

SINOMACH

TTC055G(TTCR055G)

汽车起重机
TRUCK CRANE



装备世界 · 创造价值

Equip the world and create value



SINOMACH

SINOMACH 汽车起重机全面跨越

SINOMACH TTC-G 起重机系列 高配置 高性能
满足用户特别需求

SINOMACH TRUCK CRANE COMPREHENSIVE PROMOTION

SINOMACH TTC-G CRANE SERIES
HIGH PERFORMANCE
HIGH CONFIGURATION



公司简介

中国国机重工集团有限公司(国机重工),是世界 500 强企业中国机械工业集团有限公司(国机集团)的全资子公司,由国机集团旗下工程机械业务资源重组整合改制而成立的大型装备制造企业集团。

国机重工现有 26 家控股和参股企业,其中 1 家上市公司、4 家海外公司。拥有天津、常州、洛阳、泸州四大产业基地。与工程机械行业世界知名企业韩国现代、日本小松、TEREX 等组建合资企业,合作机构遍布全球 100 多个国家和地区。

SINOMACH 全液压系列汽车起重机由国机重工和 TEREX 联合生产,融汇了美欧产品的先进性和日本产品的适用性,以其先进的技术、可靠的质量经受了市场的检验,并成长为中国汽车起重行业的知名品牌,是国内设计制造全液压汽车起重机系列最全、规模宏大的现代化大型工程机械企业之一。

China Sinomach Heavy Industry Corporation (SINOMACH Heavy Industry), is a wholly-owned subsidiary of China National Machinery Industry Corporation and one of the Fortune 500 enterprises, and is also a large-sized equipment manufacturing group established through restructuring and reform of the resources of the construction machinery business of SINOMACH.

Today, SINOMACH Heavy Industry held and participated in shareholding of 26 enterprises, in which there is one listed company, four overseas companies, and four big industry bases in Tianjin, Changzhou, Luoyang and Luzhou. Besides, SINOMACH Heavy Industry has established joint ventures with world famous enterprises in the construction machinery field such as Hyundai of South Korea, Komatsu of Japan, and TEREX with the cooperation institutions distributed in more than 100 countries and regions across the world.

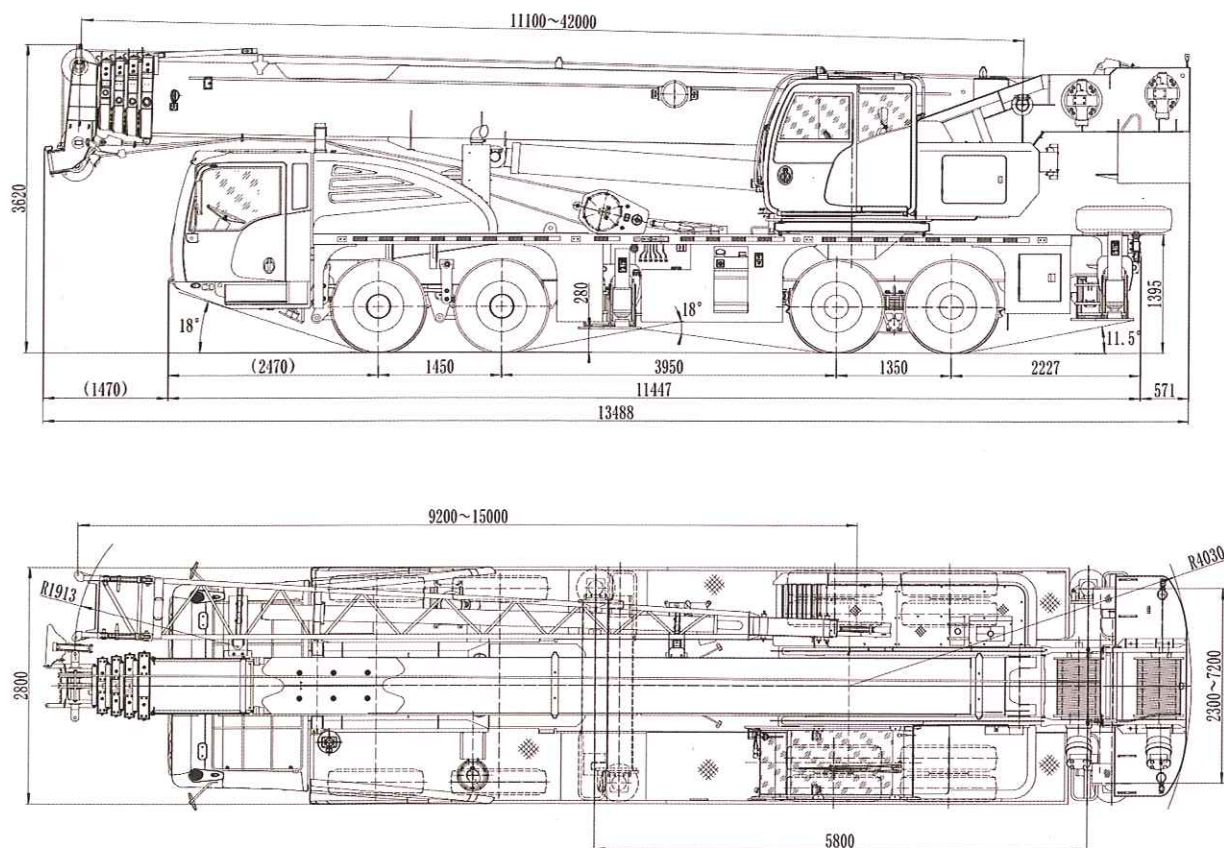
SINOMACH full-hydraulic auto crane manufactured by SINOMACH and TEREX, which integrates the advancement of U.S. and European products with the applicability of Japanese products, and has stood the tests of the market by advanced technology and quality, thus growing into a renowned brand in China's auto crane industry. SINOMACH may be rated as one of the large-sized domestic modern construction machinery enterprises that design and manufacture the most complete range of full hydraulic auto cranes.



起重机外形尺寸

CRANE DIMENSIONS

TTC055G(TTCR055G)



规格参数 SPECIFICATIONS

TTC055G(TTCR055G)

起重机总重量 Crane Weights

Gross vehicle weight (GVW) · 车辆总重量 (GVW) 41880 kg

桥负荷 Axle Loads

Steering axles (axle 1 and 2) · 转向桥 (桥 1 和 2) 15940 kg

Drive axles (axle 3 and 4) · 驱动桥 (桥 3 和 4) 25940 kg

通过性参数 Ground Clearances

Minimum ground clearance · 支脚盘最小离地间隙 280 mm

Ramp angle · 纵向通过角 18 °

Approach angle · 接近角 18 °

Departure angle · 离去角 11.5 °

轴距 Wheel Base

Distance between axle 1 and 2 · 桥 1 和 2 之间的距离 1,450 mm

Distance between axle 2 and 3 · 桥 2 和 3 之间的距离 3,950 mm

Distance between axle 3 and 4 · 桥 3 和 4 之间的距离 1,350 mm

轮距 Wheel Track

Axle 1 and 2 · 桥 1 和 2 2,280 mm

Axle 3 and 4 · 桥 3 和 4 2056 mm

支腿跨距 Outrigger Dimensions

Longitudinal span · 纵向跨距 5.8 m

Transverse span · 横向跨距 7.2 m

支腿反力 Outrigger Forces

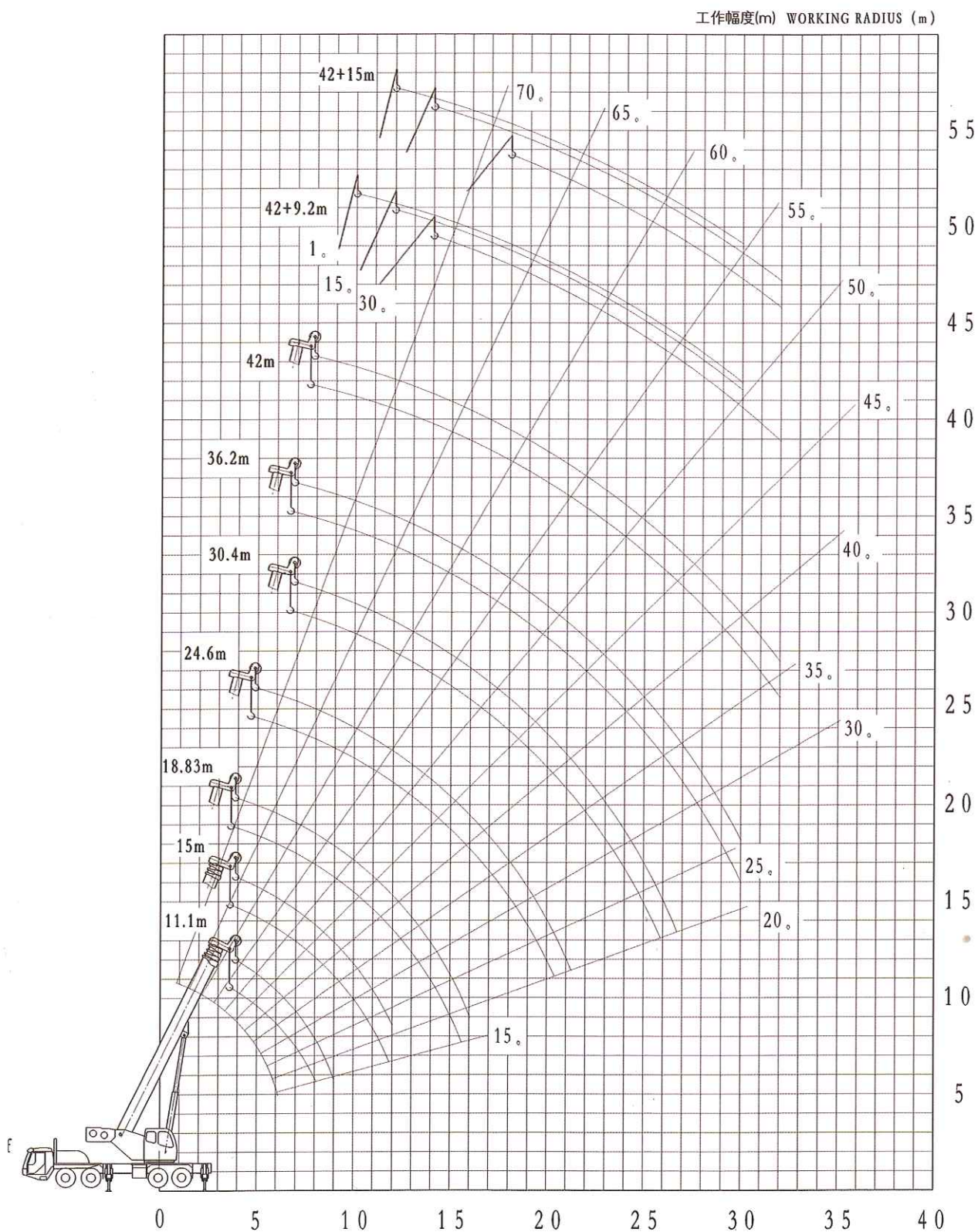
Maximum counterforce · 最大支反力 525 kN

外形尺寸 Overall Dimensions

(Length x Width x Height) · (长 x 宽 x 高) 13.488 X 2.8 X 3.62 m

起升高度 RANGE DIAGRAM

TTC055G(TTCR055G)



起重量表

LOAD CHARTS

TTC055G(TTCR055G)

单位 UNIT: kg

支腿全伸后方和侧方作业、支腿全伸+第五支腿 360° 作业 Rear and side operation in half extension of outrigger, Half extension + the 5th outrigger 360 degree operation													
主 臂 Main boom (m)								主臂+副臂 main boom+jib (m)					
工作幅度 Radius (m)	I 缸伸至 100% Cylinder I 100% Extension							工作幅度 Radius (m)	I 缸伸至 0% Cylinder I 0% Extension				
	11.1	15	18.83	24.62	30.42	36.22	42		16.89	22.69	28.48	34.28	
3	55000	40000						3	24000				
3.5	50500	40000	33200					3.5	24000	16000			
4	44500	40000	33200	24000				4	24000	16000			
5	36000	34500	29300	22600				5	21800	16000	12400		
6	31000	30000	26000	20000	16600			6	19500	16000	12400	8500	
7	26000	25500	24000	18300	15200	13000		7	17500	14600	11500	8500	
8	20300	19700	19400	16600	13800	12000		8	15800	13300	10500	8500	
9	15800	15500	15500	15200	12600	11200	9000	9	14600	12200	9500	8300	
10		12500	12500	13700	11400	10200	9000	10	14100	11200	8600	7600	
11		9900	9900	11000	10800	9400	8500	11	11700	10800	8000	7000	
12		8300	8300	9500	9900	8900	8000	12	9800	10200	7500	6500	
14			5800	6800	7450	7900	6800	14		7900	6400	5600	
16			4000	5000	5650	6100	6000	16		6200	5550	4700	
18				3750	4350	4800	5000	18		4800	4850	4100	
20				2800	3350	3700	4000	20			4200	3600	
22				2000	2550	2950	3200	22			3400	3200	
24					1900	2300	2600	24			2700	2800	
26					1400	1800	2050	26				2300	
28					950	1350	1600	28				1800	
30						950	1200						
32							900						
I 缸 Cylinder I	0%	50%	100%	100%	100%	100%	100%	I 缸 Cylinder I	0%	0%	0%	0%	100%
II 缸 Cylinder II	0%	0%	0%	25%	50%	75%	100%	II 缸 Cylinder II	25%	50%	75%	100%	100%
主臂最小仰角 Min. elevation angle of boom				11°	29°	37°		主臂最小仰角 Min. elevation angle of boom					55
倍率 Part of line	12	8	7	5	4	3	3	倍率 Part of line	5	4	3	3	1

起重量表

LOAD CHARTS

TTC055G(TTCR055G)

单位 UNIT: kg

支腿半伸后方和侧方作业、支腿半伸+第五支腿 360° 作业 Rear and side operation in half extension of outrigger, Half extension + the 5th outrigger 360 degree operation											
主 臂 Main boom (m)											
工作幅度 Radius (m)	I 缸伸至 100% Cylinder I 100% Extension							I 缸伸至 0% Cylinder I 0% Extension			
	11.1	15	18.83	24.62	30.42	36.22	42	16.89	22.69	28.48	34.28
3	50000							24000			
3.5	46300							24000	16000		
4	44500	40000	33000					21800	16000		
5	27000	27000	27000	22500				19500	16000	12400	
6	18300	18200	18200	19600	16500			15100	16000	12400	8500
7	13300	13200	13200	14400	15000	12800		11800	14600	11500	8500
8	10100	10000	10000	11100	11800	12000		9500	12400	10400	8500
9	7800	7700	7700	8800	9400	9900	9000	7700	10100	9500	8300
10		6100	6100	7100	7700	8100	8500	6400	8300	8700	7600
11		4950	4950	5900	6500	6900	7250	5300	7000	7350	7100
12		3800	3700	4700	5300	5700	6000	3700	5900	6250	6300
14			2200	3100	3700	4100	4400		4300	4650	4700
16			1000	2000	2600	3000	3300		3200	3550	3600
18				1200	1800	2100	2400		2400	2700	2750
20					900	1200	1500			2050	2100
22						700	1000			1100	1550
24							600				1150
26											750
I 缸 Cylinder I	0%	50%	100%	100%	100%	100%	100%	0%	0%	0%	0%
II 缸 Cylinder II	0%	0%	0%	25%	50%	75%	100%	25%	50%	75%	100%
主臂最小仰角 Min. elevation angle of boom			19°	36°	43°	48°	52°				
倍率 Part of line	12	8	8	6	6	4	3	8	4	4	3

说明 NOTE:

- 臂长 11.1m 吊载时，各节臂应处于完全缩回状态。
 - 表中给定数值是在地面坚实，整机调平状态下，起重机的额定起重量(单位 kg)。表中工作幅度是指吊载后的实际幅度。
 - 表中额定起重量包括起重钩重量，主钩重 550kg，副起重钩重 102kg，若副起重钩处于展开状态，主起重钩起吊的重量还应减去 1500kg。
 - 当主钩在主起重臂头部时，使用副起重臂吊载的额定起重量应减去 550kg；使用臂端单滑轮吊载的各臂段额定起重量应减去 550kg，但最大起重量为 4000kg。当副起重钩在臂端单滑轮头部时，使用主起重钩吊载的各臂段额定起重量应减去 102kg。
 - 未使用第五支腿时，前方 120°范围不允许吊载。使用第五支腿时，支腿盘离地 10mm，可按表 360°吊载作业。
 - 如果臂长超过表中某一栏规定数值时，应把该栏数值与比它更长一级的数值相比较，按照其中较小的额定起重量进行作业。
- While lifting with boom length of 11.1m, each section must be fully retracted.
 - The values in table are rated lifting capacities of crane on solid ground and in level state. The working radii in the table are actual radii after load lifting.
 - The rated lifting capacities in the chart includes weight of hooks, main hook is 390kg and auxiliary hook is 102kg. While the jib is in extension state, the rated load capacity of main hook must be reduced by 1500kg.
 - When the main hook is at the head of main boom, working with auxiliary hook, the rated lifting capacity must reduced by 390kg, working with head pulley, the rated lifting capacity must reduced by 390kg, but max. lifting capacity is 4000kg. Using main hook when auxiliary hook is at the head of pulley, the rated lifting capacity of each section of boom must be reduced by 102kg.
 - When the fifth outrigger is not in use, no lifting in front of 120°range. On use of the fifth outrigger, with the outrigger pad 10mm from ground, according to the 360°lifting working in chart.
 - If the boom length exceeds the specified values, it must be compared with its longer one. The operation must accord to the smaller one.

技术描述

TECHNICAL DESCRIPTIONS

TTC055G(TTCR055G)

起重量 Lifting Capacity



Maximum rated capacity for main hook
主钩额定起重量

55 t

Maximum rated capacity for auxiliary hook
副钩额定起重量

4 t

Maximum load moment
最大起重力矩

1823 kN.m

主臂和零件 Boom and Components

Profile
截面形状

Decagon
十边形

Number of sections
节数

5



Base boom length
基本臂长度

11.1 m

Base boom maximum lift height
基本臂最大起升高度

11.044 m

Base boom maximum working radius
基本臂最大作业半径

9 m

Fully extended boom length
全伸臂长度

42 m



Fully extended boom maximum lift height
全伸臂最大起升高度

42.14 m



Fully extended boom maximum working radius
全伸臂最大作业半径

32 m

副臂 Jib



Fully extended boom and jib length
全伸臂和副臂的长度

57 m

Fully extended boom maximum lift height with jib
安装副臂最大起升高度

56.835 m

Fully extended boom maximum working radius with jib
安装副臂最大作业半径

36 m



Slewing speed
回转速度

0-2.01 rpm

技术描述

TECHNICAL DESCRIPTIONS

TTC055G(TTCR055G)

起升机构工作速度 Winch Performance

		Main hoist – 3rd layer – single rope speed 主卷扬 – 第三层 – 单绳速度	0-110 m/min
		Auxiliary hoist – 3rd layer – single rope speed 副卷扬 – 第三层 – 单绳速度	0-110 m/min

起重臂工作速度 Crane Boom Function Speeds

	Elevation – up 起臂	55 sec
	Elevation – down 落臂	70 sec
	Full extension 全伸	100 sec
	Full retract 全缩	88 sec

支腿工作速度 Outrigger Function Speeds

		Simultaneous full extension 同步伸出	50 sec
		Simultaneous full retract 同步收缩	55 sec

支腿操纵 Outrigger Controls

	Dual outrigger controls – LH and RH side 支腿操纵 – 左侧和右侧	Dual control 两侧操纵
	Ambient working temperature 作业温度	-20 °C – +40 °C

技术描述

TECHNICAL DESCRIPTIONS

TTC055G(TTCR055G)

发动机和变速箱 Engine and Transmission



Chassis Engine: 底盘发动机:	
Weichai power 潍柴动力	WP10.336N
Emission compliance 排放标准	National Exhaust Standard III 国家排放标准 III
Number of cylinders 缸数	6
Aspiration 进气	Turbocharged 涡轮增压
Rated power 额定功率	247 kW @ 1900 rpm
Maximum torque 最大扭矩	1500 Nm @ 1200 – 1500 rpm
Estimated fuel consumption per 100 km 100 km 油耗	46 L
Fuel type 燃油类型	Diesel 柴油
Fuel tank capacity 燃油箱容积	350 L
Lowest start temperature 最低启动温度	-30 °C



Style shifting 手动变速箱	Manual shift 手动变速箱
-------------------------	-----------------------

技术描述

TECHNICAL DESCRIPTIONS

TTC055G(TTCR055G)

液压装置 Hydraulics

HYDR

LUDV hydraulic system
LUDV 液压系统

Combined system with quad pump
带有四泵的组合系统

Hydraulic controls:
液压控制:

Pilot actuated multi-axis joystick controls
先导控制多轴操纵手柄控制

Load sensing
LUDV

pump
泵

Pilot joystick
先导式操作手柄

底盘及其部件 Chassis and Components

Axle drive system
桥驱动系统

8 x 4

Fifth outrigger for 360° boom operation
360° 作业的第五支腿

Fifth outrigger
第五支腿

Minimum turning radius
最小转弯半径

12 m



Maximum gradeability
最大爬坡度

48 %



Maximum traveling speed
最高行驶速度

80 km/h

www.sinomach-hi.com

中国国机重工集团有限公司

China SINOMACH Heavy Industry Corporation

北京经济技术开发区天华北街11号院1号楼

Add: Building 1, No. 11th Yard, Tianhua North Street, Beijing
Economic & Technological Development Area, Beijing, China.

Post Code: 100176 Tel: +86 10 5738 7999 Fax: +86 10 5738 7977

E-mail: overseas@sinomach-hi.com

生效日期: 2012年7月。产品技术参数和价格如有更改, 恕不另行通知。

Effective Date: July, 2012. Product specifications and prices are subject to change without notice or obligation