

DROTT

35-40-50

series D

**Crawler
Excavators**



DROTT 35-40-50 CRAWLER EXCAVATORS

Power



Bolt-On Cylinder Heads

Provide easy service accessibility and add strength to the cylinder.

Operator's Compartment

Excellent visibility and easy, logical control systems assure operator efficiency. Rubber mounting and sound-deadening insulation reduce operator fatigue. Upper and lower windshields are track-mounted so they can be quickly stored overhead. Additional control of ventilation is possible through the bi-fold door. A positive latch keeps the door either completely open or closed.

Power Sensing Valve

Allows either circuit to be operated at a higher pressure. Main reliefs are set for the highest pressure that the system is designed to operate under. The power sensing valve controls the combined load of both circuits within engine capability.

Undercarriage

The tractor-type undercarriage features maintenance-free rollers and idlers, spring recoil track system and grease gun track adjustment cylinders.

Turntable Leveler

An exclusive feature that allows the upper structure to tilt 8° right or left. (see Turntable Leveler Section, P. 9)

& Performance

35-40-50 Crawler Excavators

Hydraulic System

A 55 gallon (208 L) total system capacity for the 35 and 40. A 65 gallon (246 L) total system capacity for the 50.

Swing Gear System

Provides mechanical and hydraulic power for a continuous 360° operation. The swing gear reducer converts hydraulic power to mechanical force to rotate the upper structure. A hydraulic in-line cushion valve provides for smooth stops when swing direction is changed.

Engines

An engine choice of either the standard Case diesel or optional Detroit Diesel is available for each machine. To assure easy starts, all machines are equipped with straight 24 volt electrical systems.

	CASE	DETROIT
35	120 H.P. (90 kW) @ 2200 rpm	123 H.P. (92 kW) @ 2400 rpm
40	164 H.P. (122 kW) @ 2100 rpm	157 H.P. (117 kW) @ 2300 rpm
50	206 H.P. (154 kW) @ 2100 rpm	190 H.P. (141.7 kW) @ 2400 rpm

Track Drives

Track drives are fully-enclosed and independently controlled. A single-speed drive motor is standard on the 35 and 40. A two-speed drive motor is optional on the 40 and standard on the 50.

Note: 50 model shown here.



SPECIFICATIONS (w / E-Boom)

Digging Depth (std. stick)	21'0" (6.40 m)
Surface Reach	30'5" (9.27 m)
Dump Height	22'3" (6.76 m)
Lift Capacity (End) 10' (3.05 m)	12,125 lb (5 500 kg)
Lift Capacity (End) 15' (4.57 m)	9,775 lb (4 434 kg)
Lift Capacity (End) 20' (6.10 m)	7,100 lb (3 221 kg)
Lift Capacity (End) 25' (7.62 m)	5,175 lb (2 347 kg)
Lift Capacity (Side) 10' (3.05 m)	12,125 lb (5 500 kg)
Lift Capacity (Side) 15' (4.57 m)	7,450 lb (3 379 kg)
Lift Capacity (Side) 20' (6.10 m)	4,850 lb (2 200 kg)
Lift Capacity (Side) 25' (7.62 m)	3,400 lb (1 542 kg)
Fuel Capacity	75 gal (284 L)
Pump Flow	92 gpm (348 L/min)
Main Relief Pressure	2,650 psi (18 271 kPa)
Hydraulic System Capacity	55 gal (208 L)
Lift Cylinder Dia. — Stroke	6.5" (165 mm) - 54.5" (1.38 m)
Dipper Cylinder Dia. — Stroke	6.5" (165 mm) - 47.5" (1.21 m)
Tool Cylinder Dia. — Stroke	5.5" (140 mm) - 36.3" (.92 m)
Bucket Force	24,500 lb (11 113 kg)

Dipper Force	15,400 lb (6 965 kg)
Unit Gradeability*	60%
Unit Weight	37,200 lb (16 874 kg)





SPECIFICATIONS (w / E-Boom)

Digging Depth (std. stick)	21'0" (6.40 m)
Surface Reach	30'5" (9.27 m)
Dump Height	22'3" (6.78 m)
Lift Capacity (End) 10' (3.05 m)	14,000 lb (6 350 kg)
Lift Capacity (End) 15' (4.57 m)	11,400 lb (5 171 kg)
Lift Capacity (End) 20' (6.10 m)	8,300 lb (3 765 kg)
Lift Capacity (End) 25' (7.62 m)	6,200 lb (2 812 kg)
Lift Capacity (Side) 10' (3.05 m)	14,000 lb (6 350 kg)
Lift Capacity (Side) 15' (4.57 m)	11,400 lb (5 171 kg)
Lift Capacity (Side) 20' (6.10 m)	7,500 lb (3 402 kg)
Lift Capacity (Side) 25' (7.62 m)	5,400 lb (2 449 kg)
Fuel Capacity	75 gal (284 L)
Pump Flow	108 gpm (409 L/min)
Main Relief Pressure	3,000 psi (20 684 kPa)
Hydraulic System Capacity	55 gal (208 L)
Lift Cylinder Dia. — Stroke	6.5" (165 mm) - 54.5" (1.38 m)
Dipper Cylinder Dia. — Stroke	6.5" (165 mm) - 47.5" (1.21 m)
Tool Cylinder Dia. — Stroke	5.5" (140 mm) - 36.3" (.92 m)
Bucket Force	27,780 lb (12 600 kg)

Dipper Force	17,420 lb (7 902 kg)
Unit Gradeability*	60%
Unit Weight	40,745 lb (18 482 kg)





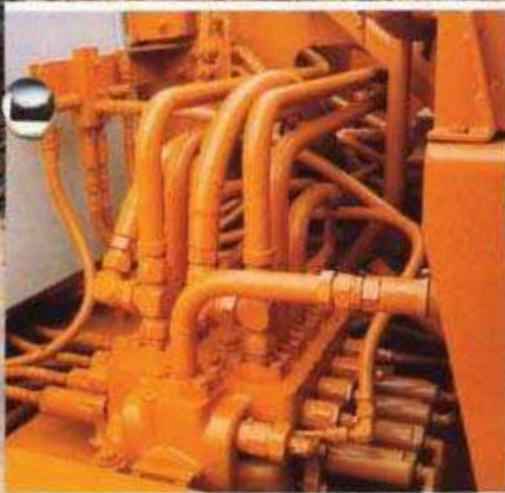
SPECIFICATIONS (w / E-Boom)

Digging Depth (std. stick)	22'9" (6.93 m)
Surface Reach	31'9" (9.68 m)
Dump Height	21'1" (6.43 m)
Lift Capacity (End) 10' (3.05 m)	—
Lift Capacity (End) 15' (4.57 m)	15,400 lb (6 985 kg)
Lift Capacity (End) 20' (6.10 m)	11,100 lb (5 035 kg)
Lift Capacity (End) 25' (7.62 m)	8,525 lb (3 867 kg)
Lift Capacity (Side) 10' (3.05 m)	—
Lift Capacity (Side) 15' (4.57 m)	15,400 lb (6 985 kg)
Lift Capacity (Side) 20' (6.10 m)	9,750 lb (4 423 kg)
Lift Capacity (Side) 25' (7.62 m)	7,050 lb (3 198 kg)
Fuel Capacity	75 gal (284 L)
Pump Flow	118 gpm (446 L/min)
Main Relief Pressure	3,300 psi (22 753 kPa)
Hydraulic System Capacity	65 gal (246 L)
Lift Cylinder Dia. — Stroke	7" (178 mm) - 54.5" (1.38 m)
Dipper Cylinder Dia. — Stroke	7" (178 mm) - 47.5" (1.21 m)
Tool Cylinder Dia. — Stroke	6.5" (165 mm) - 36.3" (.92 m)
Bucket Force	36,700 lb (16 647 kg)

Dipper Force	19,895 lb (9 024 kg)
Unit Gradeability*	60%
Unit Weight	49,800 lb (22 589 kg)



*Gradeability is a measure of tractive effort only and does not represent grades on which the machine can operate. Stability and the engine's lube system are factors to be considered.



The Drott Division of J I Case has long been recognized as a leader in the hydraulic excavator field. Drott excavators are meeting the diverse needs of thousands of customers throughout the world.

In developing the D series excavators, Drott engineers were assigned the task of creating a series of machines that were extremely reliable, productive, versatile and attractive.



The D series is a total team effort of planning, research, testing and manufacturing that has resulted in the most advanced excavator line in the industry.

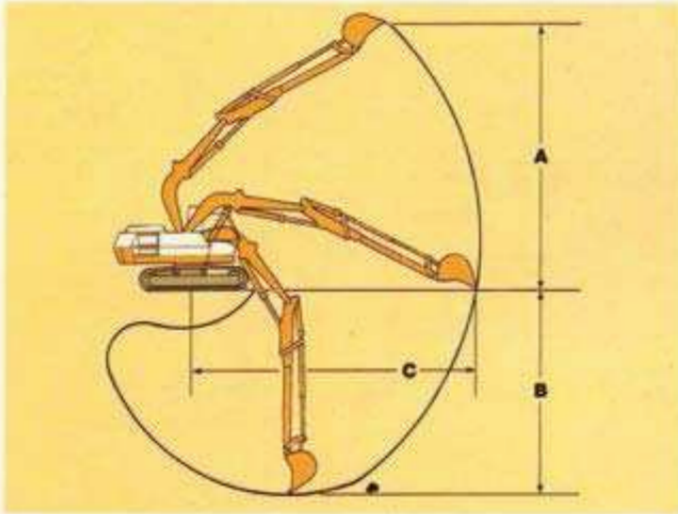
Design innovations include the SUMMATED hydraulic system, exclusive turntable leveler, a choice of booms and the Wrist-O-Twist. A variety of buckets and allied attachments combine with the Wrist-O-Twist, and leveler to make the D series crawlers productive on most job sites.

More than anything else, productivity is what the D series is all about. A quiet, comfortable cab, with controls conveniently located, maximizes operator efficiency. Low transport heights allow the D series excavators to be easily transported. High ground clearances and excellent gradeability provide ultimate performance.

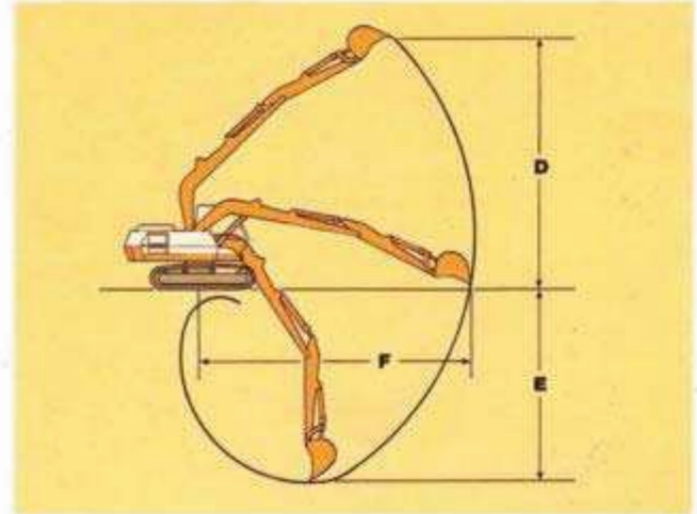
High Production Booms

Drott boom geometry, stick choices and bucket options enable the D series excavators to perform most grading and excavating tasks.

Y-Boom



E-Boom



	Y-Boom*			E-Boom**		
	A	B	C	D	E	F
35	30'7" (9.32 m)	23'1" (7.04 m)	32'8" (9.96 m)	29'6" (8.99 m)	22'5" (6.83 m)	31'10" (9.70 m)
40	30'7" (9.32 m)	23'1" (7.04 m)	32'8" (9.96 m)	29'6" (8.99 m)	22'5" (6.83 m)	31'10" (9.70 m)
50	—	—	—	28'0" (8.53 m)	24'3" (7.39 m)	33'4" (10.16 m)

*w/boom fully extended.

**w/10'5" (3.18 m) stick on the 35 & 40 / 12'0" (3.66 m) stick on the 50.

(Available on the 35 and 40) The Y-boom offers a built-in choice of grade level reach from 28'6" (8.69 m) retracted, to 32'8" (9.96 m) fully extended. The Y-boom is especially suited for custom or specialized applications and all conventional excavating tasks.

The 35 and 40 are equipped with the standard 9' (2.74 m) dipperstick or a 10'5" (3.18 m) dipperstick option. The 50 is equipped with a standard 10'5" (3.18 m) dipperstick or 9' (2.74 m) and 12' (3.66 m) dipperstick options. A wide variety of attachments make the E-boom suitable for most trenching applications.

Maximum Use Production Tools



Backhoe Buckets

Includes general purpose, severe duty and high capacity. Buckets range in width and capacity from 30" (762 mm) - $\frac{3}{4}$ yd³ (0.48 m³) to 42" (1,067 mm) - 1 $\frac{1}{4}$ yd³ (0.79 m³).



Front Loader Bucket

(Available on the 35 and 40) A 60" (1,524 mm) bucket yields a 1 $\frac{1}{4}$ yd³ (1.15 m³) load.



Wrist-O-Twist.

(Shown with a ditch bucket) This versatile, optional accessory permits 40" bucket tilt left or right through the bucket arc. Ditch buckets for the 35 & 40 include a 60" (1,524 mm) $\frac{1}{4}$ yd³ (0.46 m³) and a 72" (1,829 mm) $\frac{3}{4}$ yd³ (0.58 m³). A 60" (1,524 mm) 1 yd³ (0.76 m³) bucket is available for the 50.



Ripper Tooth

Provides strength needed to pry out concrete, remove stumps, break frozen ground or perform a variety of difficult tasks.

Turntable Leveler

on Exclusive Feature

The optional turntable leveler allows the upper structure to tilt 8° right or left for digging vertical trenches in hillsides or tapering ditches on level ground. When working on a grade, it improves operator comfort and efficiency by keeping the turntable level.

When combined with the optional Wrist-O-Twist, it provides the ultimate in flexibility and bucket control.

The turntable leveler can increase digging depths and dumping heights up to two feet.



DROTT 35-40-50 crawler excavators



DIMENSIONS	35	40	50
Track Length	12'2" (3.71 m)	12'6" (3.81 m)	14'6" (4.42 m)
Overall Width			
Standard Shoes	8'0" (2.44 m)	9'5" (2.87 m)	10'6" (3.20 m)
Track Shoe Width			
Standard Shoes	24" (610 mm)	24" (610 mm)	11'6" (3.51 m)
Optional Shoes	30" (762 mm)	30" (762 mm)	track extended
Ground Pressure			
Standard Shoes	6.1 psi (42 kPa)	6.5 psi (45 kPa)	5.3 psi (36.8 kPa)
Optional Shoes	5.0 psi (34.8 kPa)	5.3 psi (36.8 kPa)	—
Carrier Rollers	2	2	2
Track Rollers	7	8	10
Track Tension	Hyd.	Hyd.	Hyd.
Track Drive	Gear	Gear	Gear
Maximum Track Speed	1.2 mph (1.93 km/h)	2.5 mph (4.0 km/h) w/optional 2-speed	2.8 mph (4.6 km/h)

Product Support

Your initial investment in a Drott 35, 40 or 50 series D crawler excavator is backed by solid dealer support, Drott-trained service personnel, fast parts service and in-field maintenance and repair.



PARTS

Customer support means that your Drott dealer is ready with the part you need when you need it. Your Drott dealer has the part in stock or he immediately contacts the Drott Service Parts Department. Through a highly sophisticated real-time computer system that provides shipping documents to our warehouse in minutes, the Emergency Parts Department does everything possible to get the shipment on its way within hours by the fastest means available. Such rapid service will get your machine back in operation and minimize costly downtime.

IN-FIELD SERVICE

Field service responds to your needs in the field with fast, expert handling of your service needs. Drott certified dealers are capable of performing service on the job, eliminating the need for bringing your unit back to the dealer location for emergency service. Daily maintenance checks and routine servicing are quick and simple. Hydraulic filters and screens, hydraulic circuit pressure check stations and engine service points are conveniently located. Side access panels swing out to provide a large open area for service and maintenance procedures.

Service personnel are fully trained in the latest hydraulic and mechanical techniques. They are able to service your machine efficiently and economically — and you're back in production!



SERVICE TRAINING

The Drott Service Training Center ensures product support through integrated training program for dealer service representatives. Field maintenance and repair mean downtime and an increase in the initial cost of a machine, so fast and efficient maintenance is an absolute essential of product support.



In the most modern facilities, hands on experience with classroom models is backed by classroom work using the latest audio-visual equipment. The training service building houses any of the product lines for "student" servicemen to make repairs.

They return to their dealers from training sessions with extensive product knowledge and are equipped with sophisticated techniques for maintaining your Drott 35, 40 or 50 crawler excavator.

Due to our ongoing program of product improvement, materials and specifications are subject to change without notice.

*Unit transport subject to state and local regulations

ask for a demonstration from:

J I Case
A Tenneco Company
Drott Division

