Hensel Phelps Construction Co, Inc

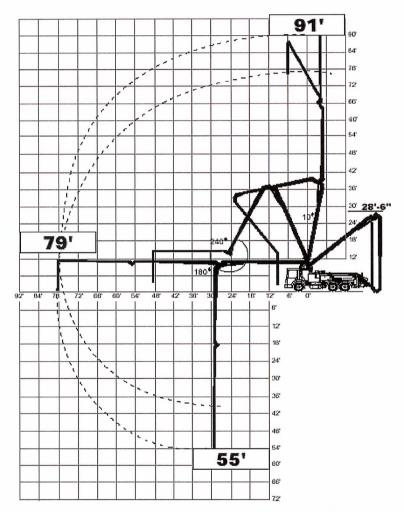
CONTRACTOR: He	6/2014			Phone: 760-58	37-2333
	ensel Phelps Constru			Fax:	
ATTENTION: OS		<u>od</u>	essert@henselphelps	s.com	
PROJECT ADDRESS: 17					
	esa Court - Irvine				
	to quote the following				e above
referenced project	. Prices quoted will r	emain in effect throug	gh Duration of Proje	ect	
		BOOM PU	MPS		
Boom Length	Pump/Hr.	CY/Price	Min.Pump Chg	Vertical Reach	Horizontal Rea
28 Meter	\$50.00	\$1.70	4 HR	92'	79'
20		<u> </u>			
32 Meter	\$55.00	\$1.70	4 HR	106'	93'
34 Meter	\$60.00	\$1.80	5 HR	112'	99'
36 Meter	\$65.00	\$1.80	5 HR	118'	105'
39 Meter	\$75.00	\$2.00	5 HR	127'	114'
42 Meter	\$80.00	\$2.00	5 HR	138'	124'
47 Meter	\$90.00	\$2.00	5 HR	155'	142'
52 Meter	\$110.00	\$2.25	5 HR	158'	146'
55 Meter	\$135.00	\$2.75	5 HR	167'	152'
58 Meter	\$150.00	\$3.00	5 HR	188'	175'
61 Meter	\$170.00	\$3.00	5 HR	197'	185'
	00	NVEYOR BE			
105'	Pump/Hr. \$100.00	CY/Price \$2.25	Min.Pump Chg 5 HR		
130'	\$120.00	\$2.50	5 HR		
Boom Pump Ope			040400		
Operator		6.00 99.00	\$164.00 \$152.00		
Operator Oiler Operators and o		99.00 ur minimum which ind	\$152.00 cludes 1-hour set up	and 1-hour clean up	time and will
Operator Oiler Operators and o	ilers have a 4 & 8 ho	99.00 ur minimum which ind	\$152.00 cludes 1-hour set up	and 1-hour clean up	time and will
Operator Oiler Operators and o	ilers have a 4 & 8 ho	99.00 ur minimum which ind	\$152.00 cludes 1-hour set up	and 1-hour clean up	time and will
Operator Oiler Operators and o be charged in acco Oiler is required	ilers have a 4 & 8 ho	99.00 ur minimum which ind fornia State Labor La	\$152.00 cludes 1-hour set up ws.		
Operator Oiler Operators and o be charged in acco	\$10 ilers have a 4 & 8 hor ordance with the Cali	99.00 ur minimum which ind fornia State Labor La	\$152.00 cludes 1-hour set up ws.		
Operator Oiler Operators and o be charged in acco Oiler is required	\$10 ilers have a 4 & 8 hor ordance with the Cali	99.00 ur minimum which ind fornia State Labor La	\$152.00 cludes 1-hour set up ws.		
Operator Oiler Operators and o be charged in acco Oiler is required	\$10 ilers have a 4 & 8 hor ordance with the Cali	99.00 ur minimum which ind fornia State Labor La	\$152.00 cludes 1-hour set up ws.		
Operator Oiler Operators and o be charged in acco Oiler is required	\$10 ilers have a 4 & 8 hor ordance with the Cali	99.00 ur minimum which ind fornia State Labor La	\$152.00 cludes 1-hour set up ws.		
Operator Oiler Operators and o be charged in acco Oiler is required	\$10 ilers have a 4 & 8 hor ordance with the Cali	99.00 ur minimum which ind fornia State Labor La	\$152.00 cludes 1-hour set up ws.		
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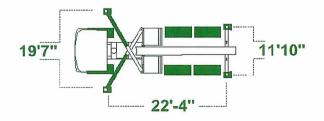
Title: Vice-President

Schwing 28 meter

Technical Information

KVM 28X Boom Chart

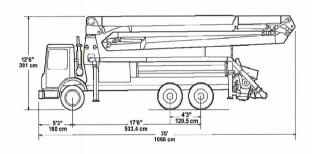




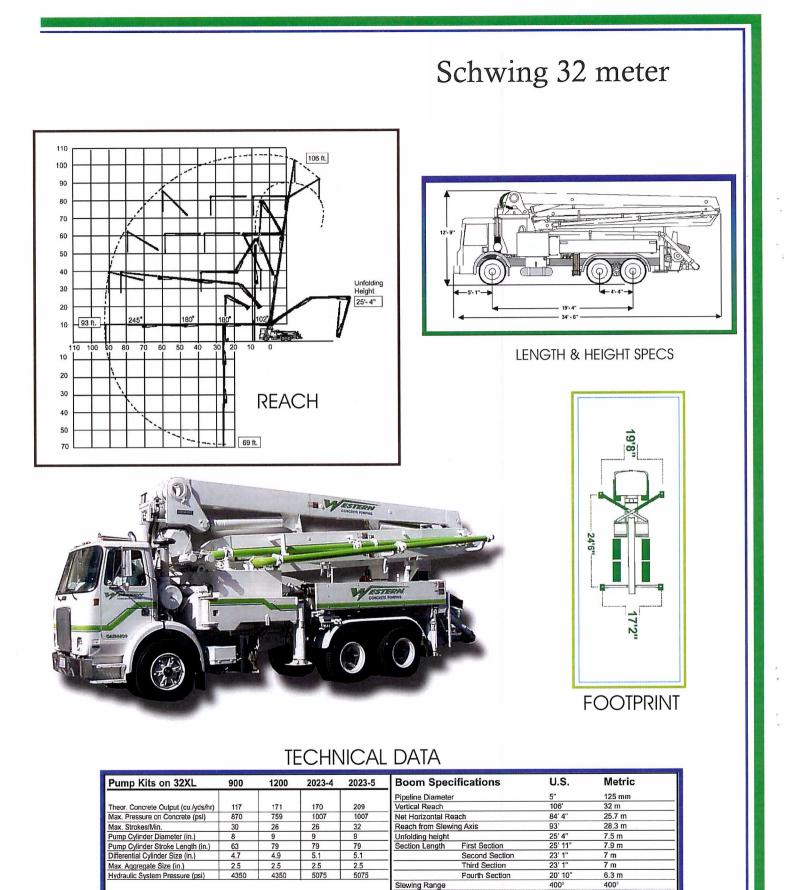
Outrigger Pattern



Vehicle Length & Height



Boom Spec	ifications	U.S.
Pipeline Diameter		5"
Vertical Reach		92'
Net Horizontal Re	ach	73'
Reach from Slew	ng Axis	79'
Unfolding height		28' 1"
Section Length	First Section	28' 3"
	Second Section	26' 7"
	Third Section	23' 9"
Slewing Range		370 [°]
End hose length		12' 6"
Specifications a	re subject to change w	vithout prior notice



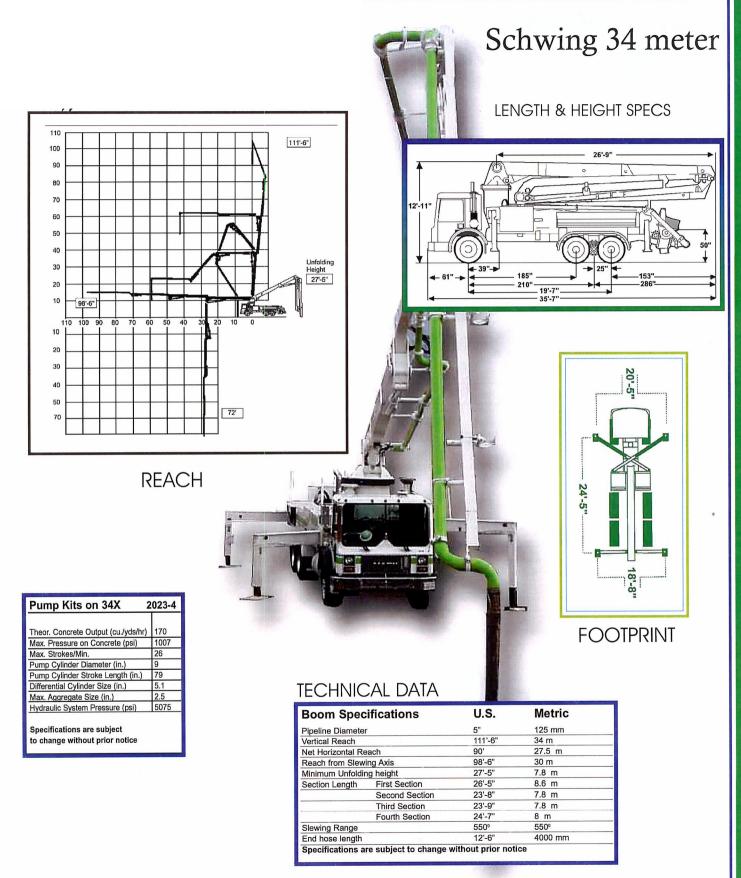
End hose length

12' 6"

Specifications are subject to change without prior notice

4000 mm

Specifications are subject to change without prior notice

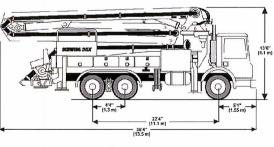


UTILIZING CONCRETE PUMPS THAT ARE THE CUTTING EDGE IN TECHNOLOGY

Schwing 36 meter

Boom Specifications	U.S.	Metri	
Pipeline Diameter (in mm)	5	125	
Vertical Reach (ftin m)	118-	5 36.1	<u>↓</u>
Horizontal Reach (ft m)	104	31.7	FOOTPRINT
Net Horizontal Reach (ft m)	96	29.3	120
Unfolding Height (ftin m)	28-1) 8.8	110
Section Lengths			100
First Section (ftin r	n) 26-1	7.95	90
Second Section (ftin,	-m) 24-1	1 7.6	270 225 170
Third Section (ftin	m) 24-1	1 7.6	
Fourth Section (ftin.	-m) 28-1	8.6	
Slewing Range (degrees)	370°	370 [°]	End hose 12'
End hose length (ft m)	12	3.7	140 185' Liting angle 130
Specifications are subject to change witho SPECIFICATIONS	ut prior notice.	·	
PUMP KIT ON 36 X	2023-5	10	
	U.S.	Metric	Horizontal reach 104' 20
Theor. Concrete Output Per Hour (cubic yards - cubic meters)	178	136	Net Horizontal reach 96'
Maximum Pressure on Concrete (psi - bar)	1233	85	30
Maximum Strokes Per Minute	23	23	40
Pump Cylinder Diameter (in mm)	10	250	
Pump Cylinder Stroke Length (in mm)	79	2000	50
Differential Cylinder Size (in mm)	4.7	120	60
Maximum Aggregate Size (in mm)	2.5	63.5	



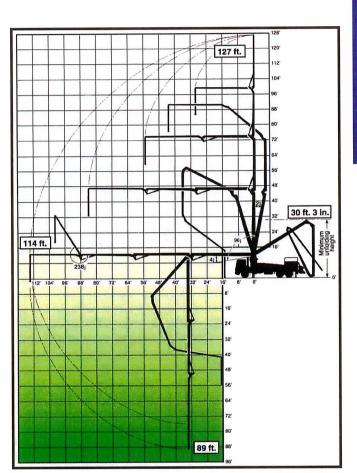


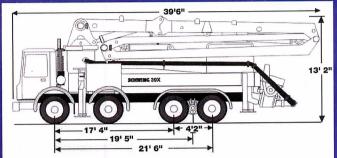
-118' 5"-

-80' 10"-

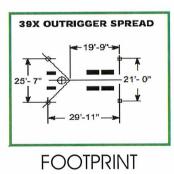
LENGTH & HEIGHT SPECS

Schwing 39 meter



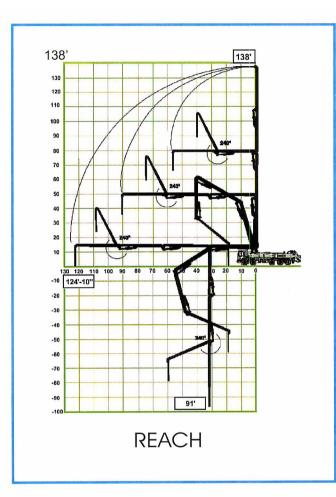


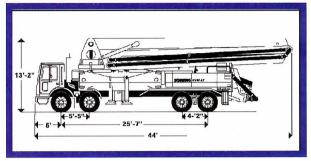
Boom Specifications Pipeline Diameter		U.S.	Metric 125 mm	
		5"		
Vertical Reach		127'	39 m	
Reach from Slewi	ng Axis	114'	35 m	
Net Horizontal Re		105'-2.5"	32 m	
Unfolding height		30'-3"	9.2 m	
Section Length	First Section	30'-7"	9.3 m	
y	Second Section	27'-6"	8.4 m	
	Third Section	27'-6"	8.4 m	
	Fourth Section	27'-2"	8.6 m	
Slewing Range		550°	550°	
End hose length		12' 6"	4 m	





Schwing 42 meter





LENGTH & HEIGHT SPECS TECHNICAL DATA

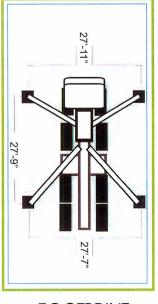
Pump Kits on KVM 42 2023-4 2023-5

Pump Kits on KVM 42	2023-4	2023-5	2023H-6
Theor. Concrete Output (cu./yds/hr)	170	209	182
Max. Pressure on Concrete (psi)	1007	1007	1233
Max. Strokes/Min.	26	32	28
Pump Cylinder Diameter (in.)	9	9	9
Pump Cylinder Stroke Length (in.)	79	79	79
Differential Cylinder Size (in.)	5.1	5.1	4.7
Max. Aggregate Size (in.)	2.5	2.5	2.5
Hydraulic System Pressure (psi)	5075	5075	5075

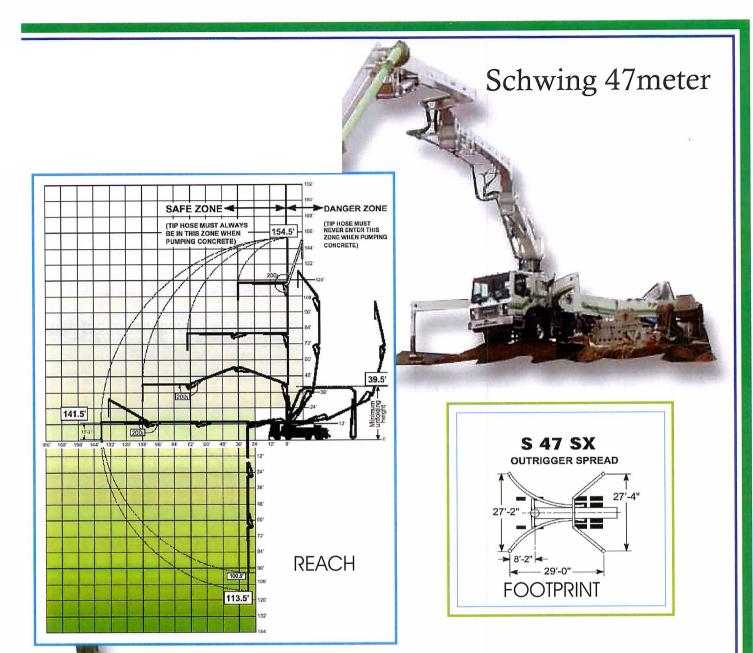
Specifications are subject to change without prior notice

Boom Spec	ifications	U.S.	Metric
Pipeline Diameter		5"	125 mm
Vertical Reach		138'	42 m
Net Horizontal Re	ach	115'	35 m
Reach from Slewi	ng Axis	125'	38 m
/inimum Unfoldir	ig height	32' 11"	10 m
Section Length	First Section	33'10'''	10.3 m
-	Second Section	30'4"	9.24 mm
	Third Section	30'4"	9.24 mm
	Fourth Section	30'4"	9.24 mm
lewing Range		380°	380°
End hose length		12.5	4000 mm





FOOTPRINT





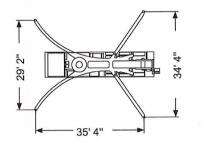
Boom Specifications	U.S.	Met	ric		
Pipeline Diameter	*5"	*112 n	nm		
Vertical Reach		154.5'	47 m		
Reach from Slewing Axis		141.5	43.1 n	n	
Net Horizontal Reach		129.5'	39.5 n	39.5 m	
Unfolding Height		39.5	12 m		
Section Length First Section		27.4	8.35 n	n	
Second Secti	on	38'	11.6 п	1	
Third Section		38'	11.6 n	1	
Fourth Section		38.2'	11.65	m	
				380°	
Slewing Range		380°	380°		
Slewing Range 4.4" End hose length* (coupled one		9'	2.74 п	n	
Slewing Range		9'	2.74 п	2525H-6	
Slewing Range 4.4" End hose length* (coupled one Specifications are subject to charge without prior notice	e. *Tip section pipe	9' line diameter is 4.4	2.74 n 1° or 112 mm		
Slewing Range 4.4" End hose length* (coupled one Specifications are subject to charge without prior notice Pump Kits on S 47 SX	2023-4	9' dine diameter is 4.4 2023-5	2.74 m 1° or 112 mm 2525-5	2525H-6 213 1169	
Slewing Range 4.4° End hose length* (coupled one specifications are subject to charge without prior notice Pump Kits on S 47 SX Theor. Concrete Output (cu./yds/hr)	2023-4 170	9' line diameter is 4.4 2023-5 209	2.74 m 1° or 112 mm 2525-5 181	2525H-6	
Stewing Range 4.4" End hose length* (coupled one specifications are subject to darge without prior notic Pump Kits on S 47 SX Theor. Concrete Output (cu /yds/hr) Max. Pressure on Concrete (psi)	2023-4 170 1007	9' fine diameter is 4.4 2023-5 209 1007	2.74 m " or 112 mm 2525-5 181 1169	2525H-6 213 1169	
Slewing Range 4.4" End hose length* (coupled one spalicaties as ubjet to charge elititet prior notic Pump Kits on S 47 SX Theor. Concrete Output (cu.lydsftr) Max. Pressure on Concrete (psi) Max. StrokeMin.	2023-4 170 1007 26	9' fine diameter is 4.4 2023-5 209 1007 32	2.74 m 1° or 112 mm 2525-5 181 1169 18	2525H-6 213 1169 22	
Slewing Range 4.4" End hose length' (coupled one Specificates are subject to charge without prior notice Pump Kits on S 47 SX Theor. Concrete Output (cu./yds/hr) Max. Strokes/Mn. Max. Strokes/Mn. Pump Cylinder Dameler (in.)	2023-4 170 1007 26 9	9' fine diameter is 4.4 2023-5 209 1007 32 9	2.74 m 1° or 112 mm 2525-5 181 1169 18 10	2525H-6 213 1169 22 10	
Stewing Range 4.4° End hose length' (coupled on: spadicates ar utjet to charge without pire noto Pump Kits on S 47 SX Theor: Concrete Output (ou./ydsftr) Max. Pressure on Concrete (psi) Max. StrokesrMin. Pump Cylinder Dianeter (in.) Pump Cylinder Dianeter (in.)	2023-4 170 1007 26 9 79	9' line diameter is 4.4 2023-5 209 1007 32 9 79	2.74 m " or 112 maa 2525-5 181 1169 18 10 98	2525H-6 213 1169 22 10 98	

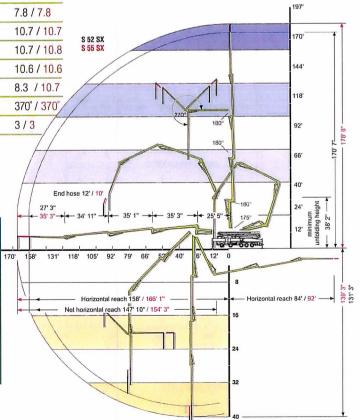
Schwing 52meter

SPECIFICATIONS

Pump Kit on S 52 SX / S 55 SX	2525H-6 120/85 MPS		
	U.S.	Metric	
Theor. Concrete Output Per Hour (cubic yards - cubic meters)	213	163	
Maximum Pressure on Concrete (psi - bar)	1169	81	
Maximum Strokes Per Minute	22	22	
Pump Cylinder Diameter (in mm)	10	250	
Pump Cylinder Stroke Length (in mm)	98	2500	
Differential Cylinder Size (in mm)	4.7	120	
Maximum Aggregate Size (in mm)	2.5	63.5	

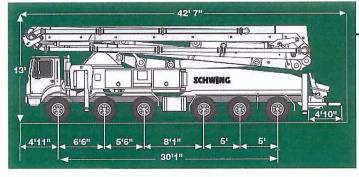
Boom Specifications	S 52 SX / S	5 SX
	U.S.	Metric
Pipeline Diameter (in mm)	5/4.5	125 / 11 <mark>2</mark>
Vertical Reach (ftin m)	170-7 / 178-8	52 / <mark>54</mark> .5
Horizontal Reach (ftin m)	158 / 1 <mark>6</mark> 6-1	48.2 / 50.6
Net Horizontal Reach (ft m)	146 / 154	44.5 / 47
Unfolding Height (ftin m)	38-2 / 38-2	11.7 / 11.7
Section Lengths		
First Section (ftin m)	25-5 / 25-5	7.8 / 7.8
Second Section (ftin m)	35-3 / 35-3	10.7 / 10.7
Third Section (ftin m)	35-1 / 35-1	10.7 / 10.8
Fourth Section (ftin m)	34-11 / 34-11	10.6 / 10.6
Fifth Section (ftin m)	27-3 / 35-3	8.3 / 10.7
Slewing Range (degrees)	370° / 370°	370° / 370°
End hose length (ft m)	10/10	3/3
NAME AND ADDRESS OF ADDRE		/ /



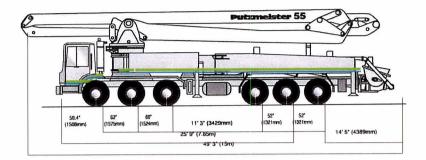


Slewing End hos

Specifications are subject to change without prior notice.



55 Meter Specifications



Truck-Mounted Specifications

Putzmeister 55 meter

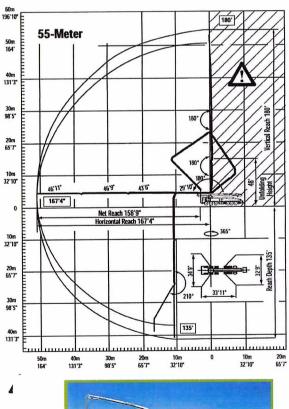
Ba	Based on Model MACK MR6885			
Length	49' 3"	(15.00m)		
Width	8' 2"	(2.50m)		
Height	12'11"	(3.94m)		
Wheelbase	309"	(7,849mm)		
Front axle weight	53,395 lbs	(24,217kg)		
Rear axle weight	51,540 lbs	(23.375kg)		
Approx. total weight	104,935 lbs	(47,592kg)		

Weights are approximate and include pump, boom, truck, full hydraulic oil, driver and some fuel. Varies with options selected.

Dimensions will vary with different truck makes, models and specifications.

Boom Specifications • Roll and Fold Design

Height & Reach Vertical reach Horizontal reach Reach from front of truck* Reach depth Unfolding height		180' 167'4" 158'9" 135' 48'	(54.8 (51.0 (48.4 (41.1 (14.6	10m) 10m) 15m)
4-Section Boom 1st section articulation 2nd section articulation 3rd section articulation 4th section articulation				180' 180' 180' 210'
1st section length 2nd section length 3rd section length 4th section length		29'10" 43'6" 46'9" 46'11"	(13.2	25m)
General Specifications Pipeline size (ID) metric e with couplings (133x4mr Rotation		5" 5.5"	(140	mm) mm) 365*
End hose-length (heavy d	uty)	13'		(4m)
End hose-diameter		5"		mm)
Outrigger spread L-R-from	nt	34'9"	(10.6	60m)
swing out & telescope Outrigger spread L-R-rea swing out	ır	32'9"	(9.9	98m)
9				
Pump Specification	s 55	.16H	55	.20H
Pump Specification Output- rod side piston side	210 yd ³ /hr 146 yd ³ /hr	(160m ³ /hr) (112m ³ /hr)		. 20H (200m ^{3/hr)}
Pump Specification Output- rod side piston side Pressure-rod side	210 yd ³ /hr 146 yd ³ /hr 1233 psi	(160m ³ /hr) (112m ³ /hr) (85 bar)	260 yd ³ /hr —	(200m ³ /hr)
Pump Specification Output- rod side piston side Pressure-rod side piston side	210 yd ³ /hr 146 yd ³ /hr 1233 psi 1885 psi•	(160m ³ /hr) (112m ³ /hr) (85 bar) (130 bar)•	260 yd ³ /hr 	(200m ³ /hr) (85 bar)•
Pump Specification Output- rod side piston side Pressure-rod side piston side Concrete cylinder dia.	210 yd ³ /hr 146 yd ³ /hr 1233 psi 1885 psi• 9"	(160m ³ /hr) (112m ³ /hr) (85 bar) (130 bar)• (230mm)	260 yd ³ /hr 1233 psi• 11"	(200m ³ /hr) (85 bar)• (280mm)
Pump Specification Output- rod side piston side Pressure-rod side piston side Concrete cylinder dia. Stroke length	210 yd ³ /hr 146 yd ³ /hr 1233 psi 1885 psi•	(160m ³ /hr) (112m ³ /hr) (85 bar) (130 bar)•	260 yd ³ /hr 	(200m ³ /hr) (85 bar)•
Pump Specification Output- rod side piston side Pressure-rod side piston side Concrete cylinder dia. Stroke length Max strokes per minute-	210 yd ³ /hr 146 yd ³ /hr 1233 psi 1885 psi• 9"	(160m ³ /hr) (112m ³ /hr) (85 bar) (130 bar)• (230mm) (2100mm)	260 yd ³ /hr 1233 psi• 11"	(200m ³ /hr) (85 bar)• (280mm)
Pump Specification Output- rod side piston side Pressure-rod side piston side Concrete cylinder dia. Stroke length Max strokes per minute- rod side	210 yd ³ /hr 146 yd ³ /hr 1233 psi 1885 psi• 9"	(160m ³ /hr) (112m ³ /hr) (85 bar) (130 bar)- (230mm) (2100mm) 31	260 yd ³ /hr 1233 psi• 11"	(200m ³ /hr) (85 bar)• (280mm) (2100mm)
Pump Specification Output- rod side piston side Pressure-rod side piston side Concrete cylinder dia. Stroke length Max strokes per minute- rod side piston side	210 yd ³ /hr 146 yd ³ /hr 1233 psi 1885 psi• 9"	(160m ³ /hr) (112m ³ /hr) (85 bar) (130 bar)- (230mm) (2100mm) 31 21	260 yd ³ /hr 1233 psi• 11"	(200m ³ /hr) (85 bar)• (280mm)
Pump Specification Output- rod side piston side Pressure-rod side piston side Concrete cylinder dia. Stroke length Max strokes per minute- rod side piston side Volume control	210 yd ³ /hr 146 yd ³ /hr 1233 psi 1885 psi• 9"	(160m ³ /hr) (112m ³ /hr) (85 bar) (130 bar)• (230mm) (2100mm) 31 21 0-Full	260 yd ³ /hr 1233 psi• 11"	(200m ³ /hr) (85 bar)• (280mm) (2100mm) 28 0-Full
Pump Specification Output- rod side piston side Pressure-rod side piston side Concrete cylinder dia. Stroke length Max strokes per minute- rod side piston side Volume control Vibrator	210 yd ³ /hr 146 yd ³ /hr 1233 psi 1885 psi• 9" 83"	(160m ³ /hr) (112m ³ /hr) (85 bar) (130 bar)• (230mm) (2100mm) 31 21 0-Full Standard	260 yd ³ /hr 1233 psi• 11"	(200m ³ /hr) (85 bar)• (280mm) (2100mm) 28
Pump Specification Output- rod side piston side Pressure-rod side piston side Concrete cylinder dia. Stroke length Max strokes per minute- rod side piston side Volume control Vibrator Hard chromed concrete cylinder	210 yd ³ /hr 146 yd ³ /hr 1233 psi 1885 psi• 9" 83"	(160m ³ /hr) (112m ³ /hr) (85 bar) (130 bar)- (230mm) (2100mm) 31 21 0-Full Standard Standard	260 yd ³ /hr 1233 psi• 11"	
Pump Specification Output- rod side piston side Pressure-rod side piston side Concrete cylinder dia. Stroke length Max strokes per minute- rod side piston side Volume control Vibrator Hard chromed concrete cyli	210 yd ³ /hr 146 yd ³ /hr 1233 psi 1885 psi• 9" 83"	(160m ³ /hr) (112m ³ /hr) (85 bar) (130 bar)- (230mm) (2100mm) 31 21 0-Full Standard Standard Free Flow	260 yd ³ /hr — 1233 psi• 11" 83"	
Pump Specification Output- rod side piston side Pressure-rod side piston side Concrete cylinder dia. Stroke length Max strokes per minute- rod side piston side Volume control Vibrator Hard chromed concrete cyl Hydraulic system Hyd. system pressure	210 yd ³ /hr 146 yd ³ /hr 1233 psi 1885 psi• 9" 83"	(160m ³ /hr) (112m ³ /hr) (85 bar) (130 bar)- (230mm) (2100mm) 31 21 0-Full Standard Standard	260 yd ³ /hr 1233 psi• 11"	
Pump Specification Output- rod side piston side Pressure-rod side piston side Concrete cylinder dia. Stroke length Max strokes per minute- rod side piston side Volume control Vibrator Hard chromed concrete cyli	210 yd ³ /hr 146 yd ³ /hr 1233 psi 1885 psi• 9" 83" linders 5075 psi	(160m ³ /hr) (112m ³ /hr) (85 bar) (130 bar)- (230mm) (2100mm) 31 21 0-Full Standard Standard Free Flow (350 bar)	260 yd ³ /hr 	
Pump Specification Output- rod side piston side Pressure-rod side piston side Concrete cylinder dia. Stroke length Max strokes per minute- rod side piston side Volume control Vibrator Hard chromed concrete cyl Hydraulic system Hyd. system pressure Differential cylinder dia. Rod diameter	210 yd ³ /hr 146 yd ³ /hr 1233 psi 1885 psi 9" 83" linders 5075 psi 5 5"	(160m ³ /hr) (112m ³ /hr) (85 bar) (130 bar)• (230mm) (2100mm) 31 21 0-Full Standard Free Flow (350 bar) (140mm)	260 yd ³ /hr 1233 psi• 11" 83" 5075 psi 5.5"	(200m ³ /hr) (85 bar)• (280mm) (2100mm)
Pump Specification Output- rod side piston side Pressure-rod side piston side Concrete cylinder dia. Stroke length Max strokes per minute- rod side piston side Volume control Vibrator Hard chromed concrete cyl Hydraulic system Hyd. system pressure Differential cylinder dia.	210 yd ³ /hr 146 yd ³ /hr 1233 psi 1885 psi 9" 83" linders 5075 psi 5" 1"	(160m ³ /hr) (112m ³ /hr) (85 bar) (130 bar)• (230mm) (2100mm) 31 21 0-Full Standard Standard Free Flow (350 bar) (140mm) (80mm)	260 yd ³ /hr 1233 psi• 11" 83" 5075 psi 5.5" 3.1"	(200m ³ /hr) (85 bar)• (280mm) (2100mm)



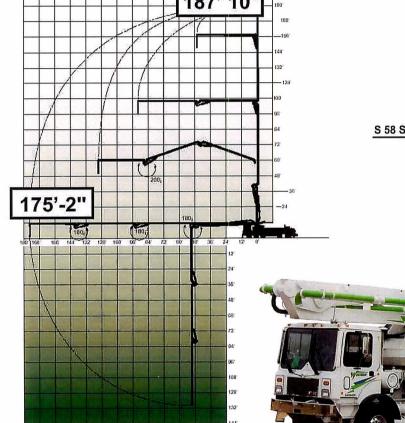


Maximum theoretical values listed

58 METER

		Pump Kits on S 58 SX	2525H-5	2525H-6
		Theor. Concrete Output (cu./yds/hr)	101	213
		Max. Pressure on Concrete (psi)	181 1169	213
		Max. Strokes/Min.	18	22
		Pump Cylinder Diameter (in.) Pump Cylinder Stroke Length (in.)	10 98	10 98
		Differential Cylinder Size (in.)	4.7	4.7
		Max. Aggregate Size (in.)	2.5 5075	2.5 5075
		Hydraulic System Pressure (psi)	5075	50/5
om (Chart	Specifications are subject to change w	vithout prior notice	
		Boom Specifications	U.S.	Metric
		Pipelíne Diameter Vertical Reach	5" 187' - 10"	125 mm
1		Net Horizontal Reach	159' - 5"	57.24 m 48.6 m
	187' 10"	Reach from Slewing Axis	175' - 2*	53.4 m
		Unfolding Height Section Length First Section	48' -5" 33' - 1"	14.8 m 10.8 m
		Second Section	47' - 3"	14.4 m
-		Third Section	47' - 3"	14.4 m
	144	Fourth Section Slewing Range	47' - 7" 370"	14.4 m 370°
		End hose length	10'	3 m
		Specifications are subject to change	ge without prior not	lice
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	35'-9" OUTER BRIDGE		5'-11" ->	
	42'-10"	FRAME LENGTH		
	42-10			

S 58 SX Booi



61 METER



Boom Specifications		58 US	61 US 4.5"	58 metric 125 mm	61 Metric 112 mm
Net Horizontal Reach		162'-9"	172'-9"	49.6 m	52.7 m
Horizontal Reach		175'-2"	184'-6"	53.4 m	56.4 m
Unfolding Height		48'-6"	52'-3"	14.8 m	15.9 m
Section Length	1st Section	33'-1"	34'	10 m	10.4 m
	2nd Section	47'-3"	49'	14.4 m	14.9 m
	3rd Section	47'-3"	50'-8"	14.4 m	15.4 m
	4th Section	47 -7"	51'	14.5 m	15.5 m
Slewing Range		370	370	370°	370
End hose length		10'	10	3 m	3 m

