



**WHO WE ARE?**

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**SCNEWTON INC.**

SCNewton's electric motors and drive modules portfolio offers a comprehensive solution in traction systems; As a result of moving toward a cleaner and more environmentally friendly future, SCNewton presents high power and high torque density e-drive platforms in various classes from the module level to the integrated solutions, ranging from fractional kW up to 360 kW and from several thousand RPM to more than 65000 RPM.

**Products and services**

Traction electric motors  
Electric drive modules  
BLDC motors and controls  
Electromechanical sensors  
Electromechanical actuators  
Custom gear-trains and power transmissions  
Test setup up to 600 kW and 22000 rpm

**Typical applications**

Automotive powertrain  
Material handling equipment  
Packaging, marking and sorting equipment  
Machine tools  
Web drives  
Gimbal controlled cameras for security systems  
Antenna drives Medical equipment  
Electric wheelchairs and scooters  
Bio-analytical equipment  
Medical pumps  
Centrifuges  
Robotics and factory automation  
Pick-and-place robots  
Positioning tables  
Welding wire feeders  
Automatic guided vehicles  
Barcoding equipment Computer and office equipment  
Copier and microfilm machines  
Printers / plotters Tape drives  
Industrial equipment

**DRIVE FOR EXCELLENCE**

SIX SIGMA  
LEAN ENGINEERING  
KAIZEN  
PROCESS CONTROL  
QUALITY CONTROL  
GATE PROCESS  
ADVANCE R&D  
STANDARDS  
SPECIFICATION  
ENGINEERING MANAGEMENT  
CONTROL MANAGEMENT

**TECHNOLOGY FEATURES**

HIGH GRADE MATERIALS  
HIGH RELIABILITY AND CONFIDENCE LEVEL  
LOW FAILURE RATE  
OPTIMIZABLE DESIGN  
HARMONIZED BOM  
LONG SERVICE LIFE  
26262 ASLC, D FS  
16949 QMS  
MODULAR DESIGN  
RELIABLE  
MOST EFFECTIVE  
SHORT LEAD TIME  
UP TO DATE TECH  
HIGH POWER DENSITY  
HIGH FUNCTIONAL SAFETY  
MOST EFFECTIVE  
LESS PRODUCTION  
RUST SUPPLY CHAIN  
CUSTOM SEALING CLASS  
CUSTOM VIBRATION CLASS  
ROHS COMPLIANT  
CERTIFICATION

**LEAN ENGINEERING**

We offer a variety of standard sizes. If mechanical modifications are needed, custom options are available for your specific application. Our engineering department is prepared to discuss your application to help tailor a permanent magnet motor to fit your needs.





## **WHO IS SCNEWTON INC?**

**We are an advanced electromechanical development corporation with its corporate headquarters located in Novi Michigan. We design, manufactures and markets motors, electric drive modules, torque boosting technology, electromechanical sensors and actuators , and other highly engineered products and sub-system used in industrial and automotive markets. Scnewton inc's culture focuses on talent and continuous improvement.**

## **SCNEWTON INC. OPERATION**

**Scnewton inc. inventory of proprietary motor designs, Gear designs, EDM designs, and other electromechanical systems making any custom design fast, lean and perfect for extreme conditions.**

**All the manufacturing, are accomplished at our global supply-chain Facilities with exception of certain qualification tests that are completed at nearly approved and qualified testing laboratories.**

**All of engineering, development, final assembly, custom testing will be done by SCnewton inc. engineering team in USA.**

## **GLOBAL R&D AND MANUFACTURING!**

**Our global research and development team will employ the most skilled designers and the most advanced resources to design and develop the state-of-the-art products and services.**

**Our global operation takes the advantage of a global supply chain the bills of materials will be manufactured in the lower cost regions. All processes will be proven out at SCnewton inc. main facility prior to any transfer of work.**

## **OPERATING SYSTEM**

**Scnewton inc. achieves operational excellence through aligning people , processes and technology, and drives superior results through the pursuit of repeatable , reliable and lean processes that focus on continuous improvement.**

**Utilizing the scnewton operating system (SCOS), we believe in:**

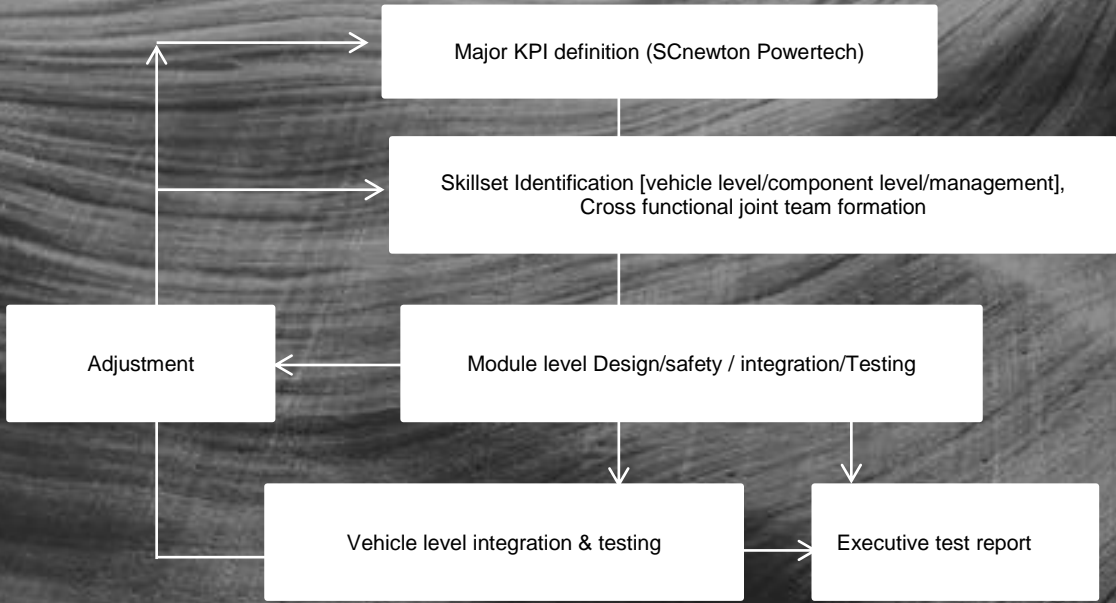
- **Building result, driven leadership and continuous improvement.**
- **Eliminating waste across processes [cost, quality, time, resource].**
- **Utilizing lean and process of controls for speed, flexibility, and efficiency**
- **Delivering better performance to customers,**
- **Improving cash flow though inventory reduction or increased inventory turns**

**Scnewton inc operating system is our revolutionized comprehensive continuous improvement program designed to engage and empower our employees to recognize and eliminate waste, work real-time problem solving as part of their everyday job experience, and enhance our performance both in operations and business office processes.**

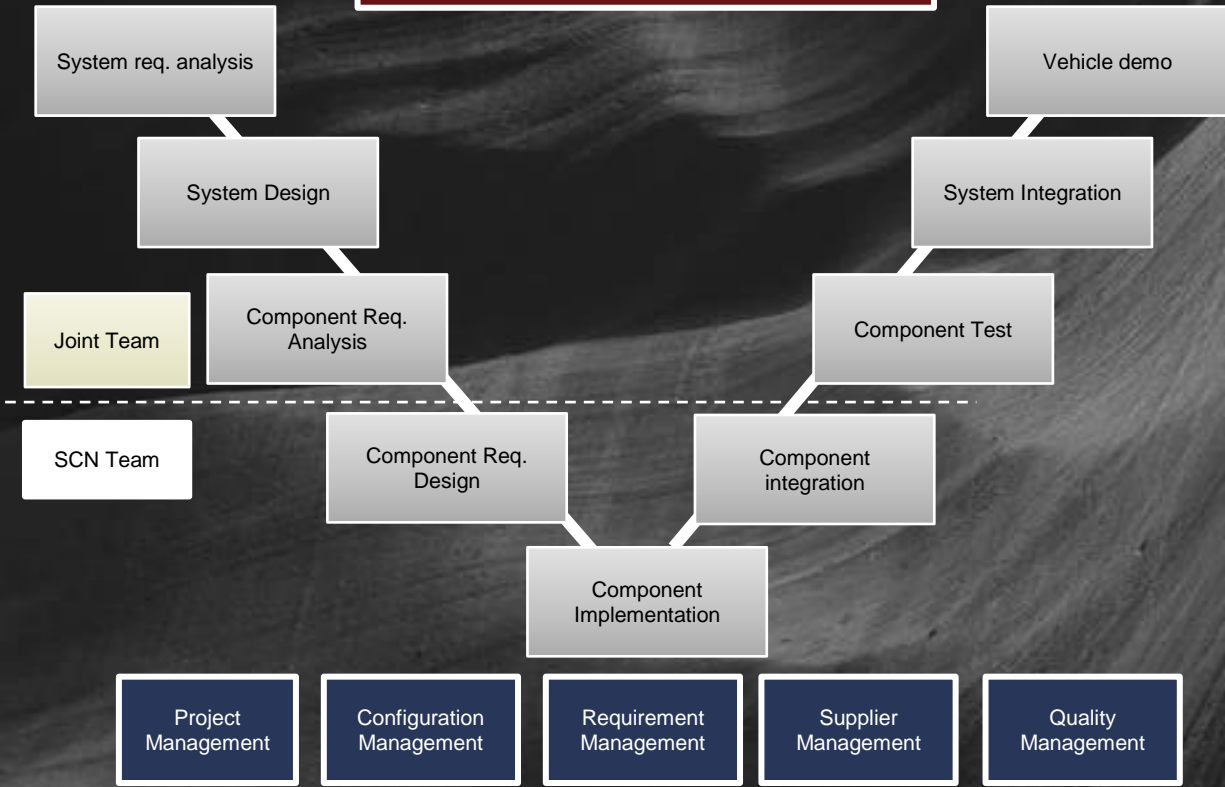
**Scnewton inc. operating system is comprised of 9 key business process attributes and our operations together drive implementation of these attributes though progressive levels of maturity and best practices are leveraged across all operations to accelerate learnings.**

- **Leadership and culture**
- **Training and certification**
- **Environment , health and safety**
- **Quality system**
- **Total productive maintenance**
- **Sales, inventory, operation, planning**
- **Process control**
- **Lean engineering**
- **Market feedback and metrics**

### Project phases



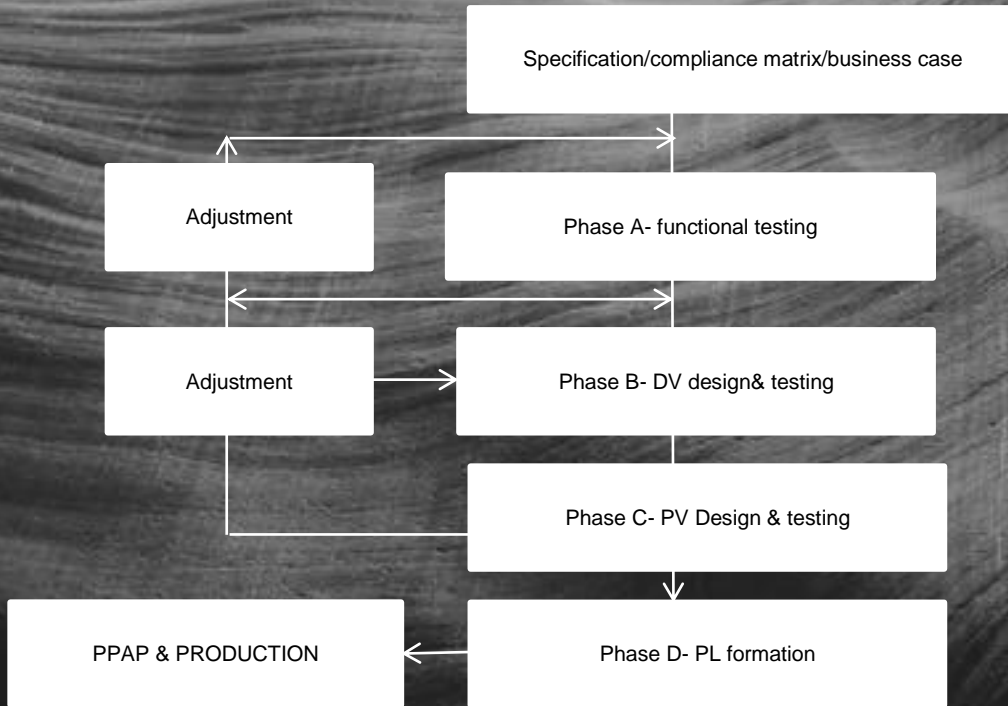
### Design and Development



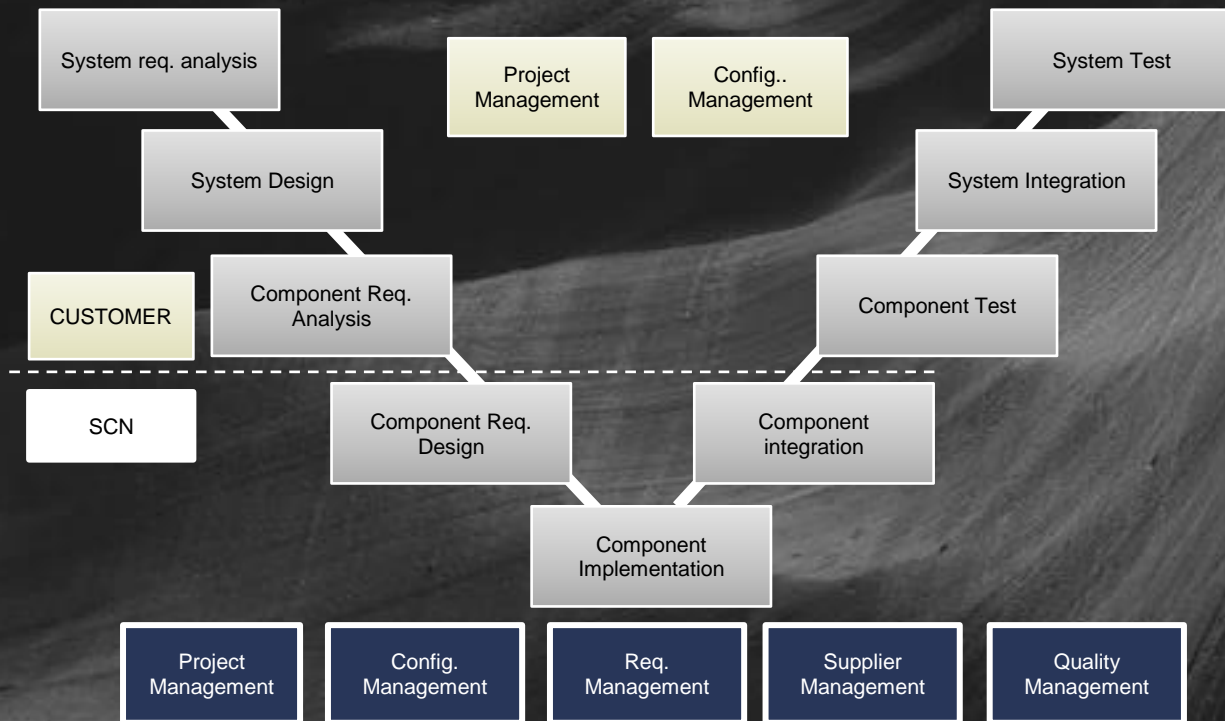
Workflow prototype phase



## Project Phases



## Design and Development process



## Workflow production phase