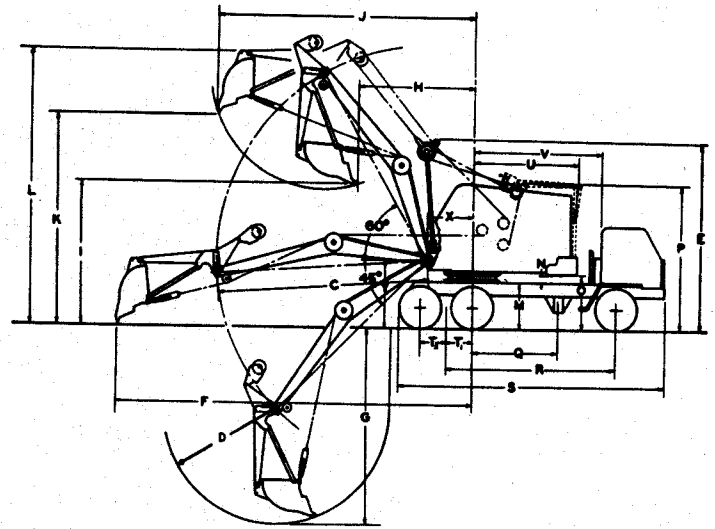
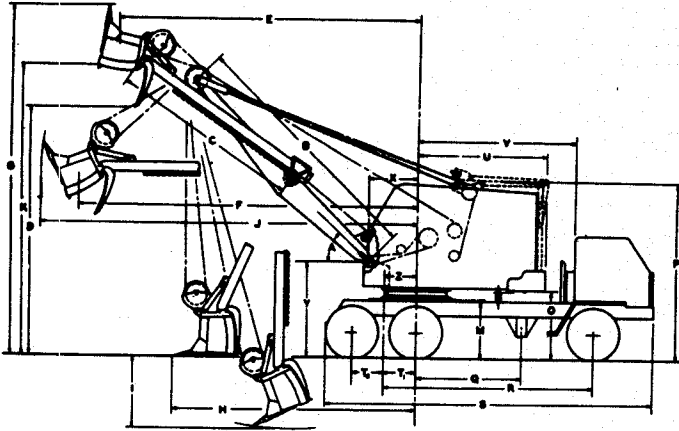


**LINK-BELT
SPEEDER**

Clearances - Specifications - Working Ranges HC-58A Zephyrcrane Shovel and Hoe

(Supersedes CRS1030-11-56)



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	18' 6"	17' 6"	16' 4"	15' 3"	13' 11"
Dumping radius 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	25' 8"	24' 6"	23' 4"	22' 0"	20' 6"
Maximum clean-up radius	H	14' 3"	14' 7"	14' 10"	15' 1"	15' 3"
Maximum digging depth	I	3' 10"	4' 4"	4' 9"	5' 3"	5' 7"
Maximum cutting radius	J	22' 11"	23' 5"	23' 11"	24' 5"	24' 10"
Boom clearance height	K	20' 8"	19' 11"	19' 2"	18' 2"	17' 2"

Radius of boom hinge pin	X	3' 1"
Height of boom hinge pin	Y	6' 0"

GENERAL DIMENSIONS COMMON TO BOTH SHOVEL AND HOE

Over-all width of tires		8' 0"
Over-all width with outriggers extended		12' 0"
Over-all height, top of ring gear plate	M	3' 8"
Ground clearance under counterweight "A"	O	4' 4"
Over-all height, low gantry		11' 8"
Center line rotation to front outrigger center	Q	5' 9"
Truck wheelbase	R	12' 5"
Over-all truck length (rear outrigger removed)	S	20' 0"
Center rear axle to pivot of bogie	T1	2' 0"
Center rear axle to pivot of bogie	T2	2' 2"
Tailsling (counterweight "A")	U	7' 8"
Center line rotation to back of truck cab	V	9' 5"
Center line rotation to rear axle bogie	Z	1' 9"

BRIEF CARRIER SPECIFICATIONS

Heavy-duty all-welded frame, 9:00 x 20, 10-ply tires; single tires on front axle, 6 x 6 drive and 6-wheel hydrovac brakes. 10 speeds forward; 2 speeds reverse. Road speeds up to 35 m.p.h. Chrysler IND32 engine stripped develops 120 maximum brake horsepower at 3600 r.p.m. Turning radius right and left 35'. Removable front and rear sliding outriggers, optional extra.

HOE WORKING RANGES

Bucket capacity, cubic yards	5/8	
Bucket cutting width	32 1/2"	
Boom length	C	16' 6"
Average sweep radius	D	9' 10"
Height of hoe mast	E	14' 7"
Maximum digging radius	F	29' 4"
Maximum digging depth ^①	G	16' 2"
Radius beginning of dump	H	8' 8"
Ground clearance beginning dump	I	10' 3"
Clearance radius end of dump	J	21' 2"
Ground clearance end of dump	K	16' 6"
Over-all height end of dump	L	21' 6"
Radius of boom hinge pin	X	3' 7"
Height of boom hinge pin	Y	5' 4"

① Dimension "G" shows maximum digging depth with 45° boom. 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 RADIUS ^②	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 the hoe arm being in a vertical position.

BRIEF SPECIFICATIONS

SHOVEL

Approximate working weight with low gantry, counterweight "A"	31,550 lbs.
Crowd speed	101 f.p.m.
Retract speed	146 f.p.m.
Swing speed	4.9 r.p.m.
Lagging	Line Pull
9" hoist (rear)	12,000 lbs. @ 134 f.p.m.

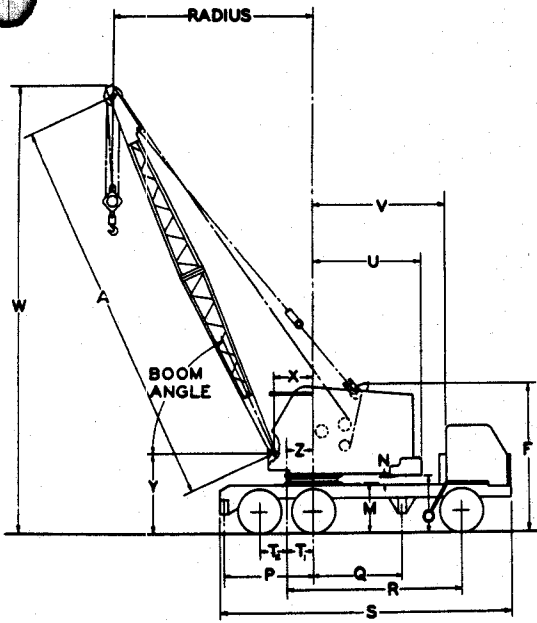
HOE

Approximate working weight with low gantry, counterweight "A"	31,600 lbs.
Swing speed	4.9 r.p.m.
Lagging	Line Pull
9" inhaul (front)	12,400 lbs. @ 134 f.p.m.
11" hoist (rear)	9,950 lbs. @ 162 f.p.m.

NB60-3 1-15-60

Clearances-Specifications-Working Ranges

HC-58A 10-Ton Zephyrcrane



GENERAL DIMENSIONS

Basic boom length	A	30' 0"
Over-all height, low gantry	F	11' 8"
Over-all height, top of ring gear plate	M	3' 8"
Clearance between truck and counterweight	N	8"
Ground clearance under counterweight	O	4' 4"
Centerline rotation to rear outrigger center	P	6' 3"
Centerline rotation to front outrigger center	Q	5' 9"
Truck wheelbase	R	12' 5"
Over-all length of truck with rear outrigger	S	21' 0"
Over-all length of truck without rear outrigger		20' 0"
Bogie pivot to center rear wheel	T1	24"
Bogie pivot to center rear wheel	T2	26"
Tailswing	U	7' 8"
Center line of rotation to back of truck cab	V	9' 5"
Radius of boom hinge pin	X	3' 1"
Height of boom hinge pin	Y	6' 0"
Center line of rotation to rear bogie pivot	Z	1' 9"
Over-all width over tires		7' 10"
Over-all width with outriggers		8' 0"
Over-all width with outriggers extended		12' 0"

LIFTING CAPACITIES WITH COUNTERWEIGHT "A", LOW GANTRY^① AND OUTRIGGERS

R	30' BOOM					35' BOOM					R
	B	W	With Outriggers Side or Rear	Without Outriggers		B	W	With Outriggers Side or Rear	Without Outriggers		
				Side	Rear				Side	Rear	
10	77°	35' 2"	20,000	10,000	13,000	79°	40' 2"	19,900	9,900	12,900	10
12	73°	34' 7"	18,000	8,500	10,000	75°	39' 9"	17,900	8,400	9,900	12
15	67°	33' 5"	13,000	6,200	7,700	70°	38' 11"	12,900	6,100	7,600	15
20	56°	30' 9"	8,800	4,200	5,300	61°	36' 7"	8,700	4,100	5,200	20
25	43°	26' 5"	6,300	3,000	3,900	51°	33' 3"	6,200	2,900	3,800	25
30	26°	19' 1"	4,800	2,300	3,100	40°	28' 3"	4,700	2,200	3,000	30
35						24°	20' 2"	3,700	1,700	2,400	35

R	40' BOOM					50' BOOM ^②					R
	B	W	With Outriggers Side or Rear	Without Outriggers		B	W	With Outriggers Side or Rear	Without Outriggers		
				Side	Rear				Side	Rear	
10	80°	45' 4"	19,800	9,800	12,800	80°	55' 0"	17,600	8,100	9,600	10
12	77°	44' 11"	17,800	8,300	9,800	76°	54' 7"	12,600	5,800	7,300	12
15	73°	44' 2"	12,800	6,000	7,500	70°	53' 0"	8,400	3,800	4,900	15
20	65°	42' 2"	8,600	4,000	5,100	64°	50' 11"	5,900	2,600	3,500	20
25	57°	39' 4"	6,100	2,800	3,700	57°	48' 1"	4,400	1,900	2,700	25
30	48°	35' 6"	4,600	2,100	2,900	50°	44' 5"	3,400	1,400	2,100	30
35	37°	30' 0"	3,600	1,600	2,300	42°	39' 8"	2,800	1,100	1,600	35
40	22°	21' 3"	3,000	1,300	1,800	33°	33' 2"	2,400	800	1,300	40
45						20°	23' 3"	2,000	600	1,000	45
50											50

Lifting capacities shown are in pounds and are not more than 85% of minimum tipping loads with machine standing on firm level ground. Allowance must be made on the above lifting capacities if either one or both outrigger boxes are removed.

① Retractable high gantry not available.

② Lifting crane service only.

When figuring bucket or magnet capacities, use the capacities shown in the column, "Without Outriggers—Side." For normal dragline work, on firm level ground, the capacities shown in the above lifting capacity table should not be exceeded; for clamshell, lifting magnet and similar work, where the outward swing of the load in rotation adds to the load imposed on the machine, these capacities should be reduced by at least 20%. Weight of bucket or magnet plus load should not exceed the resulting net capacity at the maximum desired operating radius, or the following, whichever is least—dragline 4,600 lbs. — clamshell or magnet 5,000 lbs. These are maximum values and allowance must be made for soft or uneven footing, bucket suction and other unfavorable conditions. Boom length for average dragline, clamshell or magnet or similar work, should not exceed 40 feet.

4500

5300

WE ARE CONSTANTLY IMPROVING OUR PRODUCTS AND THEREFORE RESERVE THE RIGHT TO CHANGE DESIGNS AND SPECIFICATIONS

For Certified Dimensions, Consult Factory

LINK-BELT SPEEDER CORPORATION — CEDAR RAPIDS, IOWA