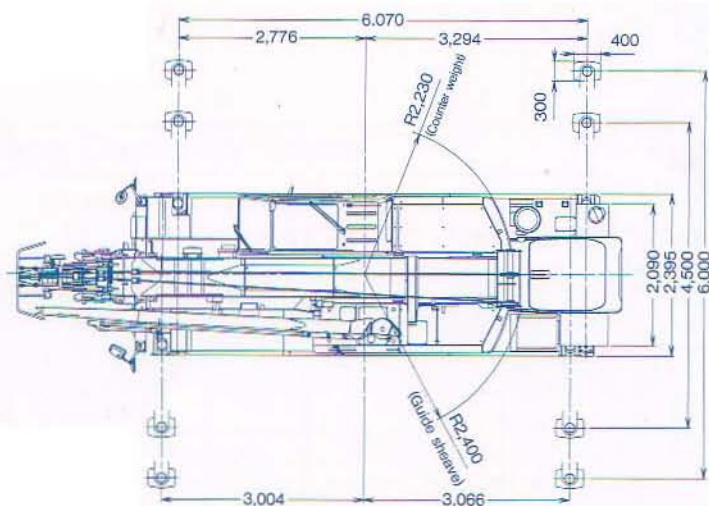
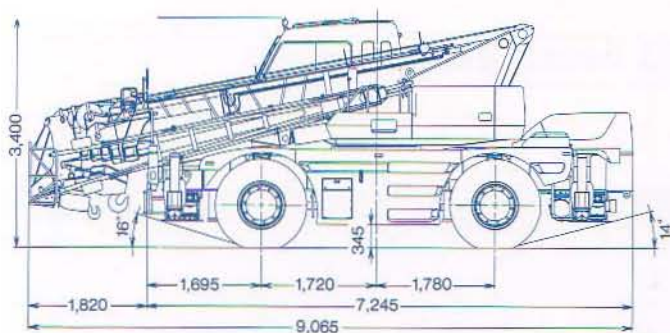


KATO CR250

CRANES

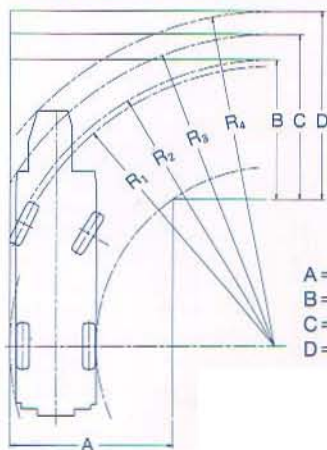


A True City Class With 28 Metres
Main Boom, Twin Hoist And
Under-slung Fly jib Also Slews
Within Half Rig Duties



Minimum Road Width for Right-Angle Turn

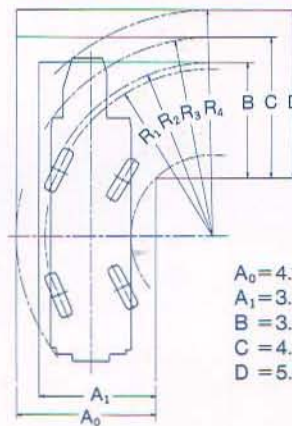
Right turn in two-wheel steering mode



- $R_1 = 8.30\text{m}$
(Minimum turning radius)
- $R_2 = 8.49\text{m}$
(Turning radius of extremely outer tire)
- $R_3 = 9.25\text{m}$
(Chassis turning radius)
- $R_4 = 9.93\text{m}$
(Boom end turning radius)

- A = 4.85m (Width of entrance)
- B = 4.13m (Width of wheel exit)
- C = 4.89m (Width of chassis exit)
- D = 5.56m (Width of exit at end of boom)

Right turn in 4-wheel steering mode

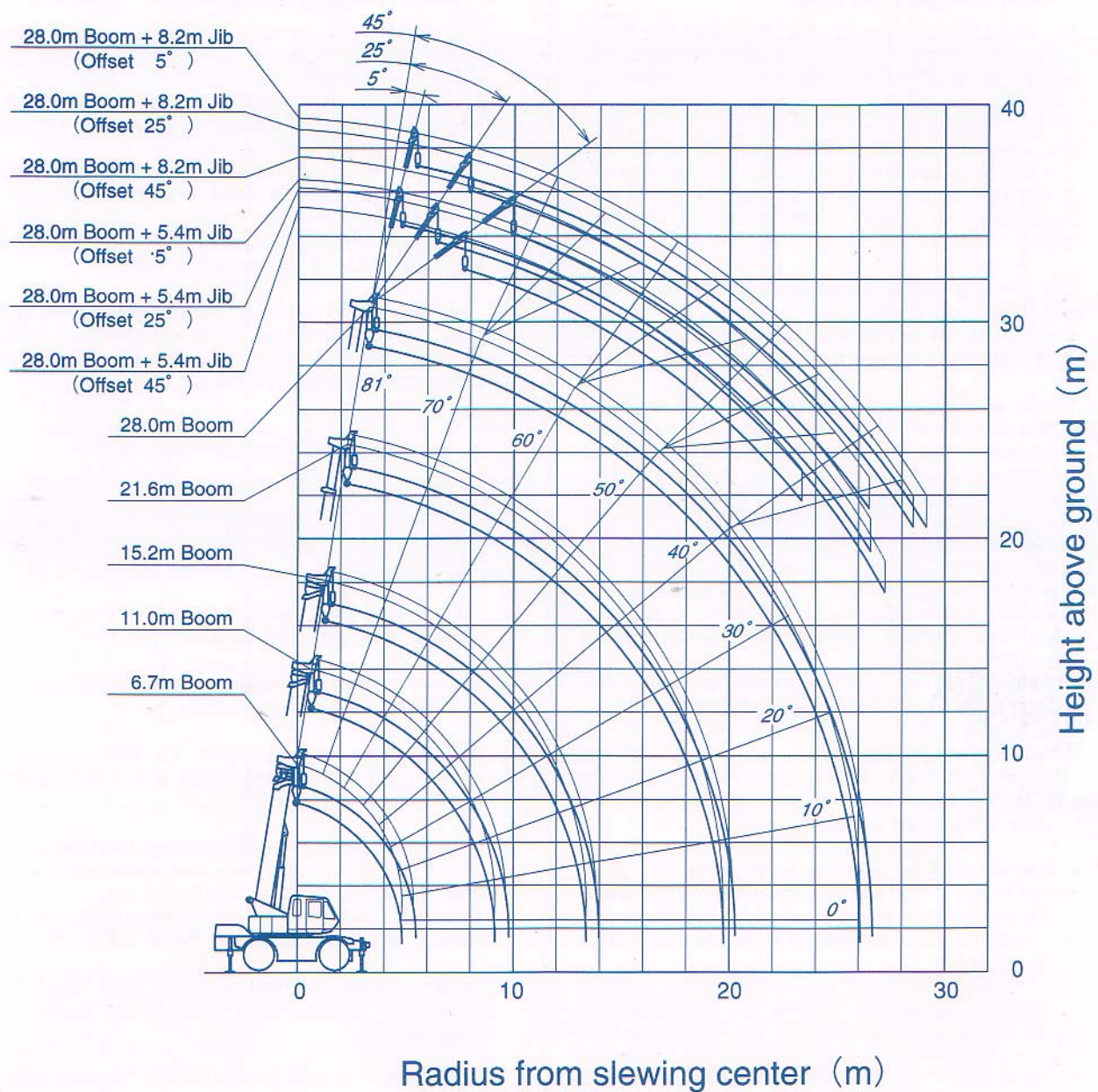


- $R_1 = 5.00\text{m}$
(Minimum turning radius)
- $R_2 = 5.19\text{m}$
(Turning radius of extremely outer tire)
- $R_3 = 5.95\text{m}$
(Chassis turning radius)
- $R_4 = 6.77\text{m}$
(Boom end turning radius)

- A₀ = 4.16m (Width of entrance)
- A₁ = 3.48m (Width of wheel entrance)
- B = 3.44m (Width of wheel exit)
- C = 4.20m (Width of chassis exit)
- D = 5.02m (Width of exit at end of boom)

Note: The above values are based on calculations.

WORKING RANGE



Note : This diagram does not include deflection of Boom and Fly Jib.

■ RATED LIFTING CAPACITY (1)

Based on * BS 1757 : 1986 * DIN 15019-2 * 75% of tipping loads

Working radius (m)	Outriggers fully extended (6.0m) - 360° full range					Outriggers intermediately extended (4.5m) - 360° full range					Outriggers completely retracted (blocked on vertical cylinders) - 360° full range				
	6.7m Boom	11.0m Boom	15.2m Boom	21.6m Boom	28.0m Boom	6.7m Boom	11.0m Boom	15.2m Boom	21.6m Boom	28.0m Boom	6.7m Boom	11.0m Boom	15.2m Boom	21.6m Boom	28.0m Boom
2.8	25.00	12.00	12.00			25.00	12.00	12.00			10.00	9.50	7.90		
3.0	22.00	12.00	12.00	8.00		22.00	12.00	12.00	8.00		8.75	8.45	7.15	6.50	
3.5	20.00	12.00	12.00	8.00		20.00	12.00	12.00	8.00		6.60	6.30	5.65	5.45	
4.0	17.00	12.00	12.00	8.00	6.50	17.00	12.00	12.00	8.00	6.50	5.10	4.85	4.55	4.55	4.25
4.5	15.00	12.00	12.00	8.00	6.50	15.00	12.00	12.00	8.00	6.50	4.10	3.85	3.70	3.80	3.65
5.0		12.00	12.00	8.00	6.50		12.00	12.00	8.00	6.50		3.10	3.00	3.20	3.15
5.5		12.00	12.00	8.00	6.50		9.80	9.70	8.00	6.50		2.50	2.40	2.70	2.70
6.0		12.00	11.50	8.00	6.50		8.20	8.10	8.00	6.50		2.05	1.95	2.30	2.35
6.5		11.30	10.60	8.00	6.50		7.00	6.85	7.25	6.50		1.60	1.55	1.95	2.00
7.0		10.15	9.90	7.85	6.50		6.00	5.90	6.55	6.50		1.25	1.20	1.65	1.75
8.0		7.90	7.80	7.10	5.90		4.60	4.50	5.10	5.40		0.70	0.60	1.15	1.30
9.0		6.20	6.10	6.35	5.35		3.60	3.45	4.05	4.40					
10.0			4.90	5.45	4.80			2.65	3.30	3.60					
11.0			4.00	4.60	4.30			2.05	2.65	3.00					
12.0			3.25	3.85	3.85			1.55	2.15	2.50					
13.0			2.65	3.30	3.50			1.15	1.75	2.10					
14.0				2.80	3.10				1.40	1.75					
15.0				2.35	2.70				1.15	1.45					
16.0				2.00	2.35				0.90	1.20					
17.0				1.70	2.00				0.70	0.95					
18.0				1.45	1.75				0.50	0.80					
19.0				1.20	1.50				0.35	0.60					
20.0			[19.7m]	1.05	1.30				0.45						
21.0					1.15				0.35						
22.0					0.95										
23.0					0.80										
24.0					0.70										
25.0					0.60										
26.0					0.50										
Standard hook	for 25 ton (optional)	for 22 ton				for 25 ton (optional)	for 22 ton				for 25 ton (optional)	for 22 ton			
Hook mass	200 kg	200 kg				200 kg	200 kg				200 kg	200 kg			
Parts of line	7	4				7	4				7	4			
Critical boom angle	—	—	—	—	—	—	—	—	—	35°	—	20°	51°	62°	69°

(Unit : Metric ton)

■ RATED LIFTING CAPACITY (2)

28.0m Boom + 5.4m Jib (Standard hook for 4.0ton. Hook mass 60kg)													
Outriggers fully extended (6.0m) - 360° full range							Outriggers intermediately extended (4.5m) - 360° full range						
Boom angle (°)	Offset 5°		Offset 25°		Offset 45°		Boom angle (°)	Offset 5°		Offset 25°		Offset 45°	
	Working radius (m)	Load (t)	Working radius (m)	Load (t)	Working radius (m)	Load (t)		Working radius (m)	Load (t)	Working radius (m)	Load (t)	Working radius (m)	Load (t)
81.0	5.2	3.00	7.0	2.50	8.3	1.55	81.0	5.2	3.00	7.0	2.50	8.3	1.55
77.7	7.2	3.00	8.9	2.50	10.0	1.55	77.7	7.2	3.00	8.9	2.50	10.0	1.55
75.0	8.9	3.00	10.4	2.30	11.4	1.50	75.0	8.9	3.00	10.4	2.30	11.4	1.50
73.0	10.0	3.00	11.5	2.14	12.4	1.46	73.0	10.0	3.00	11.5	2.14	12.4	1.46
70.0	11.7	2.60	13.1	1.94	13.9	1.42	70.0	11.7	2.60	13.1	1.94	13.9	1.42
65.0	14.3	2.15	15.7	1.69	16.3	1.35	65.0	12.2	2.50	13.6	1.88	14.4	1.40
60.0	16.8	1.83	18.1	1.49	18.7	1.30	60.0	13.2	2.14	14.7	1.77	15.3	1.37
55.0	19.2	1.55	20.3	1.35	20.8	1.25	64.0	14.7	1.63	16.0	1.46	16.8	1.33
54.0	19.6	1.45	20.7	1.32	21.2	1.22	60.0	16.6	1.14	17.9	1.02	18.5	1.00
52.0	20.4	1.29	21.5	1.19	22.0	1.18	55.0	18.9	0.70	19.9	0.67	20.7	0.60
50.0	21.2	1.14	22.3	1.05	22.7	1.08	50.0	21.0	0.39	21.9	0.37		
48.0	22.0	1.01	23.0	0.94	23.3	0.99	Critical boom angle	48°		48°		53°	
45.0	23.2	0.82	24.1	0.77									
40.0	25.0	0.58	25.8	0.54									
35.0	26.6	0.40	27.2	0.38									
Critical boom angle	33°		33°		46°								

(Unit : Metric ton)

(Unit : Metric ton)

28.0m Boom + 8.2m Jib (Standard hook for 4.0ton. Hook mass 60kg)													
Outriggers fully extended (6.0m) - 360° full range						Outriggers intermediately extended (4.5m) - 360° full range							
Boom angle (°)	Offset 5°		Offset 25°		Offset 45°		Boom angle (°)	Offset 5°		Offset 25°		Offset 45°	
	Working radius(m)	Load (t)	Working radius(m)	Load (t)	Working radius(m)	Load (t)		Working radius(m)	Load (t)	Working radius(m)	Load (t)	Working radius(m)	Load (t)
81.0	6.0	2.00	8.7	1.20	10.5	0.80	81.0	6.0	2.00	8.7	1.20	10.5	0.80
77.0	8.7	2.00	11.1	1.20	12.7	0.80	77.0	8.7	2.00	11.1	1.20	12.7	0.80
75.0	10.0	2.00	12.2	1.20	13.7	0.78	75.0	10.0	2.00	12.2	1.20	13.7	0.78
72.0	11.9	1.81	14.0	1.20	15.3	0.75	72.0	11.9	1.81	14.0	1.20	15.3	0.75
70.0	13.0	1.71	15.1	1.18	16.4	0.74	70.0	13.0	1.71	15.1	1.18	16.4	0.74
65.0	15.9	1.49	17.8	1.12	18.9	0.72	65.0	15.9	1.49	17.8	1.12	18.9	0.72
60.0	18.6	1.33	20.3	1.05	21.3	0.69	60.0	16.9	1.26	18.8	1.09	19.8	0.70
55.0	21.2	1.20	22.7	0.98	23.5	0.67	55.0	18.4	0.98	20.2	0.87	21.3	0.69
53.0	22.1	1.14	23.6	0.95	24.3	0.66	53.0	19.4	0.81	21.2	0.72	22.2	0.68
50.0	23.5	0.96	24.9	0.77	25.4	0.65	50.0	20.8	0.60	22.5	0.54	23.3	0.53
47.0	24.7	0.80	26.1	0.63	26.5	0.64	50.0	23.1	0.31				
45.0	25.6	0.69	26.8	0.56			Critical boom angle	48°		53°		53°	
40.0	27.5	0.49	28.5	0.39									
35.0	29.1	0.33											
Critical boom angle	33°		38°		45°								(Unit : Metric ton)

(Unit : Metric ton)

■ RATED LIFTING CAPACITY (3)

Working radius (m)	Stationary on rubber (without outriggers)					
	6.7m Boom		11.0m Boom		15.2m Boom	
	Over front	360° full range	Over front	360° full range	Over front	360° full range
3.0		6.00		5.50		5.20
3.5	8.50	4.50	8.50	4.10	8.00	3.80
4.0	8.50	3.30	8.50	3.20	8.00	3.00
4.5	7.50	2.55	7.20	2.55	6.50	2.40
5.0			6.10	2.00	5.40	1.90
5.5			5.10	1.55	4.55	1.50
6.0			4.25	1.20	3.85	1.15
6.5			3.55	0.90	3.30	0.85
7.0			3.00	0.65	2.80	
8.0			2.15		2.05	
9.0			1.55		1.50	
10.0					1.00	
11.0					0.60	
Standard hook		for 22 ton				
Hook mass		200 kg				
Parts of line		6		4		
Critical boom angle		—	30°	33°	57°	

(Unit : Metric ton)

Working radius (m)	Pick & Carry (less than 2km/h) (without outriggers)					
	6.7m Boom		11.0m Boom		15.2m Boom	
	Over front	360° full range	Over front	360° full range	Over front	360° full range
3.0		4.80		4.40		4.00
3.5	6.80	3.60	6.40	3.30	5.90	3.00
4.0	6.80	2.65	6.40	2.55	5.90	2.40
4.5	6.00	2.05	5.50	2.05	5.00	1.90
5.0			4.75	1.50	4.30	1.40
5.5			4.10	1.05	3.65	1.00
6.0			3.40	0.65	3.10	0.60
6.5			2.85		2.65	
7.0			2.40		2.25	
8.0			1.65		1.60	
9.0			1.00		1.00	
10.0					0.50	
11.0						
Standard hook		for 22 ton				
Hook mass		200 kg				
Parts of line		6		4		
Critical boom angle		—	—	42°	35°	60°

(Unit : Metric ton)