

Johnson radio controlled chokers

System Overview

The radio controlled choker (RCC) system is ideal for use with all types of yarders, towers, slack pulling carriages and radio controlled carriages. The system is adaptable to almost any high lead or carriage system and benefits increase with the number of chokers being used at once. The system is best suited for conditions where adequate deflection minimizes ground lead effects, and works well in second growth timber.



Advantages and Benefits:

- Safer landing; no need to climb into piles
- Better cold-decking; larger piles/higher windrowing
- Landing flexibility; selective or “all-at-once” releasing
- Shorter turn cycles; better use of equipment/manpower
- Increased production; extra loads of logs per day

System Highlights:

- New and improved design utilizing the latest technology
- Bells available for 1/2” to 1” cable
- Light weight design at 4 to 5 lb for easy handling
- Positive latching avoids unbelling a turn
- High-quality seals to resist moisture

System Components:

A typical system is made up of a set of RCC bells, a programmable transmitter, a remote releasing keypad, a magnetic-base antenna, and a few connection cables. Each choker is programmed with one of 256 distinct release codes at the time of manufacture. The transmitter is programmable at the yarding machine and will transmit to as many as nine chokers at once. A release code memory-retention feature is also incorporated into the transmitter. Additional accessories include a hand-held programmable transmitter to provide an alternative means of testing and releasing the bells, and a puller / pusher servicing tool.

Installation and Service:

Installation of the system is a simple process requiring about one hour. An installation, service and maintenance manual is provided with each system. Field and shop service is limited only by the availability of the necessary electronics expertise, instrumentation, tools and parts to do the job. Johnson Industries Ltd. is committed to maintaining a supply of parts and the necessary in-house capability to service all system components on a quick-turnaround basis.

Operation:

In the case of cable yarding, the RCC is set in the same manner as conventional choker bells. When the turn arrives at the landing, the yarder operator slacks off the rigging or carriage line and releases the RCCs using a remote keypad mounted in the cab. The RCCs can be released “all-at-once”, individually, or in groups. For identification purposes the RCCs can be color-coded with fluorescent paint. Choker tension creates sufficient friction between the latch pin and arm to prevent unbelling when the logs are in the air.



Typical RCC System:

- 6 X Radio Controlled Chokers
- 1 X Set of quick connect cables
- 1 X Main Transmitter
- 1 X Remote Keypad
- 1 X Portable Transmitter / Tester
- 1 X Puller / Pusher Tool
- 1 X Antenna

Productivity Gains

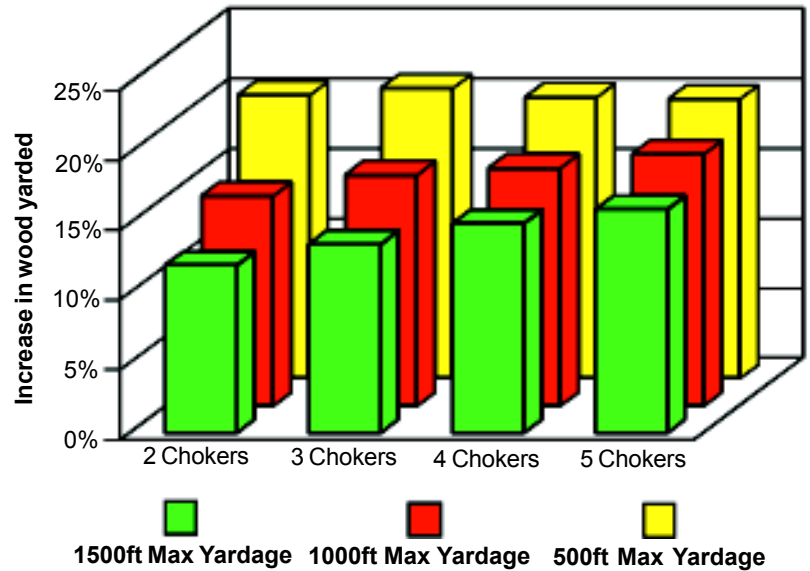
Productivity gains resulting from the use of RCCs vary depending on a number of factors. These factors include the number of chokers being used, the yarding distances involved, as well as other factors. If used in a good environment, the electronic choker system can result in productivity gains of up to 30%. Typical productivity increases are shown on the accompanying bar chart.

Technical Details

The RCC system operates in a frequency range of 72 to 76 Mhz. Transmitter range varies depending on the environment and is typically between 150 to 200 feet. The transmitter operates on either +/- 12 or 24 volt DC power. Typically the batteries inside the RCCs last from 1.5 to 3 months, depending on yarding conditions.

RCC Productivity Increases

(single shift operation)



RCC004

RCC003

RCC002

RCC001

Model	Cable Sizes	Approx. Height - inches (mm)	Approx. Weight - lbs (kgs)
RCC004	1/2" to 9/16"	4.0 (100)	4.0 (1.8)
RCC003	5/8" to 3/4"	4.0 (100)	5.0 (2.3)
RCC002	7/8" to 1"	5.75 (150)	12.0 (5.4)
RCC001	5/8" to 3/4"	5.75 (150)	10.0 (4.5)



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