

SPT499



HENAN SPT MACHINERY
EQUIPMENT CO., LTD.

Mini Crawler Crane (Spider Crane)

SPT Brand Spider Crane - Benchmarking
the World's Highest Standard

Intelligent, safe and more durable

SPT499



Max lifting height 17.5m

Capacity 5.0t×3.0m



Weight 5900kg

Working radius 16.50m

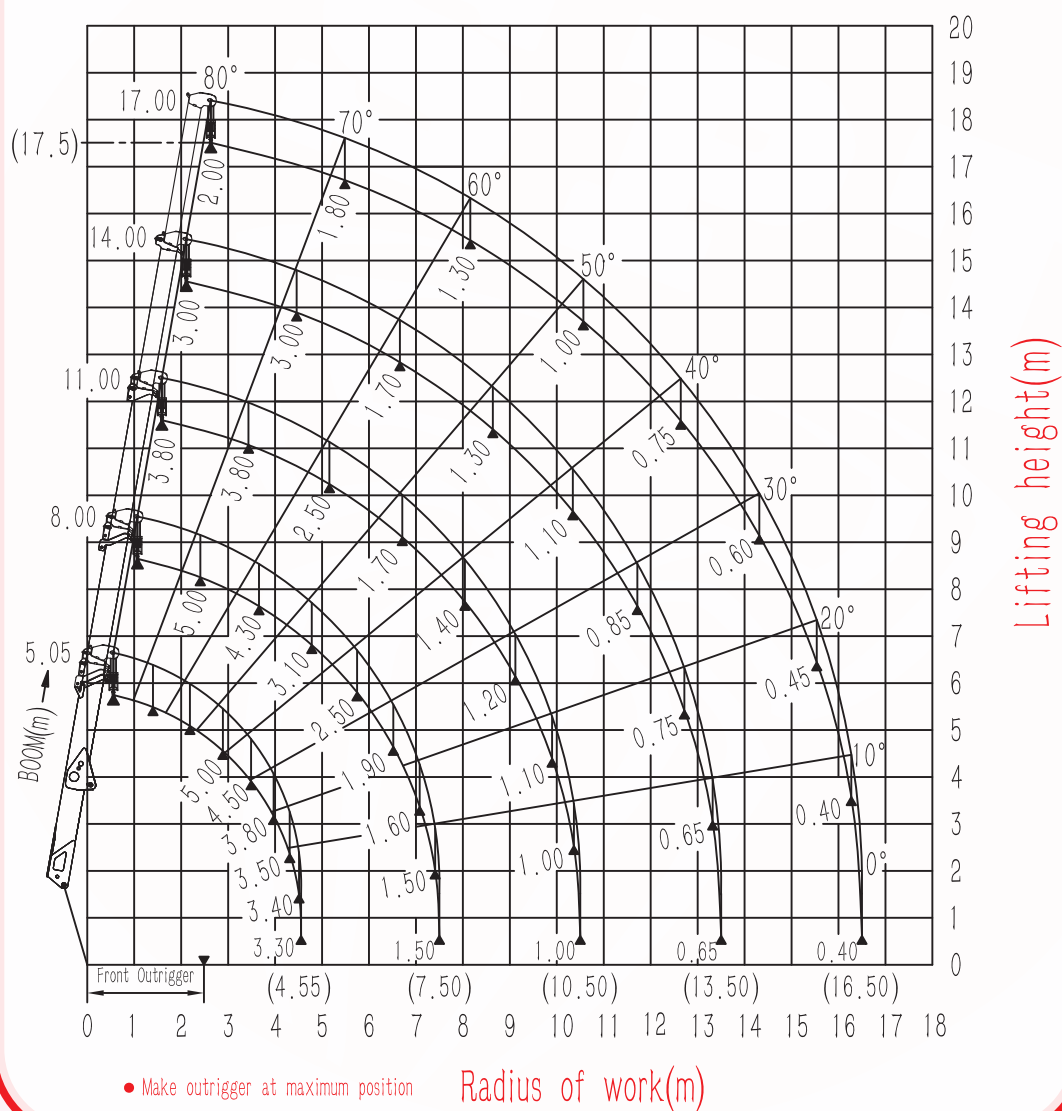
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Working Range Diagram Without Fly Jib

SPT499 Working Range Diagram

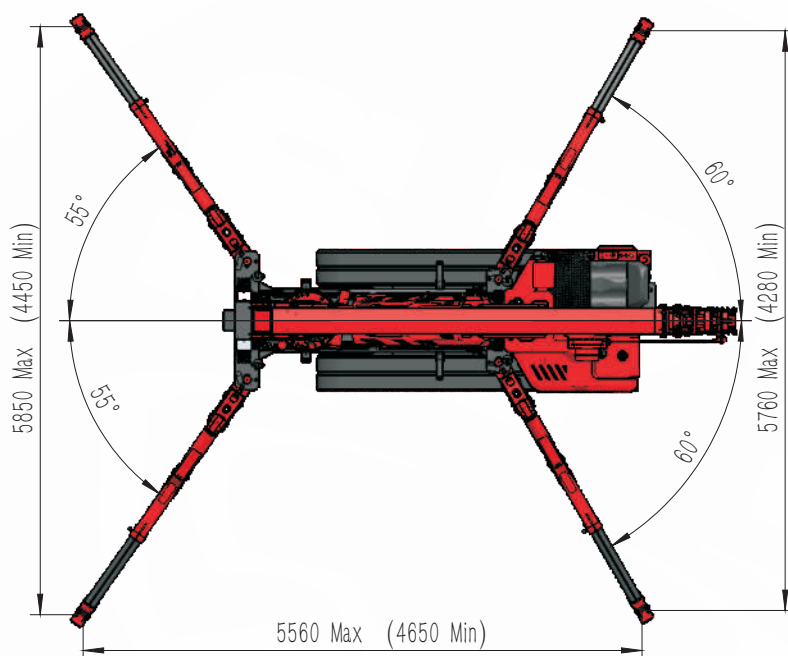
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Weight: T



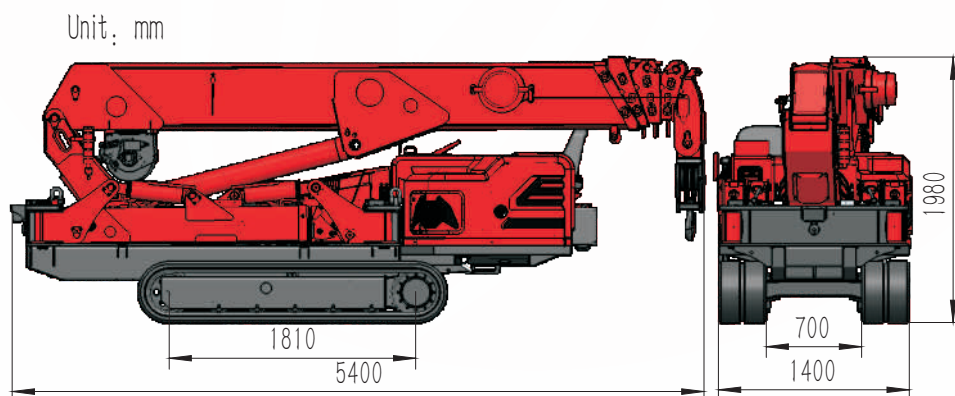
SPT499



Outrigger Footprints



Dimensions



SPT499



Specifications

Model		SPT499
Capacity		5.0t × 3.0m
Working radius		16.50m × 0.40t
Ground lifting height		17.5m × 2.0t
Underground lifting height		17.5m—4 fall 35m—2 fall 70m—1 fall
Winch device	Hook speed	0—14m/min （ 4 fall ）
	Rope type	Φ10mm × 80m
Telescopic system	Boom form	5 section boom, hexagonal box construction
	Boom length/Time	5.05m—17.00m/45sec
Up and downs	Boom angle/Time	0—80° /18sec
Slew system	Slew angle/Speed	0—360° （ continuous ） /30sec
Outrigger	Outrigger active form	Manual+Hydraulic
	Maximum extended dimensions (mm)	5560 （ Length ） X5850 （ Front ） X5760 （ Back ）
Traction system	Walking way	Hydraulic motor drive 、 2 speed
	Walking speed	0—2.5km/h
	Grade ability	20° （ 36% ）
	Ground length × width	1810mm × 350 mm
	Ground pressure	44kpa （ 0.45 kgf / cm² ）
Electric motor	Voltage	AC380V （ Optional ）
	Power/Speed	7.5kw/1440 min—1
	Sound level	Rated speed ≤78dB （ A ） （ 1m ）
Diesel engine	Model	3TNV80F （ YANMAR ）
	Type/Displacement	3 Cylinder water cooled/1.266L
	Rated output	14.6kw/2400 min—1
	Starting method	Electric
	Operating temperature	—5° C~40° C
	Fuel/Volume	Diesel/40L
	Battery capacity	12v 45AH
	Specific fuel consumption	272g/kW—h
	Sound Level	Rated speed ≤84dB （ A ） （ 1m ）
	Applied regulation/Altitude	EPA—Tier4, EC stage V/1200m
Operate system	Type of operation	Wireless remote control and Dual axis joystick controller
	Operating characteristic	Full proportional control
Dimension	Length × Width × Height	5400mm × 1400mm × 1980mm
Weight	（ Without optional equipment ）	5900kg
Standard configuration	Diesel engine, Electric motor, Radio remote control, Searcher hook, Black rubber track,Intelligent display screen, Moment limiter, Over hoist alarm and automatic stop device, Three—winding alarm and automatic stop device, Automatic hook stow, Outrigger position detector device, Outrigger off the ground alarm and automatic stop device, Slinging rope detachment protector, EMO switch, Three color lamp, Remote control lamp, Voice prompt, Walking/Outrigger/Boom three—mode interlocksystem, Data records	
Optional configuration	Glass suction, White rubber track, Manual fly jib, Hydraulic fly jib, Single—man basket, Outrigger pads	

■ Total rated load Outriggers at Maximum position(4fall)

Working radius (m)	Total rated load (t)				
	5.05吊臂	8.00吊臂	11.00吊臂	14.00吊臂	17.00吊臂
2.50	5.00	5.00	3.80	3.00	——
3.00	5.00	5.00	3.80	3.00	2.00
3.50	4.50	4.50	3.80	3.00	2.00
4.00	3.80	3.80	3.80	3.00	2.00
4.55	3.30	3.30	3.30	3.00	2.00
5.00		2.80	2.80	2.80	2.00
6.00		2.20	2.20	2.20	1.70
7.00		1.60	1.60	1.60	1.60
7.50		1.50	1.50	1.50	1.50
8.00			1.40	1.40	1.40
9.00			1.20	1.20	1.20
10.00			1.10	1.10	1.10
10.50			1.00	1.00	1.00
11.00				0.90	0.90
12.00				0.80	0.80
13.00				0.70	0.70
13.50				0.65	0.65
14.00					0.60
15.00					0.50
16.00					0.45
16.50					0.40

SPT499 loading chart of outriggers at the max. position (other positions)- 4 fall

working radius (m)	loading chart (t)									
	5.05 boom		8.00 boom		11.00 boom		14.00 boom		17.00 boom	
	other	Max.	other	Max.	other	Max.	other	Max.	other	Max.
2.50	5.00	5.00	5.00	5.00	3.20	3.20	2.40	2.40	—	—
3.00	5.00	5.00	4.00	4.00	3.20	3.20	2.40	2.40	1.30	1.30
3.50	4.00	4.50	3.30	3.30	3.20	3.20	2.40	2.40	1.30	1.30
4.00	3.00	3.80	3.00	3.00	3.00	3.00	2.40	2.40	1.30	1.30
4.55	2.50	3.00	2.50	2.70	2.50	2.70	2.10	2.40	1.30	1.30
5.00			2.00	2.50	2.00	2.20	1.80	2.20	1.10	1.30
6.00			1.50	2.00	1.50	1.90	1.20	1.60	0.90	1.00
7.00			1.00	1.60	0.90	1.60	0.85	1.40	0.75	0.90
7.50			0.80	1.50	0.80	1.40	0.75	1.30	0.60	0.80
8.00					0.75	1.20	0.70	1.20	0.55	0.75
9.00					0.60	1.00	0.55	1.10	0.50	0.70
10.00					0.50	0.75	0.50	0.95	0.45	0.65
10.50					0.45	0.70	0.45	0.90	0.40	0.65
11.00							0.40	0.70	0.40	0.60
12.00							0.35	0.65	0.35	0.55
13.00							0.30	0.50	0.30	0.50
13.50							0.30	0.50	0.25	0.45
14.00									0.25	0.40
15.00									0.20	0.35
16.00									0.15	0.35
16.50									0.10	0.30

SPT499 loading chart of outriggers at the max. position (other positions)- 2fall

working radius (m)	loading chart (t)									
	5.05 boom		8.00 boom		11.00 boom		14.00 boom		17.00 boom	
	other	Max.	other	Max.	other	Max.	other	Max.	other	Max.
2.50	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	—	—
3.00	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	1.30	1.30
3.50	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	1.30	1.30
4.00	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	1.30	1.30
4.55	2.40	2.40	2.40	2.40	2.40	2.40	2.10	2.40	1.30	1.30
5.00			2.00	2.40	2.00	2.20	1.80	2.20	1.10	1.30
6.00			1.50	2.00	1.50	1.90	1.20	1.60	0.90	1.00
7.00			1.00	1.60	0.90	1.60	0.85	1.40	0.75	0.90
7.50			0.80	1.50	0.80	1.40	0.75	1.30	0.60	0.80
8.00					0.75	1.20	0.70	1.20	0.55	0.75
9.00					0.60	1.00	0.55	1.10	0.50	0.70
10.00					0.50	0.75	0.50	0.95	0.45	0.65
10.50					0.45	0.70	0.45	0.90	0.40	0.65
11.00							0.40	0.70	0.40	0.60
12.00							0.35	0.65	0.35	0.55
13.00							0.30	0.50	0.30	0.50
13.50							0.30	0.50	0.25	0.45
14.00									0.25	0.40
15.00									0.20	0.35
16.00									0.15	0.35
16.50									0.10	0.30

SPT499 loading chart of outriggers at the max. position (other positions)- 1 fall

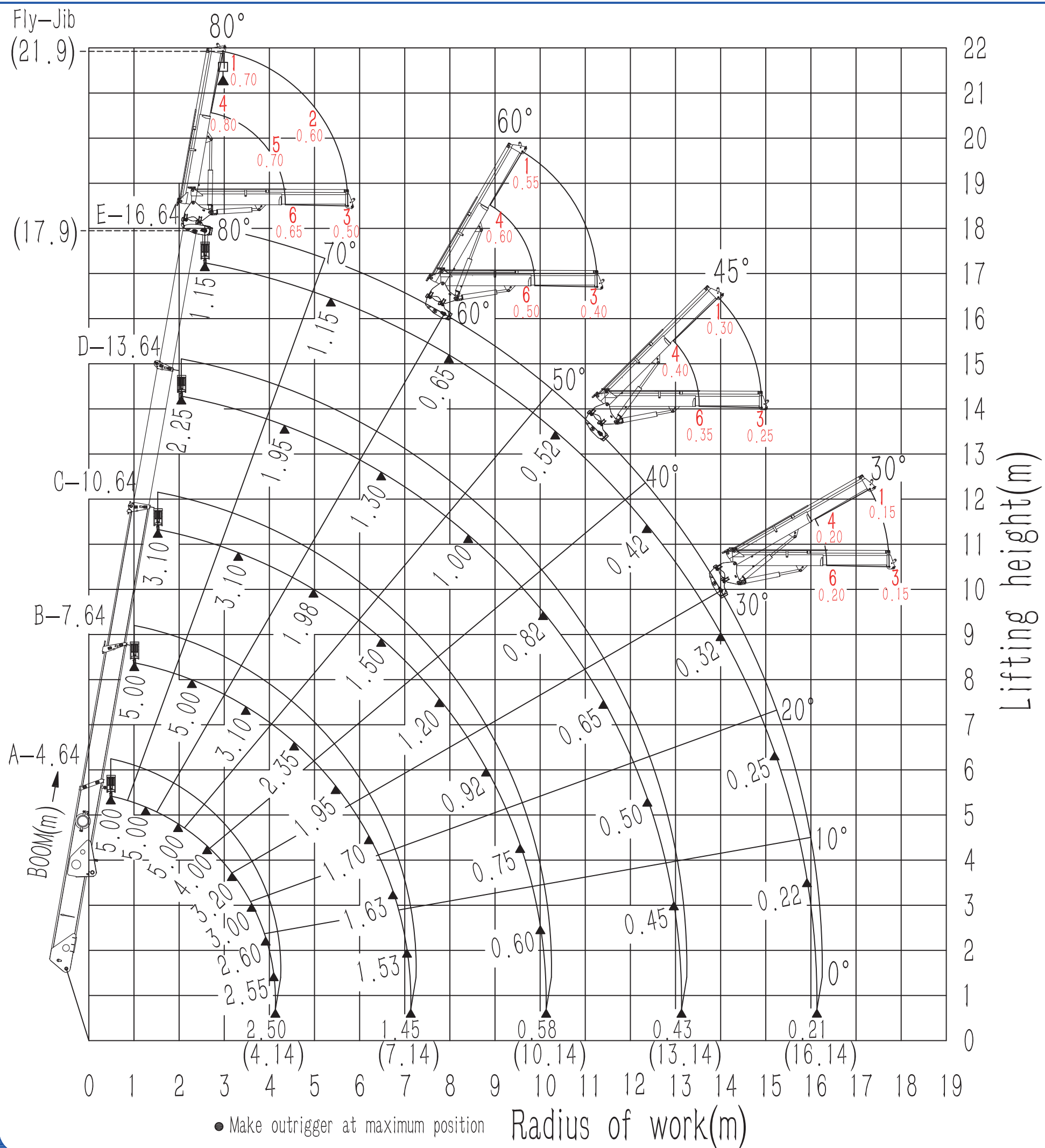
working radius (m)	loading chart (t)									
	5.05 boom		8.00 boom		11.00 boom		14.00 boom		17.00 boom	
	other	Max.	other	Max.	other	Max.	other	Max.	other	Max.
2.50	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	—	—
3.00	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
3.50	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
4.00	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
4.55	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
5.00			1.20	1.20	1.20	1.20	1.20	1.20	1.10	1.20
6.00			1.20	1.20	1.20	1.20	1.20	1.20	0.90	1.00
7.00			1.00	1.20	0.90	1.20	0.85	1.20	0.75	0.90
7.50			0.80	1.20	0.80	1.20	0.75	1.20	0.60	0.80
8.00					0.75	1.20	0.70	1.20	0.55	0.75
9.00					0.60	1.00	0.55	1.10	0.50	0.70
10.00					0.50	0.75	0.50	0.95	0.45	0.65
10.50					0.45	0.70	0.45	0.90	0.40	0.65
11.00							0.40	0.70	0.40	0.60
12.00							0.35	0.65	0.35	0.55
13.00							0.30	0.50	0.30	0.50
13.50							0.30	0.50	0.25	0.45
14.00									0.25	0.40
15.00									0.20	0.35
16.00									0.15	0.35
16.50									0.10	0.30

SPT499 loading chart of outriggers at the max. position (other positions)- Search hook

working radius (m)	loading chart (t)									
	5.05 boom		8.00 boom		11.00 boom		14.00 boom		17.00 boom	
	other	Max.	other	Max.	other	Max.	other	Max.	other	Max.
2.50	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	—	—
3.00	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
3.50	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
4.00	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
4.55	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
5.00			1.20	1.20	1.20	1.20	1.20	1.20	1.10	1.20
6.00			1.20	1.20	1.20	1.20	1.20	1.20	0.90	1.00
7.00			1.00	1.20	0.90	1.20	0.85	1.20	0.75	0.90
7.50			0.80	1.20	0.80	1.20	0.75	1.20	0.60	0.80
8.00					0.75	1.20	0.70	1.20	0.55	0.75
9.00					0.60	1.00	0.55	1.10	0.50	0.70
10.00					0.50	0.75	0.50	0.95	0.45	0.65
10.50					0.45	0.70	0.45	0.90	0.40	0.65
11.00							0.40	0.70	0.40	0.60
12.00							0.35	0.65	0.35	0.55
13.00							0.30	0.50	0.30	0.50
13.50							0.30	0.50	0.25	0.45
14.00									0.25	0.40
15.00									0.20	0.35
16.00									0.15	0.35
16.50									0.10	0.30

SPT499 Rated Total Load Chart Of Hydraulic Fly Jib

Weight: T



SPT499 Working Range Diagram & Searcher Hook

Weight: T

