SOLUTIONS

ToolBOSS™ Supply Chain Services



KENNAMETAL®

Supply Chain Solutions

Kennametal Supply Chain Services

As you face new challenges to reduce costs, improve efficiencies, and compete globally, trust the complete offering of supply chain services from Kennametal to give you a competitive edge.

Using industry best practices, our highly trained personnel will identify the supply chain solution best suited to help you:

- Cut tooling inventory by 50% or more.
- Decrease spending on tooling by up to 30%.
- Reduce administrative costs by as much as 90%.

For more information please contact us at:

Phone: 888-281-8080

Email: na-help.desk@toolboss.com

www.toolboss.com



KENNAMETAL®





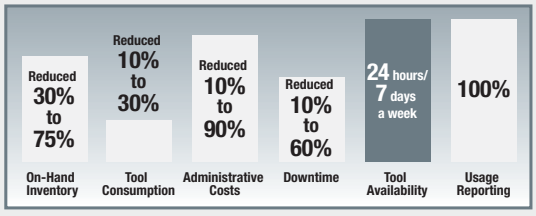




Delivering the industry's best practices and optimal solutions to manage tools and supplies, reduce costs, and increase operational effectiveness!

Why Should You Use Kennametal Supply Chain Services?

- **Faster Results:**
  Our proven expertise means we can help you to establish needs, identify solutions, and achieve measurable results, quickly and cost effectively.
- **Proven Methodology:**
  Successful optimization programs require careful planning, teamwork, and disciplined execution. We use a proven methodology — based on your active involvement — to ensure successful implementation.
- **Disciplined Project Execution:**
  We have implemented hundreds of customized supply chain programs with major manufacturers worldwide, achieving impressive efficiency gains, cost reductions, and other related benefits.
- **Superior Service:**
  Our ongoing support, education, installation, and maintenance programs deliver the latest updates and newest technologies, enabling your supply chain to easily adapt to changing industry conditions.
- **Commitment to Success:**
  As a leader in the metalcutting industry, our success depends upon your success. We are committed to helping you achieve long-term operational and financial benefits — from the receiving dock to the shop floor!



"ToolBOSS™ saves me about four man hours per day. In my little job shop, that's worth about $80,000 annually loaded cost. Incredible!!"

– Owner, *Job Shop*

We Help Our Customers Increase Operational Effectiveness

Kennametal is helping customers to be globally competitive by providing a blend of expert services and high-quality products focused on streamlining your supply chain and increasing overall operational effectiveness.

Successful supply chain optimization programs require careful planning, teamwork, and disciplined execution — and begin with gathering the right data. Using industry best practices, we work with you to collect, organize, and analyze your metalcutting tool and supply inventory and purchasing data. We then use this data to custom-tailor a product and service solution that not only addresses your current needs, but also provides room to grow. Our skilled staff will efficiently implement the solution, train your personnel, and provide the ongoing maintenance and support you need to easily adapt to changing business conditions.

Whether your manufacturing enterprise involves batch processes or mass production — or your metalcutting machines are organized in lines, cells, or as standalone units — Kennametal supply chain products and services will eliminate unnecessary overhead, ensure tooling availability, shorten setup times, and minimize costs by 30–90%. In fact, our solutions often quickly pay for themselves by delivering savings that well exceed your annual spend on cutting tools and supplies.

Optimizing your supply chain will improve your operational effectiveness and yield significant and measurable savings.

Contact your Kennametal Representative today to learn more about the Kennametal Supply Chain Program that's right for you!

Secure Inventory Control with Accountability

Manufactured in the U.S, Kennametal ToolBOSS™ is a unique combination of robust, configurable hardware, modern electronics, industry standard software techniques and the latest developments in data communications, Kennametal ToolBOSS is enabling major cost savings for its many users.

For the first time, a single integrated range of products can provide unparalleled inventory control, single-item security, accountability of use, and online ordering.

Kennametal ToolBOSS machines are suitable for dispensing cutting tools and MRO consumables, critical spare parts, maintenance products, fasteners and fixings, safety products, inspection and measuring equipment, and for many more applications.

A single machine can economically handle the storage and control of items from the size of a tiny screw to bulky items such as safety shoes. A single machine can have the footprint of a filing cabinet and larger systems can manage over 4,000 different items.

The Kennametal ToolBOSS Provides:

- 24/7 automated control
- Guaranteed availability
- Secure, auditable storage
- Consumable and reusable tooling solutions
- Item calibration tracking and control
- Line side availability
- Fast and easy system operation
- Complete user accountability
- Automatic procurement capabilities
- Centralized SQL database

Kennametal ToolBOSS Provides An Easy Way To:

- Reduce inventory procurement costs
- Improve product availability
- Reduce tooling/consumable wastage
- Improve customer relationship
- Enhance calibration tracking and control
- Improve productivity

Take Control

The software system that drives the ToolBOSS is powerful and extremely easy to use.

Because of the unique design of the ToolBOSS, items cannot only be issued, but also returned for repeated use. This is valuable for inspection equipment and tooling applications.

The software allows issues by multiple criteria (e.g. cell, job, user) and the different criteria will allow access to a restricted list of items (e.g. those required for a single job) while allowing general use items (e.g. safety equipment) to be available to everybody.

Controlled access through permissions, passwords, and access devices enable each user a unique “profile” to suit their individual requirements. A supplier can restock the machine while an operator can only withdraw and return items.

The ToolBOSS can control items outside the machine by either issuing a key or by issuing items directly. Loose items, such as screws and washers, can be issued by weight, using built-in electronic scales. Batch or individual traceable items, such as inspection equipment or aircraft spares, can be managed.
A coded, non-editable audit trail provides evidence of every transaction. Search routines, and the ability to display graphical images of both items and the users, are also part of the design.

Every ToolBOSS machine includes a powerful, flexible report generator that enables the user to have standard and customized report output.



Once a report has been defined, it can be accessed anywhere on the network or sent via email on a schedule to the appropriate recipient. With the networking and modern hardware built into the ToolBOSS as standard, users on the network can access the ToolBOSS to reconfigure, run reports, and collect ordering information. Full EDI/electronic capability is included with the system for analysis of information and purchasing. Multiple, independent suppliers can have access to their own information — and only their own information.

Multiple ToolBOSS machines can be networked together and can provide information about each other’s contents.

Combined with our powerful ToolBOSS™ Management Software, the cabinet provides a versatile high-capacity solution to meet the unpredictable challenges of logistics and supply chain management

- **RECONFIGURABLE:** Single trays or the entire frame can be easily changed in minutes without the use of tools.
- **UNIQUE MANUAL OVERRIDE FACILITY:** Unique manual override capability, simple, and easy to use, 24/7 availability.
- **DRAWER OPTIONS:** 30 different drawer sizes available to accommodate a large variety of differently sized items; additional special sizes are available upon request.
- **SECURITY:** Access to the contents of items in the cabinet can be restricted by the use of: username, password, biometric identification, card readers, or a combination of these options. High-strength drawer locks cannot be forced open by normal or aggressive use without the assistance of tools.
- **COMPATIBILITY:** The cabinet is fully compatible with all existing ToolBOSS units.
- **HIGH-SPEED ACCESS:** Rapid search and selection of items via the ToolBOSS software is further enhanced with a complete LED identification system that guides users directly to the correct drawer.
- **EXPANDABILITY:** The cabinet can be expanded by up to 10 units per system, providing up to 1,121 secure locations.

- **DIMENSIONS:** 20.1"D x 21.5"W x 78.7"H
  (510mm D x 545mm W x 2000mm H)
- **CAPACITY:**

  As a standalone machine:

  – 26 levels

  – 104 locations (max)

  – 1,248 compartments (max)

  As an add-on machine:

  – 28 levels

  – 113 locations (max)

  – 1,344 compartments (max)

For more information about managing your inventory with ToolBOSS please contact your Kennametal Representative or Authorized Kennametal Distributor.



Services Offered

Defining an optimum supply chain solution involves the following Kennametal key services:

Step 1 — Item Survey
The Item Survey accurately assesses your optimum storage needs. Without it, you risk implementing a solution that is either inadequate or overpriced. A completed Item Survey is the foundation for designing a supply chain solution correctly sized for your needs.

Step 2 — Item Planning and Database Building
This service is the next step in optimizing your supply chain. It transforms the data gathered during the Item Survey into a functional database that determines which process changes and enhancements will yield the greatest savings.

Step 3 — Education and Installation
We support our products, equipment, and services with a range of installation and onsite and offsite education programs to quickly and effectively train your employees and help you maximize your investment.

Step 4 — Equipment and Software Maintenance Agreements
Our Equipment and Software Maintenance Agreements offer free replacement parts for failed components, free software updates, and unlimited telephone support. Kennametal provides several payment options to suit your budget and ensure uninterrupted support.

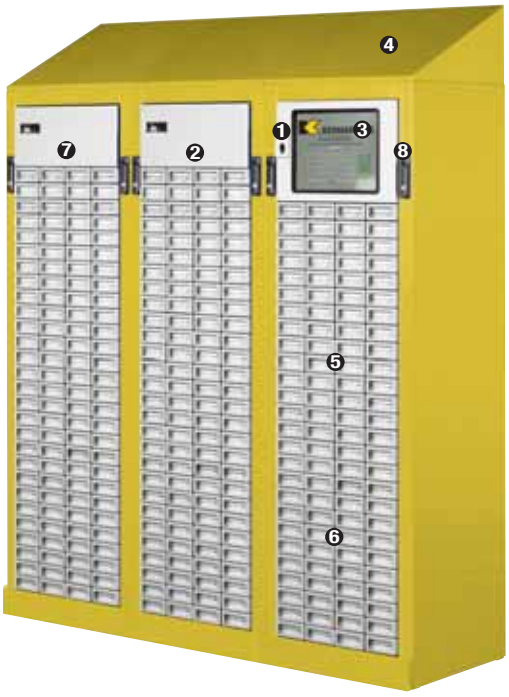
Products Offered

Kennametal offers several products that, when paired with our Supply Chain Services, yield maximum bottomline results:

ToolBOSS™ Management System

The Kennametal ToolBOSS Management System is an unmanned drawer-based system for dispensing and replenishing metalcutting tools and supplies at point-of-use. You can configure ToolBOSS with a virtually unlimited array of drawer sizes, cupboards, and lockers to accommodate various items and packaging dimensions.

ToolBOSS can help you to establish secure 24-hour inventory control, streamline tooling and supply purchases, and build the foundation for seamless migration to an enterprise-wide tool management system.



❶ Optional employee identification device (magnetic card, proximity reader, chip or barcode reader, or biometric scanner)

❷ Brand name desktop PC inside

❸ Industrial monitor and touchscreen

❹ UPS and power filter

❺ Light indicates appropriate frame and drawer

❻ 19 modular configurable drawer sizes for inserts, drills, toolholders, and tool assemblies

❼ Electronic cupboards

❽ Central locking system per frame

"Tool-use data reported by ToolBOSS software drives our continuous improvement programs. In the first year, we made improvements that reduced the tool cost per man hour KPI by 15% ."

— Production Engineering Manager, Pumps and Valves Industry

"ToolBOSS reduced our MRO non-production inventory from $1,114,680 to under $207,012 in just a few months."

— Aerospace Manufacturer

The ToolBOSS™ ECTC (Journeyman)

A conventional cabinet with ToolBOSS electronic lock upgrade

- **SOFTWARE:** Uses a light version of the ToolBOSS operating software. Migrates easily into ToolBOSS equipment and software — no new software to learn.
- **SECURITY:** ToolBOSS ECTC (Journeyman) offers drawer-level security to conventional tool cabinets when the cabinets are upgraded with a ToolBOSS electronic lock providing additional security to the electronic locks supplied by many cabinet manufacturers. With the ToolBOSS electronic lock, users are able to open only specific drawers, rather than the entire cabinet. An LED light illuminates the drawer that is unlocked.
- **COST-EFFECTIVE:** Provides cost-effective control for a large number of lower usage and lower cost items.
- Ensures that the correct drawer opens when an authorized user requests an item via the software.
- **COMPATIBILITY:** Requires no additional training for existing ToolBOSS users.
- **VERSATILITY:** Suitable for storing small to large sized items.



- **STANDALONE:** Can be used as a standalone or add-on.
- **DIMENSIONS:**
  7 drawers all 28-1/4" W x 28-1/2" D
  2 drawers — 2" H
  2 drawers — 3" H
  2 drawers — 7" H
  1 drawer — 5" H
- **WEIGHT CAPACITY:** 440 lbs

SUPPLY LOCKERS

Bulk Storage and Large Items

- **BULK STORAGE:** Three different cupboard sizes available.
- **STANDALONE:** Can be used as a standalone solution for managing large and bulky items.
- **CONFIGURABLE:** Each locker can be configured to provide a mixture of three different cupboard sizes.
- **SECURE LOCATIONS:** Up to 27 secure locations in a single unit.
- **EXPANDABLE:** Can be expanded by up to 10 lockers providing up to 270 secure locations.
- **COMPATIBILITY:** Can be seamlessly integrated into any existing ToolBOSS installation.
- **MANUAL OVERRIDE:** An easy-to-use manual override facility to ensure access to items in case of power or computer failure.



- **DIMENSIONS:**
  Frame: 2000mm H x 1090mm W x 510mm D

Cupboards:	Small	Medium	Large
Height/(mm)	154	254	515
Width/(mm)	320	320	320
Depth/(mm)	500	500	500

- **WEIGHT CAPACITY:** 75 kg per cupboard

MODULO

High Capacity, Competitive, and Modular



- **CONFIGURABLE:** Can be configured to provide different size drawers and compartments.
- **HIGH CAPACITY:** Up to 120 secure locations managing up to 1,440 items.
- **UNIQUE MANUAL OVERRIDE FACILITY:** Easy to use, unique front access manual override capability, which requires no disassembly. The override can be selectively set to allow access to only the required items, maintaining the security of the rest of your vital components.
- **EASY SCOOP DESIGN:** Compartment shape ensures smooth retrieval of contents.
- **HIGH-SPEED ACCESS:** Rapid search and selection of items via the Kennametal ToolBOSS™ software is further enhanced with a complete LED identification system, which guides users to the drawer.
- **EXPANDABLE:** Up to 10 units per system, providing 1,200 secure locations, managing up to 14,400 items.
- **COMPATIBILITY:** The MODULO is fully compatible with all existing ToolBOSS machines.

- **DIMENSIONS:** 510mm H x 545mm W x 2000mm D
- **CAPACITY:** 120 locations, 1,440 compartments (max)
- **CONSTRUCTION:** Steel frame, ABS plastic drawers
- **USER INTERFACE:** 15" capacitive touchscreen

ROTOPOINT

Ideal solution where space is limited but the need for managing a large number of different items is essential, for example, gloves, goggles, and hand tools



- **LOW TO HIGH VOLUME:** The ROTOPOINT is available in 6 variations, providing a wide number of locations from 90 up to a maximum of 468 in a single unit.
- **MANUAL OVERRIDE:** In an ideal world, manual override would never be needed, but if required, the ROTOPOINT has a simple manual override, which allows the contents to be accessed in case of power outage.
- **SECURITY:** The compartments in the ROTOPOINT are hidden from view behind sturdy sliding doors and can withstand vigorous operation. The contents can be randomly distributed around the ROTOPOINT, reducing the risk of the unauthorized removal of contents.
- **EXPANDABILITY:** The ROTOPOINT can be expanded by up to 10 units per system to provide up to 4,680 secure locations managed and controlled by the powerful management software designed and developed by Kennametal ToolBOSS experienced engineers.
- **COMPATIBILITY:** The ROTOPOINT is fully compatible with all existing ToolBOSS machines.

- **DIMENSIONS:** 1030mm H x 1030mm W x 2010mm D
- **WEIGHT CAPACITY:** 250 kg (uniform distributed load)
- **LOCATIONS PER LEVEL:** 18–36
- **NUMBER OF DOORS:** 5–13
- **LOCATIONS:** 90–468 in a single frame

MAXIMIZING CHOICE:
With a range of flexible solutions, from satellite stores to central warehouses, our advanced integrated solutions ensure easy and consistent management of your data, with robust automated synchronization to a centralized database.

EMPOWERING YOU:
Facilitating regional, national, and global availability of your enterprise data, our secure easy-to-use customer portal provides advanced data management tools, eliminating the need for costly in-house application deployment.

REMOTE MANAGEMENT:
Software-only installations for manned or satellite stores integrate seamlessly to the central database, providing consistent and complete visibility across the business, while simultaneously improving return on investment.



REDUCED INVESTMENT:
Requiring minimal investment for training, infrastructure deployment, and maintenance, our solutions ensure optimal use of your resources, improving efficiency, enhancing productivity, and maximizing profitability.

SITE-WIDE MANAGEMENT:
Single trays or the entire frame can be easily be changed in minutes without the use of tools.

TAILOR-MADE:
Individual, location-specific system settings and reorder points ensure each machine and store area is optimized to the local requirements, ensuring automatic, uninterrupted, and efficient operation.

ROBUST SOLUTIONS:
Automatic data replication, integrity, backup, and recovery tools guarantee your data is always safe and secure with automatic and transparent management of sporadic network or infrastructure problems.



SECURE ACCESS:
Using industry standard, end-to-end 256-bit SSL encrypted data transfer, we manage and protect your valuable data, while ensuring you retain complete ownership and instant worldwide access.

INFORMATION CONSOLIDATION:
With usage and inventory data replicated on a central database, located on your network or on our expansive hosted SAN, our flexible and robust architecture ensures instant availability of management information.

Supply Chain Solutions

The Kennametal ToolBOSS™ is built using leading-edge technologies and infrastructure provides flexible, cost-saving solutions you control.

Built on a powerful synchronization agent, each point-of-use machine or terminal operates independently, while automatically synchronizing data across your organization.

Comprehensive data exchange delivers consolidated information relating to KPIs for all areas of the business; data can be managed on a site-by-site or corporate level depending on your specific requirements.

In an increasingly competitive world, our systems provide comprehensive, information-centric solutions, allowing you to stay ahead of your competition.

ToolBOSS systems are built using leading-edge technologies and infrastructure providing flexible, cost-saving solutions you control.



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