

TS 90 in haulage application

Setting procedure of the TS90 temporary stope support system.

1.

The TS90 temporary stope support system comprises of a load spreader headboard...

an adjustable inner tube with an attached locking pin a hydraulic jack section on top of a swivel foot piece.

2.

Prior to installing the TS90 temporary support system, examine the roof and bar down where necessary. Make safe according to your mine's standard.

3.

Make certain that the TS 90's are installed onto a solid floor.

4.

Mark the position of the prop to be installed.

5.

Before pumping the jack.

6.

Lift the prop and extend the inner tube to the required length.

7.

When fully extended place the adjusting pin through the inner pipe into the lowest pin hole from the release direction.

8.

Ensure that the prop handle faces 90 degrees inwards and that the hydraulic jack faces the release position,

9.

Connect the jacking handle to the prop.

10.

Whilst keeping the prop steady, pump and keep raising the inner tube until the load spreader makes contact with the roof.

11.

The headboard is to be aligned to suit fracture orientation.

12.

Pump the jacking handle repeatedly until the prop is tight.

13.

The TS 90 prop is now correctly installed.

14.

It is important that the TS 90 hydraulic – mechanical prop system be installed according to your mine's standard.

15.

Once installed, all further activities can be performed under the protection of the TS90 props.

Remote removal of the TS 90 temporary hydraulic-mechanical prop

1.

The remote release tool and sling allows the Ts 90 temporary support system to be remotely released and recovered from a safe position.

2.

This protects workers should a rockfall occur during the removal of the prop.

3.

Attach the remote release tool to the valve of the hydraulic jack. Ensure that it fits securely and is angled past the upright prop.

4.

Loop and hook the short length of chain around the carrying handle.

5.

Move to a safe supported area.

6.

Take up any cable slack.

7.

Jerk the release cable firmly.

8.

The release tool is pulled over releasing pressure within the jack.

9.

The TS 90 prop must never be removed without utilising the remote release sling.

TS 90 in haulage application

Setting procedure of the TS 90 temporary haulage support system.

1.

Prior to installing the TS 90 temporary support system, examine the hanging wall and bar down where necessary. Make safe according to your mine's standard.

2.

Clean the floor to solid ground prior to placing the prop into position.

3.

Lift the prop and extend the inner tube to the required length.

4.

When fully extended place the adjusting pin through the inner pipe into the lowest pin hole from the release direction.

5.

Place the prop into position and lift.

6.

Ensure that the prop handle faces 90 degrees inwards and that the hydraulic jack faces the release position.

7.

Before pumping the jack release the pressure to ensure that the prop is at it's lowest position.

8.

Connect the jacking handle to the jack.

9.

Whilst keeping the prop steady, pump and keep raising the inner tube until the load spreader makes contact with the hanging wall.

10.

The headboard is to be aligned to suit fracture orientation.

11.

Pump the jacking handle repeatedly until the prop is tight.

12.

The TS 90 prop is now correctly installed.

13.

It is important that the TS 90 hydraulic – mechanical prop system be installed according to your mine's standard.

14.

Once installed, all further activities can be performed under the protection of the TS90 props.

15.

A platform is easily and safely installed to enabling the development crew to perform all actions during the development advance cycle.

16.

Support beams for the platform are created by sliding gum planks vertically through the handles of the props.

17.

The platform is promptly and sturdily constructed by laying sufficient gum planks onto the top of these beams.

18.

Upper blast holes are easily reached, drilled and charged. Safer roof bolting and other actions such as meshing and lacing can also be performed from the platform.

Remote removal of the TS 90 temporary hydraulic-mechanical prop

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The remote release tool and sling allows the TS 90 temporary support system to be remotely released and recovered from a safe position.

2.

This protects workers should a rockfall occur during the removal of the prop.

3.

Attach the remote release tool to the valve of the hydraulic jack. Ensure that it fits securely.

4.

Loop and hook the short length of chain around the carrying handle.

5.

Join the hook which is attached to the release cable to the adjusting pin.

6.

Move to a safe supported area

7.

Take up any cable slack.

8.

Jerk the release cable firmly.

9.

The release tool is pulled over releasing pressure within the jack.

10.

Simultaneously, the adjusting pin is pulled out allowing the inner tube to slide down thereby releasing the prop.

11.

The TS 90 prop must never be removed without utilising the remote release sling.