

## CABLE REELERS

If there is one task that can be a real challenge, it is the handling of the electric cabling when electro powered mining equipment requires relocating.

This task has been made vastly more manageable with the use of FMA's cable reeler's.

These specialised reeler's can be fitted to a truck, a front-end loader, a lift truck or other forms of mobility to give control of rolling or unrolling the cable as the shovel machinery is moved.

The key benefit of these reeler's is that they enable far greater operational efficiency and in doing so also facilitate a greater level of operational safety.

FMA creates a range of models designed according to weight, diameter and length of cable required; as well as the characteristics of the work area and the distance of operation.



### EIV 517

This reeler model has been cleverly designed to enable a loader carrying the reeler to place the cable to one side of the loader rather than simply reeling and unreeling in a straight line.

Laying the cable to one side of the loader - maybe to one side of the track can effectively reduce the risk of the cable being damaged by other machinery.



### CRH450 - CRH900

The truck mounted CRH450 cable reeler, has a capacity of handling 450 metres of cable. The truck has a workstation, which rotates the reel by way of hydraulic motor that either delivers or collects the cable.

The truck mounted system can come with second reeler of 450 metres, to become the CRH900. A feature of this design is that there is an articulated crane used to interchange the reels.



### CABLES REPAIR STATION

These have been designed to deliver fast and continuous maintenance service for used cables.

The station consists of two spinning reels, with the station itself in between. the cable is pulled simultaneously in the direction chosen by the operator, passing inside the container from one reel to another, in order to check and repair the cable inside.

The complete unit is mounted on a skid base so that in effect it can be a mobile cable repair workshop.



### CRB 450

This reeler is mounted on the arms of a Wheel Loader, the reel is spun by an engine to deliver or pick up the cable and the loader arms allow to raise the winder and approach it to the parapet.

Max Capacity (m)	450 cables O2 1/2"
External Drum Diameter (mm)	1.900
Internal Drum Diameter	920
Drums Width	1.090
Drums Weight (kg)	801
Reelers Weight (kg)	811
Drums Reeling Speed (Km/h)	3.2 - 6.4
Max Cable Traction (Kg)	1.000
Min Hydraulic Requirements	2000 - 2500 PSI 15 US GPM

Max Capacity (m)	450 cables O2 1/4"
External Drum Diameter (mm)	1.900
Internal Drum Diameter	920
Drums Width	1.090
Drums Weight (kg)	801
Reelers Weight (kg)	811
Drums Reeling Speed (Km/h)	3,2 - 6,4
Max Cable Traction (kg)	907
Min Hydraulic Requirements	2000 - 2500 PSI 15 US GPM

Weight (kg)	10.000
Reeling Speed (Km/h)	3.2 - 6.4
Max Cable Traction (kg)	907
Hydraulic Requirements	2.000 - 2.500 PSI 15USGPM
Control System	(Remote, Proportional and inalambric.)

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## CRC 150

The CRC 150 has been developed for winding the steel cables used by mining shovels when the cable lifespan has come to an end. This unit has a capacity of 150 metres.



## CABLES REELER LECTERN

The lecterns on which the cable repair stations sit can be placed independently or integrated into workshops established within the maintenance area of a mining operation. Having them placed independently or within a workshop enables repairing of the cables and also keeping them stored in a compact form. A feature of the lecterns is that they have a skid type footing which enables them to be easily dragged for relocating.



## CRT 350

The CRT 350 is a useful cable reel fitting that can be mounted in a truck or trailer for transporting cable over a distance. The system has a capacity of 350 metres of cable. They're commonly used for installing bypass cabling where an existing cable has been damaged or alternatively for extending cables. These units are fitted with diesel power unit to feed the rolling system.



## CRL 500

The CRL500 is a handy unit that can add additional powered cable or to give a greater level of power to mine-site shovels and drills thus enabling them to extend their operating radius or work with increased power... a really handy unit that can contribute greatly to productivity capacity.

Max Capacity (m)	120
Pull Strength (kg/m)	5.600
Leveling System	2 front and 2 rear stabilizers
Cable Type (mm)	O76,2
Max Cable weight (kg)	3.000
Drum Weight (kg)	12.500 (whithout cable)
Control System	Wireless remote control and direct manual control
Crane Capacity (kg/m)	6000

Max Capacity (m)	100 - 450
Drums Reeling Speed (RPM)	2,5
Time in reeling 200 meters of cable (min)	26
Weight (kg)	1.650
Electric Requirements	380V - 50Hz - triphasic
Control System	(Pendant in Cabinet)
Mounting	Skids

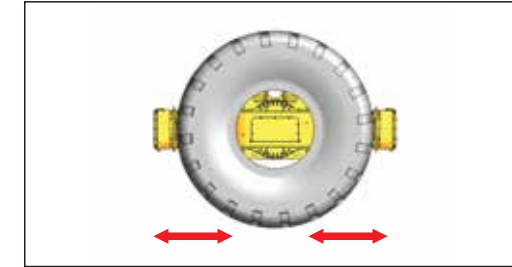
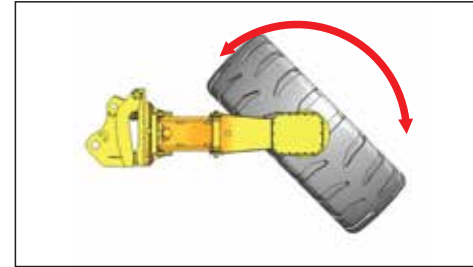
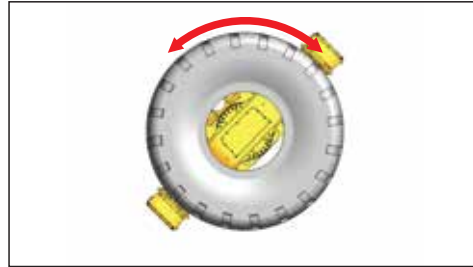
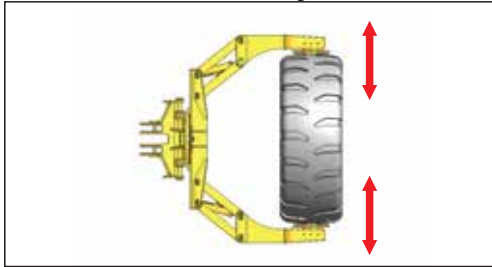
Max Capacity (m)	100 - 450
Turning Drum Speed (m/min)	2.5
Time for 450 m. cable reeling (minutes)	10 approx.
Cable Type (mm)	O100
Electric Requirements	380V - 220V - 50Hz - triphasic
Drum Weight (kg)	1200 (without cable) 3700 (w/cable)
Control System	Independant Remote Control and Manual direct control
Mounting	Over Suspension System

Drums Capacity (m)	500
Service Tensions (Kv)	Hasta 15
Weight (kg)	9.564
Hydraulic Requirements	20GPM a 2.500PSI
Electric Requirements	440V - 60 Hz
Control System	Inalambrc Control with joystick



# TYRE HANDLER

## Movements of the tyre handler



### Opening and closing arms

The arms of the Tyre Handler are opened and closed to:

- Manipulate tyres of different sizes.
- Hold and release the tyres.

### Main body rotation

The whole set of tyre and handle can be rotated to:

- Align rim holes with bolts.
- Set the tyres onto the rims.

### Pads Rotation

The Tyre Handler Pads can be rotated to:

- Move the tyre from vertical to horizontal position and vice versa.
- Rotate the tyre from one face to the other

### Lateral (Sideshift)

The Tyre Handler can be moved from side to side to:

- Facilitate the horizontal alignment of the tyre with the axle or in the mounting tyre process

Model	TH40		TH35		TH30		TH25		TH20		TH18		TH13		TH10		TH5		TH3	
	TH40C	TH40G	TH35C	TH35G	TH30C	TH30G	TH25C	TH25G	TH20C	TH20G	TH18C	TH18G	TH13C	TH13G	TH10C	TH10G	TH5C	TH5U	TH3C	TH3U
Max. capacity	40.000Lb 18180Kg		35.000Lb 15.910Kg		30.000Lb 13.640Kg		25.000Lb 11.340Kg		20.000Lb 9.090Kg		18.000Lb 8.180Kg		13.000Lb 5.910Kg		10.000Lb 4.545Kg		5.000Lb 2.270Kg		3.000Lb 1.360Lk	
Closed arms (mm)	1237		1.237		1.037		1.113		1.122		1.194		1.175		892		1.073		775	
Opened arms (mm)	4586		4.586		4.386		4.145		4.250		4.062		4.031		3.434		3.209		2.890	
Body rotation	40° right - 40° left																			
Side shift	200mm right - 200mm left																			
Pads rotation	180°	360°	180°	360°	180°	360°	180°	360°	180°	360°	180°	360°	180°	360°	180°	360°	180°	90°	180°	90°
Approximate weight (Kg)	8270	8.750	7.390	7.870	7.315	7.725	7.190	7.600	4.490	4.990	4.250	4.570	4.190	4.510	1.820	2.170	1.350	1.430	1.150	1.230
Recommended hydraulics	15 - 25GPM / 2500PSI																8 - 12GPM / 2.500PSI			
tyre fall back protection	Manual	Hydraulic	Manual	Hydraulic	Manual	Hydraulic	Manual	Hydraulic	Manual	Hydraulic	Manual	Hydraulic	Manual	Hydraulic	Manual	Hydraulic	Manual	Without	Manual	Without

Specifications and dimensions subject to change without notice



# TYRE HANDLERS

Tyre Handlers, or as they're more correctly called, 'Tyre Manipulators' normally require a carrier, such as a front loader or a lift truck.

We have several models to select from, the choice depending on the weight and size of the tyre to be handled, the angle of rotation of the plate and the characteristics of the equipment carrier.

## Key Features

- H.D. and high quality components.
- Excellent operator visibility.
- Rotation of the 90° or 360° tyre (optional).
- Rotation of the body 80°.
- Optional internal movement.
- Adaptable to any front end loader or lift truck

## Benefits

- Reliable, long-lasting equipment.
- Allows speed and efficiency to attach and detach tyres with complete safety.

