

PROFESSIONAL
ENGINEERING
CONSULTANCY

Management

Advisory

Design

MACADAMIA PROCESSING



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Welcome to Afrotec, your trusted partner in innovative solutions for the macadamia industry. Our consulting engineering firm specialised in delivering cutting-edge design processes and application of the latest technologies to elevate your macadamia operations. At Afrotec, we blend precision engineering with a deep understanding of the macadamia sector, ensuring optimal efficiency and sustainable growth for your business. Explore a world of possibilities with Afrotec - where excellence in engineering meets the macadamia industry.

Specialised Consulting Services for the Macadamia industry.

Afrotec provides specialised consulting and project management services specific to our client's requirements and objectives. Our team of professionals are experienced and qualified in internationally recognised design and implementation strategies.

WE ARE A WELL-ROUNDED TEAM OF EXPERIENCED DESIGN LEADS, TECHNICAL SPECIALISTS AND PROJECT MANAGERS.

Nelspruit - 41 Marloth Street, 1200.

Middelburg - Clubville, 1050.

Kwazulu-Natal - La Lucia Ridge, 4159

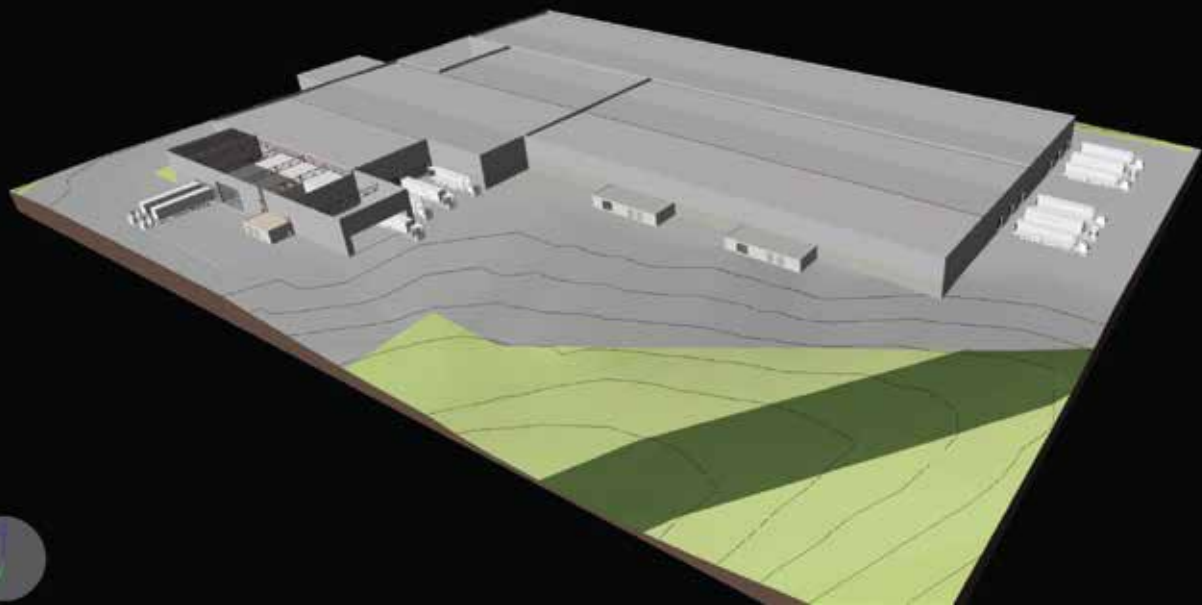
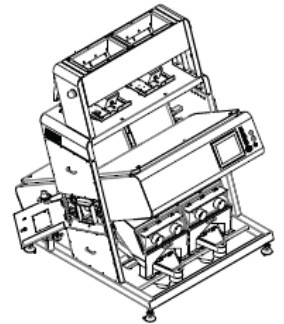
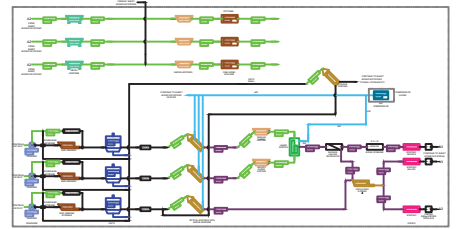
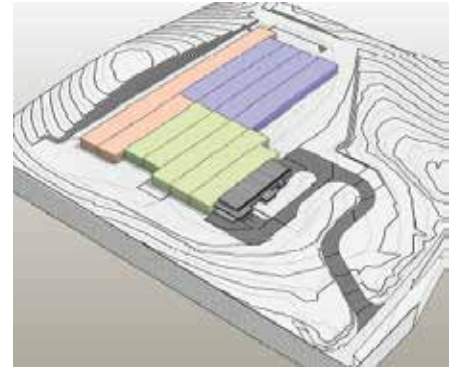
FIND OUT MORE ONLINE

www.afrotec.co.za



PROCESSING FACILITY DESIGN OVERVIEW :

- Factory building design
- Mechanical equipment selection & layout
- Site development plans
- Structural design
- Civil, earthworks & storm water management design
- Wastewater treatment design
- Fire engineering design & approval
- HVAC
- Cold room design and optimization
- Heat load calculations
- Power reticulation design & energy efficiency
- Curing system integration
- Application of macadamia industry engineering principles & product quality requirements





PROJECT MANAGEMENT

- Project scoping & feasibility studies
- Facilitaion of equipment R&D process
- EIA, WULA, power applications
- Detailed engineering process – Plans, SOW & BOQS
- Technical scope development
- Tender documentation & adjudication process
- Supplier selection and contract management

Successful Project delivery through Engineering, Procurement and Construction Management, as the Principal Consultant (Owners Team) Representative to successfully facilitate your project.



NIS & KERNEL PROCESS FLOW DESIGN & MODELLING

- Capacity modelling
- Process flow design
- Optimised process flow from receiving through to final dispatch
- Equipment sizing & selection
- Energy efficiency & resource optimisation
- Food safety & preservation principles
- Effective nis & sound kernel recovery
- Waste reduction & optimised product flow

3D MODELLING & FACTORY LAYOUTS

- Conceptual design through to detailed engineering
- Optimal equipment layouts
- 3D Process plant design (green fields & brown fields)
- As-build 3D modelling
- 3D structural & civil design
- 3D laser scan surveys (existing facilities)
- 2D plans
- Site development plans
- Vehicle traffic flow, receiving, dispatch & dock levelling



OVERALL PROJECT DELIVERY

- Project scoping & feasibility studies
- EIA, WULA, power applications
- Detailed engineering process – plans, sow & boqs
- Technical scope development
- Tender documentation & adjudication process
- Architectural building plans
- Engineering design approvals
- Council approval process
- Supplier selection and contract management

ENVIROMENTAL IMPACT ASSESSMENTS

- Scoping & facilitation of eia bar
- Environmental sensitivity assessments
- Engineering services reports
- Macadamia nut process description
- Storm water management plans
- Geotechnical investigations
- Socio-economic reports
- Traffic studies
- Heritage studies
- Terrestrial compliance assessments

WATER USE LICENSE APPLICATIONS

- Proposed water uses
- Water balance flow diagrams
- Water balance capacities
- Wetland assessments
- WWTP technical specifications
- Abstraction & municipal requirements
- Section 27 motivations
- eWULAAS

POWER APPLICATIONS

- Facilitate point of power application process
- 11KV supply to LV minisub & main sub rooms scoping & design
- Power reticulation
- Generator set & inverter system scoping
- Occupational health & safety compliance

CONTACT INFO

LOCATED IN NELSPRUIT, MPUMALANGA,
AFROTEC HAS SUCCESSFULLY CONSULTED ON
PROJECTS IN VARIOUS COUNTRIES IN AFRICA.

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SCAN TO SAVE CONTACT INFORMATION.

