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During the 1840's and 1850's, the Robbins and Lawrence Company of Windsor, Vermont, designed and manufactured machine tools that accelerated the industrial revolution in America by improving the production of interchangeable parts and thus stimulating mass production. Many of those tools, or their basic designs, are used today.

The company's rise to prominence resulted primarily from the efforts of Richard S. Lawrence, Frederick Webster Howe, and Henry D. Stone. Joining the firm at different times, the three inventive men, either individually or jointly, contributed the profiling machine, a milling machine, and a universal milling machine, plus additional machine tools, while working for Robbins and Lawrence. After the failure of the firm in the early 1850's, the three contributed to the development of machine tools in various ways.

The three-and-a-half story brick Armory and Machine Shop which stands on Mill Brook in Windsor is all that remains of the once flourishing Robbins and Lawrence factory complex. Built in 1846, the structure has been little changed in the intervening years. The American Precision Museum, Inc. now owns the Armory and is developing it as an industrial museum illustrating the history of machine tools and the products which their development made possible.

The American Precision Museum is open to the public from noon to 5:00 p.m. daily, May 31 through October 13; an admission fee is charged.

### Historical Background

Industry came early to Windsor, Vermont. The community was founded in August, 1764, and by 1769 had a gristmill and a sawmill, both located on Mill Brook. Some seventy years after the town's establishment, a number of custom gun shops existed in and around Windsor. One of these, N. Kendall and Company, produced guns at the town prison, using prison labor for all but the finest work.

(Continued)

STATEMENT OF SIGNIFICANCE

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Form 10-300a (July 1969)

#### UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

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Vermont

# NATIONAL REGISTER OF HISTORIC PLACES

INVENTORY - NOMINATION FORM

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(NATIONAL HISTORIC LANDMARKS)

(Continuation Sheet)

(Number all entries) ---7. Description: (1)

Robbins & Lawrence Armory and Machine Shop; American Precision Museum

### Boundary

In addition to the property owned by the American Precision Museum, Inc., this designation also covers property owned by the Central Vermont Public Services Corporation but historically associated with the Robbins and Lawrence Company and its successor firms; thisproperty is included to provide additional protection for the Armory and its setting. Located within the boundaries but specifically excluded from the landmark designation are the intrusive structures-the substations and switching stations-discussed above. The National Historic Landmark boundaries are defined as follows: beginning at the northeast corner of Main and Maple Streets, thence along the northeast sideline of Maple Street in sections of 25.1 feet, 153.8 feet, 89.1 feet, 55.2 feet, and 175 feet, more or less, to a point, thence turning at an angle of 112.5 degrees thence along a line 20 feet north of the north bank of Mill Brook to the north sideline of Main Street, thence along the north sideline of Main Street to the point of beginning.

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UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES

**INVENTORY -- NOMINATION FORM** 

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PAGE 2

CONTINUATION SHEET

ITEM NUMBER 7

7. Description

Robbins and Lawrence Armory and Machine Shop; American Precision Museum

## Boundary

The boundaries of the National Historic Landmark designation for the Robbins and Lawrence Armory and Machine Shop include both the building and its immediate site, owned by the American Precision Museum, Inc., and additional property, now owned by the Central Vermont Public Services Corporation, which is historically associated with the Robbins and Lawrence Company and its successor firms. The latter property is the location of intrusive structures--the substations and switching station discussed above--which do not contribute to the national significance of the Landmark building.

The Landmark boundaries are described as follows: beginning at the northeast corner of Main and Maple Streets; thence along the northeast sideline of Maple Street in sections of 25.1 feet, 153.8 feet, 89.1 feet, 55.2 feet, and 175 feet, more or less, to a point; thence turning at an angle of 112.5 degrees and running in a line to a point 20 feet beyond the north bank of Mill Brook; thence along a line 20 feet north of the north bank of Mill Brook to the northeastern sideline of Main Street; thence along the northeastern sideline of Main Street to the point of beginning.

Form 10-300a	UNITED STATES DEPARTMENT OF THE INTERIOR		STATE	STATE		
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8. Statement of Significance: (1)

Robbins and Lawrence Armory and Machine Shop; American Precision Museum

Richard S. Lawrence, who was to help transform Kendall and Company into a major producer of machine tools, became an employee of the firm in 1838. Born in 1817, he had experienced a varied career by the time he arrived in Windsor. Shortly after his appearance there, his repair of a doctor's rifle so impressed its owner that he took Lawrence to Kendall and Company, who recognized in him a skillful and ingenious craftsman and hired him immediately.

Kendall and Company abandoned gun making in 1842, but the following year Lawrence and Kendall opened a small gun shop in Windsor. This business prospered and, in the winter of 1844, undertook a Herculean task. At that time, S. E. Robbins, a business man, joined the concern--which became Robbins, Kendall and Lawrence--and stimulated it to bid for a Federal Government order for 10,000 rifles. The new company's bid of \$10.90 per rifle was ten cents lower than any other, and a contract was signed on February 18, 1845, to be completed within three years.

The firm then had neither the men, the machines, nor the buildings required to meet this order, but Lawrence and his colleagues moved rapidly to overcome these obstacles. With only twenty-five workers in their plant, they began to recruit skilled laborers and subsequently formed a highly competent factory crew of some one hundred and fifty men. In April, 1846, laborers began the construction of a three-and-a-half story brick armory on the south side of Mill Brook, just across from the firm's original gun shop. Most important, Lawrence pushed the development of new machine tools to be installed in the factory.

Despite the long odds, the company fulfilled its contract--eighteen months ahead of the deadline--and made an excellent profit. Shortly thereafter, Kendall's partners purchased his interest in the firm, which then became the Robbins and Lawrence Company.

The firm now entered its most notable period. Three men supplied the genius that established the company as an innovator and developer in the field of machine tools. Lawrence, who had been with the firm for several years, continued to contribute mechanical inventiveness and business acumen. In 1847, Frederick Webster Howe joined the firm as Lawrence's assistant and the next year became the plant superintendent. A superlative machinest and an original thinker, Howe invented several machines that were used in industry for years after their development. He produced a profiling machine in 1848 that became widely used in gun factories. In 1849, Howe, in conjunction with Lawrence, developed a milling machine that remains basic to industry, and in 1850 made the first commercially successful universal milling machine. The final member of the Robbins and Lawrence triumverate was Henry D. Stone. In the 1850's he collaborated with Lawrence and Howe in devising improved machine tools, plus developing some on his own.

(Continued)

Form 10-300a (July 1969)

#### UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

**INVENTORY - NOMINATION FORM** 

STATE

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NATIONAL REGISTER OF HISTORIC PLACES

Windsor

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8. Statement of Significance: (2)

Robbins and Lawrence Armory and Machine Shop; American Precision Museum

The brilliance of the work at Robbins and Lawrence achieved international fame in 1851. Taking advantage of an opportunity to participate in the Crystal Palace Exhibition in London that year, the Windsor concern exhibited six of the United States Army rifles that it had made. The firearms intrigued the Exhibition's visitors because of their interchangeability of parts, made possible by the machines developed by Robbins and Lawrence. A medal awarded by the Exhibition formally notified the world of the British opinion of the firm's rifles. Practically, the success of Robbins and Lawrence led to a contract with the British Government in 1854 for one hundred and fifty machine tools for a new state armory.

Despite its growing reputation, however, the firm was over-extended financially and soon failed. It had erected a new plant in Hartford, Connecticut, in 1853 to expand its output. One contract was completed in the new factory and another order for 325,000 rifles was expected. When 25,000 rifles had been produced, it was discovered that there would be no order for the remaining 300,000. Robbins and Lawrence had invested too heavily in expanding its works and the incurred debts, plus old obligations, pushed the concern into bankruptcy.

Following this failure, the Robbins and Lawrence Armory at Windsor was occupied by a succession of new manufacturing firms. During the Civil War, 50,000 rifles were made there for the Union armies. After the War and until 1888, the building was used as a cotton mill. It was owned by an electrical utility, the Central Vermont Public Services Corporation, from 1926 until 1966, when it was turned over to the American Precision Museum, Inc. This organization is now developing the Armory as an industrial museum illustrating the history of machine tools and their products. In addition, the Museum actively collects drawings, photographs, correspondence, catalogues, periodicals, and biographical materials for its reference files, many of which are housed at the Armory.

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