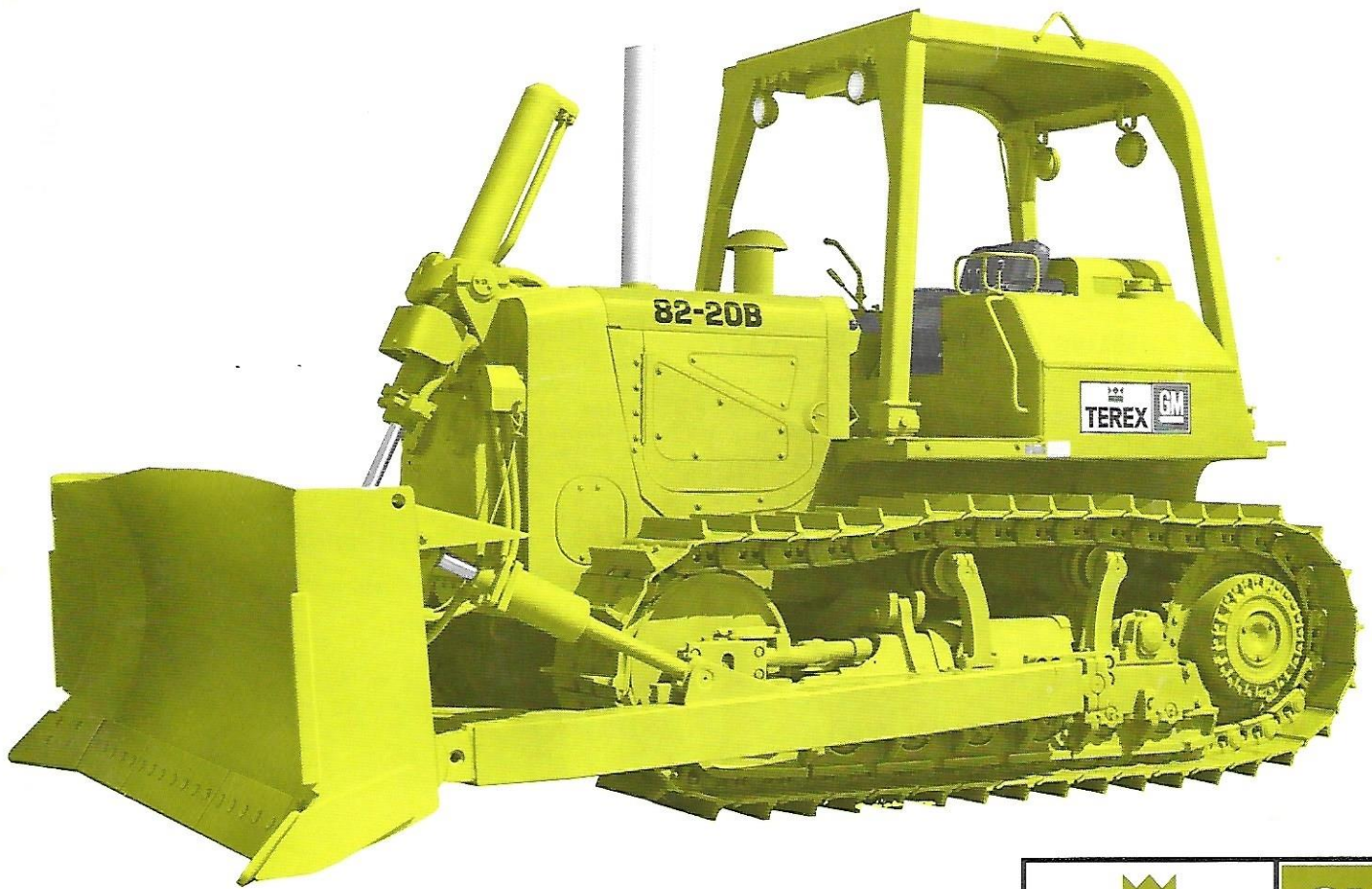


TEREX 82-20B CRAWLER TRACTOR



- 205HP (152.9 kW) Flywheel Power
- Reliability
- Productivity
- Stability

THE W. W. WILLIAMS CO.
869 W.GOODALE BLVD.
COLUMBUS, OHIO 43212
614 228-6651

TEREX 82-20B CRAWLER TRACTOR

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

ENGINE

Detroit Diesel 6V-71T, 2 Cycle Turbocharged Diesel

Flywheel Power @ 2100 RPM205HP (152.9 kW)

NOTE: Flywheel power is the net power available to the transmission torque converter after deductions for standard engine equipment (water pump, fuel pump, lubricating oil pump, muffler, fan, alternator, air cleaner.) The flywheel power is rated at S.A.E. standard ambient temperature and barometric conditions; 85°F (29°C) and 29.38 in. hg. (746 mm hg), using 34.4 API gravity fuel oil at 60°F (15.6°C). The flywheel power rating is maintained to an altitude of 10,000 feet (3000 m).

Number of Cylinders6
Bore and Stroke4¼ in. x 5 in. (108 mm x 127 mm)
Piston Displacement426 in.³ (7.0 litres)
Fuel—Commercial GradesNo. 2 Diesel Fuel
Oil—MIL-L-2104BSAE 40
RPM Governed at Full Load2100 RPM
Piston Speed @
Governed RPM1750 ft./min. (53,340 cm/min.)
Speed ControlHand Throttle & Foot Decelerator
LubricationFull Pressure
Air CleanerDry Type

TRANSMISSION—Allison CRT-5434

Hydraulically controlled, planetary gearing, 3 speeds forward and reverse, full power shifting in both forward and reverse Allison-GM
FCB 570 bevel gear, steering clutch and brake assembly.
Total gear reduction behind transmission34.92:1

TORQUE CONVERTER—Allison TC-450-3E

Hydraulic torque converter with fixed stator.

SPEEDS AND TRANSMISSION RATIOS

	Maximum Speed		Transmission Gear Ratios	
	Forward mph	Reverse (km/h)	Forward	Reverse
Low	2.1 (3.4)	2.4 (3.9)	3.04	2.52
Intermed.	4.0 (6.5)	4.8 (7.7)	1.51	1.25
High	7.0 (11.2)	7.9 (12.8)	0.76	0.63

STEERING

Self adjusting, oil cooled, multiple disc clutches and brakes.
Single lever control for each track.

BRAKES

Self-adjusting oil cooled, multiple disc, full power modulated foot brake. Parking brake is automatically applied when engine is stopped. (Meets SAE J-1026)

ELECTRICAL SYSTEM

Direct Electric Starting24 volt
Batteries—Four heavy duty 90 amp. hrs., 12 volt in series-parallel.
Alternator—50 amp with sealed integral voltage regulator.

UNDERCARRIAGE

Hydraulic Track Adjustment with Nitrogen Recoil Cylinder
Number of Track Rollers (Each Side) 6
Number of Shoes (Each Side)40

Width of Standard Track Shoe20 in. (.508 mm)
Height of Grouser2.75 in. (69.85 mm)
Length of Tracks on Ground107 in. (2.717 m)
Ground Contact Area with
20 in. (508 mm) Shoes4280 in.² (2.76 m²)
Track Gauge78 in. (1.981 m)
Link Pitch8 in. (20.3 mm)
Type of RollersBushing
Type of IdlerDrum

SERVICE DATA

	U.S. Gals. (litres)
Cooling System	30 (114.0)
Fuel Tank	110 (416.4)
Engine Crankcase, including Filters	6.5 (24.6)
Final Drive (Planetary and Bull Gears) (6 Gal. Each Side)	12 (45.4)
Torque Converter, Transmission and FCB Assembly Common Oil System (Includes Filters)	35 (132.5)

DIMENSIONS

Overall Length (Including Drawbar)13 ft. 1 in. (3.980 m)
Overall Width (Standard 20 in. Shoes) 8 ft. 2 in. (2.489 m)
Height (Exclusive of Exhaust Stack) 7 ft. 8 in. (2.337 m)
Minimum Ground Clearance17 in. (0.432 m)
Height of Drawbar Above Ground20.5 in. (0.521 m)
Shipping Weight (Mass) (20% Fuel)36,907 lbs. (16 741 kg)
With Std. Equipment

STANDARD EQUIPMENT

Adapters, Fast Fueling
Air Cleaner
Alarm, Reverse (Audible)
Alternator, 50 amp
Brake, Parking
Brake, Power
Canopy, ROPS W/Mirror (SAE J-395)
Decelerator
Dipstick, Drivecase
Drawbar
Foot Rest
Gauges
Air Cleaner Restriction
Ammeter
Converter Oil Temperature
Engine Oil Pressure
Engine Coolant Temperature
Fuel
Hourmeter
Transmission Oil Pressure
Guards
Crankcase
Front Track Retention
Lower Engine Side
Transmission
Horn, Manually Operated
Hydraulics
Dozer and Tilt: Lift Cylinder, Lift and Tilt
Valve, Tank, Plumbing and Controls
Idlers, Drum
Instrument Panel Light & Security Cover
Lights (2 Front, 2 Rear)
Lubrication Plate
Muffler
Pull Hook, Front
Seat, Adjustable and Hinged
Seat Belt
Security Kit (Includes Fuel, Radiator, Hydraulic, Transmission,
and Engine Fill Caps, Instrument Panel Cover)
Shoes, 20 in. (.508 m)
Switch, Battery Disconnect
Tool Box (Integral with Armrest)

OPTIONAL EQUIPMENT

Approximate
Weight (Mass)

OPTIONS TO HELP USER COMPLY WITH OCCUPATIONAL SAFETY & HEALTH ACT:

Cab, Environmental ROPS (SAE J395) Includes Acoustical Treatment, Wipers, Heater, Pressurizer, Swing-Out Windows— Supercedes PL 26424 Eff. W/Tractor S/N 66775.	3000 lbs. (1 360 kg)
Air Conditioning for Environmental Cab	100 lbs. (45 kg)

OTHER:

Alarm, Hi Coolant Temp and Low Flow.....	
Counterweight, Cast w/Short Drawbar.....	3500 lbs. (1587 kg)
Drawbar, Long	*40 lbs. (18.1 kg)
Fan, Reversible Pitch**	40 lbs. (18.1 kg)
Filter, Coolant	10 lbs. (5 kg)
Guards:	
Hinged Crankcase & Transmission	15 lbs. (6.8 kg)
Track Retention, Rear	300 lbs. (136 kg)
Track Roller	423 lbs. (192 kg)
Final Drive	59 lbs. (26 kg)
Landclearing Kit (Hoodsides, Air Prescreener, Screened Opening to Radiator	107 lbs. (49 kg)
Lights, 2, Cab Front	12 lbs. (5.4 kg)
2, Canopy Front	12 lbs. (5.4 kg)
Screen, Rear Canopy	100 lbs. (45.4 kg)
Sand Blast	41 lbs. (18.6 kg)
Security Kit (Fuel, Radiator, Hydraulic, Transmission, Engine)	10 lbs. (4.5 kg)
Seat-Suspended	64 lbs. (29 kg)

Shoes:

22 in. Standard Section (.558 m)	* 216 lbs. (98 kg)
24 in. Standard Section (.609 m)	* 432 lbs. (196 kg)
20 in. Extreme Service (.508 m)	*1008 lbs. (457 kg)
22 in. Extreme Service (.558 m)	*1008 lbs. (457 kg)
26 in. Standard Section (.660 m)	* 648 lbs. (294 kg)
Sweeps, Front Canopy	230 lbs. (104 kg)

*Denotes Weight (Mass) in Addition to Standard Unit Weight w/Standard Equipment.

** (Not required for use with Environmental Cab.)

ATTACHMENTS

Approximate
Weight (Mass)

Blades, complete, including tilt cylinder & hose.	
Angle	6900 lbs. (3130 kg)
Full "U"	6775 lbs. (3073 kg)
Straight	5800 lbs. (2631 kg)
C-Frame	
	2700 lbs. (1225 kg)
Dirtshield:	
Full "U" Blade	175 lbs. (79 kg)
Straight Blade	180 lbs. (82 kg)
Full Liner Plate:	
Angle Blade	465 lbs. (211 kg)
Full "U" Blade	560 lbs. (254 kg)
Straight Blade	445 lbs. (202 kg)
Hydraulics: Ripper Valve, Plumbing, and Controls	
	82 lbs. (37 kg)
Push Beams	
	1450 lbs. (658 kg)
Push Plate, Weld-On:	
Straight Blade	375 lbs. (170 kg)
Angle Blade	270 lbs. (122 kg)
Reversible End Bits-Straight & U	*26 lbs. (11.8 kg)
Heavy Duty End Bits	50 lbs. (22.6 kg)
Tilt Strut, Single Mechanical	105 lbs. (47.6 kg)
Trunnion Group	114 lbs. (52 kg)

*Denotes Weight (Mass) in Addition to Standard Unit Weight w/Standard Equipment.

MODEL 200 HYDRAULIC CONTROL SYSTEM

Dozer Cylinder

Type	Double Acting, Direct Lift
Bore and Stroke	5.5 in. x 49.25 in. (140 mm x 1250 mm)
Piston Rod Diameter	2.50 in. (63.5 mm)

Pump

Type	Single Gear
Drive	Driveline Off Front of Engine Crankshaft
Mounting	Inside Hydraulic Oil Tank
Capacities @ 2100 RPM, 2000 PSI	63 GPM (3.969 lit./sec.)

Valves

Main Valve, mounting	Front, Inside Hydraulic Tank
Operating Positions	Raise, Hold, Power Down, and Float

Tilt Spool is in the Main Valve

Operating Positions.....	Tilt Left, Hold, Tilt Right
Ripper Valve, mounting	Front, Inside Hydraulic Tank
Operating Positions.....	Raise, Hold, Power Down

Relief Settings

Dozer and Tilt	2000 PSI (13 790 kPa)
Ripper	2100 PSI (14 480 kPa)

Hydraulic Systems

Piping	Steel Tubing
Hoses	High Pressure w/Reusable Fittings
Tank Capacity	30 gal. (113.7 litres)

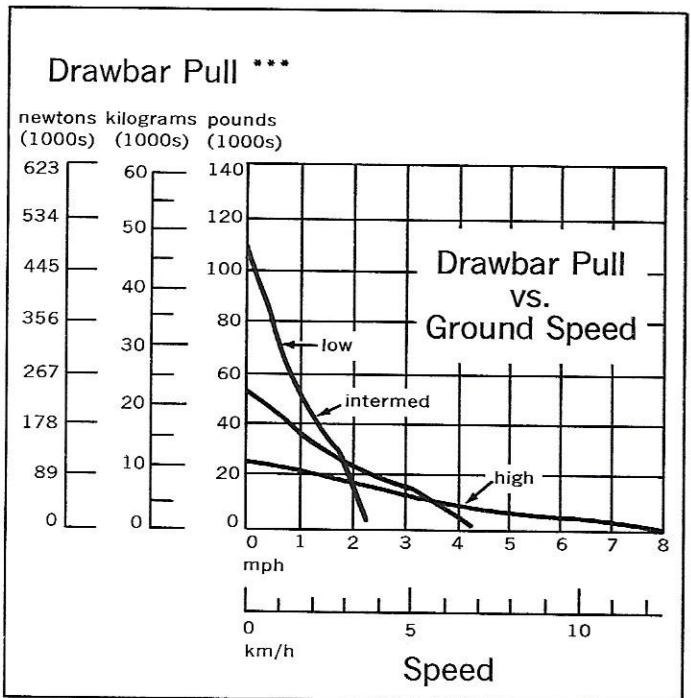
Oil Type

-65°F to 130°F (-54°C to 54°C)	MIL-H-5606A
-20°F to 165°F (-29°C to 74°C)	Automatic Transmission Fluid
0°F to 180°F (-18°C to 82°C)	MIL-L-2104B; SAE 10W Engine Oil
32°F to 210°F (0°C to 99°C)	MIL-L-2104B; SAE 20W-20 Engine Oil

Filter Low Pressure, 3 Micron

HYDRAULIC TILT CYLINDER

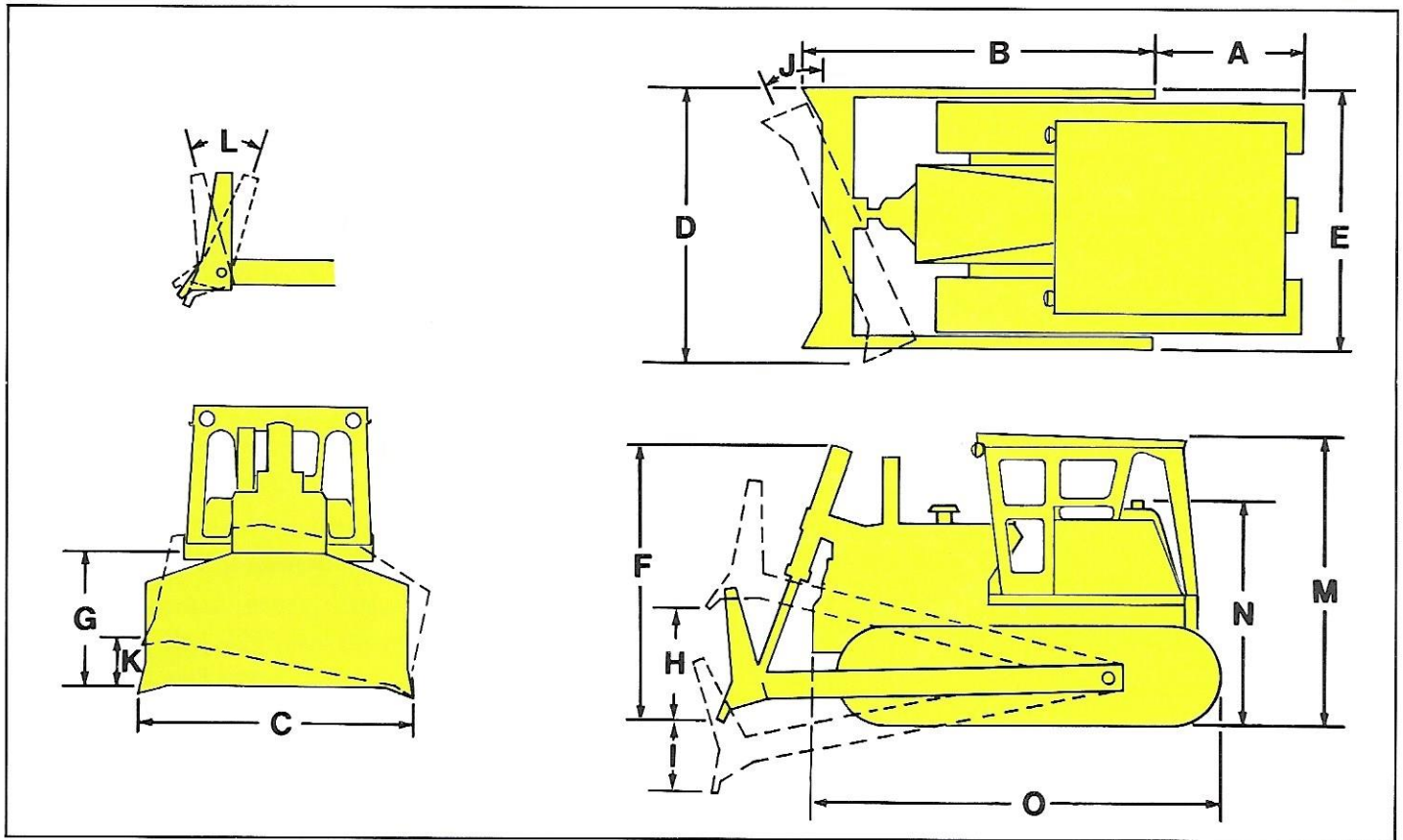
Type	Double Acting
Cylinder Bore and Stroke.....	5½ in. x 6 in. (140 mm x 152 mm)
Rod Diameter	2½ in. (63.5 mm)
Approximate Shipping Weight (Mass)	195 lbs. (88 kg)



***Drawbar Pull depends on weight and traction of equipped tractor.

CONVERSION CHART

1 mile	=1.609 kilometres	1 lb.	=4.448 newtons
1 foot	=.3048 metres	1 lb.	=.4536 kilograms
1 inch	=25.4 millimetres	1 ft. lb.	=1.356 newton-metres
1 U.S. Gal.	=3.785 litres	1 PSI	=6.8948 kPa
1 U.S. Gal.	=0.833 imp. gals.	1 in. ²	=6.452 centimetres ²
1 U.S. Gal.		1 in. ³	=.0164 litres
diesel fuel	=7.3 lbs. (approx.)	1 in. ³	=16 367 millimetres ³
1 U.S. Gal.		1 ft. ²	=929 centimetres ²
coolant	=8.3 lbs. (approx.)	1 yd. ²	=0.836 metres ²
1 HP	=.746 kW	1 yd. ³	=0.7646 metres ³



BULLDOZER FOR THE 82-20B

	ANGLE		STRAIGHT		FULL "U"	
		(m)		(m)		(m)
Tractor Dimensions with Blade						
Trunnion to rear of tractor(A)	5 ft. 5 ⁵ / ₁₆ in.	(1.672)	5 ft. 5 ⁵ / ₁₆ in.	(1.672)	5 ft. 5 ⁵ / ₁₆ in.	(1.672)
Trunnion to front of blade (Straight).....(B)	12 ft. 5 ¹³ / ₁₆ in.	(3.805)	12 ft. 1 ³ / ₄ in.	(3.702)	12 ft. 11 ³ / ₄ in.	(3.956)
Width (Blade straight)(C)	14 ft. 0 in.	(4.267)	11 ft. 5 ¹ / ₂ in.	(3.493)	11 ft. 11 ¹ / ₂ in.	(3.645)
Width (Blade angled)(D)	12 ft. 10 in.	(3.860)	—	—	—	—
Width of C-Frame Only, inc. carriages....(E)	11 ft. 1 ¹ / ₂ in.	(3.391)	—	—	—	—
Width - Unit with 20 in. Shoes(E)	8 ft. 4 ¹ / ₂ in.	(2.552)	8 ft. 4 ¹ / ₂ in.	(2.552)	8 ft. 4 ¹ / ₂ in.	(2.552)
Height (Top of Dozer Cylinder)(F)	9 ft. 7 ⁷ / ₁₆ in.	(2.928)	9 ft. 7 ⁷ / ₁₆ in.	(2.928)	9 ft. 7 ⁷ / ₁₆ in.	(2.928)
Height (Top of Env. ROPS Cab)(M)	10 ft. 6 in.	(3.200)	10 ft. 6 in.	(3.200)	10 ft. 6 in.	(3.200)
Height (Top of ROPS Canopy)(M)	10 ft. 11 in.	(3.327)	10 ft. 11 in.	(3.327)	10 ft. 11 in.	(3.327)
Height (Basic Machine Less Stack)(N)	7 ft. 10 in.	(2.387)	7 ft. 10 in.	(2.387)	7 ft. 10 in.	(2.387)
Length (Basic Machine Less Hydraulic Cylinder & Drawbar)(O)	13 ft. 0 in.	(3.962)	13 ft. 0 in.	(3.962)	13 ft. 0 in.	(3.962)
Moldboard Dimensions						
Moldboard Material—High Strength Carbon Alloy Abrasion Resistant Steel						
Length (Corner bit to corner bit)(C)	14 ft. 0 in.	(4.267)	11 ft. 5 ¹ / ₂ in.	(3.493)	12 ft. 1 ¹ / ₂ in.	(3.696)
Height(G)	41 ¹³ / ₁₆ in.	(1.062)	51 ¹ / ₂ in.	(1.308)	51 ¹ / ₂ in.	(1.308)
Max. Lift Above Ground (Hydraulic).....(H)	50 ¹ / ₄ in.	(1.276)	45 ¹ / ₂ in.	(1.156)	45 ¹ / ₂ in.	(1.156)
Max. Drop Below Ground (Hydraulic).....(I)	17 ³ / ₈ in.	(.441)	17 ¹ / ₂ in.	(.444)	17 ¹ / ₂ in.	(.444)
Max. Angle (Either Direction)(J)	25°	—	—	—	—	—
Max. Tilt(K)	23.8 in.	(.604)	20 in.	(.508)	21.5 in.	(.546)
Max. Pitch(L)	15°	—	14°	—	14°	—
Max. Allowable Track Shoe Width	26 in.	(.660)	26 in.	(.660)	26 in.	(.660)
Approximate Weight of complete Blade Assembly (Mass)	6,900 lbs.	(3 130 kg)	5,800 lbs.	(2 631 kg)	6,775 lbs.	(3 073 kg)



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