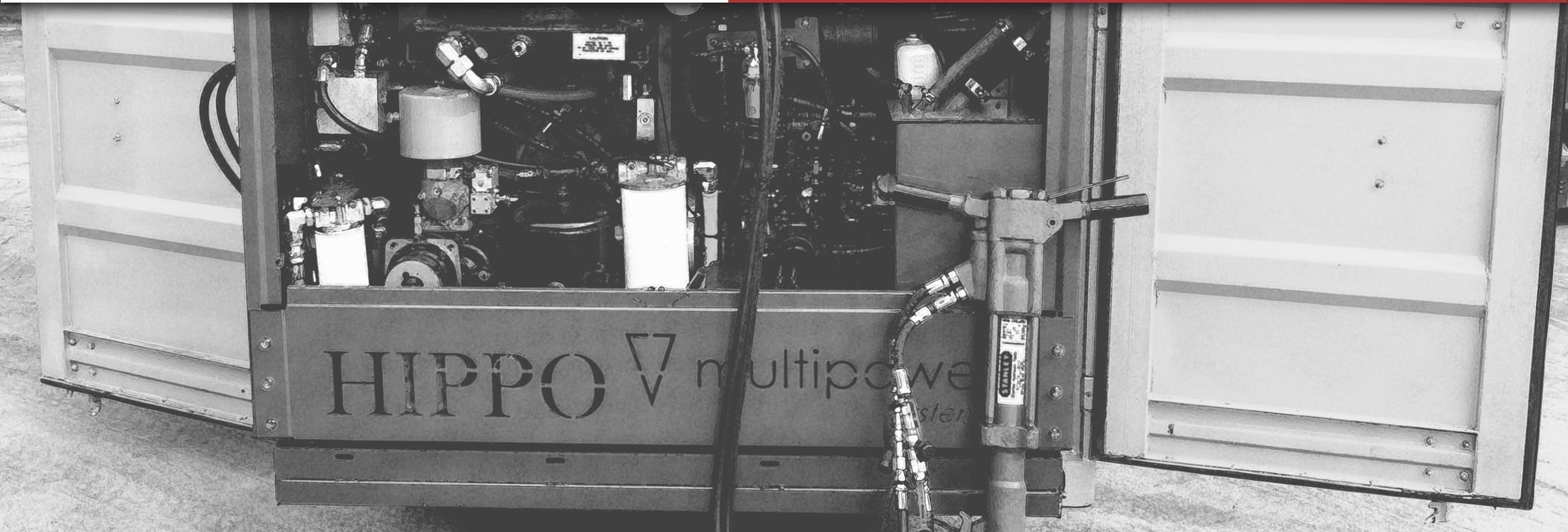


KIPPERTOOL®
The Leader in Military Tool Systems

THE NEXT GENERATION OF MULTI-CAPABLE TOOL SYSTEMS





The Setup

During the past 10 years, the military has acquired a countless supply of TRICON containers used for transportation and garrison storage. The TRICON has become a permanent fixture in today's military. The problem is that the TRICON's most common double-door access models are nothing more than a box with access doors on each side. This causes users to fabricate a wide range of makeshift options within the TRICON for on-site storage. Modifications include mobile lockers and capital equipment housings. Often times these modifications damage or destroy the equipment and/or the TRICON.

Cave Systems Inc. continues to engineer and produce new and inventive ways of making better use of the TRICONS and develop new methods of delivering essential equipment to the battlefield. Cave makes an effort to increase efficiency by reducing the container "footprint" and exoanding the container volume utilization. These military minded solutions continue to deliver the most utility and protection available.

Kipper Tool Company is constantly expanding the scope of their battle proven, industrial leading tool systems. In partnering with Cave Systems, this will increase tool system efficiencies in mobility, accountability, storage, safety and more.

The Prototype

Kipper Tool Company and Cave Systems have combined efforts to demonstrate the potential of combining their core capabilities. The prototype accommodates various parts and modules from the Kipper Tool VMTS MPU catalog within one efficient TRICON. The tools are sheltered within their own Steel or Aluminum drawers. Each drawer is mounted onto CAVE's Standard SuperGlide 500 slide system and includes a tool organization method that contours to hold the tools in separate pockets or by retention features. This retains each tool in position to provide for rapid inventory of the tool load, even under rough shipping conditions.

Multi-Power Unit Storage & Mobility

To demonstrate the extreme versatility of Cave "Glide-Out Shelves" and enhanced capabilities of the central point of our Multi-Power Unit (MPU) system and its hose reels, we have implemented the *MPU 2032E or *MPU 2042 power pack into this system.

The power unit is a skid mounted, self contained, diesel-engine-driven power pack that provides air, electric, and hydraulic, and/or welding power for heavy-duty handheld power tools. The MPU will operate up to 8 hours on a single tank of fuel, as well as draw fuel from an outside fuel source. The unit has on-board coolers to keep oils at optimum temperatures during operation. Hydraulic hoses, electric wiring and air lines are all color coded and labeled to for ease of maintenance and diagnostics.

The 1500 lb. unit is then mounted within the TRICON on a Glide-Out fully extendable shelf for easy maintenance or operation. The shelf is part of a self contained frame that also houses the system's hose reels. The self contained frame or Removable Unit (RU) can be loaded into the container by a forklift and securely locked to the floor via an Adaptor Base Plate. This allows the complete MPU and hose reels to be a removable unit to be utilized in a work area and then moved to the container, securely locked down and be ready for deployment in less than 20 seconds. RUs are fitted with full-height "Lockable Gates" used for horizontal insert retention during deployment and also improves theft and pilferage protection while in transport mode and at the work area.

This prototype described is just an example of the capabilities. Both Kipper Tool and Cave System are constantly improving and developing new and inventive products. All of which can be integrated to meet and exceed the customers' needs. We both pride ourselves in providing only the best industrial solutions for each mission or extreme end user needs.

For more information on Kipper Tool Company extreme end use tool systems and Cave System products please refer to the catalogs and websites.



Tool Organization Method

- To provide additional protection to the tools, the tools are placed within rapid inventory foam cut-outs.
- Cut-outs can include a silhouette underneath each tool with the part number clearly and permanently etched.
- Each contoured retention allows for easy removal of the tools with recesses and protrusions where needed.
- Organization method provides contrasting color underneath the tools to aid in rapid inventory.
- Materials used in the tool organizing method are resistant to water, refrigerants, automotive oils, greases, lubricants, fuels including gasoline, diesel fuel, JP-8 and JP-4, coolants, alcohols and cleaning agents.
- Aiding Foreign Object Damage (FOD) prevention, each item is etched with a unique number combination selected by the customer.

System Removable Units (RU)

- Removable Units can be loaded into a container by Forklift and securely locked to the floor by using an Adaptor Base Plate.

- RUs are fitted with full-height “Lockable Gates” used for horizontal insert retention during deployment and also improves theft and pilferage protection while in transport mode and at POU.

- Removable Units can be fitted with the following inserts: StackaBoxes, Drawers, Bulk Trays, Bulk Shelves, Cage Units, Standard Single-Entry and 100% Glide-Outs, Fixed Shelves, or a combination of inserts in the same RU. An RU Bulk Box is also available.

Storage Drawers & Shelves

- Each drawer is equipped with 2 stainless steel hinges and 2 stainless steel hasps with a locking feature for added security.
- Two spring-loaded handles fitted to the front of the drawer for access.
- Drawers load up to 500 lbs. for the 38” Drawer or 750 lbs. for the 28” Drawer.
- Weatherproof Lid outfitted with a Neoprene bulb seal to give extended life.
- Lid is supported by the gas struts keeping the lid vertical in wind gusts up to 40 mph.
- SuperGlide 500 system virtually eliminates metal-to-metal contact with its oil impregnated UHMW Slide, reducing corrosion.
- SuperGlide 500 Slide System is self-lubricating, self-cleaning, reduces shock loads to stored items and is maintenance free.
- Full-height Lockable Gates are fitted to both the SpaceFrame and RU for additional security
- Glide-Out Shelves can be reconfigured on 1 5/8” (41.5mm) vertical centers for greater versatility as new missions demand.





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