

MLPS BRAAMFONTEIN WORKSHOP EQUIPMENT REQUIREMENT				
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Doc. No. & Version		Specialist Engineer	Msizi Cele	
Creation Date	2024-11-13	National System Engineer	Thokozani Yende	
Last Edited Date	2024-11-14	Chief Engineer Rolling Stock	Tholo Dikobe	
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Name	Use	Description	Interface Requirements	Image
35 Ton Locomotive Mobile Lifting Hydraulic Jacks	The 35-ton lifting jacks are heavy-duty lifting equipment designed to safely raise and support large, Diesel Locomotive, Electrical locomotive and MLPS coaches. They are typically used in workshops or depots to perform tasks like wheel changes, undercarriage inspections, or component replacements.	35 tons per jack or 280 tons per set of 4 jacks Lifting Height: 2'-3" (27") measured from the finished floor up to the top of lifting pad Lifting Stroke: 6'-1" (73") Lifting/lowering speed: 9" per minute	Stable power supply for hydraulic operation. Securing Jacks supply cables on the floor Renew safe markings areas on the floor (Paint)	
20/5 Ton Overhead Crane	Loading or unloading materials from a truck or components from the locomotive. Moving materials around a workshop more efficiently.	An overhead crane consists of two parallel rails seated on longitudinal I-beams attached to opposite steel columns by means of brackets. The traveling bridge spans the gap. A hoist, the lifting component of a crane, travels along the bridge.	None	
25 Ton Coach Mobile Lifting Hydraulic Jacks	For lifting MPLS coaches during Schedule Lifting program and wheel change.	The mobile lifting jack is used for the carriage work in the MLPS coaches base maintenance Line. The mobile lifting jack is mainly used for Coach maintenance work to repair and replace the bogie and other components of the vehicle body.	Smooth, reinforced flooring to ensure jack stability and safety. Jacks currently non-operational	

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25 Tons Alloy Steel Hydraulic Lifting Jack Cylinder	For Lifting MLPS Coaches when changing Wheels	High strength alloy steel for durability High strength spring return High corrosion resistance of paint- baked surface Quick connector and dust cap Dust seals reduce contamination and prolong the life of the hydraulic cylinder	10-20m hydraulic flexible pipes with high- pressure fittings	
12 Tons Alloy Steel Hydraulic Lifting Jack Cylinder	For Lifting MLPS Coaches when changing Wheels	High strength alloy steel for durability High strength spring return High corrosion resistance of paint- baked surface Quick connector and dust cap Dust seals reduce contamination and prolong the life of the hydraulic cylinder	10-20m hydraulic flexible pipes with high- pressure fittings	
20 Tons Pit Jack	For Lifting MLPS wheel excel when changing Wheels	Lifting Capacity: 20 tons jack Lifting Range: Adjustable height Operating Pressure: Typically, 250–350 bar Lifting Mechanism: Hydraulic operation, with electric pumps for control Frame Construction: Steel for durability and stability Weight: Typically, 600–1000 kg	Unblock drainage, Pressure gauge to be serviced and carlibrated, refurbish valaves, Steel level crossing slap for safety.	