

**LINK-BELT  
SPEEDER**

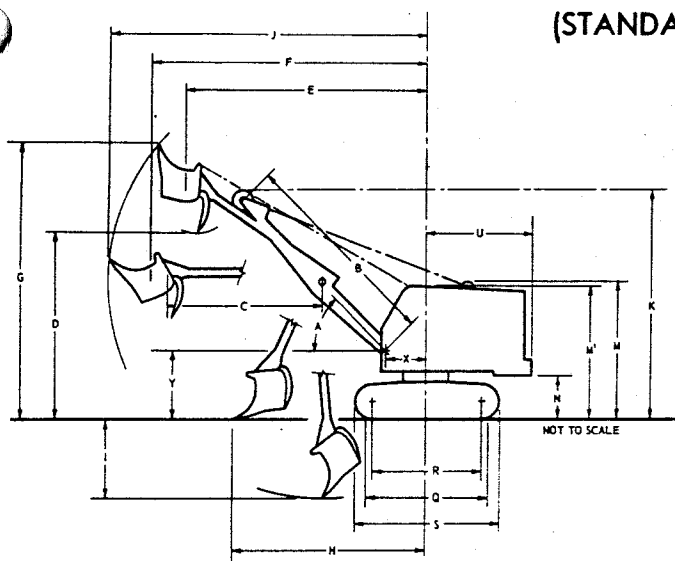
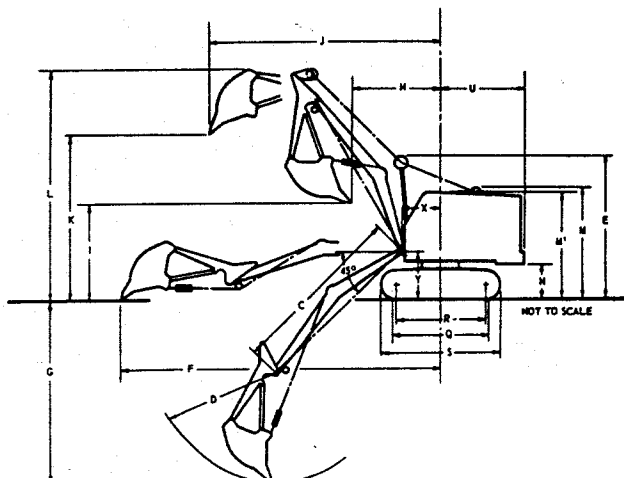
# LS-58 Shovel and Hoe

## Clearances - Working Ranges

10.4 TON CRAWLER MOUNTED CRANE (PCSA CLASS 10-28)

(STANDARD LOWER 6'8" GAUGE X 10'3" LONG OVER-ALL)

Supersedes Flysheet CRF1062-11-61

**GENERAL INFORMATION ONLY**

### SHOVEL WORKING RANGES

Dipper capacity, cubic yards (struck measure)							5/8
B—Boom length, center to center of pins							16' 0"
Effective boom length (center of boom foot pin to cable pitch line of peak sheave)							16' 9"
C—Dipper stick length, effective							12' 3"
Dipper stick length, over-all							13' 0"
BOOM ANGLE	A	60°	55°	50°	45°	40°	
Maximum dumping height	D	17' 6"	16' 6"	15' 4"	14' 3"	12' 11"	
Dump. radius at max. height	E	16' 0"	17' 4"	18' 6"	19' 6"	20' 6"	
Maximum dumping radius	F	19' 11"	20' 6"	21' 0"	21' 5"	21' 11"	
Maximum cutting height	G	24' 8"	23' 6"	22' 4"	21' 0"	19' 6"	
Maximum clean-up radius	H	13' 5"	13' 10"	14' 2"	14' 6"	14' 9"	
Maximum digging depth	I	5' 0"	5' 4"	5' 9"	6' 3"	6' 7"	
Maximum cutting radius	J	22' 11"	23' 5"	23' 11"	24' 5"	24' 10"	
Boom clearance height	K	19' 8"	18' 11"	18' 2"	17' 2"	16' 2"	
Clearance (counterweight "A")			N			3' 2"	
Tailswing (counterweight "A")			U			7' 8"	
Radius of boom hinge pin			X			3' 1"	
Height of boom hinge pin			Y			5' 0"	

### GENERAL DIMENSIONS COMMON TO BOTH SHOVEL AND HOE

Over-all height, low gantry	M	10' 2"
Cab clearance height	MI	10' 2"
Crawler ground bearing length	O	8' 8"
Center to center of wheels	R	7' 9"
Over-all crawler length	S	10' 3"

### BRIEF SPECIFICATIONS

#### SHOVEL

Approximate working weight with 24" wide track shoes, low gantry, counterweight "A" ..... 29,300 lbs.  
 Crowd speed ..... 101 f.p.m.  
 Retract speed ..... 146 f.p.m.  
 Swing speed ..... 4.9 r.p.m.  
 Lagging ..... Line Pull ..... Line Speed  
 9" hoist (rear) ..... 12,000 lbs. @ 134 f.p.m.

#### HOE

Approximate working weight with 24" wide track shoes, low gantry, counterweight "AB" ..... 32,450 lbs.  
 Swing speed ..... 4.9 r.p.m.  
 Lagging ..... Line Pull ..... Line Speed  
 10" inhaul (front) ..... 11,300 lbs. @ 150 f.p.m.  
 11" hoist (rear) ..... 9,950 lbs. @ 162 f.p.m.

#### POWER UNITS

Suitable for operation up to 4000' above sea level. For operation at higher altitudes consult factory.  
 Standard—Waukesha 195GK gasoline engine with friction clutch, six cylinder, 56 net h.p. @ 1,620 r.p.m., full load speed.

Optional at extra cost—Diesel: General Motors, International, Waukesha.  
 Gasoline: Waukesha with torque converter.

**WE ARE CONSTANTLY IMPROVING OUR PRODUCTS AND THEREFORE RESERVE****THE RIGHT TO CHANGE DESIGNS AND SPECIFICATIONS****LINK-BELT SPEEDER**Link-Belt Speeder  
Cedar Rapids, IowaLink-Belt Speeder (Canada), Ltd.  
Woodstock, Ontario

Printed in U.S.A.



These specifications comply with the recommended Commercial Standard CS90-58, developed under the National Bureau of Standards and issued by the United States Department of Commerce.

①

Dimension "G" shows maximum digging depths with 45° boom conforming to U.S. Dept. of Commerce Standards. The maximum "effective" digging depth will vary according to the type of soil and excavation.

### HOE LIFTING CAPACITIES

These are maximum lifting capacities for the hoe when used for laying pipe. Two part hoist line used.

BOOM RADIUS②	LIFTING CAPACITIES
12'	9,300 lbs.
15'	7,600 lbs.
20'	4,700 lbs.

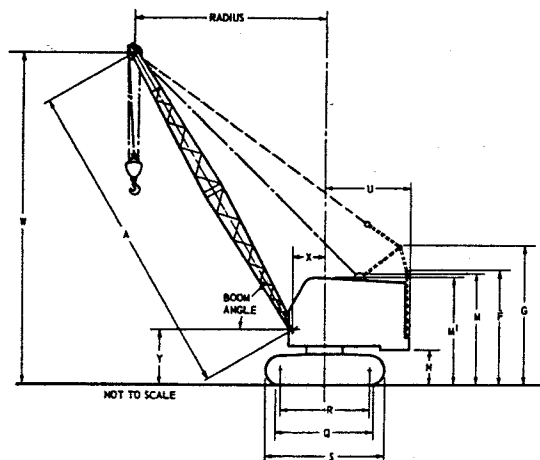
② Radius is measured from machine centerline of rotation to centerline of boom peak shaft. Capacities are based upon hoe arm being in a vertical position.

**LINK-BELT  
SPEEDER**

# LS-58 Lifting Capacities

## Clearances - Working Ranges

(STANDARD LOWER 6'8" GAUGE X 10'3" LONG OVER-ALL)

**GENERAL DIMENSIONS**

Basic boom length	A	30'
Over-all height, retractable high gantry lowered	F	10' 6"
Over-all height, retractable high gantry raised	G	13' 1"
Over-all height, low gantry	M	10' 2"
Cab clearance height	MI	10' 2"
Clearance (counterweight "AB")	N	3' 4"
Clearance (counterweight "ABC")	N	3' 1"
Crawler ground bearing length	Q	8' 8"
Center to center of wheels	R	7' 9"
Over-all crawler length	S	10' 3"
Tailswing (counterweight "AB")	U	8' 3"
Tailswing (counterweight "ABC")	U	8' 9"
Radius of boom hinge pin	X	3' 1"
Height of boom hinge pin	Y	5' 0"
Minimum ground clearance		1' 0"
Over-all width with 16" wide track shoes		8' 0"
Over-all width with 24" wide track shoes		8' 8"
Width of cab		7' 10"

**LIFTING CAPACITIES**

BOOM			W Boom Point Height	LIFTING CRANE		DRAGLINE ①	CLAMSHELL MAGNET ①
Length	Radius	Angle		Counterweight "AB"	Counterweight "ABC" ③		
30'	10'	77°	34' 2"	16,400	20,800	---	5,300
	12'	73°	33' 7"	12,300	15,700	---	5,300
	15'	67°	32' 5"	9,000	11,500	---	5,300
	20'	56°	29' 9"	6,000	7,800	4,500	5,300
	25'	43°	25' 5"	4,400	5,800	4,400	3,960
	29'	30°	19' 5"	---	---	3,710‡	---
	30'	26°	18' 1"	3,500	4,600	---	3,140
40'	10'	80°	44' 4"	16,200	20,600	---	5,300
	12'	77°	43' 11"	12,100	15,500	---	5,300
	15'	73°	43' 2"	8,800	11,300	---	5,300
	20'	65°	41' 2"	5,800	7,600	---	5,200
	25'	57°	38' 4"	4,200	5,600	4,200	3,780
	30'	48°	34' 6"	3,300	4,400	3,300	2,970
	35'	37°	29' 0"	2,600	3,600	2,600	2,340
50' ②	38'	30°	23' 9"	---	---	2,400‡	---
	40'	23°	20' 3"	2,200	3,000	---	1,980
	12'	80°	54' 0"	11,900	15,300	---	---
	15'	76°	53' 7"	8,600	11,100	---	---
	20'	70°	52' 0"	5,600	7,400	---	---
	25'	64°	49' 11"	4,000	5,400	---	---
	30'	57°	47' 1"	3,100	4,200	---	---
60' ② ③	35'	50°	43' 5"	2,400	3,400	---	---
	40'	42°	38' 8"	2,000	2,800	---	---
	45'	33°	32' 2"	1,600	2,300	---	---
	50'	20°	22' 3"	1,300	2,000	---	---
	15'	79°	63' 8"	---	10,900	---	---
	20'	74°	62' 6"	---	7,200	---	---
	25'	69°	60' 9"	---	5,200	---	---
70' ② ③	30'	64°	58' 8"	---	4,000	---	---
	40'	52°	52' 2"	---	2,600	---	---
	50'	39°	42' 4"	---	1,800	---	---
	60'	19°	24' 3"	---	1,200	---	---
	20'	76°	72' 10"	---	7,000	---	---
	25'	72°	72' 5"	---	5,000	---	---
	30'	67°	69' 7"	---	3,800	---	---
Maximum boom machine can pick clear of ground over end	40'	58°	64' 6"	---	2,400	---	---
	50'	48°	57' 0"	---	1,600	---	---
	60'	36°	45' 10"	---	1,000	---	---
	70'	17°	25' 6"	---	600	---	---
Maximum boom and jib machine can pick clear of ground over end				50'	70'		
				50' + 30'	60' + 30'		

**BRIEF SPECIFICATIONS****LIFTING CRANE AND CLAMSHELL**

Approximate working weight with 30' boom, 24" wide track shoes, low gantry, no bucket, hookblock or tagline winder.

With counterweight "AB" ----- 28,950 lbs.

With counterweight "ABC" (Lifting Crane only) ----- 32,550 lbs.

Swing speed ----- 4.9 r.p.m.

Lifting Crane Lagging ----- Line Pull ----- Line Speed

9" hoist (front) ----- 12,400 lbs. ----- @ 134 f.p.m.

9" hoist (rear) ----- 12,000 lbs. ----- @ 134 f.p.m.

Clamshell Lagging -----

11" closing (front) ----- 10,200 lbs. ----- @ 162 f.p.m.

11" holding (rear) ----- 9,950 lbs. ----- @ 162 f.p.m.

**DRAGLINE**

Approximate working weight with 30' boom, 24" wide track shoes, low gantry, counterweight "AB", no bucket ----- 29,250 lbs.

Swing speed ----- 4.9 r.p.m.

Lagging ----- Line Pull ----- Line Speed

10" inhaul (front) ----- 11,300 lbs. ----- @ 150 f.p.m.

11" hoist (rear) ----- 9,950 lbs. ----- @ 162 f.p.m.

**CRAWLER**

24" wide track shoes standard; 16" wide track shoes optional at reduced cost. Two speed travel standard; .96 m.p.h. in low, 2.1 m.p.h. in high. Independent swing and travel is optional at extra cost.

Lifting capacities shown are in pounds and are not more than 75% of minimum tipping loads with machine standing on firm level ground. A deduction must be made from the lifting capacities for the weight of hookblock, hook, sling, grapple, etc.

‡ Dragline operation with boom angle less than 35° is seldom advisable.

NOTE: Six part hoist line 1/2" cable required for maximum lifts.

① For normal dragline, clamshell, lifting magnet or similar work, weight of bucket or magnet plus load should not exceed capacities shown in dragline or clamshell-magnet chart with machine standing on firm level ground. These are values for normal conditions and exceptions may be made for above average conditions. However, allowances must be made for soft or uneven footing, bucket suction and other unfavorable conditions. Boom length for average dragline, clamshell, magnet or similar work should not exceed 40 feet.

② Retractable high gantry required for booms over 40 feet long.

③ Lifting crane service only.

**GENERAL INFORMATION ONLY**