

SHIFTING GROUND

MINE SAFETY - THE CONTRIBUTION AND IMPACT OF
LOCAL MANUFACTURE

MEMSA Presentation August 2022

memsa.org.za



SHIFTING GROUND IN MINING



Mining Equipment Manufacturers of South Africa (MEMSA), an industry cluster established in 2016 with the support of the Department of Trade, Industry and Competition (dtic), works hard to build a competitive advantage for South African owned and run mining equipment manufacturers by providing access to key markets and championing existing and future local technology and innovation.

Our core values are:

Strength in Numbers

As a cluster MEMSA provides a collective identity and position of strength for South African mining equipment manufacturers by increasing industry cohesion, repute and market access.

Your Network is your Net Worth

Joining our cluster allows women in the industry to connect with key decision-makers in government and private business, tap into exclusive industry networks and associated projects, as well as a wealth of high-tech IP and cutting-edge technological advancements.

A Brains Trust

We are driving technology development in the South African mining equipment sector through our collaboration with a range of innovation partners.

WOMEN REPRESENTATION IN MEMSA

100% Women owned:

- Creinex Management & Creinex Bulk Bags
- KwaNgwane Plant Solutions and KwaNgwane Consulting
- Netha Engineering Technology

Women Directors with notable ownership:

- Drill Rod Services, (MEMSA Board Director)
- Nkangala Bucket Repair Services (MEMSA Board Director)
- Harnesspro

Women Directors:

- Harnesspro
- Battery Electric
- Fermel
- Desmond Equipment
- Nkangala Mining



DESIGNING & MANUFACTURING L9 ENABLED EQUIPMENT LOCALLY



OTM

Booyco Electronics

TMM OEMS - L9 Enabled Equipment for Hard & Soft Rock Mining

Underground (Hard Rock): Fermel; Rham Equipment; AARD

Underground (Soft Rock): Bird Machines; Fermel; JAE; AARD; Nkangala Mining;
Rham Equipment, Phillips Global

Surface Mining: Bell Equipment; Fermel



DESIGNING & MANUFACTURING L9 ENABLED EQUIPMENT LOCALLY



Beyond compliance

Under Development... Equipment with automated & autonomous capabilities as well as advanced sensors and environmental scanning capabilities



DESIGNING & MANUFACTURING L9 ENABLED EQUIPMENT LOCALLY



Surface & Underground PDS Systems and more

**Flexible, Innovative, Scalable, Proven, Local,
Global**

AngloGold Ashanti; Exxaro Coal; Anglo American Platinum;
Anglo American Thermal Coal; BHP Billiton; Glencore Xstrata;
Gold Fields; Harmony; Impala Platinum; Northam Platinum; Petra
Diamonds; Rio Tinto; Natref Refinery (Sasol Mining, Total SA),
EPCMs incl. Red Path Mining, DRA Global, Aveng Grinaker-LTA,
Murray & Roberts Cementation and Shaft Sinkers





DESIGNING & MANUFACTURING L9 ENABLED EQUIPMENT LOCALLY



Booyco Electronics - Building Mine Safety and a Successful South Africa

Reindustrialising - Expanding its footprint in Jet Park in 2007, 2008, 2011, 2015; premises in all major mining regions of SA

Localising supply chains - With exception of semi-conductors PDS is locally sourced and manufactured

Training - Training and certification for youth with N4 from mine local communities as technicians

Transforming - 26% owned by black women-owned trust; B-BBEE L4

Globalising - increased orders from SADC & Beyond since 2022





DESIGNING & MANUFACTURING L9 ENABLED EQUIPMENT LOCALLY



Bell Equipment

“The group purchases from local suppliers wherever possible”

World class ADTs

Locally designed and manufactured
in KZN

Level 9 ready - brake systems

Compatible with PDS, ISO aligned

Autonomous Ready

Nearly 1000 local suppliers

>2500 employees

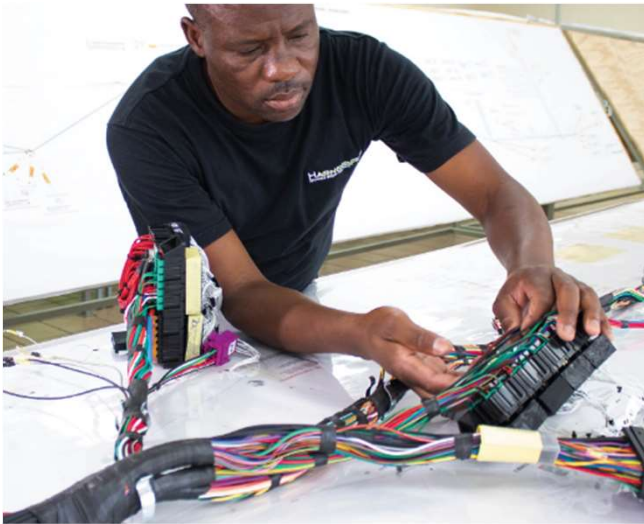




DESIGNING & MANUFACTURING L9 ENABLED EQUIPMENT LOCALLY



HARNESSPRO



Black woman-led company
Manufacturing electronic harnesses for **Bell, Dezzi**, as well as rail, marine, bus, truck, industrial applications





DESIGNING & MANUFACTURING L9 ENABLED EQUIPMENT LOCALLY



“It’s a principle and a commitment - local is the first option” - Kevin Reynders, MD, Rham Equipment, on procurement

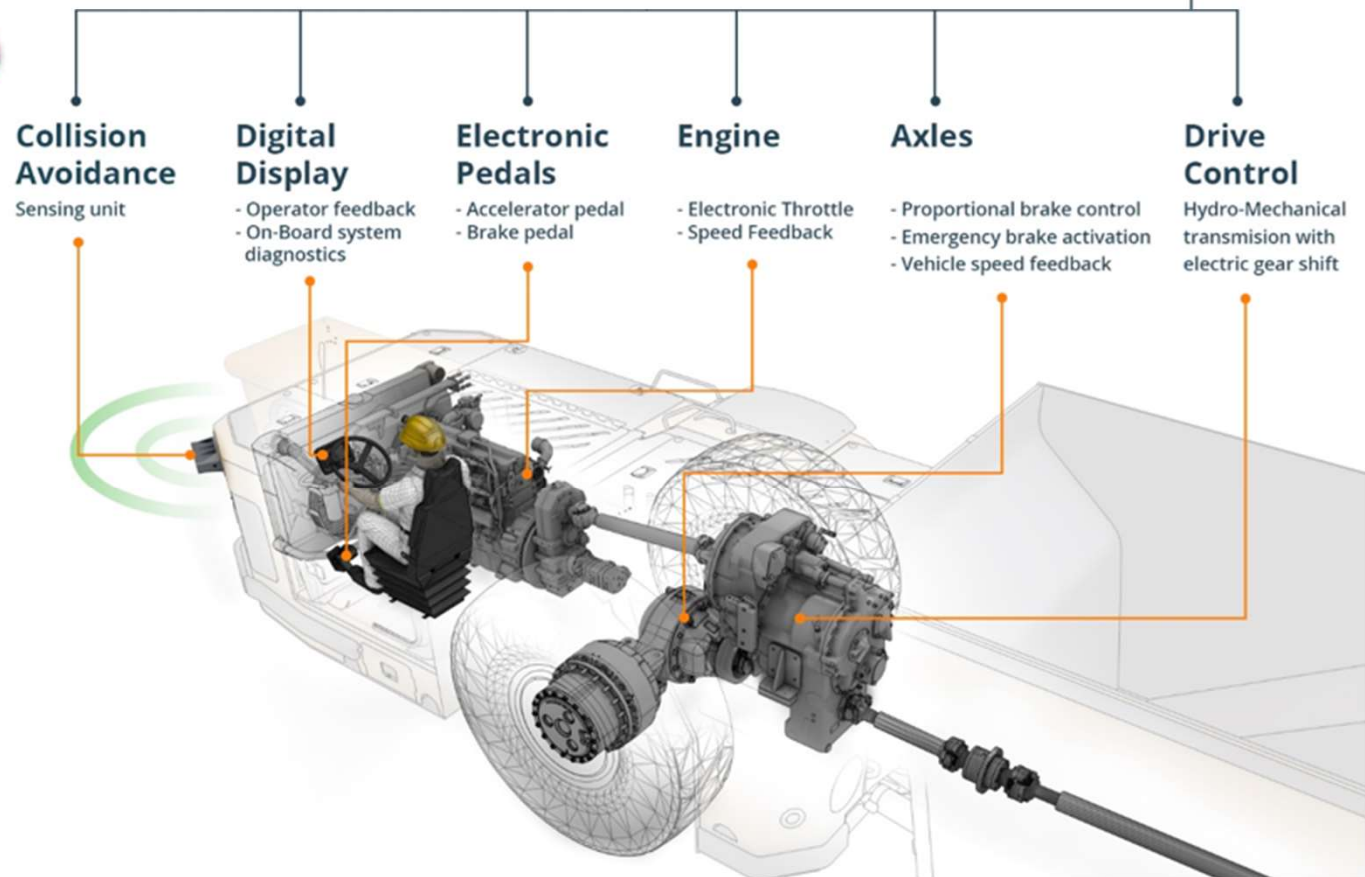




DESIGNING & MANUFACTURING L9 ENABLED EQUIPMENT LOCALLY



CAS Controller



LOCAL CONTENT, EMPLOYMENT, SUPPLY CHAINS & TRANSFORMATION



- 40-60 % Local Content in TMM
- Local Content = maintaining & growing industrial sector; wealth & employment creation; transformation
- Employment: OEM; Supply Chain; Multiplier
- Study - Local OEMs preferentially source locally
- Transformed: at least 26% Black owned, significant ownership by women, B-BBEE Level 4 and better

LOCAL CONTENT, EMPLOYMENT AND SUPPLY CHAINS

- Ongoing development of IP and engineering skills
- Building an industry for today and tomorrow (EV, automated/autonomous machines)



MEMSA Innovation Awards





Mineral Resources
 Planning, Monitoring and Evaluation
 Science and Technology
 Trade and Industry



MHSC

COLLABORATION

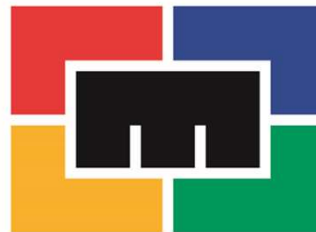


MANDELA MINING PRECINCT
 MINDS FOR MINES

WITS
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 OF
 JOHANNESBURG



MINERALS COUNCIL
 SOUTH AFRICA



UNIVERSITEIT VAN PRETORIA
 UNIVERSITY OF PRETORIA
 YUNIBESITHI YA PRETORIA

BUSINESS CASE

BUY/DEVELOP LOCAL

- Value
- Products developed & customised for local conditions
- Optimal local content |(SA jobs, industry, supply chains)
- Maintain and build engineering & innovation capacity
- Local supply chains - resilience
- Contribute to transformation and sustainability

**And COLLABORATE - Technology, Component Localisation, Shared Learning
To Leave A LEGACY of Thriving INDUSTRY**

THANK YOU

TOGETHER DRIVING THE FUTURE
OF MINING TECHNOLOGY

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