

# FMA

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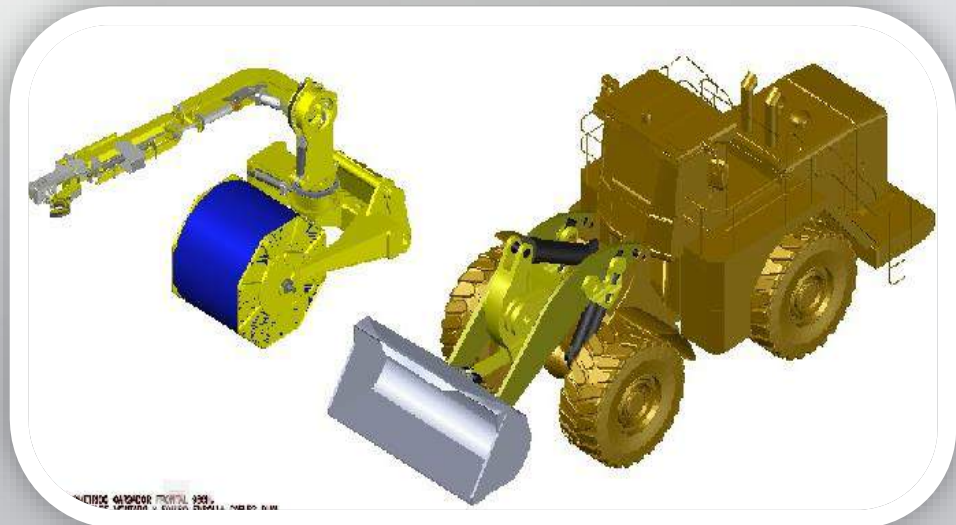
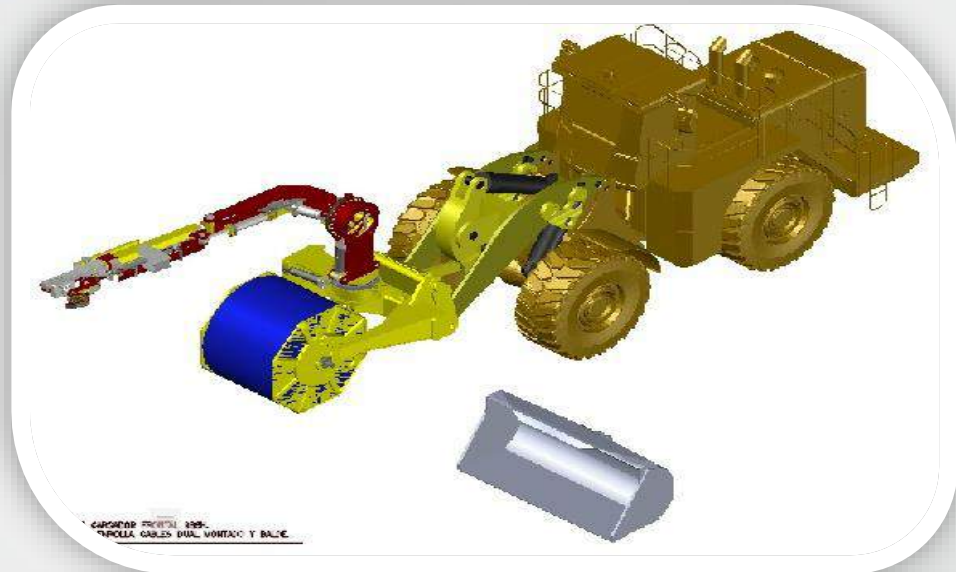


## DUAL CABLE REELER

# One equipment with two functions

**The FMA Cable Reeler Equipment can be supplied for connection to the carrier with Quick Coupling System.**

**This interchangeability allows the use of bucket or scoop when necessary.**



# **CABLE MANAGEMENT IN THE MINE**





## Features of the SCRB Arm:

- Arm on rotation base on bearing.
- rotational movement driven by two hydraulic cylinders.
- Reinforced mechanical rotation limitation system
- Articulated arm.
- Two telescoping sections for better handling and operational reach.
- Isolated cable gripping system with vertical and horizontal drive.
- Insulated claw, handling of energized cables.



# ISOLATED CLAW

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The cable management system has two important features, one is the task of isolating the equipment in case of a damaged cable leakage and the other is to act as a fuse in case of an overload, the design allows exclusively the handling of electric cable and avoids damage to the arm in case of faulty operations.



# EQUIPMENT MOVEMENTS

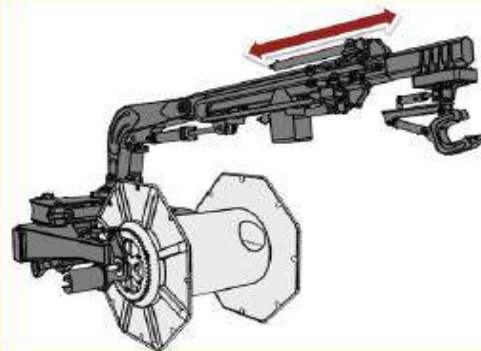
## Arm extension

The extension arm allows the cable to be taken up and provided with greater horizontal reach for positioning on the road berm.

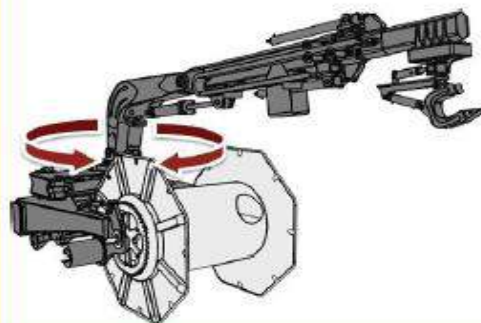
## Arm rotation

The rotation allows for a 75° left and 75° right rotation. This rotation allows the cable to be oriented according to the needs of the reeler operator, in addition to facilitating the winding of the cable on the reel.

Extensión de brazo.



Rotación del brazo.

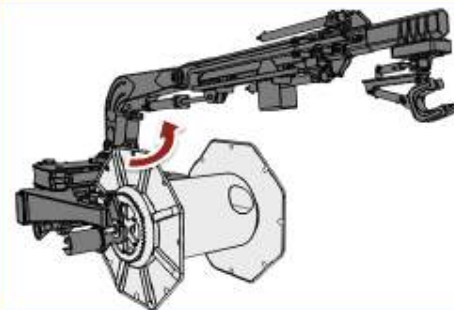


# EQUIPMENT MOVEMENTS

## Arm lift

Allows for greater vertical reach by positioning the cable on the road berm.

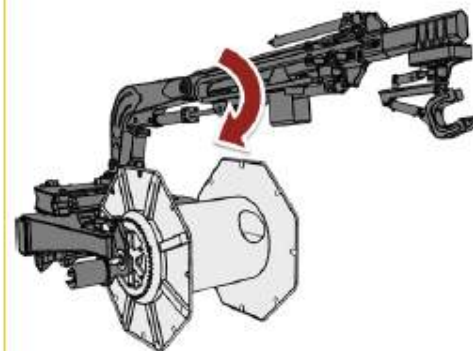
Levante del brazo.



## Arm articulation

The articulation allows the arm to be angled to give greater inclination from the floor to the maximum vertical reach.

Articulación del brazo.





# EQUIPMENT MOVEMENTS

## Reel rotation

The reel has a drive plate and a free plate (left and right respectively), the rotation of the reel is aimed at winding and unwinding the cable on the reel. The performance is indicated in point 2.01.- Specification table.



## Reel lock

Once the reel is mounted on the Cable Reeler, a hydraulic mechanism is activated which locks the reel and allows it to rewind and unwind without any problem of displacement.



# EQUIPMENT MOVEMENTS

## Claw rotation

The function of this rotation is to orient the cable towards the berm or towards the road when laying or winding, as well as to facilitate the winding of the cable on the reel.

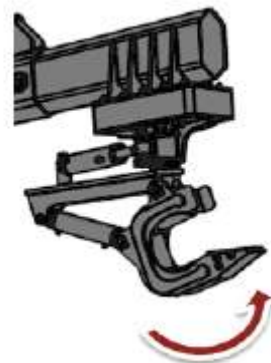
Rotación de garra.



## Claw inclination

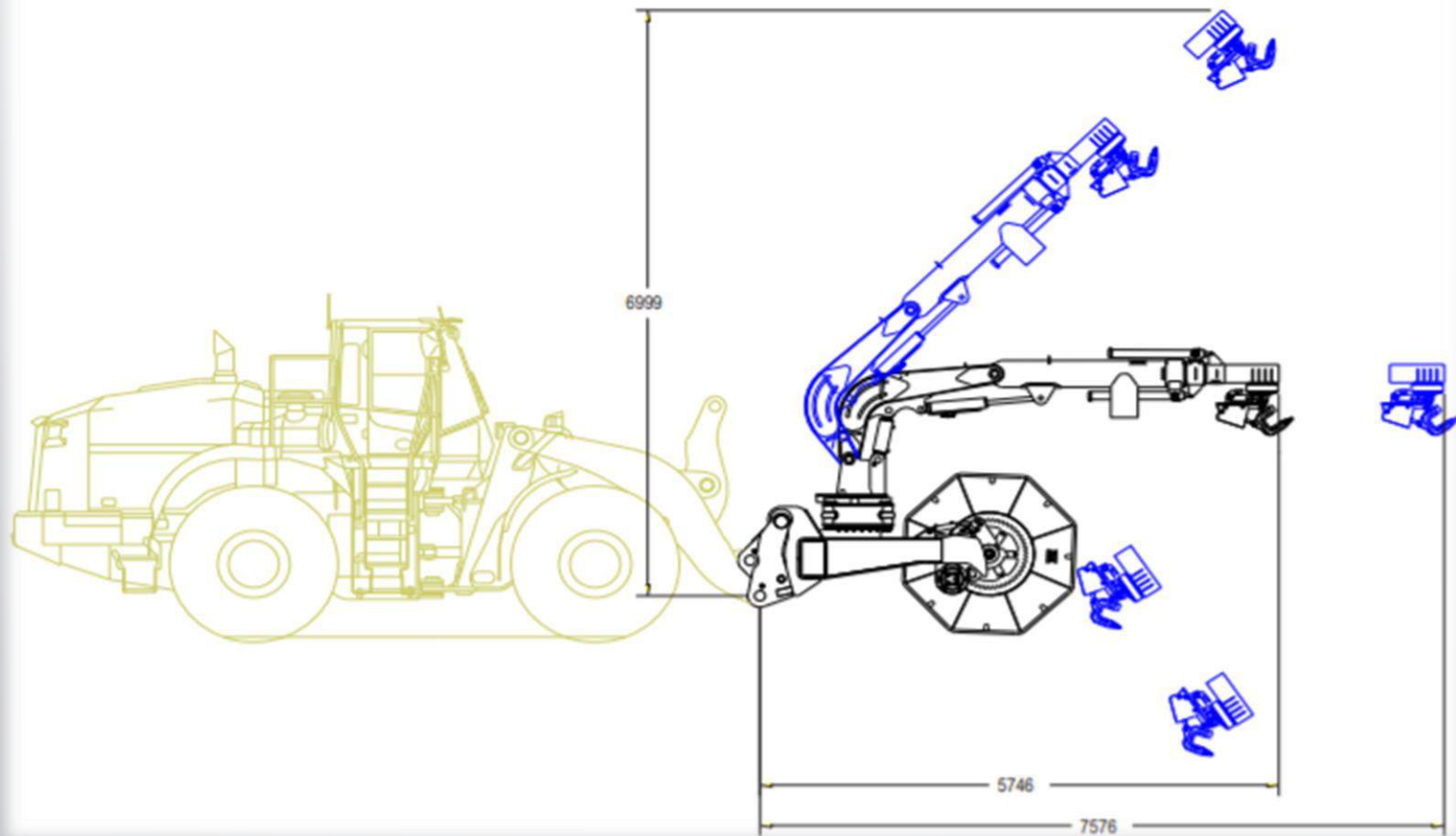
The inclination of the claw allows the cable to be taken from the floor and positioned where desired.

Inclinación de garra.



# **COVERAGE OF REELING EQUIPMENT**

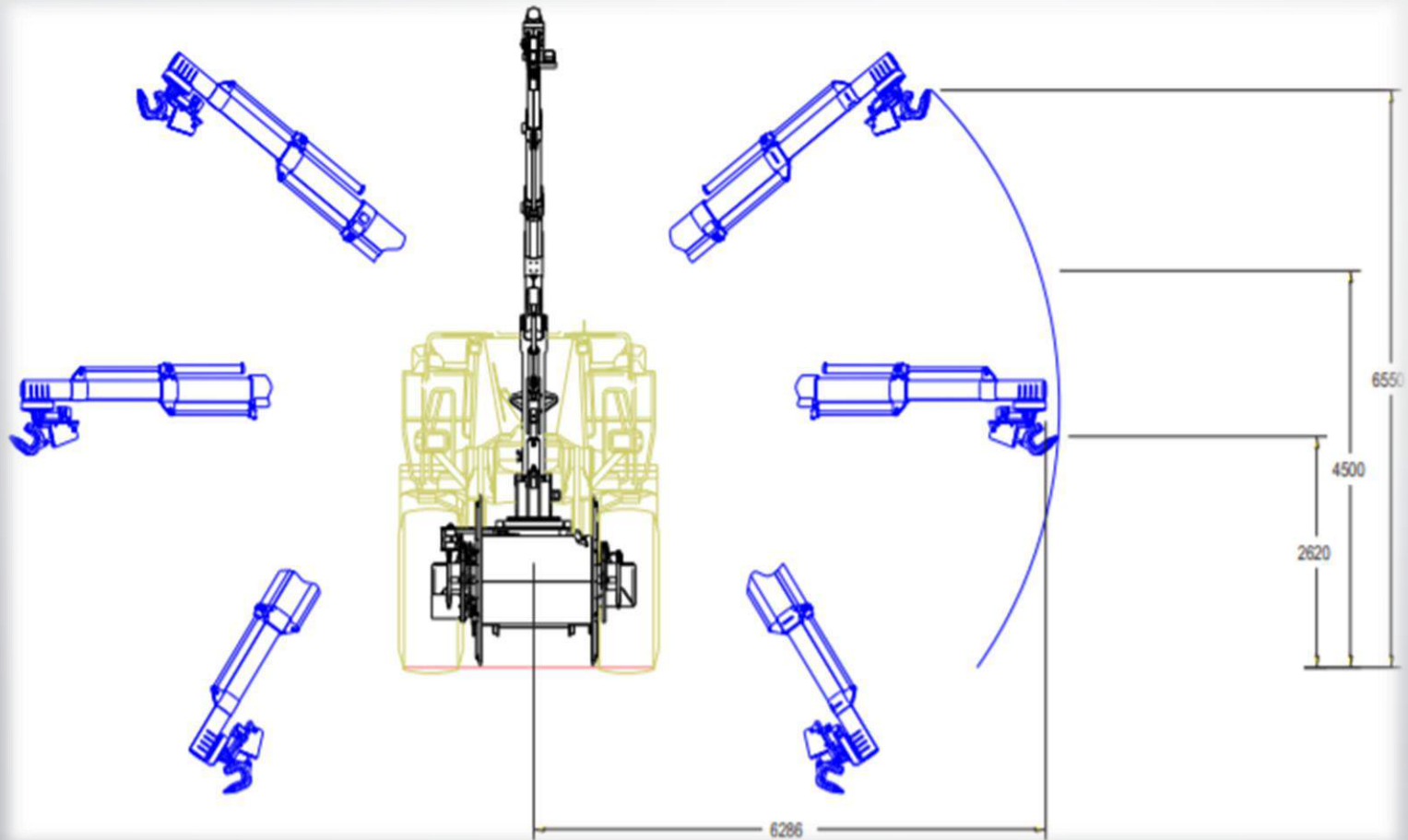
## SCRB Reeler System with Central Arm: Coverage.



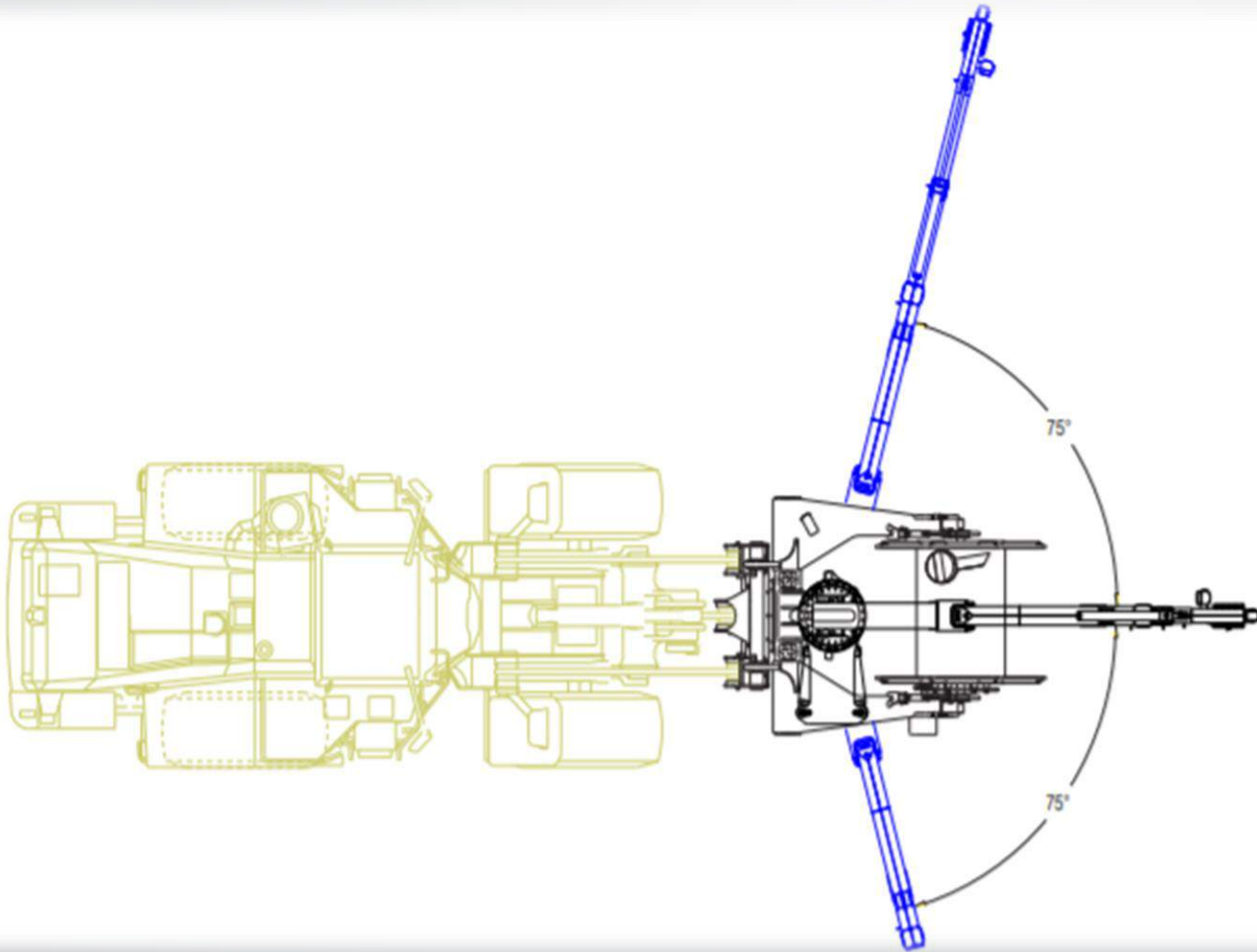


## SCRB Reeler System with Central Arm: Coverage.

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## SCRB Reeler System with Central Arm: Coverage.



## Central Arm Reeler System Cable on parapet



# **MINE EQUIPMENT OPERATION**



# CABLE IN THE DIRECTION OF MINE TRAFFIC

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# CABLE WINDING AND UNWINDING WITHOUT FLOOR STAFF



# PULLING HOOKS FOR WORK BETWEEN BENCHES





# CABLE GRAB AND PROVIDED TO THE FLOOR WITHOUT PERSONNEL INTERACTION

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# Dual FMA Cable Reelers on sites around the world:

DUAL	Quantity
Minera Escondida	5
Minera Spence	1
Codelco Chuquicamata	2
División ministros Hales Mine	1
Codelco Radomiro Tomic	2
Codelco División Andina	1
Minera Collahuasi	1
Finning Quebrada Blanca	2
Minera Lomas Bayas	1
Minera Sierra Gorda	1
Las Bambas (PERÚ)	1
Minera Cerrejón (Colombia)	4
Minera Oyu Tolgoi (Mongolia)	1
Vale Carajas (Brasil)	1



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