

SINOMACH

TTC025G(TTCR025G)

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.

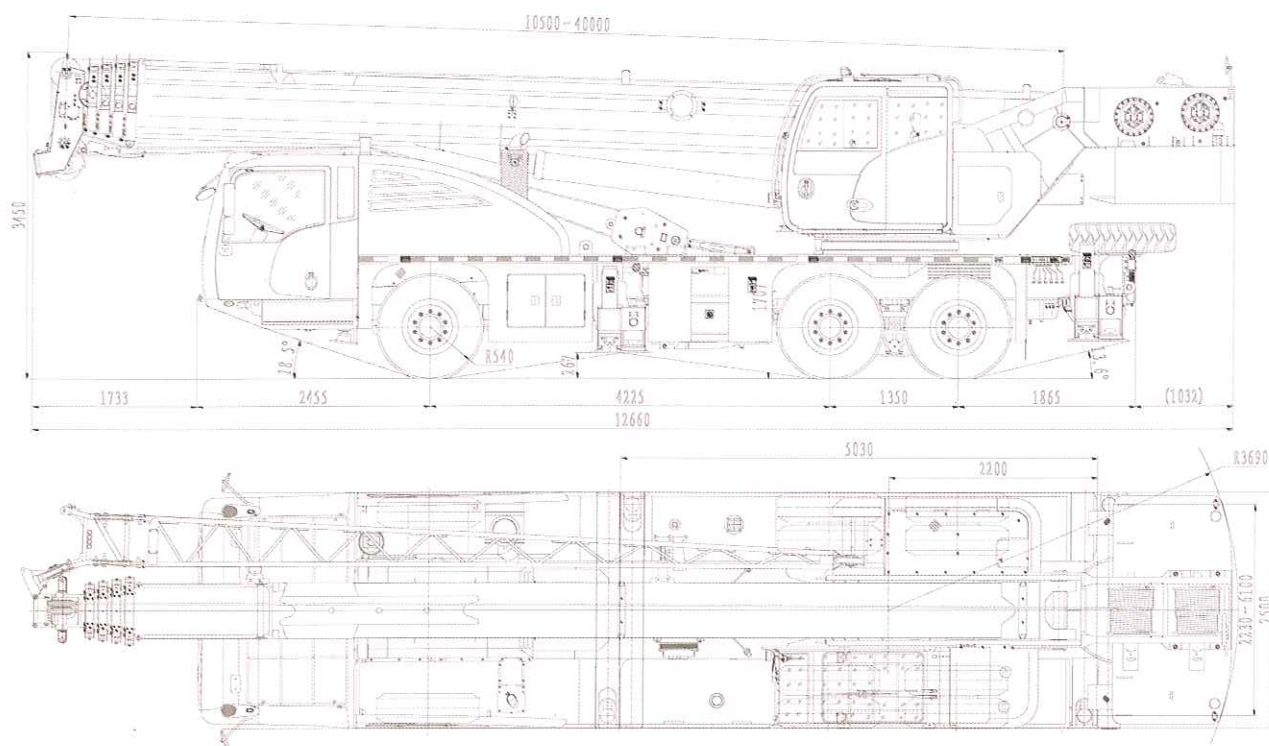
Today, SINOMACH Heavy Industry held and participated in shareholding of 26 enterprises, in which there is one listed company, four overseas companies, and four big industry bases in Tianjin, Changzhou, Luoyang and Luzhou. Besides, SINOMACH Heavy Industry has established joint ventures with world famous 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

TTC025G(TTCR025G)



规格参数

SPECIFICATIONS

起重机总重量 Crane Weights

Gross vehicle weight (GVW) · 车辆总重量 (GVW) 32890kg

桥负荷 Axle Loads

Steering axle (axle 1) · 转向桥 (桥 1) 7500 Kg

Drive axles (axle 2 and 3) · 驱动桥 (桥 2 和 3) 25390 kg

通过性参数 Ground Clearances

Minimum ground clearance · 最小离地间隙 267mm

Ramp angle · 纵向通过角 15.9°

Approach angle · 接近角 18.5°

Departure angle · 离去角 13.6°

轴距 Wheel Base

Distance between axle 1 and 2 · 桥 1 和 2 之间的距离 4,225 mm

Distance between axle 2 and 3 · 桥 2 和 3 之间的距离 1,350 mm

轮距 Wheel Track

Axle 1 · 桥 1 2069 mm

Axle 2 and 3 · 桥 2 和 桥 3 1830 mm

支腿跨距 Outrigger Dimensions

Longitudinal span · 纵向跨距 5.03 m

Transverse span · 横向跨距 6.1 m

支腿反力 Outrigger Forces

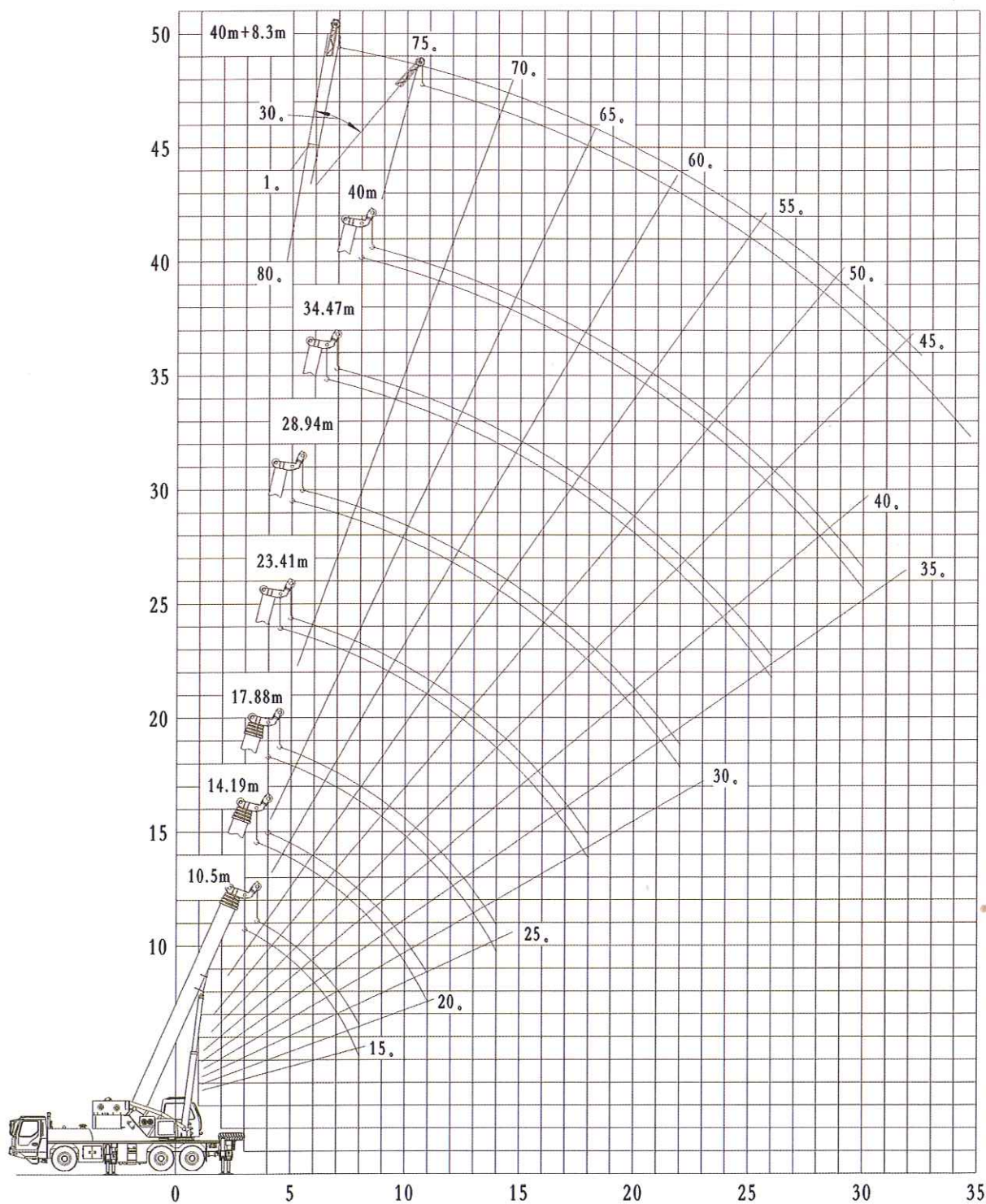
Maximum counterforce · 最大支反力 264kN

外形尺寸 Dimensions

(Length x Width x Height) · (长 x 宽 x 高) 12.66X2.5X 3.45 m

起升高度 RANGE DIAGRAM

TTC025G(TTCR025G)



起重量表

LOAD CHARTS

TTC025G(TTCR025G)

单位UNIT: (kg)

支腿全伸后方和侧方作业 (当使用第五支腿全 可实现360° 作业) Rear and side operation in fully extension of outrigger (the 5th outrigger 360° operation)															
幅度 Radius (m)	Main boom (m)												主臂main boom 副臂jib (m)		
	I 缸伸至100%Cylinder I 100%Extension							I 缸伸至0%Cylinder I 0%Extension					主臂仰角 elevation angle (°)	副臂安装角 jib installation angle	
	10.50	14.19	17.88	23.41	28.94	34.47	40.00	10.50	16.03	21.56	27.09	32.62		1°	30°
3	25000							25000					80	3000	1900
3.5	25000	23000						25000					78	2850	1900
4	24500	22000	18000					24500					76	2850	1800
4.5	22000	20500	17000	12000				22000	14000				74	2800	1750
5	20000	19000	15700	12000	10000			20000	14000	10000			72	2700	1700
5.5	18000	17700	14700	11500	9500			18000	14000	10000			70	2600	1600
6	16000	16000	13700	10900	9000			16000	14000	10000			68	2450	1500
6.5	14200	14000	12800	10400	8500	7000		14200	14000	10000	7000		66	2200	1420
7	12900	12700	12000	9800	8000	6800		12900	13500	10000	7000		64	2000	1350
8	11000	10900	10600	8800	7600	6300	5500	11000	11800	9500	6600	5500	62	1750	1280
9		8900	8800	8000	6800	5800	5000		10000	8800	6300	4800	60	1500	1210
10		7200	7100	7300	6200	5300	4800		8400	8200	5800	4500	58	1280	1100
11		6000	5800	6600	5700	4900	4500		7100	7300	5100	4200	56	1080	960
12			4850	5500	5250	4500	4150		6000	6300	4500	4000	54	920	850
13			4100	4800	4900	4200	3850		5000	5500	4200	3800	52	760	700
14			3450	4100	4500	3950	3580			4800	3950	3500	50	600	550
15				3500	3950	3700	3350			4200	3700	3200	45	290	260
16				3050	3450	3350	3150			3600	3500	3000			
18				2280	2500	2750	2750			2800	2900	2600			
20					2050	2200	2300				2500	2200			
22					1550	1700	1850				1900	2000			
24						1400	1450				1500	1700			
26						1060	1150					1300			
28							900					1000			
30							700								
I 缸Cylinder I	0%	50%	100%	100%	100%	100%	100%	0%	0%	0%	0%	0%	100%		
II 缸Cylinder II	0%	0%	0%	25%	50%	75%	100%	0%	25%	50%	75%	100%	100%		
倍率	8	8	6	5	4	3	3	8	5	4	3	3	1		
主起重臂最小仰角Min. elevation angle of boom (°)					35	37	38						45		

起重量表

LOAD CHARTS

TTC025G(TTCR025G)

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° operation												
主 臂 Main boom(m)												
幅 度 Radius (m)	I 缸伸至100%Cylinder I 100%Extension							II 缸伸至0%Cylinder II 0%Extension				
	10.50	14.19	17.88	23.41	28.94	34.47	40.00	10.50	16.03	21.56	27.09	32.62
3	25000							25000				
3.5	25000	21500						22000				
4	24200	21000	18000					20000				
4.5	21800	20500	17000	12000				18000	14000			
5	18800	17800	15700	12000	10000			15000	14000	10000		
5.5	15500	15300	14000	11500	9500			12500	13000	10000		
6	13100	12900	12200	10900	9000			10000	11000	10000		
6.5	11200	11100	10700	10400	8500	7000		9000	10000	10000	7000	
7	9700	9600	9400	9500	8000	6800		7800	8300	9000	7000	
8	7500	7400	7200	7700	7500	6300	5500	6000	6600	6800	6400	4800
9		5800	5700	6400	6300	5800	5000		5300	5600	5800	4600
10		4700	4500	5100	5300	5200	4800		4300	4600	4900	4300
11		3800	3600	4200	4500	4500	4300		3600	3800	4100	4100
12			2900	3500	3800	3800	3700		3000	3200	3500	3700
13			2200	2900	3200	3300	3200		2500	2600	3000	3100
14			1700	2300	2700	2900	2800			2300	2700	2700
15				1900	2300	2500	2400			2000	2500	2300
16				1500	1900	2100	2100			1600	1800	2000
18				800	1200	1500	1600				1000	1500
20					700	1000	1100				700	1100
22						600	700					800
24							400					
I 缸Cylinder I	0%	50%	100%	100%	100%	100%	100%	0%	0%	0%	0%	0%
II 缸Cylinder II	0%	0%	0%	25%	50%	75%	100%	0%	25%	50%	75%	100%
倍率	8	8	6	5	4	3	3	8	5	4	3	3
主起重臂最小仰角Min. elevation angle of boom (°)					35	42	50					

说明: NOTE:

- 臂长10.50m吊载时, 各节臂应处于完全缩回状态。
- 表中额定起重量包括吊钩重量: 主起重钩重300kg, 副起重钩重70kg。若副起重臂处于展开状态, 主起重臂起吊重量应减去400kg。
- 当主起重钩在主起重臂头部时, 使用臂端单滑轮吊载的各臂段额定起重量应减去300kg, 但最大起重量为3000kg。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70kg。
- 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, 可按表中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臂长的数值相比较, 按照其中较小的额定起重量进行作业。
- 表中最底栏列出各种臂长时的主臂最小仰角, 严禁将起重臂变幅到所对应的最小仰角以下。
- While lifting with boom length of 10.50m, each section must be fully retracted.
- The rated lifting capacities in the chart includes weight of hooks, main hook is 300kg and auxiliary hook if 70kg. While the jib is in extension state, the rated load capacity of main hook must be reduced by 400kg.
- When the main hook is at the head off main boom, working with head pulley, the rated lifting capacity of each section must reduced by 300kg, but max. lifting capacity is 3000kg. 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 70kg.
- When the fifth outrigger is not in use, no lifting in front of 120° range. On use of the fifth outrigger, 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.
- The bottom column in the table lists all main boom angel of elevation in various boom lengths. Elevating the boom below the corresponding min. angel of elevation is strictly forbidden.

技术描述

TECHNICAL DESCRIPTIONS

TTC025G(TTCR025G)

起重量 Lifting Capacity



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

25 t

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

3 t

Maximum load moment
最大起重力矩

980 kN.m

主臂和零件 Boom and Components

Profile
截面形状

Octagonal
八边形

Number of sections
节数

5



Base boom length
基本臂长度

10.50 m

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

10.57 m

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

8 m

Fully extended boom length
全伸臂长度

40 m



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

40 m



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

30 m

副臂 Jib



Length of fully extended boom and fully extended jib
主臂、副臂完全伸出的长度

48.3 m

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

49.23 m

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

34.6 m



Slewing speed
回转速度

2.4rpm

技术描述

TTC025G(TTCR025G)

TECHNICAL DESCRIPTIONS

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

0-125 m/min



Auxiliary hoist - 2nd layer - single rope speed
辅卷扬 - 第二层 - 单绳速度

0-125 m/min

起重臂工作速度 Crane Boom Function Speeds



Elevation - up
起臂

50 sec

Elevation - down
落臂

50 sec

Full extension
全伸

90 sec

Full retract
全缩

90 sec

支腿工作速度 Outrigger Function Speeds



Simultaneous full extension
同步伸出

45 sec

Simultaneous full retract
同步收缩

50 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

TTC025G(TTCR025G)

TECHNICAL DESCRIPTIONS

发动机和变速箱 Engine and Transmission



Weichai power
潍柴动力

WP7.300E30

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

220 kW @ 2300 rpm

Maximum torque
最大扭矩

1160 Nm @ 1200-1700 rpm

Estimated fuel consumption per 100 km
100 km 油耗

36 L

Fuel type
燃油类型

Diesel
柴油

Fuel tank capacity
燃油箱容积

270 L

Lowest start temperature
最低启动温度

-30°C



Dual intermediate Shaft Synchroniler Gearbox
双中间轴全同步器手动变速箱

Dual intermediate Shaft Synchroniler
双中间轴 全同步器

液压装置 Hrdraulics



LUDV sensing hydraulic system
LUDV 液压系统

Load sensing
LUDV

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

Double pump
泵

Choice of hydraulic controls:
液压控制的选择:

Pilot actuated multi-axis joystick controls
先导控制多轴手柄控制

Pilot joystick
先导式手柄

技术描述

TECHNICAL DESCRIPTIONS

TTC025G(TTCR025G)

底盘及其部件 Chassis and Components

	Axle drive system 桥驱动系统	6 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	10 m
	Maximum gradeability 最大爬坡度	37 %
	Maximum traveling speed 最高行驶速度	80 km/h

驾驶室 Driver Cab

	Adjustable driver seat 可调式司机座椅
	Adjustable steering wheel 可调式方向盘
	Airconditioner and heater 空调和加热装置

操纵室 Operator Cab

	Adjustable seat 可调式座椅
	Load moment limiter display 载荷力矩限制装置的显示
	Airconditioner and heater 空调和加热装置

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

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