

715 BACKHOE LOADER



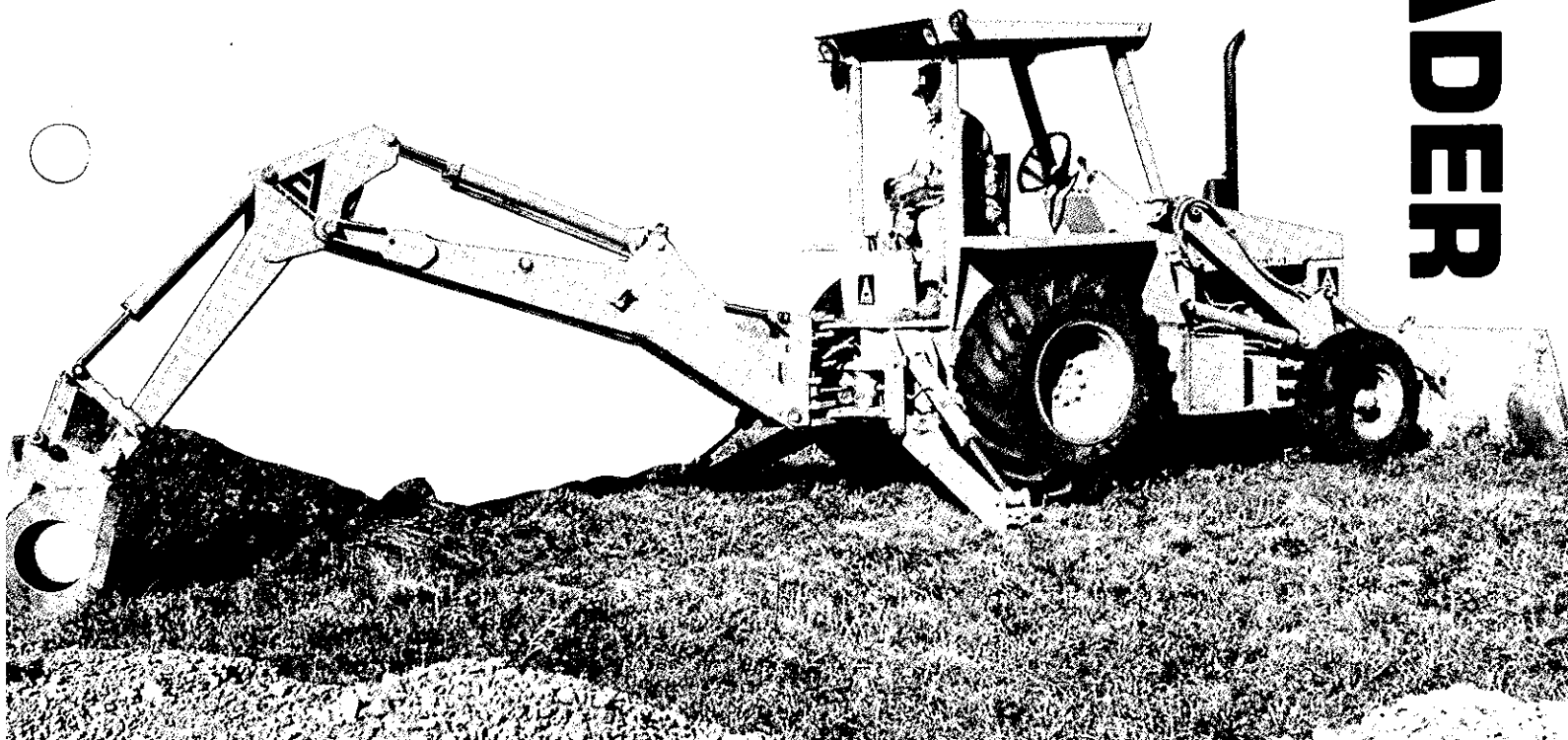
It's more than just a production machine. The 715 is designed from the ground up to give you extra high output and extra high profits.

You'll be able to muscle your way through the roughest terrain conditions with its 65 hp diesel engine, planetary axles and torque converter. And to help you speed through tough jobs look over its dual hydraulic pumps, a single lever loader control and a hydraulic self-leveling loader bucket.

715 profit-making features include a hydraulic shuttle clutch, integral main frame, improved cushion swing, 40 degree loader bucket rollback, plus much more.

- 14'7" DIGGING DEPTH
- 9200 LBS. DIGGING FORCE
- 17'8" REACH FROM SWING AXIS
- 1750 LBS. LIFT CAPACITY

BACKHOE LOADER





715 SPECIFICATIONS

GENERAL TRACTOR DIMENSIONS

		Metrics
Overall length, bucket on ground, backhoe in transport.....	270.5"	6870.70 mm
Overall width.....	32.4"	2093.00 mm
Height to top of ROPS.....	98"	2489.00 mm
Transport height.....	135.5"	3441.70 mm
Wheel base.....	84"	2134.00 mm
Tread width:		
Front.....	67"	1702.00 mm
Rear.....	65"	1651.00 mm
Minimum ground clearance.....	14.25"	361.95 mm
Curb clearance outside corner of bucket (carry position).....	194.5 R	
Turning circle (C of tire).....	285"	7239.00 mm

Operating weight.....	13,210 lbs.	5992.05 kg
ENGINE		
Make.....	Perkins	
Model.....	4.236	
Numbers of cylinders.....	4	
Bore & stroke.....	3.88 x 5.00"	98.55 x 127.0 mm
Displacement.....	236 cu. in.	
Compression ratio.....	16:1	
Governed speed.....	2,250 RPM	
Gross horsepower.....	SAE 72	
Net horsepower.....	SAE 65	
Maximum torque.....	186	
Torque at governed RPM.....	168	

TRANSMISSION

Make.....	Warner Gear
Type.....	Power reverser
Number of speeds.....	4 forward, 4 reverse

TORQUE CONVERTER

Make	Borg & Beck	
Type	Single stage, two phase	
Size Dia.	11"	279.4 mm
Torque ratio	Max. 2.6:1	

FRONT AXLE

Load rating:.....	20,000 lbs.	9070 kg
-------------------	-------------	---------

REAR AXLE

Type:.....	Inboard planetary drive
Load Rating.....	12,500 lbs.....5670 kg

BRAKES

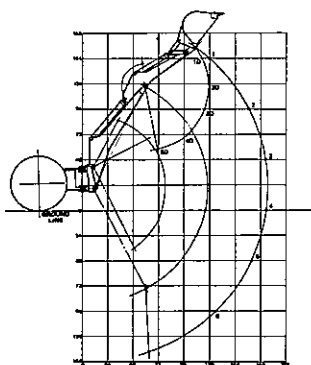
Type.....	Mechanical
	wet disc
Net contact area.....	224 sq. in.....1445 sq. cm

ELECTRICAL SYSTEM

Volts.....	12 volt
Ground.....	Negative
Alternator amps.....	42

SYSTEM CAPACITIES

Cooling system.....	5 gal.	18.90 liters
Crank case.....	12 qts.	11.35 liters
Transmission.....	4 spd., 4 qts.	3.79 liters
Drive Axle.....	5 gal.	18.90 liters
Fuel tank.....	24 gal.	90.84 liters
Hydraulic system.....	40 gal.	151.40 liters



	POSITION	RATED LOAD (FIEI-1962)
BOOM CYL.	1	1750
	2	1930
	3	1890
	4	1820
	5	1790
	6	1850
DIPPER CYL.	1D	2560
	2D	3810
	3D	4180*
	4D	4900*
	5D	6970*

*LIMITED BY TIPPING CONDITION.

LIFT CHART FOR MODEL 715 BACKHOE

HYDRAULIC SYSTEM

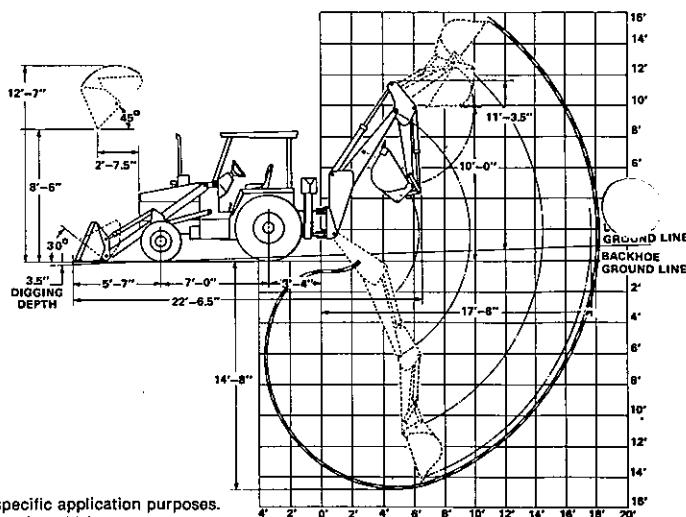
Pump Loader Backhoe		
Type.....	Gear	
Rating.....	18 & 11.3 GPM at 2,250 RPM	
Main Relief Pressure.....	2250 psi	
Power Steering		
Type.....	Hydrostatic	
Rating.....	6 GPM at 1,100 RPM	
Valve Loader type.....	Open center	
Backhoe type.....	Open center	
Cylinders		
Type.....	Double acting	
Loader Lift Cylinder.....	2	
Bore.....	3.00"	76 mm
Stroke.....	25.25"	641 mm
Rod diameter.....	2.25 dia.	57.15 mm
Backhoe Boom Cylinder.....	1	
Bore.....	4.50"	114.3 mm
Stroke.....	37.00"	940 mm
Rod diameter.....	2.25"	57 mm
Backhoe Dipperstick Cylinder.....	1	
Bore.....	4.00"	101.6 mm
Stroke.....	37.00"	940 mm
Rod diameter.....	2.50"	64 mm

LOADER

Overall height, fully raised.....	151.2"	3840 mm
Height to bucket hinge pin.....	122"	3099 mm
Dump height @ 45°.....	102"	2591 mm
Reach, fully raised 45° dump.....	31.5"	800 mm
Maximum dump angle.....	45°	
Maximum rollback, ground level.....	30°	
Digging depth.....	SAE 3.50"	89 mm
Cycle Time		
Full raise.....	5.2 sec.	
Power down.....	2.2 sec.	
Dump.....	1.9 sec.	
Retract (dump cycle to level bucket position).....	1.9 sec.	
Lift Capacity.....	4,200 lbs.	1905.12 kg
Breakout force.....	7,000 lbs.	3175.2 kg

BACKHOE

Maximum digging depth, mfg. rating.....	176"	4470 mm
Maximum digging depth, IEMC.....	172"	4369 mm
Swing arc.....	180°	
Loading height.....	120"	3048 mm
Loading reach.....	58"	2235 mm
Bucket clearance, transport height.....	33"	838 mm
Reach, centerline of swing post.....	212"	5385 mm
Reach, centerline rear axle.....	252"	6401 mm
Digging force, IEMC		
Dipperstick.....	6,700 lbs.	3039 kg
Bucket.....	9,200 lbs.	4173 kg
Lift capacity, Boom and dipper		
fully extended.....	1,750 lbs.	793.8 kg
STABILIZER SPREAD		
Extended.....	122"	3099 mm
Retracted.....	83"	2108 mm
Bucket Capacity, SAE Heaped		
Loader.....	875 cu. yd.	668.0 liters
Backhoe.....	24" 610 mm	8 cu. ft. 226.2 liters



The information contained herein is general in nature and is not intended for specific application purposes. Allis-Chalmers reserves the right to make changes in specifications shown herein, add improvements, or discontinue manufacture at any time without notice or obligation.

ALLIS-CHALMERS

INDUSTRIAL TRACTOR DIVISION
P. O. Box 512 - Milwaukee, WI 53214