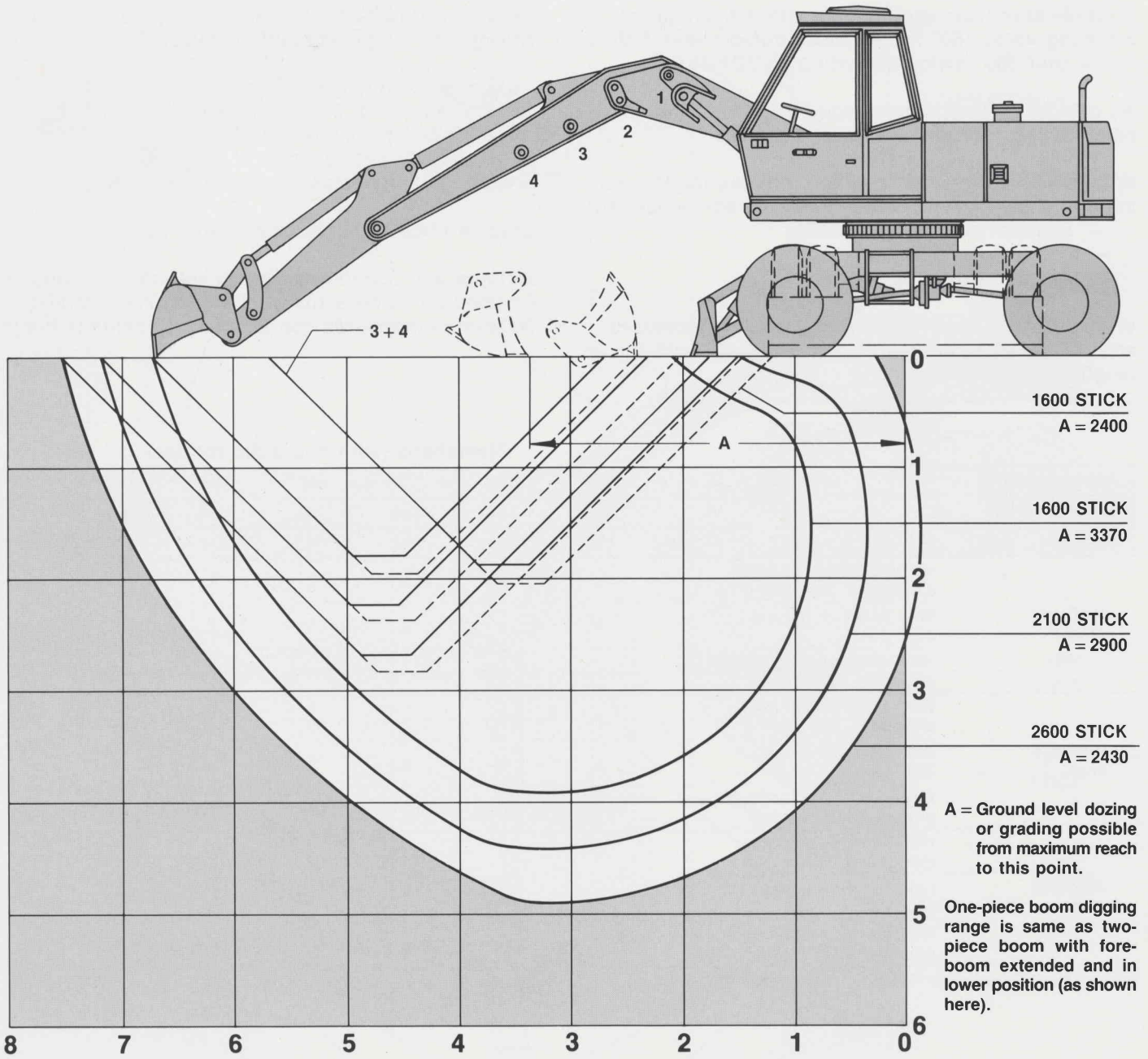
Clamshells (with hydraulic rotator)

Cutting width	mm	280	280†	380	380†	600	700	800
Capacity (ISO)	l	135	135	190	190	310	360	410
Weight	kg	525	550	565	590	625	675	725
1600 mm stick	With outriggers or dozer elevated — 360° swing	x	x	x	x	x	x	m (x)
	With dozer on ground — 360° swing	x	x	x	x	x	x	x
	With single rear outriggers on ground — 360° swing	Equals or exceeds stability with dozer on ground (see line above).						
2100 mm stick	With outriggers or dozer elevated — 360° swing	x	x	x	x	x	m (x)	x
	With dozer on ground — 360° swing	x	x	x	x	x	x	x
	With single rear outriggers on ground — 360° swing	Equals or exceeds stability with dozer on ground (see line above).						
2600 mm stick	With outriggers or dozer elevated — 360° swing	x	x	x	x	m (x)	r (m)	r (m)
	With dozer on ground — 360° swing	x	x	x	x	x	x	x
	With single rear outriggers on ground — 360° swing	Equals or exceeds stability with dozer on ground (see line above).						

NOTE: All data assumes machine on firm, level ground.

†With ejector.

206 Ditch Cleaning and Grading Buckets



Data explanation:

Possible stick/ditch cleaning and grading bucket combinations for material weighing up to 1800 kg per loose cubic meter. Safety factor over 360° swing according to DIN 24 087.

x = foreboom fully extended
 m = foreboom in mid-position
 r = foreboom fully retracted
 — = stability not assured

Shaded areas indicate one-piece boom range.

All data is for foreboom in upper position. Data in parentheses: foreboom in lower position.

		Rigid ($\pm 0^\circ$)				Hydraulically Tilttable ($\pm 45^\circ$)							
		Ditch Cleaning				Ditch Grading		Ditch Cleaning				Ditch Grading	
Cutting width	mm	1500	1800	2000	2400	2000	2400	1500	1800	2000	2400	2000	2400
Capacity (ISO)	l	355	430	480	580	230	280	355	430	480	580	230	280
Weight	kg	330	405	440	505	340	395	495	550	585	650	495	550
1600 mm stick	With outriggers or dozer elevated — 360° swing	x	x	x	m	x	x	x	x	m (x)	r (m)	x	x
	With dozer on ground — 360° swing	x	x	x	x	x	x	x	x	x	x	x	x
	With single rear outriggers on ground — 360° swing	Equals or exceeds stability with dozer on ground (see line above).											
2100 mm stick	With outriggers or dozer elevated — 360° swing	x	x	m (x)	r (m)	x	x	x	m (x)	m	r	x	x
	With dozer on ground — 360° swing	x	x	x	x	x	x	x	x	x	m (x)	x	x
	With single rear outriggers on ground — 360° swing	Equals or exceeds stability with dozer on ground (see line above).											
2600 mm stick	With outriggers or dozer elevated — 360° swing	x	m (x)	r (m)	— (r)	x	x	m (x)	r (m)	r (m)	—	x	x
	With dozer on ground — 360° swing	x	x	x	m (x)	x	x	x	x	x	m (x)	x	x
	With single rear outriggers on ground — 360° swing	Equals or exceeds stability with dozer on ground (see line above).											

NOTE: All data assumes machine on firm, level ground.

