



**TEMPLAR**  
TECHNOLOGIES

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## Introduction

Templar Technologies, Inc. specializes in bulk material system design, manufacturing of belt conveyor systems, and shop detailing of structural and miscellaneous steel. Our commitment to technology enables Templar to be an economical producer of belt conveyor systems and engineering/detailing services.

Templar's management is committed to providing our customers with quality products and services that meet or exceed their needs at competitive prices. Our extensive experience and long-term alliances with our suppliers and fabricators translates into value, quality and timeliness to our customers.

## Bulk Material System Design

Templar offers multi-discipline engineering services for projects in the aggregate, cement, coal, lime, marine, power generation, pulp & paper, and other bulk material handling industries. Our staff includes licensed professional engineers in the civil, structural and mechanical disciplines, and experienced engineers in both process and systems engineering. In addition, we have significant experience in conceptual design and cost estimating for preliminary engineering studies at both the project definition and appropriation phases of multi-million dollar projects. Our prior experience working for design-build contractors provides a practical level of understanding that is generally not found with other engineering firms.

Our experience includes conceptual engineering and studies for project sizes as small as \$15,000 and up to \$150 million installed cost. Detail engineering experience includes projects up to \$15 million installed cost.

Design drawings are predominantly produced using the latest AutoCAD software. In addition, we use Tekla Structures 3-D software for our structural design work. We have considerable experience with 3-D modeling and drawings in both AutoCAD and Tekla Structures for structural, ductwork and chutework designs. Structural analysis capability is complemented by both Telka and Visual Analysis software. In addition to this commercial software, Templar has developed proprietary software for belt conveyor analysis (CEMA based calculations), structural design of specialized structures, system analysis and cost estimating of industrial projects.

## Bulk Material System Design Engineering and Studies

Engineering services provided by Templar include the following:

- + Conceptual and feasibility studies
- + Process engineering for crushing, screening and grinding systems, plant layout, and general arrangement development
- + Mechanical design of belt conveyors
- + Design of bins, hoppers, chutework and ductwork systems
- + Design of dust collection systems
- + Foundation and piling design
- + Structural design for all types of industrial structures
- + Specification of mechanical equipment
- + Preparation of construction bid packages
- + Cost estimating (conceptual & definitive) and budget preparation



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## Belt Conveyor Systems Manufacturing

Templar manufactures belt conveyor systems for handling bulk materials in a number of industries. Our clientele includes customers from cement, aggregate, frac sand, fertilizer, bio-mass, steel, pulp & paper, and power generation. We often supply auxiliary equipment for the conveyors where required such as trippers, belt scales, magnetic separators, metal detectors and dust collection systems. In addition, transfer towers and special support structures including tube galleries are often supplied as part of the conveyor system. Templar utilizes advanced computer assisted design techniques to expedite the design and shop detailing process to minimize schedules. All shop detailing for conveyor fabrication is performed in-house by Templar, improving control over quality and fabrication schedules. Our design techniques provide the advantages of utilizing standard components while maintaining the flexibility to customize designs to meet specific project requirements. All designs and details are produced using the latest AutoCAD and Tekla software products.

We can offer competitive quotations for conveyors meeting a full range of customer specifications, ranging from basic performance type specifications to detailed mechanical and structural specifications. We offer a wide range of mechanical components for the conveyors to maximize standardization with our customers' existing conveyors. Where no preferences are specified, we offer components from well known, high quality component suppliers where we have developed alliances to reduce costs and minimize delivery schedules. Similarly, Templar has developed strong relationships with several specialty fabricators to build the conveyors to our details and specifications. We believe that utilizing a select few fabricators on a repeat basis results in improved quality and better control of fabrication schedules. Our fabrication shops have the ability to provide a wide range of paint systems from economical alkyd systems to high performance epoxy and polyurethane systems. In addition, galvanizing conveyors and structures are available.

We pride ourselves in the degree of shop assembly we offer to minimize field erection costs. Our head and tail sections are fully shop assembled on a structural steel frame including head chute, pulleys, belt cleaners, backstops and drives. Shop assembly not only reduces costly field labor, but also prevents field misfit problems and will minimize tracking problems during start-up. We totally shop assemble short belt conveyors and feeders that can be shipped in once piece, including vulcanized belting.

Complete and detailed Installation, Operating and Maintenance manuals are prepared for all projects. Manuals are specific to the project and can be customized to the customer's special requirements.

In addition, we can supply experienced field engineers to assist the customer in the installation, start-up and commissioning of the conveyor system.



## Steel Detailing

Templar has licensed structural engineers on staff which provides additional capabilities that are not traditionally associated with a detailing company. This capability provides additional insight into our work as well as the ability to provide connection design and calculations where required by customers.

Over the years, we have completed a wide variety of projects. While the majority of our work has been in the industrial and marine sectors, we have also completed several commercial and institutional projects. Our detailing rates are competitive and our work is of the highest quality.

## Mission Statement

“To Utilize Innovative Computer Techniques to Enhance Design and Detailing Productivity with Resulting Cost Saving and Reduced Project Schedules.”

## Company Information and History

Formed in 1996 by former Willis & Paul/Watkins employees with extensive bulk material handling backgrounds, Templar Technologies, Inc. is incorporated in the state of Pennsylvania and is a privately held company with three equal partners. Our office is located in Mt. Arlington, New Jersey.

We presently have 10 full time employees, and have relationships with several contract employees on an as-needed basis. Four of our employees are registered Professional Engineers, some in multiple states.

Collectively, the principals and employees have over 250 years of experience in the industries we serve.

## Annual Revenues

Last five year sales averages by discipline:

Belt Conveyor Systems Supply	\$8.5M/Yr
Design Services	\$250K/Yr
Steel Detailing	\$350K/Yr

