

## Best Electric Machine (BEM)

### Integrated Commercialization Execution Plan



Commercialization Roadmap and Basis of Estimate (BOE) Integration (Rev. 0.1)

#### 1. Purpose

This document integrates the three commercialization proposals (MOTORPRINTER, SST/BRTEC, and SYNCHRO-SYM) into one engineering execution program. It does not replace the individual proposals or their detailed Statements of Work, Work Breakdown Structures, schedules, or Bases of Estimate (BOE). Its purpose is to explain how the three work packages operate together as one commercialization effort.

#### 2. Commercialization Philosophy

The underlying electromagnetic architecture, control technology, prototype validation, engineering tools, patents, and manufacturing research have already been established. The objective is commercialization, not fundamental research and development. The program converts validated technology into certified production-ready products and a repeatable domestic manufacturing capability.

#### 3. Integrated BOE Work Packages

Work Package A: MOTORPRINTER – complete fabrication, automation, certification, and production readiness of the manufacturing platform for electric machine integral-frame-wound-core-assemblies.

Work Package B: SST/BRTEC – complete the controller platform whose hardware and software become BRTEC for SYNCHRO-SYM.

Work Package C: SYNCHRO-SYM – complete the production axial-flux product, integrate BRTEC, perform verification, validation, and certification, and deliver customer evaluation units.

#### 4. Integrated Schedule

MOTORPRINTER and SST/BRTEC execute in parallel. Their outputs converge during SYNCHRO-SYM integration and certification. Parallel execution minimizes schedule by avoiding an estimated six-month delay associated with sequential execution.

#### 5. Commercialization Economics

The integrated commercialization program is approximately \$7–10 million. The detailed NRE Basis of Estimate remains in the three individual proposal documents. After the initial NRE is complete, future customer programs do not repeat the original NRE effort. BEM-CAD generates customer-specific designs, MOTORPRINTER manufacturing parameters, production schedules, and amortized product pricing based on production volume. Typically, only product-specific engineering, such as analog power-stage scaling and customer customization, is required.

## 6. Deliverables

Certified production-ready SYNCHRO-SYM platform; production-ready BRTEC; certified MOTORPRINTER manufacturing capability; BEM-CAD engineering/manufacturing environment; customer evaluation units; repeatable domestic manufacturing capability; foundation for repeatable customer production.

## 7. Relationship to Supporting Documents

This document is the master integration document for the commercialization package. It links the Executive Summary, Commercialization Position Statement, Pitch Deck, and the three commercialization proposals. Detailed engineering tasks, schedules, and BOEs remain in the supporting proposal documents.

## Closing

BEM proposes one integrated commercialization program composed of three coordinated engineering work packages. This document explains the execution strategy while the individual commercialization proposals retain the detailed engineering scope and BOEs.

**For strategic investment, OEM partnerships, manufacturing collaborations, technical discussions, or BOE Work Packages, please contact:**

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