



THE EVOLUTION IN CRANE TECHNOLOGY

MANTIS CRANES

YOUR PARTNER FOR...

- **Crane Sales**

Offering a wide range of cranes, Self-Erecting Pedestrian Operated and City / Tower Cranes to suit your application and budget.

- **Crane Hire**

The leading crane hire specialist of Pedestrian Operated Tower Cranes and lifting equipment with jib lengths from 20m to 65m.

- **Service & Support**

We support all our equipment on a nationwide basis with a variety of support options to ensure that your crane is kept in peak operating condition.

- **Refurbishment & Repair**

Mantis offers a comprehensive service in line with manufacturer's recommendations to protect the value of your investment and enhance your crane's resale value.

- **Hire & Sale of Generators & Ancillary Lifting Equipment**

We offer a wide range of Generators and equipment all supported by the Mantis reputation for quality.



FOREWORD

Mantis Cranes, established in 1999, is a fast growing, family-run organisation. As the innovator of self-erecting cranes to the Irish market we have progressed and developed to become much more than simply a supplier of cranes to the construction industry.

Today's extensive operation involves a growing team of over 50 people, together with an increasing number of market partners working together to offer you, our Customer, a range of excellent products either for sale or hire, backed up by a superb team of professionals involved in manufacturing, service, health and safety, research and development, quality control and all committed to meeting your needs.

As the company has developed, so too has our product range. Building on the success of the self-erecting crane we now offer tower cranes, mini-crawler cranes, generators and a varied range of complimentary attachments. We have carefully sourced and selected all products, which are worthy of carrying the Mantis brand and we are happy to stand behind those products in the market place.

Over our short time in existence Mantis has received numerous accolades for innovation of both our product and service. The most prestigious of these was becoming a finalist in the 2006 Ernst & Young Entrepreneur of the year award in recognition of our entrepreneurial achievements. Most recently the company was recognised for its excellent standards of safety and subsequently awarded the Safe-T-Cert, **The Safety Management System for the Construction Industry on the Island of Ireland**

I hope the following pages go some way to enlightening you further on our company Mantis Cranes.


Managing Director

“GOING TO MANTIS WAS A VERY EASY DECISION BECAUSE WE KNEW THE REPUTATION OF THE COMPANY”.

David Gawle, Contracts Manager, Cedar Construction, Ireland.

OVERVIEW

From the outset we have continuously followed a program of innovation and quality control. As part of our strategy we established our in-house Research and Development department in 2004 with a view to keeping our self-erecting cranes in the vanguard of technology.

In 2005 we established a depot in Durham to service the needs of our ever-increasing

customer base in Great Britain. Since then we have continued to build our network of hire partners and we now have national presence with representation in the North, North West, South West and South East of the country.

In 2007 we teamed up with American Crane Company ‘Celtic Cranes’ to distribute the Mantis range throughout the USA.

TEAM

The Mantis team consists of trained and motivated professionals dedicated to providing our Customers with best in class service. We at Mantis are committed to investment in training, skills and learning to ensure we have the

competence to deliver a world-class service. We have a culture of openness and employee involvement and continually seek opportunities for improved employee led innovation.

FACILITIES

The manufacturing facilities at Mantis are at the heart of our business with the latest and most up to date manufacturing technology. The head office in Donegal features 35,000ft² of work space including maintenance workshops, metal finishing and parts storage. Our engineering is built around a team of innovative and skilled engineers equipped with the latest technology. This ensures all cranes are manufactured to the highest specification

and prototypes are thoroughly tested thereby guaranteeing high performance, reliability and longevity. Mantis engineers not only produce cranes, they also identify and develop new ideas for existing cranes, which is part of our philosophy of Total Quality Management and Continuous Improvement. We do this to ensure that every machine we build, now and in the future, maintains the company’s reputation for reliability.



Mantis assembly workshop





SERVICE

CONSULTANCY

After initial contact a member of our team will carry out a comprehensive site survey. From this we will provide a detailed proposal including drawings showing the range, capacity and operational area of the appropriate crane options. We will then provide advice and guidance on base location and design, together with fully insurable concrete base details if required.

LOGISTICS

We can provide transport and logistics services as part of our complete package. This is supported by experienced and reliable haulage professionals who can plan and coordinate every aspect of the delivery, positioning or collection of one of your cranes.

SUPPORT

Our team is dedicated to providing an efficient and comprehensive all-round service. We provide thorough induction and a second-to-none back up service including erection, dismantling, maintenance, repair and telephone support. Mantis operates fully equipped mobile service vehicles, each with a comprehensive stock of spare parts to enable on-site repairs when called to a breakdown. Each Mantis engineer is highly trained, so whether on the road or at our base, Customers are always assured the highest level of service.

NATIONAL PRESENCE

Since 1999 we have established a number of satellite depots throughout Ireland and the UK. These allow us to maximise the efficiency of the service and back-up which we offer you.

HEALTH AND SAFETY

Management of Health and Safety is at the very core of the Mantis business process. Concern for Health and Safety, of our own employees, our Customers and the general public is always to the forefront of everything we do. This total approach to every aspect of Health and Safety allows us to provide you, the Customer, with the comfort that we are continually striving to safeguard the Health and Safety of every individual who is either directly or indirectly involved with Mantis Cranes. Over the years we have invested in developing safe systems of work and have implemented excellent safety management practices. In January 2008 the company was awarded Safe-T-Cert accreditation, **the Safety Management System for the Construction Industry on the Island of Ireland.**



On-site diagnostic support

“THE BACK-UP SERVICE AND SUPPORT RECEIVED FROM MANTIS IS SECOND TO NONE.”

Kevan Hurst, Operations Manager, Robertson Timberkit, UK.

“I AM IMPRESSED BY THE SUPPORT MANTIS PROVIDES AND LOOK FORWARD TO DEALING WITH THE COMPANY AGAIN IN THE FUTURE.”

Jack Cunnane, MD, Cunnane & Donaghey Construction, Ireland.

“THE CRANE HAS MADE A HUGE DIFFERENCE TO PRODUCTIVITY AND LESS TIMBER FRAME PARTS HAVE BEEN DAMAGED THEREFORE WASTE MATERIAL ON SITE HAS BEEN REDUCED”.

Margaret O’Keffe, Director, Premier Engineering, Ireland.

PRODUCT INFORMATION

TC 25

PRODUCT OVERVIEW

The TC 25 is an innovative, compact and self-contained unit, which is permanently ballasted and mounted on high-speed axles. With an integrated generator, this award-winning crane offers rapid deployment and ease of use.

This Crane is aimed at builders of steel frame or timber frame housing as well as conventionally built units. The crane was inspired by the requirements of the smaller building contractor, the growing demand for timber and steel framed houses and projects of shorter duration, which until now would not have absorbed mobilisation costs associated with larger units.

- Can be towed to site by articulated lorry and subsequently moved around site using an agricultural tractor or telescopic forklift
- Fitted with hydraulic outriggers allowing the crane to be levelled with ease
- Carries its own permanent ballast weights hence eliminating the need for a second lorry for transportation
- A generator can be fitted neatly on board the crane whilst in transit and the generator, if adequately sized, can also be used to power on-site tools
- Radio remote control as standard

The individual features of the TC 25 allow for fast and easy erection of the crane, easy on-site transportation, reduced costs and increased productivity.

LOAD CURVE DIAGRAM

Jib Length	Hook Height	Max Lift Capacity	Working Radius with Max lift Capacity	Capacity at Jib end
25m	19m	2,000kg	10.8m	750kg



TC 25 timber framing in Hudson Valley, NY, USA.



“OUR MANTIS CRANE HAS CHANGED OUR OVERALL APPROACH TO ON-SITE MATERIALS HANDLING”.

Paul O'Rourke, Contracts Manager, Carvill Group, Northern Ireland.

PRODUCT INFORMATION

SELF-ERECTING CRANE

PRODUCT OVERVIEW

Mantis self-erecting cranes are aimed at all building contractors seeking to increase productivity, decrease costs and improve profitability.

- Faster, less expensive and easier to erect and dismantle than traditional tower cranes
- More cost effective than a mobile crane and operates in a more confined space
- Ease of use with remote control operation of crane
- Allows for fast and accurate placement of materials. This enables better utilization of site storage, reduced handling and less material spoilage
- Increased utilization of resources on site due to speed and accuracy of material delivery
- Enhanced Health and Safety due to less movement of wheeled site handling equipment
- Lower site reinstatement costs
- Reduced noise and pollution
- Suitable for sites with restricted access

The features of the self-erector result in a reduction of costs, increased efficiency and productivity, reduced Health and Safety issues and less disruption to neighbours.

LOAD CURVE DIAGRAM

Model	Jib Length	Hook Height	Max Lift Capacity	Working Radius with Max lift Capacity	Capacity at Jib end
Mantis 23.09	25m	18m	2,000kg	10.8m	750kg
Mantis 30.10	30m	20.70m	4,000kg	9.30m	1,000kg
Mantis 32.10	32m	21.70m	4,000kg	10.90m	1000kg
Mantis 35.10	35m	23.30m	4,000kg	12.05m	1000kg
Mantis 40.10 T	40m	25.6m	4,000kg	13m	1,000kg
Mantis IGO 50	40m	23.2m	4,000kg	13m	1,000kg
Mantis HDT 80	45m	34.2m	6,000kg	13.3m	1,250kg



Mantis HDT 80 working on commercial development in Belfast



“OUR BUDGET WAS TOO TIGHT FOR A FULL SIZED TOWER CRANE AND THE SPACE WAS LIMITED ON SITE FOR A SELF-ERECTING CRANE; ONE CALL TO MANTIS AND THEY CAME UP WITH THE IDEAL SOLUTION, A REMOTE CONTROL CITY TOWER CRANE”.

Brian Polly, Polly Brothers Building Contractors, Northern Ireland.

PRODUCT INFORMATION

CITY TOWER CRANE

PRODUCT OVERVIEW

The City Tower crane is intended for sites where there is not enough space on the ground for a bottom-slewing, self-erecting crane or where the capacity of a larger tower crane would not be justified.

- Can be operated by way of pedestrian remote control or from cab
- Can be installed into lift shafts or confined areas within a site boundary using disposable fixing angles
- Provides capacity greater than a self-erecting crane without the expense of a tower crane
- Variety of bases available

Using a City Tower Crane means an increase in efficiency, enhanced productivity and an overall reduction in costs.

LOAD CURVE DIAGRAM

Model	Jib Length	Hook Height	Max Lift Capacity	Working Radius with Max lift Capacity	Capacity at Jib end
TL 35	35m	As required	2000kg	18m	1000kg
TL 40	40m	As required	2000kg	21.3m	1000kg
TL 45/35	35m	As required	4000kg	14.7m	1500kg
TL 45/40	40m	As required	4000kg	15m	1300kg
TL 45	45m	As required	4000kg	13.8m	1000kg
TL 50	50m	As required	4000kg	15.3m	1100kg
TL 55	55m	As required	5000kg	15.8m	1200kg
TL 65	65m	As required	6000kg	21.7m	1500kg



Mantis TL 55 working on apartment development in Dublin



“MANTIS REPRESENTATIVES ARE VERY EFFICIENT AND EXTREMELY HELPFUL. I WILL USE MANTIS AGAIN AND HAVE NO PROBLEM RECOMMENDING THE COMPANY TO OTHERS”.

Bruce Moncur, Hart Builders, Scotland.

PRODUCT INFORMATION

MINI-CRAWLER CRANE

PRODUCT OVERVIEW

The mini-crawler crane is a compact machine, which can operate in places where it is difficult either to deploy or operate larger material handling equipment. This miniature lifter is regularly used for steel erection, structural glazing, and internal structural work such as railway stations, shopping centres, or churches and for general maintenance work where a larger crane is ruled out on the grounds of size or cost.

- Can operate in confined spaces
- Can work in areas with restricted access
- Can be powered by diesel or electricity thus allowing pollution free use in enclosed environments
- The remote control feature allows the operator to follow the load
- Can be fitted with a wide range of specialist lifting attachments

MODELS AVAILABLE

MODEL MC 285

Dimensions when folded	3360mm (L) x 750mm (W) x 1440mm (H)
Weight of machine	1900kg
Max Lift	2,820kg @ 1,4m radius
Max working radius & Lifting height	8.205m
Max lift with jib fully extended	150kg @ 8,205m radius

MODEL MC 305

Dimensions when folded	4549mm (L) x 1280mm (W) x 1695mm (H)
Weight of machine	3820kg
Max Lift	2,930kg @ 2,5m radius
Max working radius & Lifting height	12.16m
Max lift with jib fully extended	250kg @ 12,16m radius

THIS PRODUCT IS AVAILABLE IN IRELAND ONLY



Maeda 285 working on hotel development in Dublin.



“THE PROJECT WAS BESIDE A CHURCH AND WITHIN A FEW FEET OF A CRECHE SO WE WERE PLEASED THAT THE NOISE LEVEL WAS SO LOW”.

Sean Kelly, Foreman, Irwin Construction, Northern Ireland.

PRODUCT INFORMATION

GENERATORS

PRODUCT OVERVIEW

- Generators are ultra-silent
- Internal banded fuel tank can be easily removed for cleaning without dismantling the generator
- Additional electrical outlets can be easily fitted
- Fitted with multi-function electronic control panel - low diesel alarm, service interval notification, engine coolant level and automatic shutdown for engine protection
- External fuel bowser can be connected with quick release fuel lines reducing risk of pollution and increasing the refuelling interval
- Fork pockets fitted as standard allowing for the safe lifting of the generator
- Fitted with lifting hooks to facilitate lifting of the unit by crane
- Sump drain pump fitted as standard

MODELS AVAILABLE

Model	Size (Kva)	Noise Level (db)	Weight (Kg)	Dimensions of Machine
Mantis 20	20	60	910	2000mm L, 900mm W, 1500mm H
Mantis 30	31	61	1200	2380mm L, 1000mm W, 1700mm H
Mantis 40	44	62	1220	2380mm L, 1000mm W, 1700mm H
Mantis 60	65	63	1380	2380mm L, 1000mm W, 1700mm H
Mantis 75	82	62	1550	2900mm L, 1000mm W, 1700mm H
Mantis 100	109	65	1670	3000mm L, 1150mm W, 2100mm H
Mantis 150	165	70	1990	3400mm L, 1100mm W, 1790mm H
Mantis 180	198	70	2360	3800mm L, 1400mm W, 2100mm H
Mantis 200	220	70	3000	3800mm L, 1400mm W, 2100mm H
Mantis 250	275	70	3400	4200mm L, 1400mm W, 2100mm H
Mantis 325	325	70	3500	4200mm L, 1400mm W, 2100mm H



Range of Mantis generators



Fuel tank being removed

Quick release fuel lines being fitted

ACCESSORIES

To maximise the use of your crane we offer a wide range of crane attachments for hire and sale. The use of these attachments allows the safe and efficient handling of on-site materials.

WHY OURS?:

With our company's commitment to excellence and value we have ensured that our accessories are of the highest quality. In order to be branded with the Mantis logo it is imperative that our products not only meet but also exceed industry standards.



LIST OF ACCESSORIES

- Banana and column concrete skips
- Single and double lift block grabs
- Fork toes up to 2,000kg capacity
- Self discharging boat skips
- Forklift tipping skips
- 2 person crane or forklift access platforms
- Stretcher cages



EX-HIRE FLEET & REFURBISHED

Mantis is continually adding new machines to its fleet and offers ex-rental units for sale. In addition, Mantis, as part of its ongoing Customer commitment, is happy to take a pre-owned Mantis crane as part exchange against a new model. Before being offered for sale, all of these cranes will undergo a thorough and rigorous examination and overhaul and are serviced in line with the industry code of practice.

Having undergone this rigorous examination we are happy to offer all of these cranes with a Mantis Warranty.

These units, some as little as one year old, provide you with the opportunity to acquire a crane to suit your requirements and budget. Visit our website www.mantiscranes.ie to check out the constantly changing availability of ex-rental and second-hand units.

CRANE REFURBISHMENT

Having recently completed a major investment in state of the art paint finishing line and additional workshop space, Mantis is now able to offer a comprehensive refurbishment service on all makes of cranes in accordance with manufacturers recommendations. The refurbishment service will extend the useful life of your crane, increase its resale value and improve your profitability.

This multi-point service will examine;

- Hoist and trolley ropes
- Motors and brakes
- Structure
- Pulleys, bearings and sheaves
- Control systems
- Shot-blasting and repainting as necessary
- Testing as required

Only original replacement parts are used throughout. All refurbished cranes are supported by the Mantis warranty.



Before refurbishment



After refurbishment



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