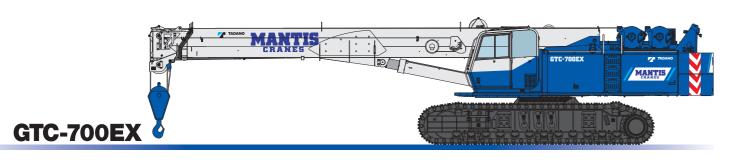


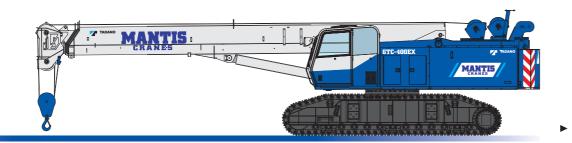
# **GTC-700EX**

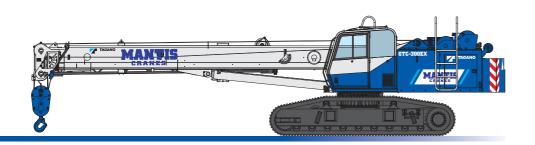
**70 METRIC TON CAPACITY** 

# GTC-400EX GTC-300EX











GTC-400EX





## **TADANO MANTIS Corporation**

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TADANO LTD. (International Division)
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Phone: 81-3-3621-7750 Fax: 81-3-3621-7785
http://www.tadano.com/ E-mail: info@tadano.com/
GTC-700EX/400EX/300EX-1-E-15-1-02-43-4

GTC-700EX/400EX/300EX-1-E-15-1-02-43-489- A Printed in Japan





# The Simple and Sturdy Spirit

TADANO MANTIS cranes are engineered like no other.

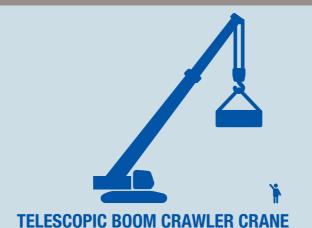
Massive steel fabrications and powerful diesel engines matched to state of the art hydraulics and controls make this crane ideal for both lift applications as well as rugged heavy duty work.

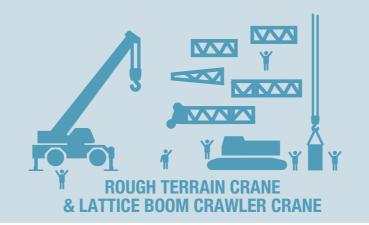


01 | TELESCOPIC BOOM CRAWLER CRANE

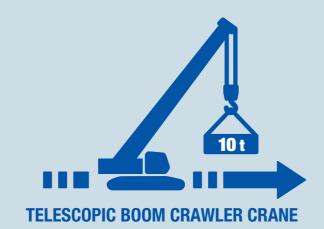
# **BENEFITS OF TELESCOPIC BOOM CRAWLER CRANES**

**Quick & Safer Set Up** 





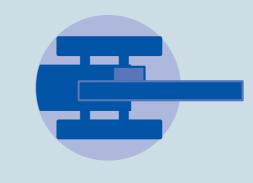
**Maximum Pick & Carry Capacity at 360°** 





**Compact Work Dimension Low Ground Bearing Pressure** 

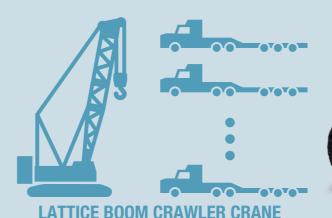
**Less Transportation Costs** 





**TELESCOPIC BOOM CRAWLER CRANE** 

**TELESCOPIC BOOM CRAWLER CRANE** 



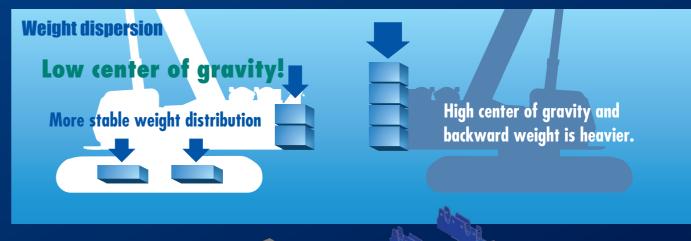
# **PRODUCT CONCEPTS**



# **Proven Genuine Pick & Carry Design**

Good weight and low center of gravity.

(more than 30% less dependent on counterweight with weight transferred to the undercarriage)





Heavy duty rugged carbody frame with strong track extension cylinders.

# Designed to allow foundation attachment and high gradeability

Powerful engine and pump. Powerful track drive motor.



05 | TELESCOPIC BOOM CRAWLER CRANE | TELESCOPIC BOOM CRAWLER CRANE |

# **PRODUCT FEATURES**

# **Operator Comfort**

The spacious crane cab and simple controls offer a more comfortable and functional working environment.



Photo: GTC-700EX, GTC-400EX

Photo: GTC-300EX

# Tiltable Cab (GTC-700EX)



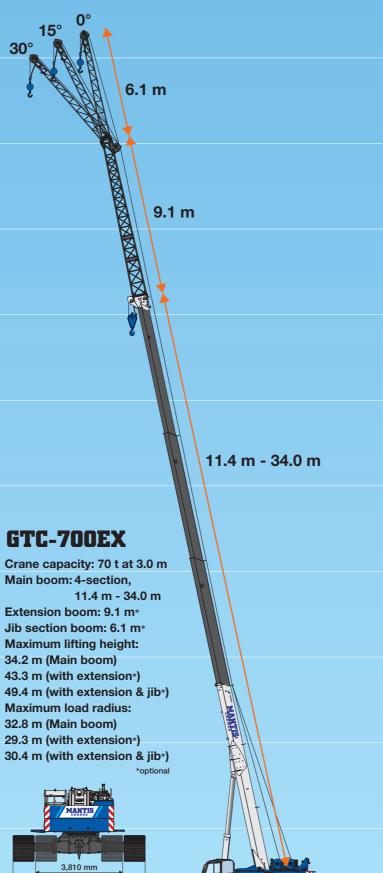


# **Two powerful winches** with cable follower

Two powerful winches with cable follower, drum rotation indicator and 3rd wrap indicator.



Photo: GTC-700EX



6.1 m 9.1 m 10.4 m - 32.0 m GTC-400EX **GTC-300EX** Crane capacity: 40 t at 3.0 m Crane capacity: 27 t at 3.0 m Main boom: 4-section, Main boom: 3-section, 10.4 m - 32.0 m Extension boom: 9.1 m\* Jib section boom: 6.1 m\* Maximum lifting height: 32.3 m (Main boom) 41.2 m (with extension\*) 47.0 m (with extension & jib\*) Maximum load radius: 30.9 m (Main boom) 27.8 m (with extension\*) 29.7 m (with extension & jib\*)

5,590 mm

10.0 m - 24.4 m

Extension boom: 6.1 m\* Jib section boom: 6.1 m\* Maximum lifting height: 24.4 m (Main boom) 29.5 m (with extension\*) 36.3 m (with extension & jib\*) Maximum load radius: 22.8 m (Main boom) 20.0 m (with extension\*) 23.8 m (with extension & jib\*)

10.0 m - 24.4 m



50 m

45 m

6.1 m

6.1 m

# **PRODUCT FEATURES**



# **Load Moment Indicator [AML-C]**

AML-C allows the operator to simultaneously monitor: boom angle, boom length, operating pressure of the elevating cylinder, crane inclination angle, track extension width, counterweight configuration, rated lifting capacity and present hook load. With the crane inclination angle provided while the operator is travelling under the load, AML-C provides the corresponding rated lifting capacity on the screen.

The work range alarm function warns the operator when the crane approaches the pre-registered boom angle (upper limit, lower limit), lifting height and load radius.



AML lamp

# **Auto Engine Idle Mode**

Operator can set the engine speed at low, medium, high (900, 1800, 2100 rpm) or at any desired engine speed by either touch screen or pushing a button on the control screen. When auto engine idle mode is ON, engine will run at low idle speed until a function is activated, then engine will increase to selected speed. After all controls are returned to neutral, engine speed will return to low idle speed.

This function eases the operator's fatigue of stepping on the pedal and improves operability.



Engine page, control screen



Hydraulic page, control screen

# **Color Rear View and Winch Monitor**



Rear view page, control screen



Winch page, control screen

# Control Panel (GTC-700EX, GTC-400EX)

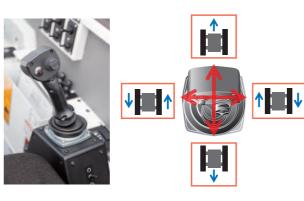
Switches are illustrated based on switch status; Red – OFF / Green - ON



# **Travel Mode**

(GTC-700EX, GTC-400EX)

Select travel mode by either using the touch screen or pushing a button on the control screen, right joystick acts as a travel controller for improved operability.



# **Wide Access Walkways**

(GTC-700EX, GTC-400EX)





# MANTIS MANTIS

Photo: GTC-700EX, GTC-400EX

# **3 Rotation Work Lights**



Light angle can be adjusted by 360° degrees horizontally and 135° degrees vertically from the crane cab.



Control switch

# Wide Hand Rails (GTC-700EX)





09 | TELESCOPIC BOOM CRAWLER CRANE

# **PRODUCT FEATURES**

# **Easy access for maintenance Hydraulic**



# Measuring **Points**



3D Lift Plan (GTC-700EX, GTC-400EX)\*

Customized 3D lift simulation at your fingertips for FREE\*\* for GTC-700EX and GTC-400EX. Easy access and user friendly web page allows you to calculate crane configurations and ground bearing pressure simultaneously. Moreover, you can print out detailed configurations and 3D graphics to further support your work preparation.

\*3D Lift Plan is a product of A1A Software LLC.

\*\*Advanced customized functions will be extra

# **Emergency Backup System**



In the event of electrical or CAN BUS failure, it is possible to bypass the normal control system. This allows the operator to operate one or two functions at a time at reduced speed.

# 3D Lift Plan

# **Remote Controller**

(counterweight, emergency backup operation, carbody jack\*)



# **Self-removable counterweight**

Counterweight can be hydraulically installed/removed by operating the pendant remote controller without the need of a support crane.







Photo: GTC-700EX

# **GTC-300EX Low profile type**

GTC-300EX Low profile type is designed for the storage tank building industry. It is able to work inside of storage tanks due to its low ground bearing pressure. Thanks to its low overall height, it can crawl in and out without cutting additional steel tank plates.



# **OPTIONAL ITEMS**

# **Complete Auger Package**

Includes circuit, hoses, fasteners, stowage bracket, two-speed auger motor and 2 pieces of kelly bar.

	GTC-700EX	GTC-400EX	GTC-300EX
Max. drilling depth	5.7 m	6.0 m	6.3 m
Max. drilling radius	9.8 m	8.4 m	7.9 m
Max. drilling torque	18.9 kN/m		
Max. auger rotation speed	38 rpm		
Diameter of auger	0.610 m/0.762 m/0.914 m Dirt heads or Rock heads		
Auger bits type			



# Work Platform (Australia only)

Work Platform can be fitted to the boom head or first section of boom extension. Heavy duty all steel construction with non-skid floor, Self-leveling platform with position locking pin, Tool storage racks and interior handrails inside. By selecting Work Platform Chart, permissible operating range will be monitored by the load

moment indicator. It also comes with DC hydraulic pump integrated into the crane system to lower and retract the boom with Work Platform to the ground in the event of main hydraulic system failure.





## **Travel Hand Lever** (GTC-300EX)



# **Clip on Polyurethane Flat Pads**



Clip on polyurethane flat pads can be easily installed/removed on top of the standard 3-bar semi grouser shoes.



Standard, 3-bar semi grouser shoe

# **Different size track shoes Emergency engine stop button**

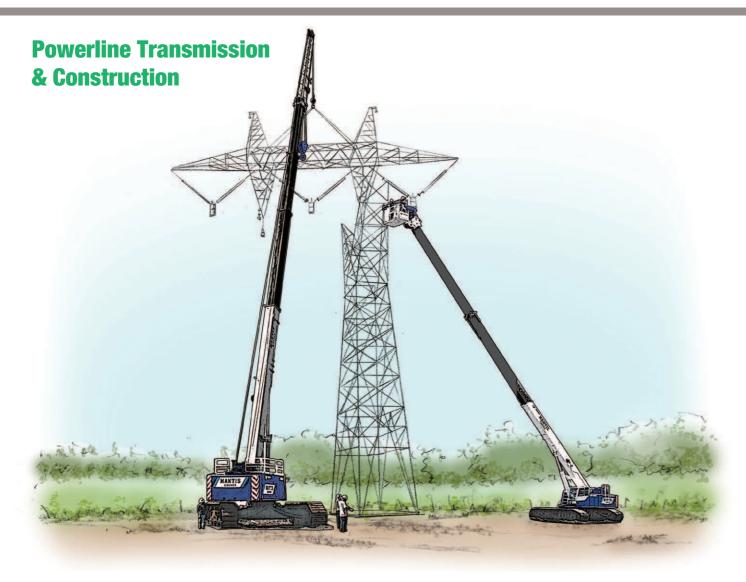
# **Hydraulic Tool Circuit**



Provides 23 l/min and 45 ℓ/min at 176 bar through a 15.2 m twin hose reel with quick disconnect fittings.

11 | TELESCOPIC BOOM CRAWLER CRANE TELESCOPIC BOOM CRAWLER CRANE | 12

# **WORK APPLICATION**





**Storage Tank Building** 



Mining



Foundation Support



# **WORK APPLICATION**

# **General Construction**





# **Wind Energy**



