

# REMOTE & TELEREMOTE

Provide a safer working environment  
for both the machine and the operator.



# The most **reliable** remote-control solution in the world.

RCT's ControlMaster® Remote and Teleremote options are setting the benchmark for productivity and safety on a global scale. Empowering clients to improve efficiencies and effortlessly meet production targets.

Our remote ControlMaster® range is available for all mobile fleet equipment, regardless of make or model and is designed to increase profitability, productivity, and safety.





# Take full **advantage** of Remote and Teleremote.

Machine performance increases significantly when operations are operating remotely because inconsistencies are removed. Implementing ControlMaster® Remote and Teleremote will help raise operation productivity and safety, which will increase business profitability.

## Increase your yearly profit by

- ✓ Increased run time on machines
- ✓ More buckets per day
- ✓ Reduce machine damage
- ✓ Eliminate unplanned downtime
- ✓ Less wear and tear
- ✓ Increase fuel efficiency

## Improve operational safety and equipment damage

- ✓ Better operator health
- ✓ Easy-to-use system
- ✓ Avoid unforeseen accidents
- ✓ Improved working conditions
- ✓ Reduced fatigue

## Expand productivity and minimise downtime

- ✓ Faster tramming
- ✓ Remove disparity between operators
- ✓ Improved overall efficiency
- ✓ Faster cycle times

# Line-of-Sight


RCT's entry-level option for businesses considering transitioning to automation. Allows machine operators to manage any type of equipment by utilising a handheld device and controlling machine functions within a visual range from 10-200 metres.

Work from a safe distance, reduce operator fatigue, improve operator safety, and prevent repetitive stress injuries with this solution.

Ideal for bigger applications, the lightweight and easy-to-use Pendant Remotes are built to withstand the harshest conditions.

ControlMaster® Radio Remote Control devices are ideal for more complex mobile machinery and applications.

Compatible with any make and model of mobile equipment, these devices allow for continuous operation resulting in increased productivity while ensuring operator safety.



CM1000	MTX1000	ATX1000	ATX2200
Handheld series	Micro Pendant	Heavy Duty	Heavy Duty & Teleremote capable
Minimalistic design Suitable for fixed plant machinery 6 and 12 functions Adjustable outputs	Smallest and lightest Ideal for light Line-of-Sight applications Suitable for all mining and industrial applications	Built for Line-of-Sight operation Used on all mobile mining and industrial machines	RCT's most powerful remote control unit Teleremote and AutoNav ready Used on all mining machines

# Handheld Series

## CM1000 Transmitter with MRX1000 Receiver

Minimalistic yet sturdy, lightweight and easy to use across all industrial applications to perform simple tasks safely and productively.

RCT's CM1000 series remotes increase the safety and productivity of mobile and fixed plant machinery.

Available in 6 and 12 functions as well as 6 functions with 2 proportional paddles, the CM1000 range can tackle numerous tasks. Outputs can be increased if additional control is required.

- ✓ Transmitter functions up to 12
- ✓ LCD feedback during operation
- ✓ Long-life battery operation
- ✓ IP65 rated
- ✓ Configurable
- ✓ 200 metre operating range
- ✓ Standard receiver with 6 inputs
- ✓ Expansion modules up to 16 functions
- ✓ Factory set for 1-to-1 operation
- ✓ Suitable for permanent installation
- ✓ Proportional & digital control
- ✓ Off-the-shelf solutions
- ✓ One-to-many operations
- ✓ Customised software apps
- ✓ Customised labelling
- ✓ Multiple apps to suit all situations



# Micro Pendant

## MTX1000 Transmitter with MRX1000 Receiver

Our smallest and lightest remote-control option. Uses the same proven operating system as the ControlMaster® ATX's and packages - weighing in just over 1kg (2.2lbs)! The MTX is ideal for short-term Line-of-Sight applications and is suitable for all mining and industrial applications globally for both surface and underground machines.

- ✓ Lightweight
- ✓ Full proportional joysticks
- ✓ Fast recharge
- ✓ Clear graphical colour display
- ✓ Adaptable across all machine types
- ✓ IP67

### Specifications

Dimensions	H 68mm x L 77mm x W 20mm
Weight with battery	1.25kg
Operating temp	-15°C to +65°C
Charge time	3 hours
Display	Colour, 180° viewing angle
Operation	16 hours continuous





# Heavy Duty

## ATX1000 Transmitter with MRX1000 Receiver

Built for Line-of-Sight operation only, the ATX1000 can be supplied to all mining regions globally and used on all mobile mining and industrial machines – regardless of type, brand, and age. The ATX1000 has all the same rugged design features as the ATX2200.

- ✓ Heavy-duty ergonomic protective side rails for operator comfort and added protection to console
- ✓ Protected internal antenna
- ✓ Detailed colour graphical display using internationally recognised symbols
- ✓ 16-hour continuous operation Lithium-Ion battery
- ✓ Heavy-duty impact, dust and weather-sealed casing
- ✓ Low maintenance
- ✓ Practical and straightforward operation



### Specifications

Dimensions	L385 x W200 x H215mm
Weight	3.7kg
IP rating	65
Operating temp	-35°C to +65°C
Operating voltage	12 to 16 V
Battery type	Lithium Ion
Frequency	International compliant
Antenna	Internal
Display	Colour graphical with 180° viewing angle

# Heavy Duty and Teleremote Ready

## ATX2200 Transmitter with ARX2200 Receiver

RCT's most powerful remote-control unit. The ATX2200 can be used in Line-of-Sight, Teleremote and Guidance applications. It can be used on all mining machines – regardless of type, brand, and age and supplied to all mining regions globally.

- ✓ Heavy-duty ergonomic protective side rails for operator comfort and added protection to console
- ✓ Protected internal antenna
- ✓ Detailed colour graphical display using internationally recognised symbols
- ✓ Smaller and more compact
- ✓ Lightweight
- ✓ International frequency compliant
- ✓ 16-hour continuous operation Lithium-Ion battery
- ✓ Operating voltage 12 to 16 V
- ✓ Waterproof rating IP65
- ✓ Heavy-duty impact and dust-sealed casing

### Specifications

Dimensions	L385 x W200 x H215mm
Weight	3.7kg
IP rating	65
Operating temp	-35°C to +65°C
Operating voltage	12 to 16 V
Battery type	Lithium Ion
Frequency	International compliant
Antenna	Internal
Display	Colour graphical with 180° viewing angle



# Additional options & upgrades

## ATX2200 Portable Teleremote

Where Line-of-Sight operation is available but clear vision is obstructed or unsafe, a portable Teleremote solution allows effective operation of the machine from a safe distance well beyond their natural viewing sight.

The ControlMaster® ATX Portable Teleremote system has been designed to perform short term Teleremote tasks, such as recovery and short term production, and operator Teleremote training.

APN12187



## Machine Containment System

The ControlMaster® Machine Containment system has been designed for underground Remote/Teleremote mining applications for single and multiple entries to a remote mining area.

Machine Containment prevents the remote-operated machines from exiting the area, and personnel from entering the area.

APN11771



# Teleremote

Removes the operator from the hazardous area and relocates them to a secure and protected location where they can control the machine via remote with the help of multiple cameras and sensors.

Ensure operators can work effectively from a well-equipped Teleremote Control Centre.

- ✓ Climate control
- ✓ Air filtration management
- ✓ Diesel-powered generator
- ✓ Auxiliary power management systems
- ✓ Ergonomically designed operator console & chair
- ✓ Vision monitors and vision management system
- ✓ Window treatments
- ✓ IP, fibre optic and mesh communication
- ✓ Network ready
- ✓ PPE storage
- ✓ Fridge
- ✓ Sound system
- ✓ Site-specific requirements ie decals, lighting and fire extinguisher





# Teleremote Control Options

RCT understands that every mine site is different. Therefore, we have multiple options for relocating operators to a safe location to ensure we can meet the site's specific needs.



## CONTROL CENTRE

Strong steel exterior, which can withstand the harshest of mining conditions



## TRAILER CABIN

When added with vision technology the Trailer Cabin permits control of mobile equipment with the use of screens placed in front of the operator



## MOBILE CENTRE

Can be placed in your mobile unit (truck, van, etc).



## OFFICE FIT-OUT

We can modify an existing office or donga to become a control centre

# Comprehensive Services

All solutions are backed by RCT's leading support model and ever-expanding service network; aimed at providing local support, using local people.

## Site Audit & Consultation

RCT can perform site audits to ensure the safest and most productive approach is taken. RCT provides consultancy services, including feasibility studies and strategies to improve technology and optimise operations.

## Customised Solutions

RCT Custom is a department specialising in the delivery of bespoke solutions to address vital operational improvements. The team has the expertise and resources to resolve challenges, regardless of the size or scope of the project.

## Skills Training

Industry-recognised courses are tailored to suit operators and maintenance personnel, allowing sites to be more self-sufficient. Supported by practical demonstrations and hands-on experience, relevant content is delivered based on the vast knowledge of our trainers and technicians.

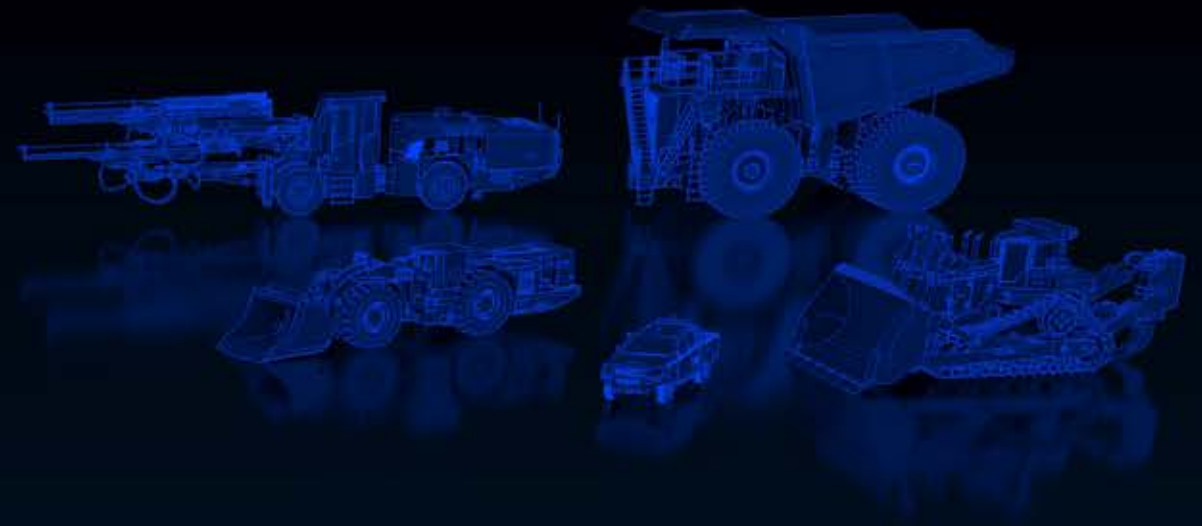
## Parts

Keep your operation running without disruptions. RCT, has you covered with its stock of 2,500+ specialised parts that can be shipped anywhere in the world.



# From the simplest to the most sophisticated, RCT offers **multiple levels** of automation.

The ControlMaster® AutoNav range is scalable. With upgrades you can go from our Lite solution through to a fully autonomous fleet, with Plus. In addition, RCT's Automation path allows the combination of all the latest technology available to deliver the full solution including Automation, Traffic Management, Integration, and much more.



**LEVEL 1**

LINE-OF-SIGHT (RADIO)

**Entry level option:**

Allows operators to remotely control machines from a line-of-sight distance of 10-200 metres.



**LEVEL 2**

TELEREMOTE (VIDEO)

**Relocates operators to a secure location:**

Where they remotely control the machine with the help of multiple cameras and sensors.



**LEVEL 3**

AUTONAV LITE

**Setting the global standard in Automation:**

- Automation Centre
- Automated Steering
- AutoTram
- Guidance Dash (G-Dash)
- Machine Containment System
- FMS Ready



**LEVEL 4**

AUTONAV

**Options to further enhance AutoNav:**

- Multi Machine Select
- Multi Machine Control
- AutoTram Plus
- AutoDump
- AutoDig
- Guidance Data (G-Data)



**LEVEL 5**

AUTONAV PLUS

**The future of mining which integrates:**

- Multi Fleet Select
- Mega Wall Streaming
- Fleet Monitoring
- Traffic Management
- Protection Systems
- Integration







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