

The Service You Deserve



Pump & Telebelt Size Guide

Safety Performance

NCCI Rate - 100%

MOD Rate - .56

ACPA Certified Operators



Presented by

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SAFETY



Proud to be **Safety Partners** with:





12 Points of Safety

1. The boom must maintain a minimum distance of 20' away from power lines at all times.
2. Customer will provide a setup area that's level and capable of fully supporting each outrigger.
3. Customer will provide dunnage and trench plates when required.
4. Customer will designate a single hose man who is familiar with all the ACPA hand signals to direct the operator.
5. Follow Manufacturer recommendations regarding setback distances from trenches, excavations, or slopes.
6. No outrigger will be placed within 15' of hydrants, electrical boxes, or backfilled areas.
7. To avoid a hose whipping incident, personnel should move a prudent and reasonable distance beyond the end-hose movement area on all prime-outs and when the pump has stopped and a restart occurs. Furthermore, all personnel are hereby advised that a "struck by danger" exists within a 50' circumference or greater around the boom area.
8. All personnel working around the pumping operation will wear PPE.
9. All personnel will keep away from all moving parts of the concrete pump.
10. No personnel will release a clamp while the system is under pressure.
11. The operator cannot operate the boom in high wind conditions; refer to specific boom size and manufacturer specs for maximum wind speed.
12. The operator cannot operate the boom when the presence of lightning is eminent.



SAFETY AND TRAINING PROGRAMS MANDATORY FOR ALL STATES & BRANCHES

Record of Training

Last Update:

2/28/17

Training Topic Post trip Inspection Static & Applied Air Brake Tests Actual Driving Test Safe Setup Procedures (ACPA) Outrigger & Pad Placement (ACPA) Avoiding Power Lines (ACPA) 5 Bad Driving Habits to Avoid ACPA video 4.01 ACPA certification Traveler's Video: Rear End Collisions DVR/Logbook Orientation (or Ed Carlson training) Driver Record Review Personal Protective Equipment (PPE) 3 - Point Rule Safety glasses																
Employee Name																
1 John Doe	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	2/5/17
2 John Doe		1/15/17	2/5/17	1/15/17					2/5/17	1/15/17	2/5/17	1/15/17		1/15/17		2/5/17
3 John Doe	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	1/15/17	2/5/17
4 John Doe	2/5/17		2/5/17		2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17		1/15/17	2/5/17	1/15/17	1/15/17	2/5/17
5 John Doe	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	1/15/17	2/5/17
6 John Doe			2/5/17	1/15/17					2/5/17	1/15/17	2/5/17	1/15/17				2/5/17
7 John Doe	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	2/5/17
8 John Doe		1/15/17	2/5/17				2/5/17	1/15/17	2/5/17	1/15/17						
9 John Doe	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	1/15/17	2/5/17
10 John Doe	2/5/17		2/5/17	1/15/17		1/15/17	2/5/17		2/5/17	1/15/17		1/15/17				2/5/17
11 John Doe	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	1/15/17	2/5/17
12 John Doe		1/15/17	2/5/17	1/15/17	2/5/17			1/15/17		1/15/17		1/15/17	2/5/17	1/15/17	2/5/17	2/5/17
13 John Doe	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	2/5/17
14 John Doe	2/5/17		2/5/17	1/15/17		1/15/17	2/5/17	1/15/17	2/5/17	1/15/17						
15 John Doe	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	2/5/17
16 John Doe				1/15/17		1/15/17	2/5/17	1/15/17		1/15/17	2/5/17				1/15/17	2/5/17
17 John Doe	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	2/5/17
18 John Doe				1/15/17		1/15/17	2/5/17	1/15/17	2/5/17	1/15/17		1/15/17	2/5/17			
19 John Doe	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	2/5/17
20 John Doe	2/5/17		2/5/17			1/15/17	2/5/17	1/15/17	2/5/17	1/15/17		1/15/17	2/5/17	2/5/17		2/5/17
21 John Doe	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	1/15/17	2/5/17	2/5/17
22 John Doe			2/5/17	1/15/17		1/15/17	2/5/17	1/15/17	2/5/17	1/15/17		1/15/17	2/5/17	1/15/17	2/5/17	2/5/17

BOOM PUMPS



PDF Contents:

Boom Pumps: Meters

20Z 4x	45 RZ
28 Z	47
31 EZ	47 Z-10
32	47 Z-17
33X5ZZ	48 RZ
34	50 RZ
36	52
36 Z	55
37	56 RZ
37 Z	56 Z OSS
37 RZ	58
38 XZ	58 OSS
38Z OSS	60 RZ
39	60X
39Z Detachable	60ZX 5x
40X	61 s
40 Z	61 p
41	70 Z OSS
42	
42Z	
43 Z	

Telebelts: Ft.

80'
105'
110'
130'

Placing Boom:

For placing Boom Specs
Please call Chuck Reed at 760.889.1534



PUMP SIZE FAST TRACK

PUMP SIZE				UNFOLDING HEIGHT	OUTRIGGERS		
	GROSS CENTER PIN	NET FRONT BUMPER	VERTICAL		FRONT	REAR	FRONT TO REAR DISTANCE
20Z	54'	45'	64'	12'10"	11'2"	8'6"	16'3"
28 Z	78'	70'	89'7"	21'4"	20'5"	8'7"	23'
31 EZ	87'	80'	100'	18'8"	20'5"	18'8"	24'6"
32	93'	84'6"	106'	25'4"	19'8"	17'	24'6"
33X5ZZ	91'	83'	105'7"	19'	18'	21'4"	20'9"
34	98'6"	90'	111'6"	27'5"	20'5"	18'8"	24'6"
36	104'	96'	118'5"	28'10"	24'4"	19'4"	29'6"
36Z	104'	97'	116'9"	28'7"	20'7"	21'8"	23'
37	108'	99'6"	121'5"	27'3"	20'4"	23'6"	21'9"
37 Z / 37 RZ	108'	99'6"	121'5"	28'7"	20'4"	23'5"	20'4" (Z) / 21'9" (RZ)
38 XZ	112'	104'	124'7"	28'7"	20'8"	24'	23'6"
38Z OSS - Putz	108'7"	101'	121'9"	28'7"	20'8"/OSS 14'5"	21'3"/OSS 17'	22'11"
39	115'	105'	127'	30'3"	25'7"	21'	30'
39Z Detachable	110'	101'	125'8"	29'6"	19'8"/OSS 14'5"	24'7"/OSS 20' 8"	23'4"
40X	118'	109'	131'	30'2"	20'8"	26'2"	24'
40 Z -Putz	115'6"	108'	128'3"	32'10"	20'7"	21'8"	23'
40 Z -Sany	115'6"	106'7"	128'7"	31'10"	20'3"	24'3'	22'6"
41	120'	110'	132'10"	31'9"	26'	21'	29'6"
42	125'	115'	138'	32'11"	28'	27'7"	27'9"
42Z	122'5"	113'2"	136'6"	28'3"	24'7"/OSS 15'9"	25'11"/OSS 20'4"	26'7"
43 Z	125'6"	115'7"	138'5"	30'2"	26'	29'6"	28'6"
45 RZ	134'6"	125'4"	147'8"	28'3"	28'8"	31'7"	30'7"
47	142'	130'	154'5"	39'5"	27'	27'4"	29'
47Z-16	138'	128'	151'3"	31'2"	26'/OSS 17'5"	29'6"/OSS 22'3"	28'6"
47-17	136'	125'	151'3"	36'5"	28'/OSS 17'5"	29'9"/OSS 22'5"	29'4"
48 RZ	144'4"	135'	157'6"	41'8"	30'	32'9"	31'5"

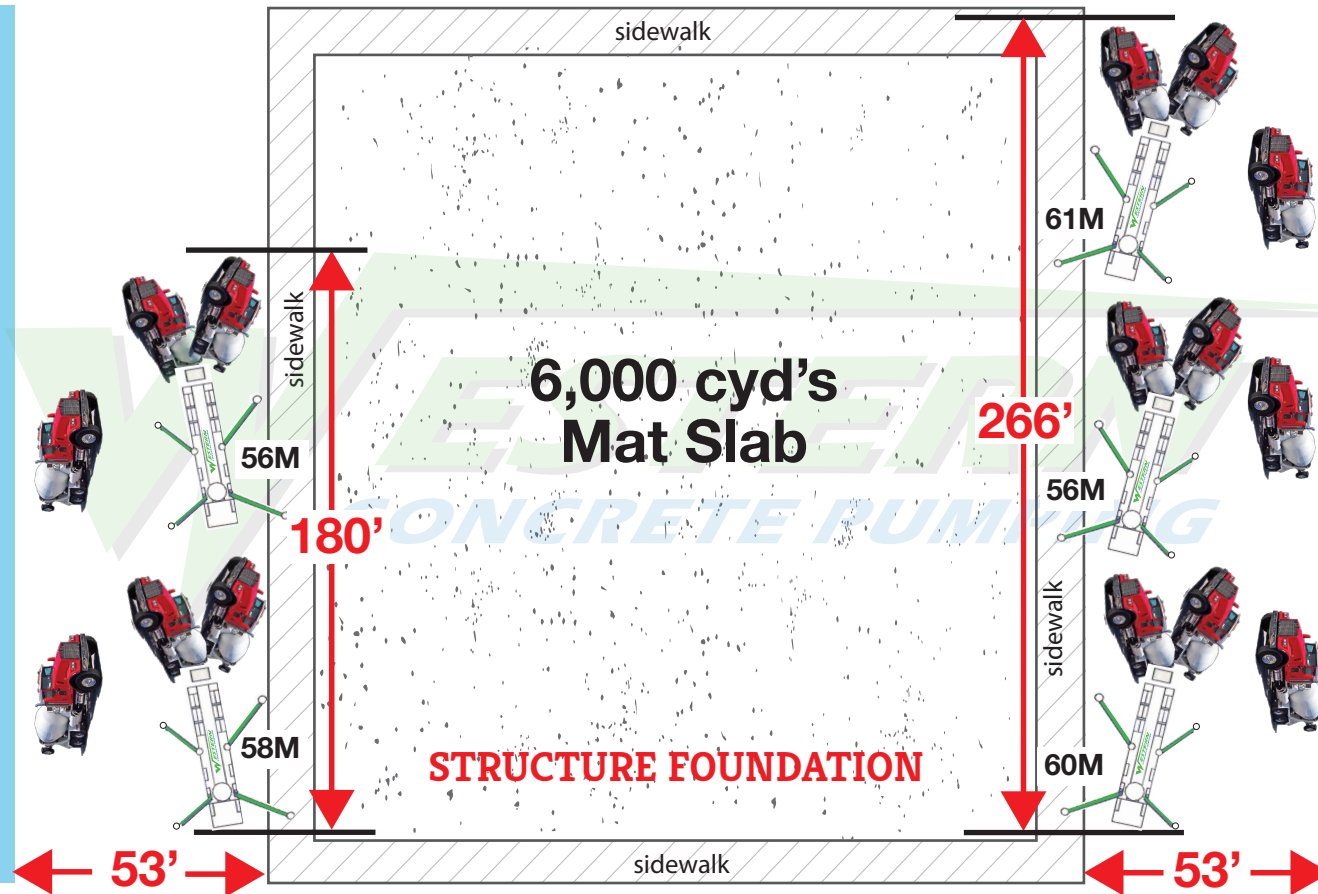


PUMP SIZE FAST TRACK

PUMP SIZE				UNFOLDING HEIGHT	OUTRIGGERS		
	GROSS CENTER PIN	NET FRONT BUMPER	VERTICAL		FRONT	REAR	FRONT TO REAR DISTANCE
50 RZ	151'	140'	164'	41'	30'6"	34'6"	33'
52	158'	148'	170'7"	38'2"	34'4"	29'	35'4"
55	167'4"	159'	180'	48'	34'9"	32'9"	34'
56 RZ	167'4"	157'	183'9"	49'10"	30'6"	39'	37'7"
56 Z OSS	163'10"	152'6"	180'10"	51'3"	30'6"/OSS 18'9"	40'/OSS 24'4"	36'
58	175'	160'	187'10"	48'5"	29'	41'	37'9"
58 OSS	174'	161'	188'	52'2"	38'/OSS 27'7"	36'/OSS 25'5"	38'
60 RZ	182'	172'	196'10"	44'3"	35'7"	42'6"	42'7"
60X	179'	162'6"	196'10"	42'8"	37'9"	41'	38'9"
60ZX 5x	176'10"	165'4"	190'7"	42'8"	33'11"	40'6"	37'10"
61-Sch	184'6"	173'	197'2"	52'3"	29'	41'	37'9"
61-Putz	184'	171'	197'2"	54'2"	33'	38'10"	35'8"
70Z OSS	213'	194'	227'	80'5"	44'	45'3"	44'3"

C St

MINIMUM APPROXIMATE DISTANCE TEMPLATE FOR STAGING CONCRETE PUMPS & READY MIX TRUCKS



BROADWAY

7th



8th

7th St.:

2 pumps, **58m** on corner facing Broadway & **56** behind the **58**.

180'Lx53'W= total length of both pumps and Readymix. The 53' wide is measured from the pour side outrigger which in this case was 10 feet off the foundation form/edge which was the engineers requirements for all pumps.

The 53' wide figured from the outrigger nearest to foundation then across 53' which includes one lane bypass for one Readymix with enough room to still back up and drive pass by our intra-pumps set up positions.

8th St.:

Same as 7th St.

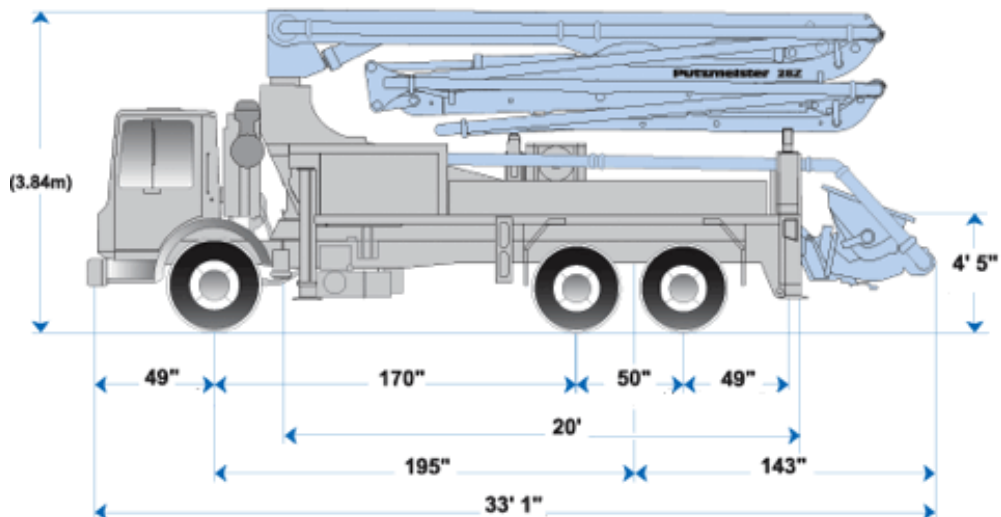
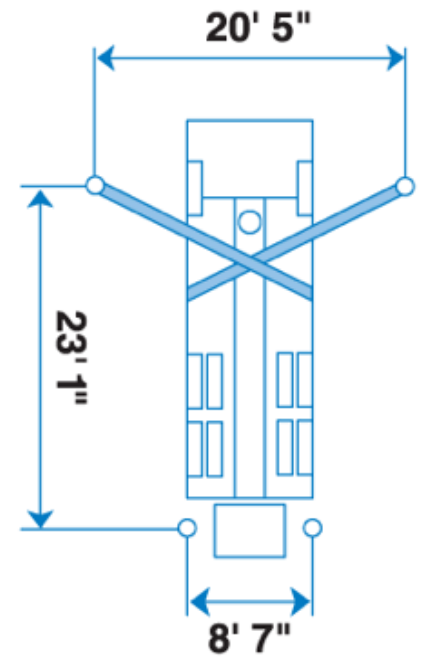
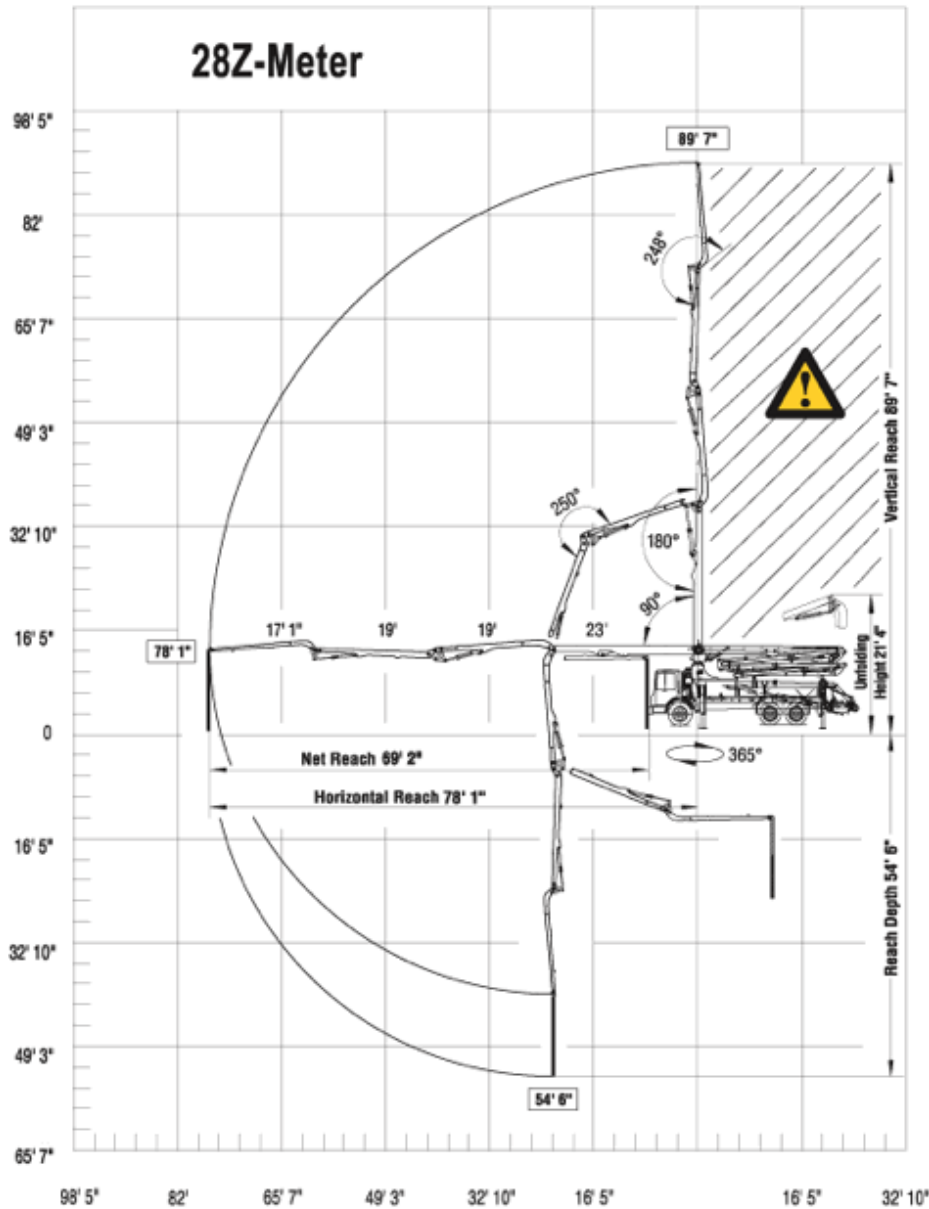
But now with 3 pumps it's 266L x 53W, **60m** facing Broadway & behind is **56m** & behind is **61m**.

Final note:

You'll need a little more total length feet out front of your furthest exit pumps, this case the 56m on 7th and the 61 on 8th for the Redimix trucks to pull up and then backup to those end/ exit pumps.

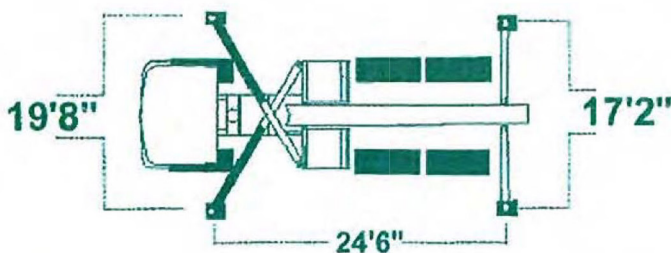
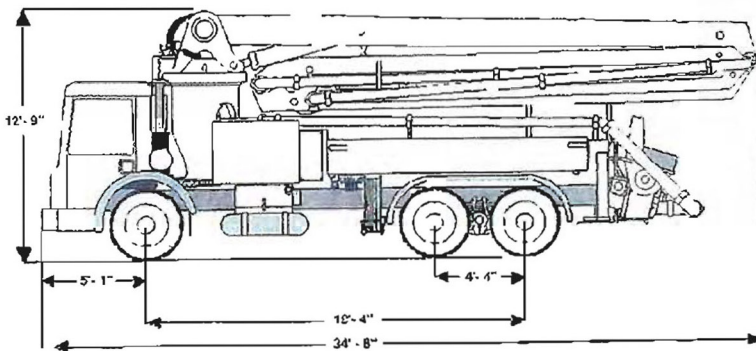
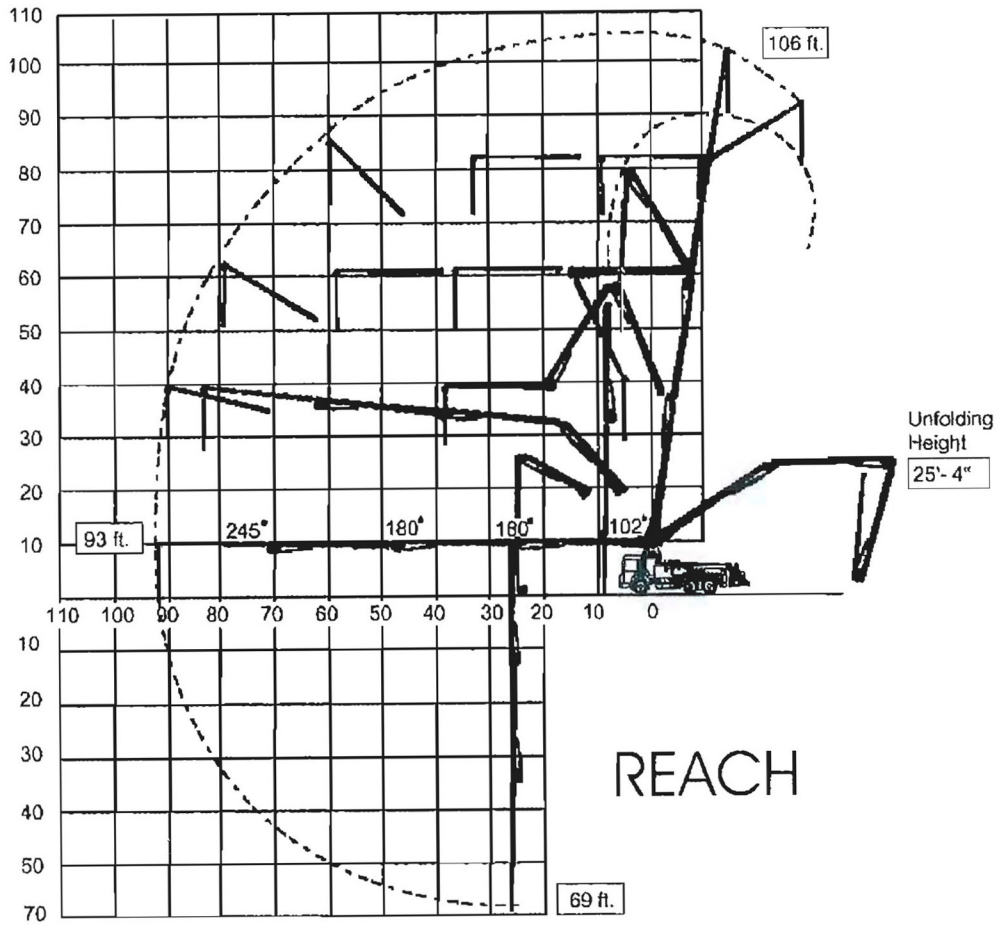
Opposite side outriggers OSS suggested.

28Z METER





32 METER



Boom Specifications

U.S.

Pipeline Diameter	5"
Vertical Reach	106'
Net Horizontal Reach	84'4"
Reach from Slewing Axis	93'
Unfolding height	25'4"
Section Length	First Section 25'11"
	Second Section 23'1"
	Third Section 23'1"
	Fourth Section 20'10"
Slewing Range	400°
End hose length	12'6"

Specifications are subject to change without prior notice.



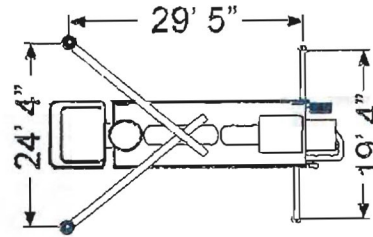
36 METER

Boom Specifications

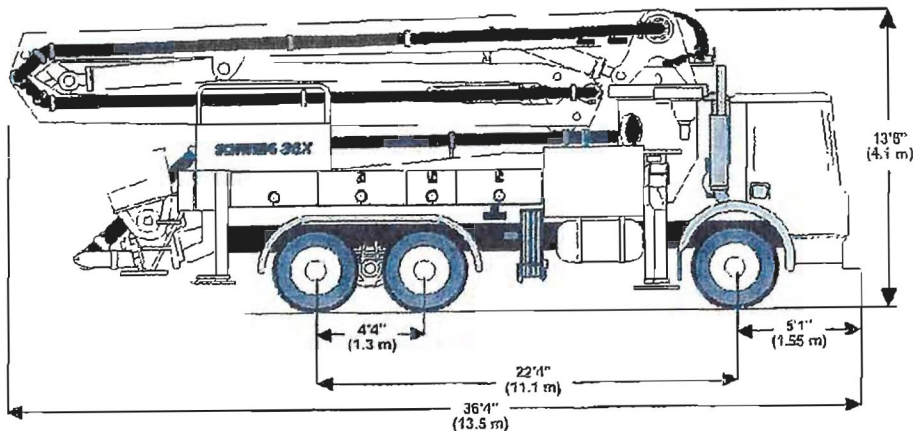
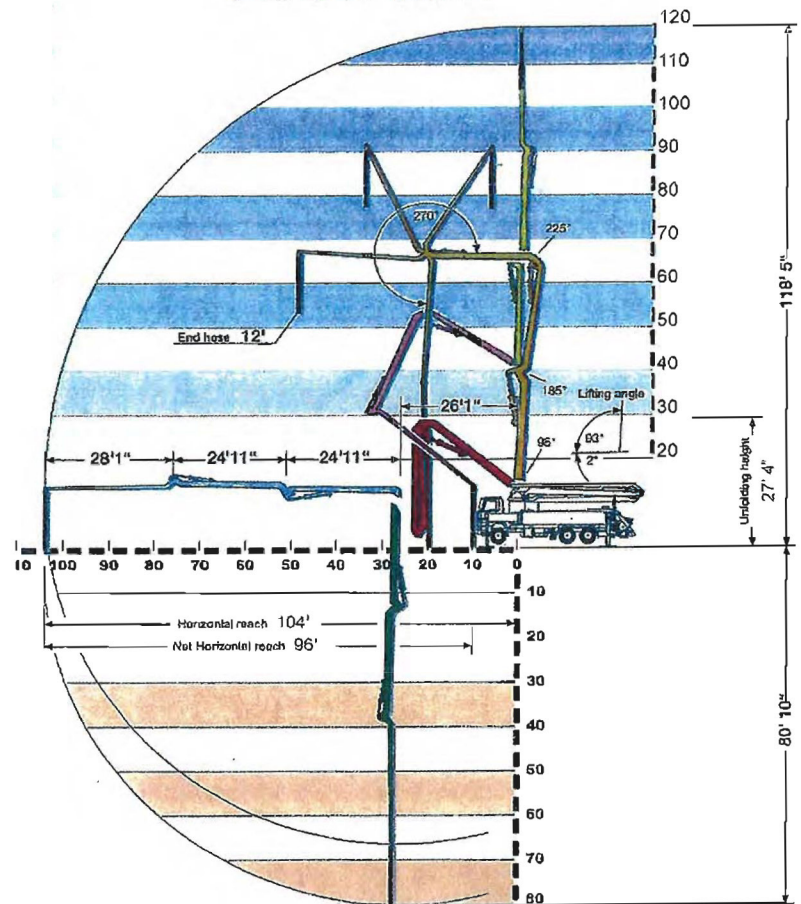
U.S.

Pipeline Diameter (in. - mm)	5
Vertical Reach (ft.-in. - m)	118-5
Horizontal Reach (ft. - m)	104
Net Horizontal Reach (ft. - m)	96
Unfolding Height (ft.-in. - m)	28-10
Section Lengths	
First Section (ft.-in. - m)	26-1
Second Section (ft. -in. - m)	24-11
Third Section (ft. - in. - m)	24-11
Fourth Section (ft. - in - m)	28-1
Slewing Range (degrees)	370°
End hose length (ft. - m)	12

Specifications are subject to change without prior notice.

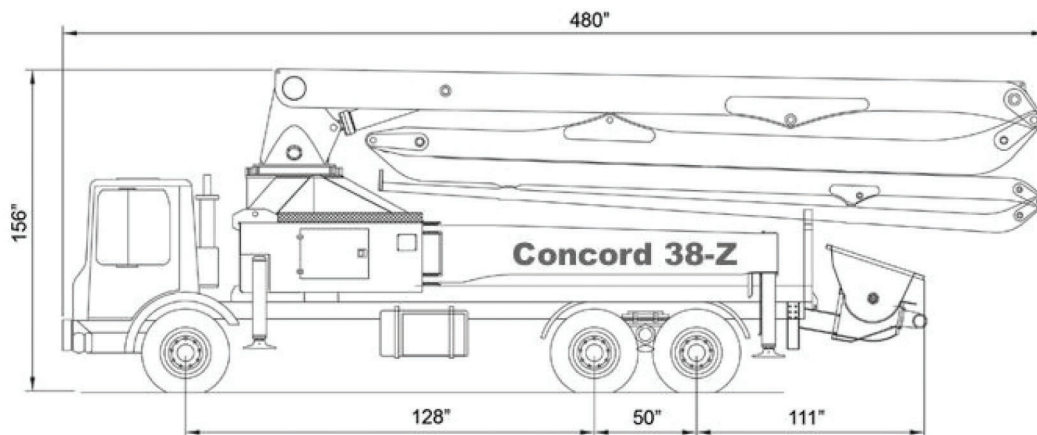
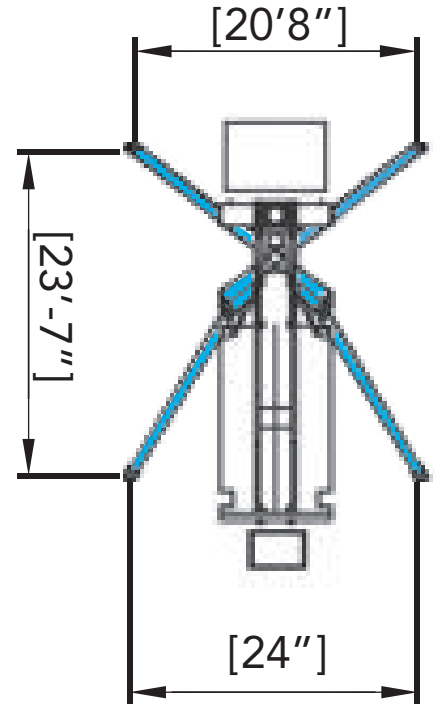
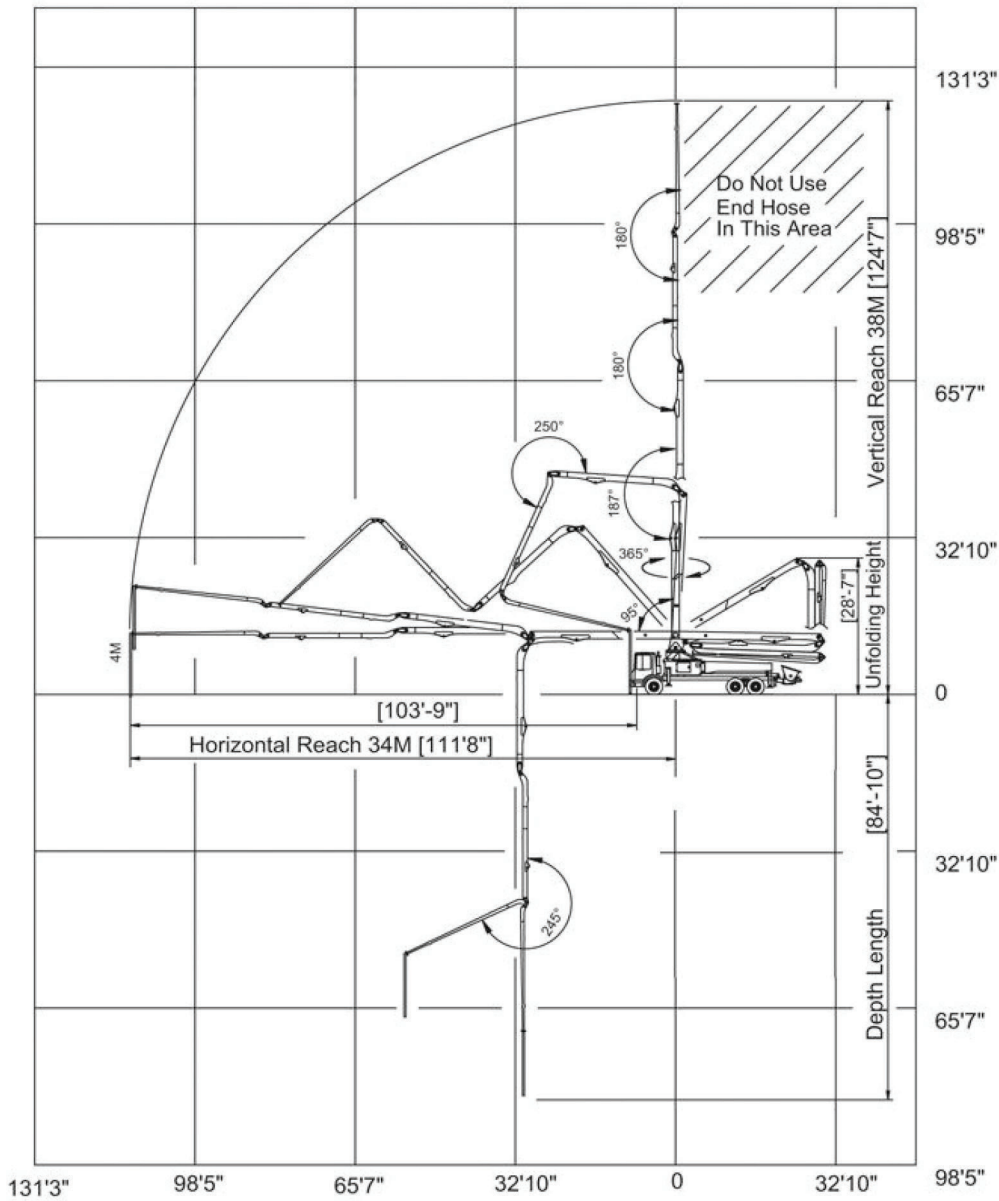


FOOTPRINT





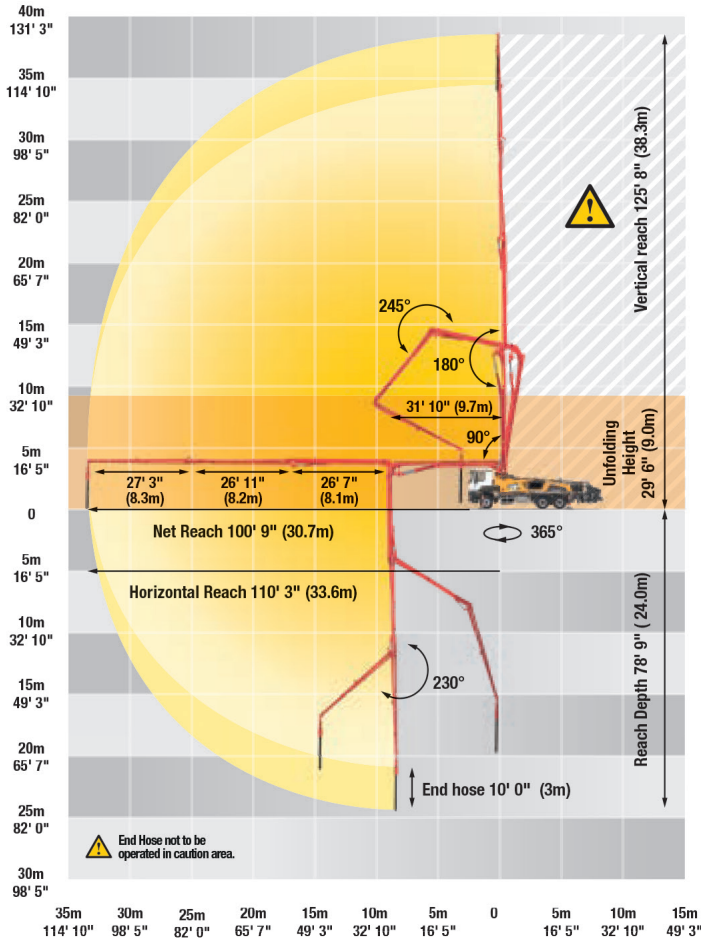
38XZ METER





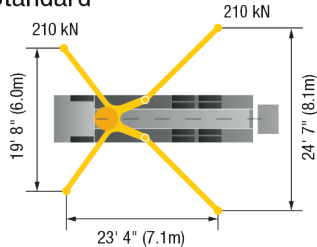
39Z METER Detachable

39Z-Meter Range Diagram

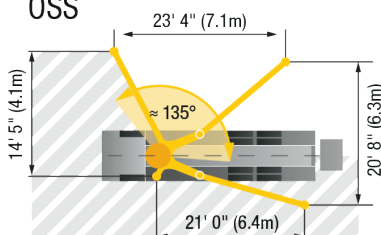


Boom Style	Z
Number of sections	4
HEIGHT & REACH	
Vertical reach	125' 8"
Horizontal reach	110' 3"
Reach from front of truck*	11' 9"
Reach depth	78' 9"
Unfolding height	29' 6"
Outrigger Load: Front	195kN
Outrigger Load: Rear	210 kN
BOOM SECTION ARTICULATION	
1st section articulation	90°
2nd section articulation	180°
3rd section articulation	245°
4th section articulation	230°
1st section length	31' 10"
2nd section length	26' 7"
3rd section length	26' 11"
4th section length	27' 3"
GENERAL SPECIFICATIONS	
Pipeline Size (ID) metric ends	5"
Rotation	365°
End hose - length	10' 0"
End hose - diameter	5"
Outrigger spread L-R - front hydraulically extended out & down	19' 8"
Outrigger spread L-R - rear hydraulically swing out & extend down	24' 7"
BASED ON MODEL MACK MRU 613 WITH .16H PUMP CELL	
Length	40' 11"
Width	8' 2"
Height	12' 9"
Wheelbase	231"
Front axle weight	18831 lbs
Rear axle weight	37,564 lbs
Approx total weight	56,395lbs

Standard

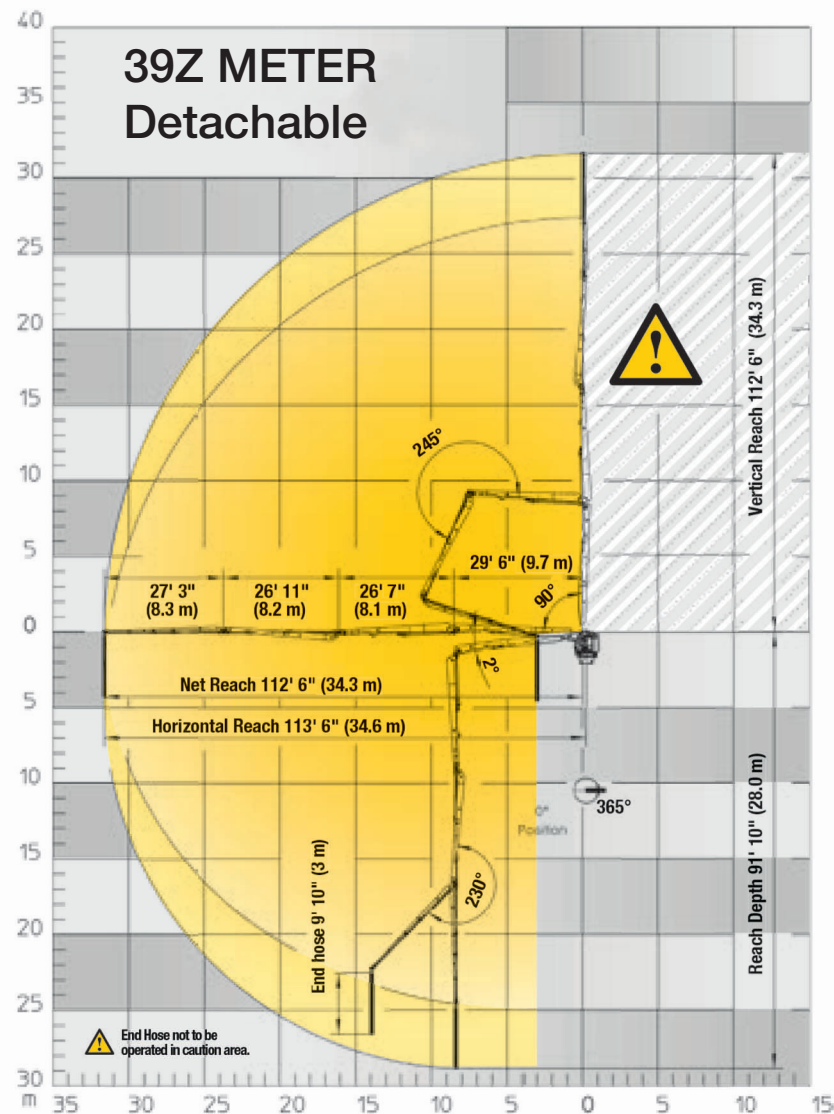
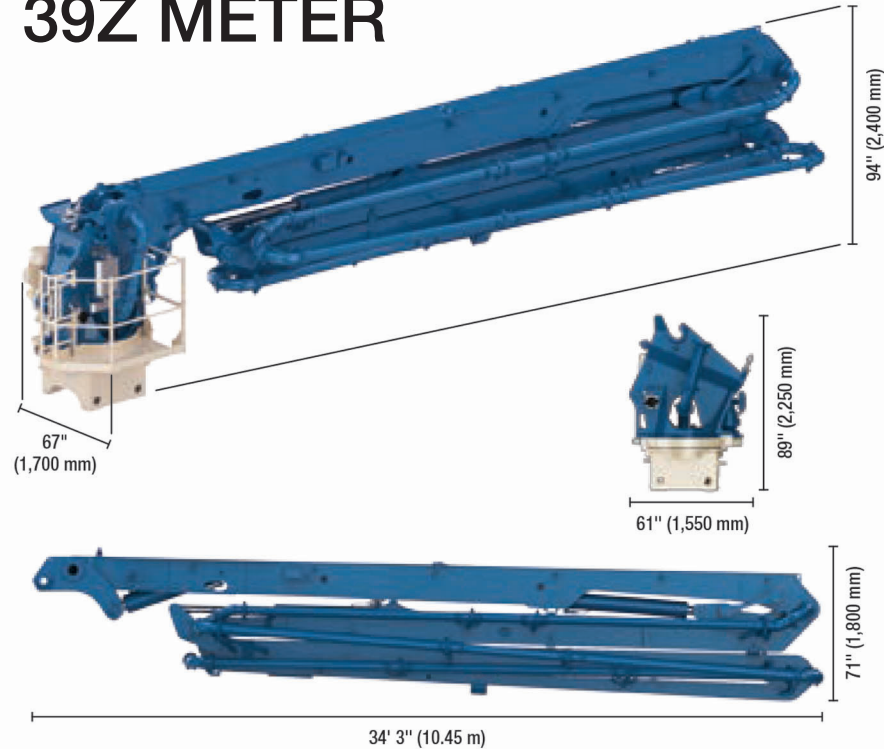


OSS



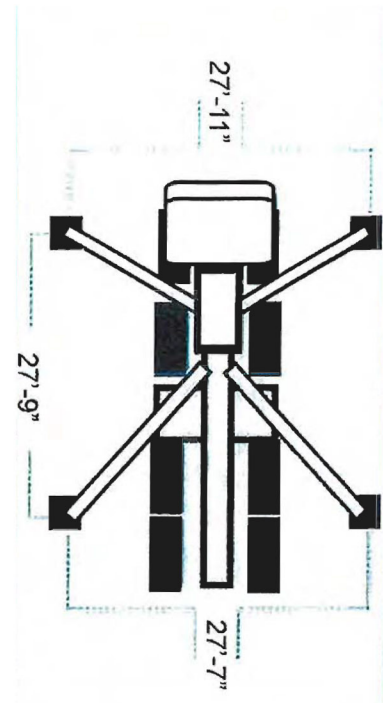
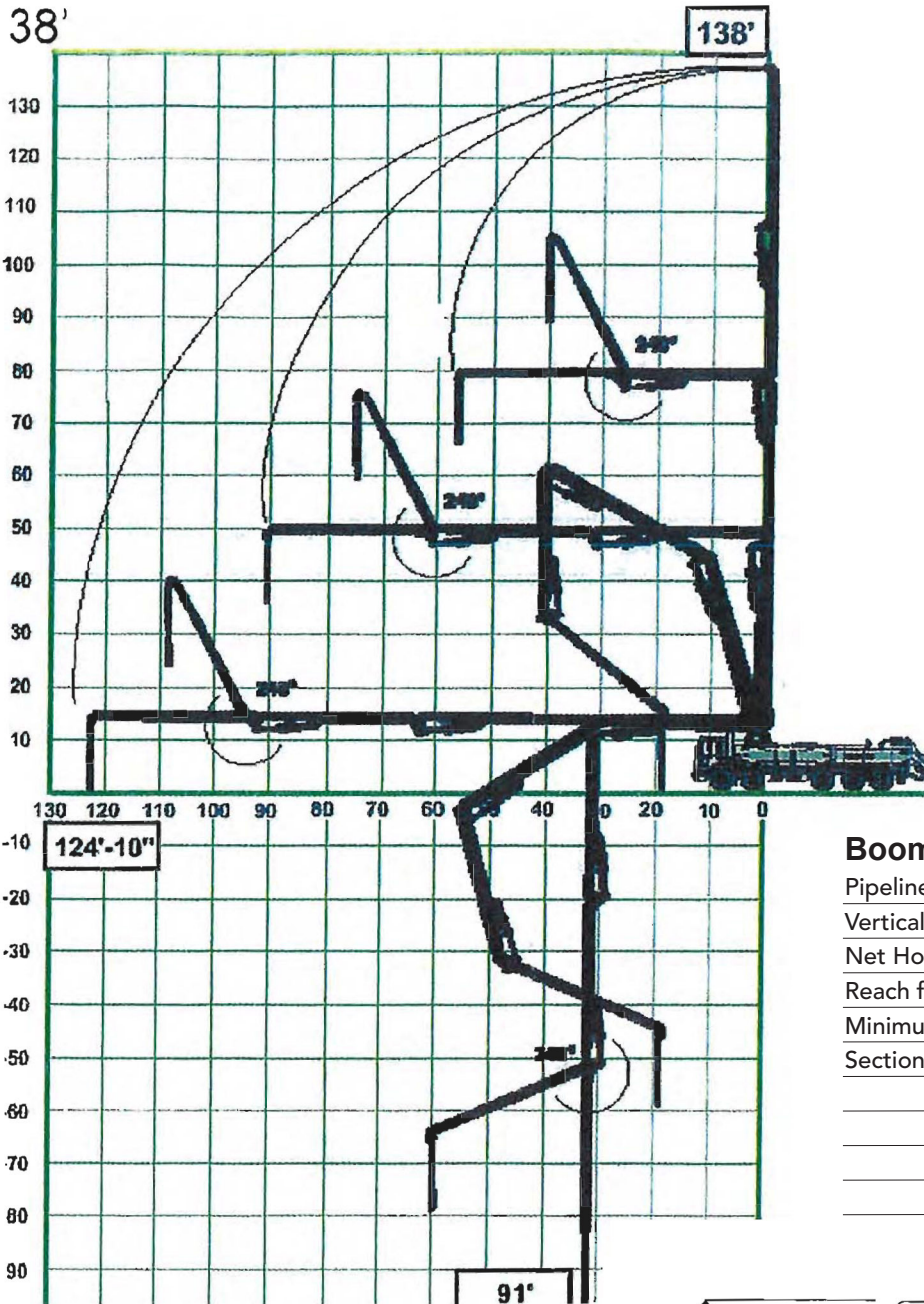
See next page for detachable image.

Continuation **39Z METER**



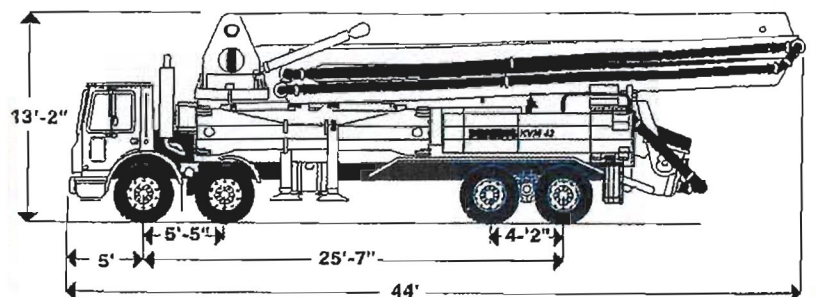


42 METER



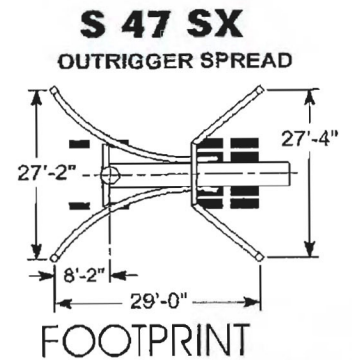
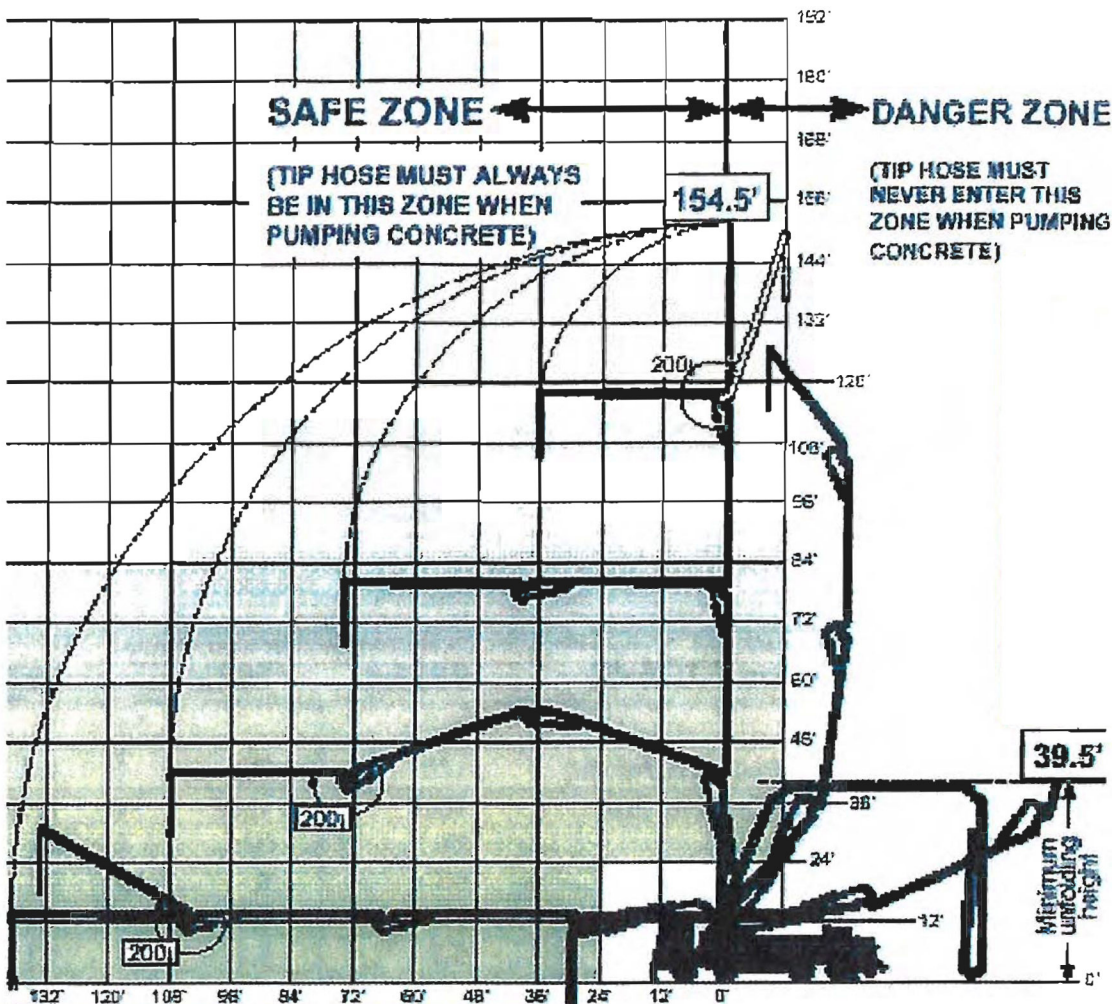
Boom Specifications

	U.S.
Pipeline Diameter	5"
Vertical Reach	138'
Net Horizontal Reach	115'
Reach from Slewing Axis	125'
Minimum Unfolding height	32'11"
Section Length	First Section 33'10"
	Second Section 30'4"
	Third Section 30'4"
	Fourth Section 30'4"



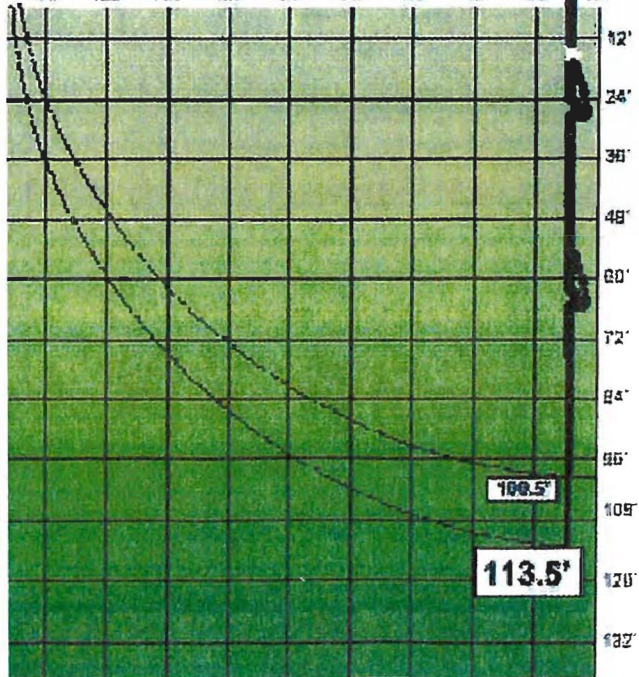


47 METER



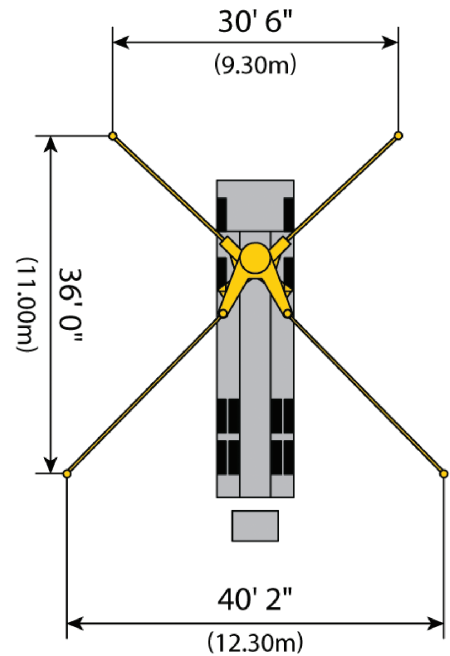
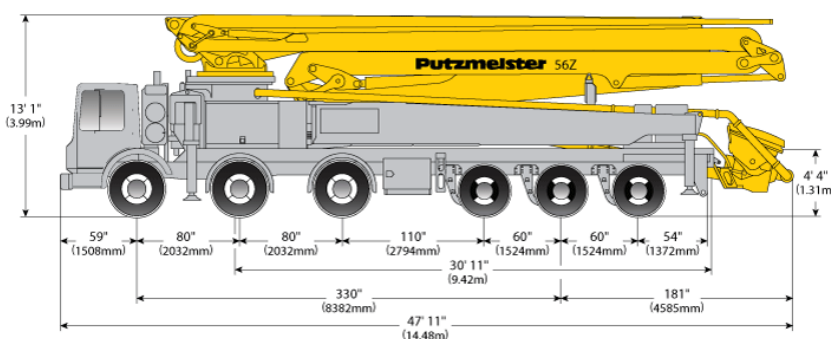
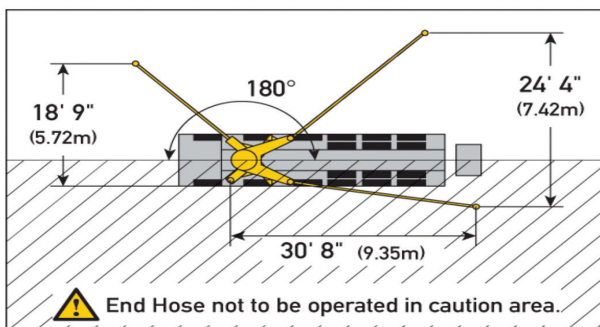
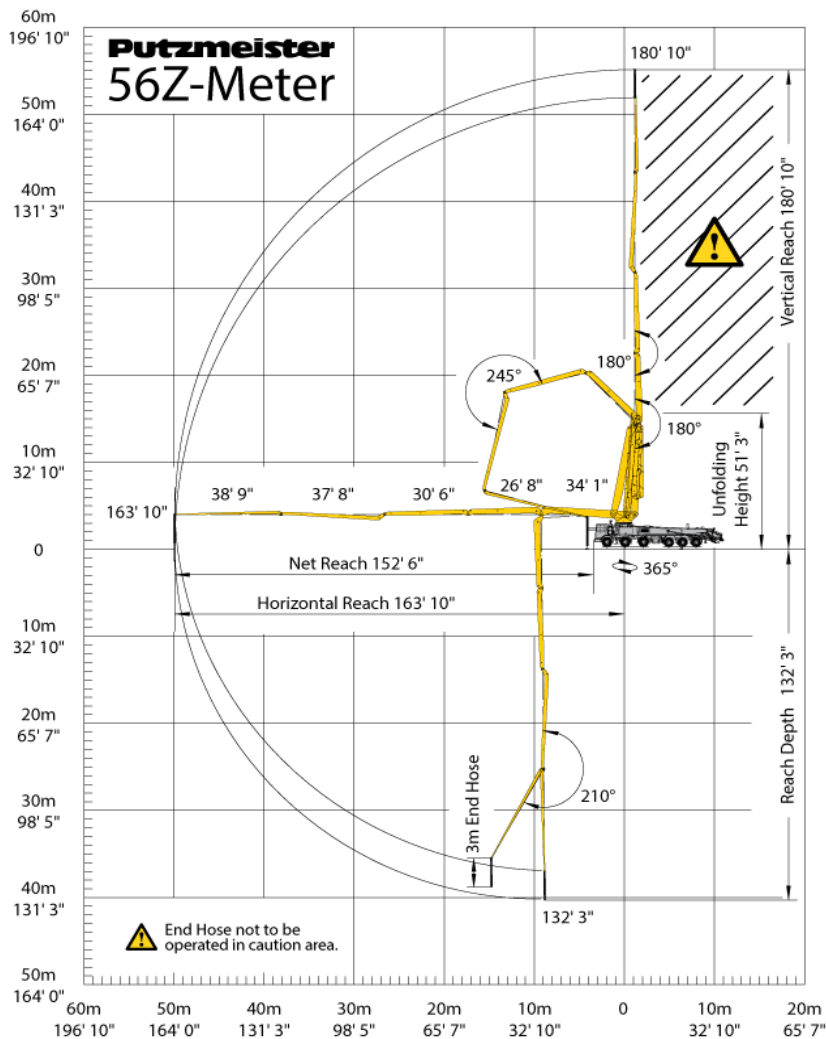
Boom Specifications

	U.S.
Pipeline Diameter	5"
Vertical Reach	154.5'
Reach from Slewing Axle	141.5'
Net Horizontal Reach	129.5'
Unfolding Height	39.5'
Section Length	First Section
	Second Section
	Third Section
	Fourth Section





56Z METER OSS



Boom Section Length

1st section length	34' 1"
2nd section length	26' 8"
3rd section length	30' 6"
4th section length	37' 8"
5th section length	38' 9"

Height & Reach

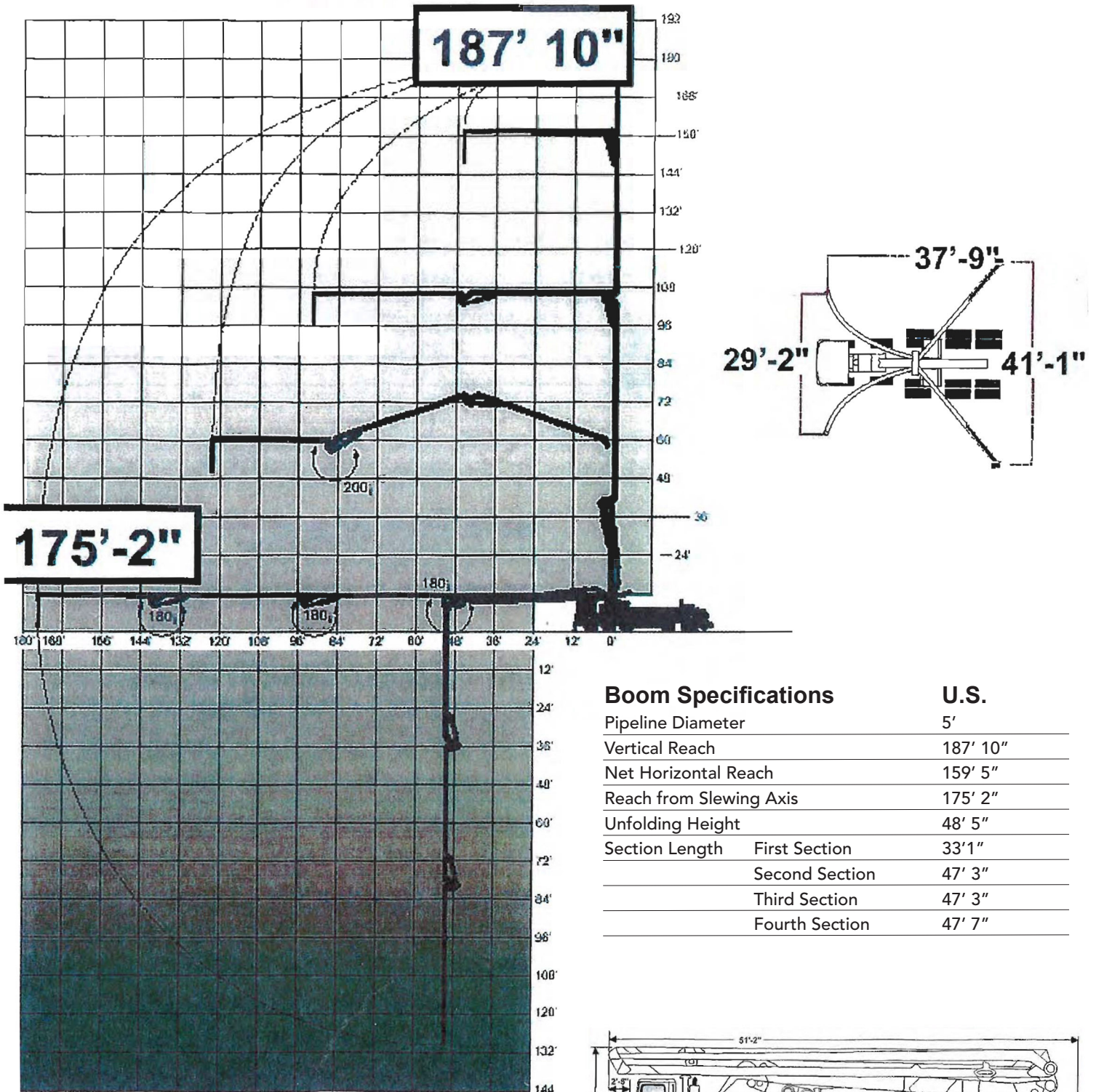
Vertical reach	180' 10"
Horizontal reach	163' 10"
Reach from front of truck	152' 6"
Reach depth	132' 3"
Unfolding height	51' 3"

Outriggers

Outriggers spread: L-R-front hydraulically extended out & down	30' 6"
Outriggers spread: L-R-rear hydraulically swing out & extend down	40' 2"
Outrigger load: Front	69.691lbf
Outrigger load: Rear	66.319lbf
One-Sided Support (OSS) Outriggers	
Safe operational zone	120°
Outrigger spread: L-R-front hydraulically extend out down	19' 4"
Outrigger spread: L-R-rear hydraulically swing out & extend down	27' 6"

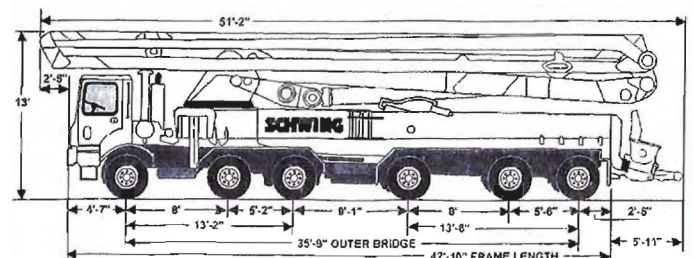


58 METER



Boom Specifications

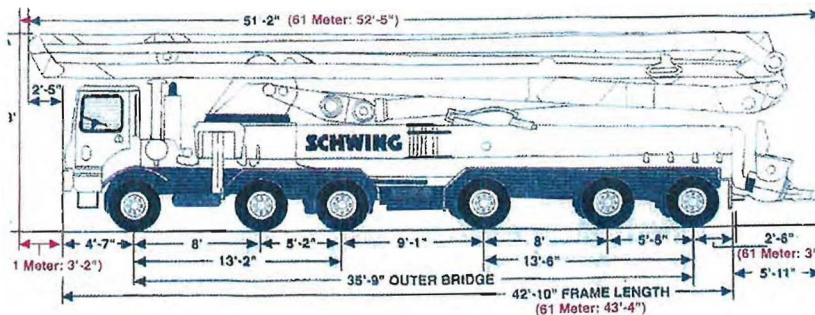
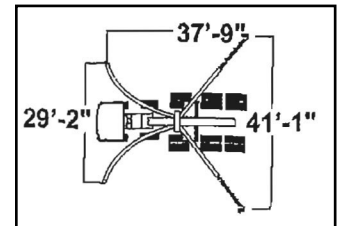
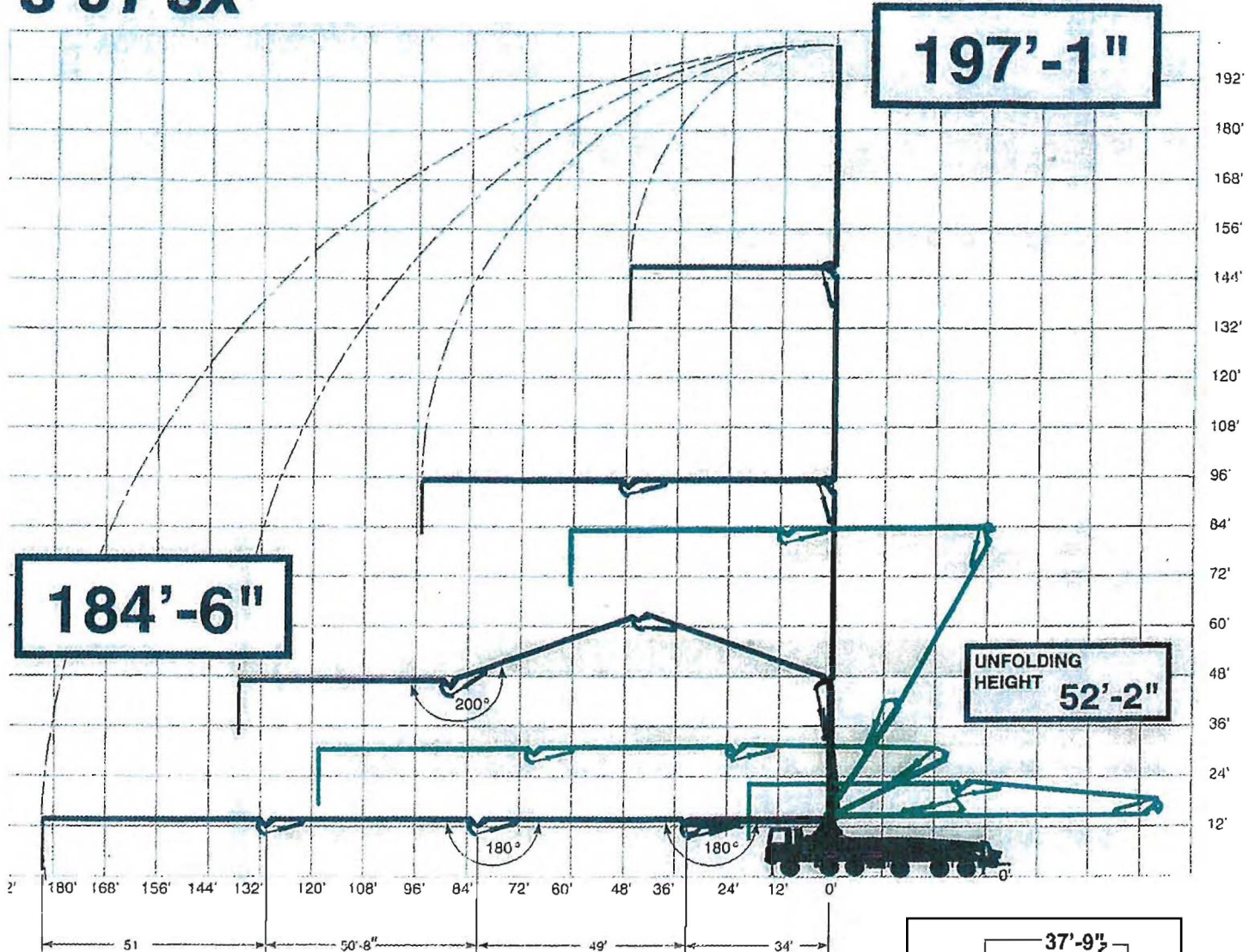
		U.S.
Pipeline Diameter		5'
Vertical Reach		187' 10"
Net Horizontal Reach		159' 5"
Reach from Slewing Axis		175' 2"
Unfolding Height		48' 5"
Section Length	First Section	33' 1"
	Second Section	47' 3"
	Third Section	47' 3"
	Fourth Section	47' 7"





61-METER

S 61 SX

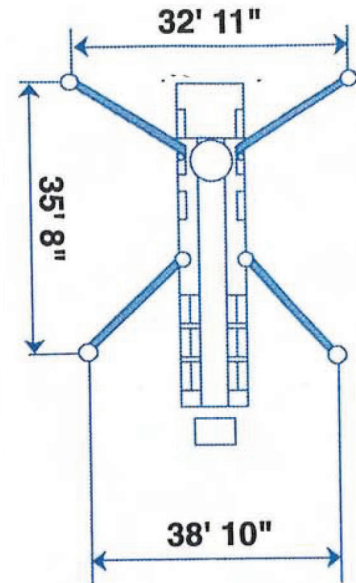
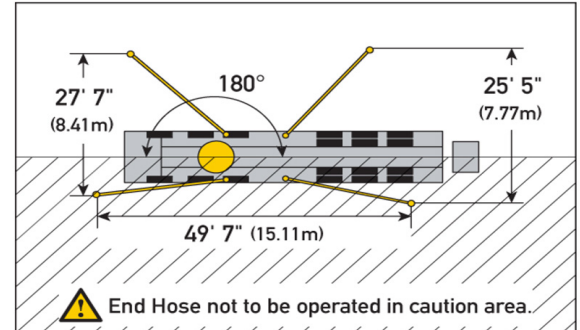
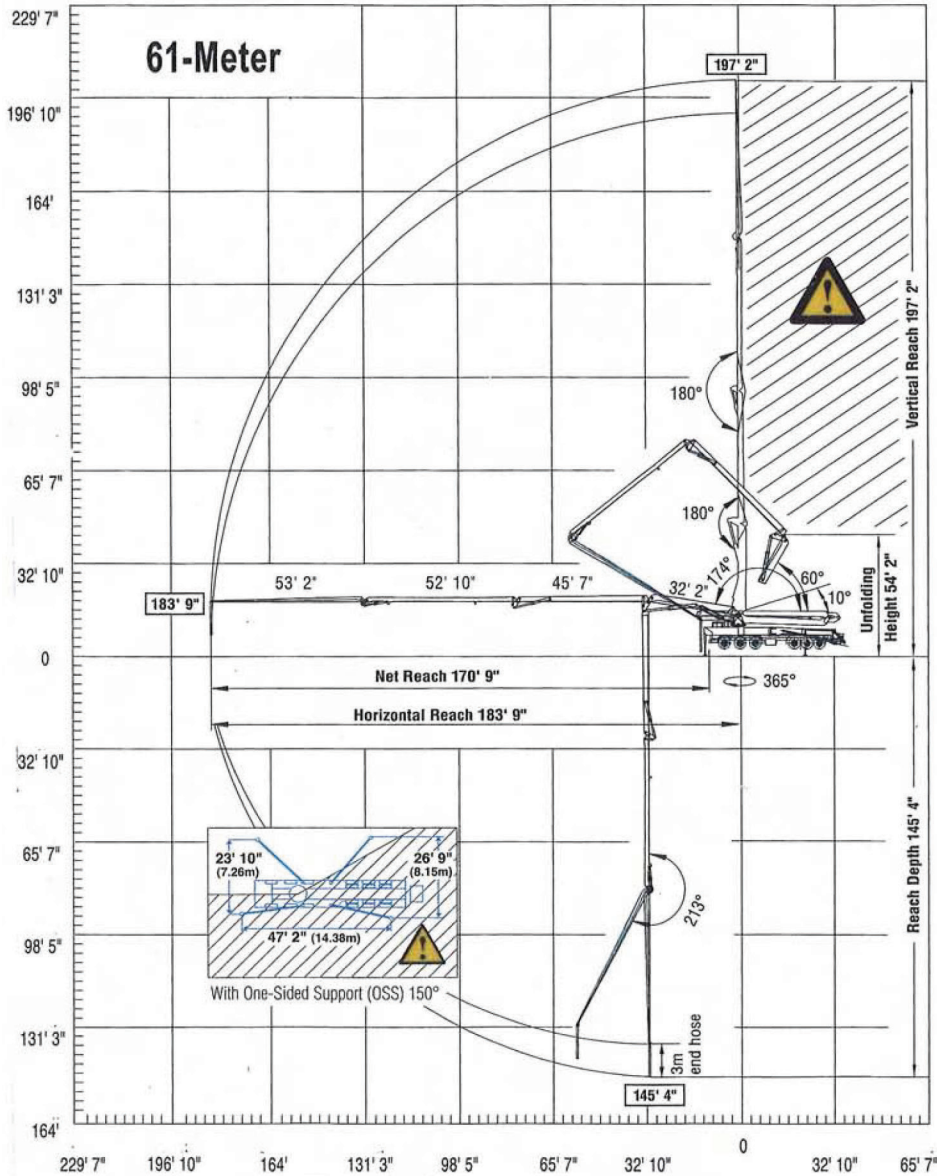


Boom Specifications		58 US	61 US
Pipeline Diameter		5"	4'5"
Vertical Reach		187'10"	197' 2"
Net Horizontal Reach		162' 9"	172' 9"
Horizontal Reach		175'2"	184' 6"
Unfolding Height		48' 6"	52' 3"
Section Length	1st Section	33'1"	34'
	2nd Section	47' 3"	49'
	3rd Section	47' 3"	50' 8"
	4th Section	47' 7"	51'



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Range Diagram



1st section length	32' 2"
2nd section length	45' 7"
3rd section length	52' 10"
4th section length	53' 2"

Height & Reach

Vertical reach	197' 2"
Horizontal reach	183' 9"
Reach from front of truck	170' 9"
Reach depth	145' 4"
Unfolding height	54' 2"

Length	53' 9"
Width	8' 2"
Height	12' 9"
Wheelbase	349"
Front axle weight	56,270 lbs
Rear axle weight	55,870 lbs
Approx. total weight	112,140 lbs

