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# Ruggedized Industrial PC's

## RUGGED FOR THE REAL WORLD

Some environments require rugged products that can literally take a beating. When you need mobile computing solutions they can depend on in extreme environments, rugged is a must. Getting durability, performance and reliability in any environment and any condition is crucial. Built to meet the heightened needs of industry clients, DURABOOK's unmatched rugged product lineup has everything you need.

### Why DURABOOK:

- State-of-the-art Technology: Durabook offers latest Intel® generation processors, packed with great performance and visuals into a compact form.
- Compact Built for all Purposes: Compact design and rich range of built-in connectivity options to maximize the efficiency for those who work in extreme conditions.
- DynaVue® – Detail at a Glance: Best screen visibility that enhance viewing clarity even from different angles, and in bright sunshine or low light conditions.
- Built for all Environments: Certified for MIL-STD-810G and IP ratings, as well as ANSI/ISA 12.12.01 and MIL-STD-416G/416F. Experience peak performance in dust, humidity and extreme temperatures – whether in freezing cold -30°C or hot temperatures of 60°C.
- Faster Lead Time and flexible Customization: Committed to excellent service, offering fast delivery time, flexible customization service and a complete warranty package to ensure user satisfaction.

Please contact us for information on all available customisation options.



Certified by independent third-parties for MIL-STD-810G and IP ratings, as well as ANSI/ISA 12.12.01 and MIL-STD-416G/416F.



Leading rugged design to increase productivity and efficiency for any conditions.



Survived drop tests up to 6 feet (182 cm), rigorous vibration and impact protection tests.



Unsurpassed thermal solution for continuous work in mission-critical situations.



Experience peak performance in extreme temperatures, whether in freezing cold up to -30°C or extreme hot temperatures of 60°C.



Designed from the ground up with high-performance materials for full protection.



DynaVue® technology improves display clarity and 23% widerviewing angle, while the screen is designed and built at industrial class for outdoor weather and light conditions.



Webcams with physical privacy shutters for additional protection, opened and closed with just one simple finger movement.



**DURABOOK**  
Prepared for the Unexpected

## DURABOOK R11 RUGGED TABLET

- MIL-STD-810G Certified for 4ft drop 26 faces, drop, shock, vibration, altitude, freeze/thaw, high/low temperature, temperature shock, humidity, MIL-STD 461F Certified for Electromagnetic Requirements
- IP65 Certified Water and Dust Resitance
- Core I5 Processor, Core I7 available on request
- ANSI CID2 12.12.01 Certified for Hazardous Environments
- Display: 11.6 inch FHD (1920 x1080) 1000 nits
- Field with DynaVue sunlight readable display with capacitive multi-touch screen



Part No.	Description
R11-S-I5-8GB	R11 Rugged Tablet 8GB
R11-S-I5-16GB	R11 Rugged Tablet 16GB
R11-F-I5-8GB	R11 Rugged Tablet Field 8GB
R11-F-I5-16GB	R11 Rugged Tablet Field 16GB

## DURABOOK R11L RUGGED TABLET LIGHT

- MIL-STD-810G Certified for 4ft drop 26 faces, drop, shock, vibration, altitude, freeze/thaw, high/low temperature, temperature shock, humidity, MIL-STD 461F Certified for Electromagnetic Requirements
- IP65 Certified Water and Dust Resitance
- 128GB SSD
- ANSI CID2 12.12.01 Certified for Hazardous Environments
- Display: 11.6 inch FHD (1920 x1080) 1000 nits DynaVue multi-touch sunlight readable display



Part No.	Description
R11L-4GB	R11L Rugged Tablet Light 4GB

## DURABOOK U11I RUGGED TABLET

- MIL-STD-810G Certified for 6ft drop 26 faces, drop, shock, vibration, altitude, freeze/thaw, high/low temperature, temperature shock, humidity, MIL-STD 461G Certified for Electromagnetic Requirements
- IP65 Certified Water and Dust Resitance
- ANSI CID2 12.12.01 Certified for Hazardous Environments
- Display: 11.6 inch FHD (1920 x1080) 1000 nits DynaVue sunlight readable display with capacitive multi-touch screen User selectable touch mode for Finger/Water, Glove, or Stylus programmable function



Part No.	Description
U11I-S-I5-8GB	U11I Rugged Tablet 8GB
U11I-S-I5-16GB	U11I Rugged Tablet 16GB
U11I-S-BUNDLE	U11I Rugged Tablet 8GB with detachable Keyboard
U11I-F-I5-8GB	U11I Rugged Tablet Field 8GB
U11I-F-I5-16GB	U11I Rugged Tablet Field 16GB

## DURABOOK S15AB RUGGED LAPTOP THIN

- MIL-STD-810G Certified for 3ft drop 26 faces, drop, shock, vibration, dust, altitude, high/low temperature, humidity
- IP5X Certified Water and Dust Resitance
- Core I5 Processor, Core I7 available on request
- Port Covers, quick-release batteru, aluminium-magnesium alloy chassis
- Display: 15.6 inch FHD (1920 x1080) 400 nits sunlight readable display



Part No.	Description
S15AB-I5-8GB	S15AB Rugged Laptop Thin 8GB
S15AB-I5-16GB	S15AB Rugged Laptop Thin 16GB

## DURABOOK S14I RUGGED LAPTOP

- MIL-STD-810G Certified for 4ft drop 26 faces, drop, shock, vibration, altitude, freeze/thaw, high/low temperature, temperature shock, humidity
- IP53 Certified Water and Dust Resitance
- Core I5 Processor, Core I7 available on request
- Display: 14.0 inch FHD (1920 x1080) 1000 nits DynaVue sunlight readable display with capacitive multi-touch screen User selectable touch mode for Finger/Water, Glove, or Stylus programmable function



Part No.	Description
S14I-I5-8GB	S14I Rugged Laptop 8GB
S14I-I5-16GB	S14I Rugged Laptop 16GB

## DURABOOK Z14I RUGGED LAPTOP

- MIL-STD-810H Certified for 6ft drop 26 faces, shock, vibration, rain, dust, altitude, freeze/thaw, high/low temperature, temperature shock, humidity, explosive atmosphere, solar radiation, salt fog, fungus resistance, MIL-STD 461G Certified for Electromagnetic Requirements
- IP65 Certified Water and Dust Resitance
- ANSI CID2 12.12.01 Certified for Hazardous Environments
- Core I5 Processor, Core I7 available on request
- Display: 14.0 inch FHD (1920 x1080) 1000 nits DynaVue sunlight readable display with capacitive multi-touch screen User selectable touch mode for Finger/Water, Glove, or Stylus programmable function
- Intel 11th generation Tiger Lake available on request



Part No.	Description
Z14I-I5-8GB	Z14I Rugged Laptop 8GB
Z14I-I5-16GB	Z14I Rugged Laptop 16GB

# Glue Guns

## STEINEL GLUE GUN

### Specifications:

- Dimensions 185 x 32 x 180 mm
- Weight: 330 g (without stand)
- Output:
- Idle: 20W
- In use: 120W
- Warming-up: 500W
- Warm-up time: 3-5 min.
- Glue sticks: Ø 11 mm dia.
- Melt temperature: 210° - 220°C
- Delivery rate: approx. 22 g/min.



Part No.	Description	Voltage
GLM 3002	Mains Glue Gun	220-240VAC 50Hz
GF 3002	Mains Glue Gun	120VAC 60Hz

## "CORDLESS" GLUE GUN

- Cordless thanks to heat storage capability.
- On placing the unit on the charging station it automatically connects to power and starts heating the adhesive.
- Electronic temperature control with PTC heating technology.
- Power cord simply plugs into unit for continuous operation.
- Energy-saving standby mode and electronically controlled dual heating system for short warm-up times. Mechanical glue stick feeder for a speedy, well-metred flow of glue

### Specifications:

- Dimensions (L x W x H): 185 x 32 x 180mm
- Warm-up time: 3-5min
- Melt temperature: 210°-220°C
- Glue sticks: Ø 11mm dia
- Output (approx.):
- Idle: 20W
- In use: 120W
- Warming-up: 500W
- Voltage: 220-240V
- Warm-up time: 3-5min
- Glue sticks: Ø 11mm dia
- Melt temperature: 210°-220°C
- Delivery Rate: approx. 22g/min



Part No.	Description
GLM 5000	Cordless Glue Gun

## HOT MELT GLUE GUN NOZZLES

Replacement nozzles for Steinel 3002/5000 series



Part No.	Description
076160	Replacement Glue Nozzle 1.0mm Fine Nozzle
075965	Replacement Glue Nozzle 2.8mm, Long Nozzle

## GLUE GUN NEO 3 CORDLESS LI-ION 7.2V

- Ready to glue in 15 seconds
- Switches off automatically after use
- Cordless operation with rechargeable lithium-ion battery
- Set and capable of withstanding loads after 2 minutes
- Electronic temperature control through modern PTC heating technology.

### Specifications:

- Dimensions (L x W x H): 140 x 50 x 180mm without charging station
- Weight: 260g
- Voltage: 7.2V rechargeable lithium-ion battery
- Battery run-time: approx. 45 minutes of continuous use
- Battery charge time: 90% in 1.5h
- Voltage: 230-240V, 50/60Hz
- Warm-up time: under 15sec
- Glue Sticks: Ultra power cristal sticks (150mm length x Ø 7mm, 60g); Melting temperature approx. 190°C; The clear craft glue for invisible bonds; Transparent and low-drip.



Part No.	Description
NEO 3	Rechargeable Glue Gun

## 3M EPX-PLUS-II-APPLICATOR

3M Scotch-Weld EPX (Exact Proportioning and mixing) manual applicators make dispensing our two-component 3M Scotch-Weld Structural Adhesives clean, easy and with minimal waste. Manual hand motion drives the dual pistons directly into the Duo-Pak cartridge, applying equal pressure and feeding the two components of the adhesive directly into the mixing nozzle (sold separately).

Supplied with two plungers to mix the adhesive to the correct ratios, plunger sizes are - 10:1 & 2:1 mixing ratios.



Part No.	Description
62-9170-9913-7	3M EPX APPLICATOR (Includes 2 x Plungers)

# Heat Guns

## PISTOL HEAT GUN 1600W

- Ideal for drying plaster, shrinking cable sleeves and stripping paint
- Fatigue-free working due to optimised centre
- Prevents overheating with integrated thermal cut-ou

### Specifications:

- Airflow Rate: 240 or 450l/min
- Heating Element: Micanite
- Temperature: 300° or 500°C
- Weight: 670g



Part No.	Description
HL1620S	Pistol Heat Gun 2 Spd 1600W

## STEINEL LCD VARIABLE SPEED HEAT GUN

Variable temperature model with both adjustable air speed of 150-500l/min and temperature of 50°-650°C. A second position is for cooling.

### Specifications:

- 2300 Watts.
- LCD Display for precise heat setting.
- Variable blower settings.
- Continuously adjustable.
- Heat warning LED.



Part No.	Description
HG2320E	LCD Heat Gun

## STEINEL NOZZLES



Part No.	Figure	Description
070519	1	Large reflector nozzle
074616	2	Reflector nozzle
070618	3	Reduction nozzle 9mm
070717	4	Reduction nozzle 14mm
074715	5	Wide slit nozzle (mounts on 070717)

## DIGITAL PISTOL HEAT GUN 2000W

- Ideal for removing and welding sheetings, welding plastics, shrinking on cable sleeves, shaping, soldering, drying, stripping paint
- Electronically controlled, continuously adjustable
- Fatigue-free working due to optimised centre
- Prevents over-heating with integrated thermal cut-out

### Specifications:

- Airflow Rate: 150, 150-300 or 300-500l/min
- Heating Element: Ceramic
- Temperature: 80-600°C
- Weight: 840g



Part No.	Description
HL1920E	Digital Pistol Heat Gun 2000W

## LEISTER HOT-JET-S AIR GUN

- Industrial version 460W hot air gun
- Range: 20 - 600 °C / 68.0 - 1112.0 °F
- Airflow 20 - 80 l/min (0.7 - 2.82 cfm)
- Nozzle diameter 21.3 mm / 0.85 in.



Part No.	Description
L100 854	Leister Hot Jet S
L107 144	Reduction Nozzle

## LEISTER TRIAC ST HOT AIR GUN

- Powerful, heavy duty 1500 - 1600 W hot air gun
- Range: 40 - 700 °C / 104.0 - 1292.0 °F
- Airflow 240 l/min (8.47 cfm)
- 31.5 mm / 1.25 in
- More than 80 attachment nozzles available



Part No.	Description
104.310 TRIAC	Leister Triac ST Hot Air Gun



## PANASONIC CORDLESS SCREWDRIVER 3.6V LI-ION

- Converts from straight to pistol shape
- Ease of use especially in tight areas or working overhead
- Compact size & light weight for overhead work
- Advanced ergonomic design, well balanced, easy to operate for extended periods of time without fatigue
- LED light to support work in dark areas
- Variable speed control/reversible
- With an extra battery pack as standard equipment

### Specifications:

- Battery: 1.5Ah Li-Ion
- Charging Time: 30min
- 1/4" Hex quick connect chuck
- Torque: 1.5-4.4Nm
- Speed: 200-600rpm (no load)
- Auto shut-off clutch
- 21 stage clutch control



Part No.	Description
EY7410LA2S	Panasonic Screwdriver 3.6V
EY9L10B	Replacement Rechargeable Battery

## PANASONIC CORDLESS HAMMER DRILL & DRIVER 14.4V LI-ION DUAL VOLTAGE

- High power drilling with extreme durability
- Hybrid switch
- Precision variable speed control/reversible
- Optimum rotation speed control
- LED light to support work in dark areas
- Electric brake for added safety
- With an extra battery pack as standard equipment

### Specifications:

- Torque: 12-50Nm
- Speed: 30-1580rpm (no load)
- Charging Time: Usable 45min / Full 80min
- Battery: 4.2Ah Li-Ion
- 13mm heavy duty keyless chuck
- 18 stage clutch control
- 2 work modes (low/high)



Part No.	Description
EY79A2LS2F57	Panasonic Hammer Drill & Driver 14.4V

## PANASONIC CORDLESS IMPACT DRIVER 18V LI-ION DUAL VOLTAGE

- Advanced ergonomics
- Multiple Modes for all applications
- Robust build for heavy-duty use
- Ideal for working long periods and overhead work
- Variable speed control/reversible
- LED light to support work in dark areas
- Electric brake for added safety
- With an extra battery pack as standard equipment

### Specifications:

- Torque: 26-160Nm
- Speed: 950-2500rpm (no load)
- Impact: 1200-3100ipm
- Charging Time: Usable 45min / Full 80min
- Battery: 5.0Ah Li-Ion
- 3 work modes (low/med/high) plus self-drilling screw mode



Part No.	Description
EY75A7LJ2G57	Panasonic Impact Driver 18V

## PANASONIC CORDLESS DRILL & DRIVER 14.4V DUAL VOLTAGE

- IP56 rated for the ultimate in toughness
- Dual voltage for use with either a 14.4V or 18V battery
- Overheat Protection System (OPS)
- 2 x 14.4V 4.2Ah Li-Ion batteries, 1 x charger and hard case
- High power: 37.5Nm
- 50min. charging system
- Variable speed control, reversible
- 18-stage clutch plus drill position
- 13mm heavy duty keyless chuck
- LED light for support
- Belt hook
- Electric brake
- With an extra battery pack as standard equipment



Part No.	Description
EY74A1LS2F57	Panasonic Drill 14.4V
EY9L45B57	Replacement 14.4V Battery 4.2Ah

## EY79A2LJ2G57 CORDLESS HAMMER DRILL & DRIVER 18V LI-ION DUAL VOLTAGE

- High power drilling with extreme durability
- Hybrid switch
- Precision variable speed control/reversible
- Optimum rotation speed control
- LED light to support work in dark areas
- Electric brake for added safety
- With an extra battery pack as standard equipment

### Specifications:

- Torque: 12-50Nm
- Speed: 30-1580rpm (no load)
- Charging Time: Usable 45min / Full 80min
- Battery: 5.0Ah Li-Ion
- 2 work modes (low/high)
- 13mm heavy duty keyless chuck
- 18 stage clutch control



Part No.	Description
EY79A2LJ2G57	Panasonic Hammer Drill & Driver 18V

## DREMEL® 7750 KIT – RECHARGEABLE

- The easiest tool for mobile use
- Engraving, cutting, sanding, grinding, sharpening, polishing and cleaning
- Comfortably get into tight spaces both indoor and outdoor
- EZ Twist accessory quick change system
- 8,000-20,000rpm variable speed

### Included:

- Multi-Tool and 10 accessories
- 1 hour battery charger



Part No.	Description
DRM 7750-10	Dremel Kit

## DREMEL® 300 SERIES KIT

- This kit includes the Dremel® 300 Series Multi-Tool and 25 accessories in a convenient case for storage of accessories and attachments.
- 10,000-37,000 RPM variable speed, 125W motor



Part No.	Description
DRM 300-25	Dremel Kit

## DREMEL® 8220 KIT – RECHARGEABLE

- Detailed indoor and outdoor use
- Cordless, but as powerful as corded Multi-Tools
- Cutting, grinding, sanding and polishing with the greatest precision
- Motor brake stops the accessory from spinning right after switching off
- EZ Twist accessory quick change system
- 5,000-33,000rpm variable speed

### Included:

- Multi-Tool and 28 accessories
- Cutting Guide
- 1 hour battery charger



Part No.	Description
DRM 8220-1/28	Dremel Kit

## DREMEL® 3000 KIT – CORDED

- Detailed indoor and outdoor use
- Corded Multi-Tool
- From cutting to trimming to polishing
- Cool-running tool with low noise and vibration, even under high load
- Strong and fitted grip for high maneuverability and no fatigue
- 10,000-33,000rpm variable speed

### Included:

- Multi-Tool and 30 accessories
- Flexshaft attachment (225)
- Instruction manual
- Sanding / Grinding Guide (A576)
- Storage Case



Part No.	Description
DRM 3000-2/30	Dremel Kit

## DREMEL® 300 SERIES KIT

This kit comes with a clip on accessory set of 55 pcs and a flexible shaft for the more demanding user.



Part No.	Description
DRM 300-1/55	Dremel Kit



## NOTHING BUT HEAVY DUTY

Milwaukee® Tool is an industry-leading manufacturer of heavy-duty power tools, accessories and hand tools for professional users worldwide.

Since the company began in 1924, Milwaukee® Tool has led the industry in both durability and performance. With an unwavering commitment to the trades, Milwaukee® continues to lead with a focus on providing innovative, trade-specific solutions. Whether it is through their leadership in LITHIUM-ION technology, as seen in the M12™, M18™ & M28™ Systems, time-saving accessories or innovative hand tool products, Milwaukee® is dedicated to delivering a steady stream of advanced solutions for the trades that offer increased productivity and unmatched durability.

To do this, Milwaukee® takes the time to work side by side with real craftsman to understand the demands of a constantly changing workplace and how they can best deliver solutions that help the user work both faster and smarter. Milwaukee® knows that professional users sweat the small stuff, and so do they. They pay attention to the small details that that make a big difference. This user focus not only leads to solutions for real jobsite challenges, but fuels the disruptive innovation seen across all product lines.

## BY THE TRADE, FOR THE TRADE

Milwaukee® is dedicated to designing tools for professional users to maximise productivity while minimising downtime on the job site. From impact wrenches, hammer drills and circular saws to lighting, chargers and jobsite clean up, Milwaukee® Power Tools will help you get the job done. Many Milwaukee® power tools are NSN codified which simplifies the order process by the military.

Browse the range:



## M12 & M18 FUEL™ – ENGINEERED FOR THE MOST DEMANDING JOBS.

The FUEL™ 12 volt and 18 volt Cordless Power Tools are engineered for the most demanding tradesmen in the world. Delivering unrivaled performance in a compact structure, all FUEL™ products feature three Milwaukee®-exclusive innovations that deliver unmatched power, run-time and durability on the jobsite:

- The POWERSTATE™ Brushless Motor: Deliver more application speed, torque and durability in a smaller size. Additionally, they reduce noise and cool more rapidly to deliver years of maintenance-free performance.
- REDLITHIUM™ Battery Pack: Lasts longer, thinks faster and works harder than all other professional lithium-ion batteries. Built to withstand the harshest environments, delivering more work over the course of your day and over the life of the battery.
- REDLINK PLUS™ Intelligence Hardware and Software: Enables advanced communication between your batteries and tools, allowing for unmatched levels of performance, protection and productivity.



Power Packs



Drills



Impact & Fastening



Saws & Cutting



Soft Storage



Hard Storage



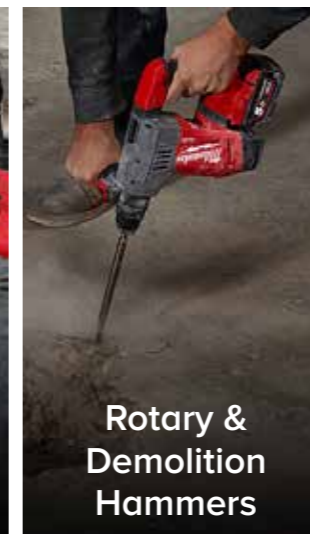
Packout™



Steel Storage



Grinders



Rotary & Demolition Hammers



Sanders & Polishers



Jobsite Cleanup



Marking



Instruments



Lasers



Batteries & Chargers



Lighting



Radios & Speakers



Outdoor Power Equipment



Electrical



# Vacuum Cleaners

## OMEGA SUPREME PLUS VACUUM CLEANER KIT – ESD SAFE

- Way quieter than any other Toner Service Vacuum at 69.6db
- Filter cartridges are compatible with the 3m vacuum
- Three year warranty!
- Kit contains: Vacuum, one standard filter cartridge, 1.5m ESD hose, power lead, crevice tool, crevice brush, goose neck and shoulder strap

Self Storage Compartment – all accessories store conveniently under the plastic cover insert

Standard Filter with 0.3 micron retention – ideal for soot, pollen, black toner and most colour toner

Shoulder strap – for portability!

Crevice Tool and Crevice Brush – to loosen dust and toner particles in tight areas

Flexible Goose-Neck – to get to those hard-to-reach places!

Toner-proof conductive 6' Hose – provides continual operation with no clogging

ESD Safe – conductive construction provides maximum static protection to safeguard the operator and sensitive electronic components



Part No.	Description
VACOMEGA220	Omega Supreme Plus Vacuum Kit
VACOMEGAS2ECRH	Omega CleanVac (Cleanroom)

## BACKPACK

Backpack for the Omega Supreme and Cleanroom Vacuums



Part No.	Description
AVAP-014	Backpack for Vacuums

## REPLACEMENT FILTER – OMEGA SUPREME

- Replacement filters for the Omega Supreme and Cleanroom Vacuums
- Fits the 3M and Katun Vacuums



Part No.	Description
31700C	Standard Filter (0.3 micron retention)
OF612HE-1P	Genuine HEPA Filter (0.3 micron retention)

## AVIATION CABIN 400HZ ELECTRIC BACKPACK VACUUM

Designed for aircraft application, - 110V 400Hz . The perfect solution for quick and effective aircraft cabin vacuuming, being a powerful, lightweight backpack vacuum.

### Features

- Quickly Converts from Vacuum to Blower
- Adapts to Left or Right Hand Operation
- 4 Stage High Efficiency Filtration
- Air Powered Turbo Floor Brush
- Comfortable Ergonomic Fit
- Telescopic Metal Wand
- Powerful and Quiet
- HEPA Filter
- Lightweight

### Specifications

- Voltage 110V
- Hz 400Hz
- CFM 76
- dBA 72



Part No.	Description	Fig
VACBP400	Cabin Vacuum Kit Complete	-
BPFILPACK	Exhaust & Pre-Motor Combopack	1
VACBP6-5P	Replacement Hepa Bags (Pack of 5)	2
BP200	Carrybag (optional extra)	3

## MINI-VAC ALUMINIUM

- The ultimate Mini-Vac of die cast aluminium
- Lock-on trigger
- 300mm Flexible hose



Part No.	Description
MV1560	Aluminium Mini Vacuum

## MINI-VAC PLASTIC

- The "original" Mini-Vac in plastic version - high quality
- Lock-on trigger
- 300mm Flexible hose



Part No.	Description
MV1561	Plastic Mini Vacuum

## MINI-VAC METAL

- Lock-on trigger
- 300mm Flexible hose



Part No.	Description
MV1562	Metal Mini Vacuum

For Clayton Vacuums and Dust Extraction

PAGE NO

## GRYPMAT NON-SLIP TOOL TRAY

- Grips on to whatever surface it is placed on without sliding or falling, while still allowing for easy placement and removal.
- Have your tools where you need them, when you need them.
- Prevents Tool loss / FOD
- Flame res
- Antistatic
- Non-mag



Part No.	Figure	Description	Size (in)
RFGM-CR03S	A	Grypmat Small	11.75 x 5.75 x 1
RFGM-CR02S	B	Grypmat Medium	11.75 x 8.25 x 1
RFGM-CR01S	C	Grypmat Large	22 x 12 x 1
RFGM-TP3		Set of 3	

## AIRCRAFT MATS

- Closed cell, nitrile rubber mats designed specifically for Aircraft Mechanics
- Designed specifically for Aircraft Mechanics!
- Will not compression set
- Built-in handle
- Hangs up, easy to store
- Full 1 inch thick
- Will not absorb liquids, including Skydrol
- Light-weight
- Insulative and non-conductive
- Protects sensitive surfaces and equipment
- Conforms to irregular surfaces
- Does not disintegrate and cause FOD
- Non-skid surface, keeps your tools in place
- Extremely durable



Part No.	Description	Size
4117	Aircraft Mat	1041 x 431mm
4135	Aircraft Mat	1041 x 890 mm

## MCNAUGHT AVIATION LUBE KIT

### Contents:

- 1 x KDN right angle needlepoint coupler
- 1 x KDR right angle coupler
- 1 x KDE8 rigid extension
- 1 x KDF21 533mm (21") push-on flexible extension
- 1 x KY SUPERGRIP coupler
- 1 x KZDXL straight needlepoint coupler
- 1 x KZHY hypodermic needlepoint coupler
- 1 x KZLNJ 300mm J needlepoint coupler
- 1 x KZLNS 300mm straight coupler
- 1 x KZLNR 300mm right angle needlepoint coupler
- 1 x KZLN45 300mm 45 degree needlepoint coupler
- 1 x KZSNR short right angle coupler
- 1 x J65 adaptor assembly



Part No.	Description
ACK2-02	McNaught Aviation Lube Kit

## MECHANIC KNEE PADS CAMO PRINT

Cushioning made of high density strengthened foam keeping your knees comfortable for extended periods of time. The fabric is extremely breathable and keeps your skin dry, great elasticity for your comfort.



Part No.	Description	Size
H95-999	Mechanic Knee Pads Camo Print	Unisize

## TRIFLOW OIL

Tri-Flow Lubricant is recommended in the Aircraft Industry for lubricating the Variable Stator Mechanism of the IAE V2500 turbofan engines. A superior, light viscosity lubricant that allows for deep penetration into hard to reach moving parts.

The drip bottle with its convenient straw reaches internal components and lubricates parts that are not directly accessible from the outside due to its exceptional penetration and lubricating performance. High-grade petroleum oils provide optimum lubrication under extreme temperatures (-60 to +475°F) and humidity. Formulated with P.T.F.E.



Part No.	Description	Size
TRI-2	Triflow Oil	59 ml

## BOELUBE® 90 LIQUID LUBRICANT

Non toxic, non polluting and non irritating liquid version of Boelube®



Part No.	Description	Size
BOE-90-4OZ	Boelube® Liquid Lubricant	4 oz

## BOELUBE® LUBRICANT PASTE

- Boelube® Paste is perfect for drilling, cutting and reaming applications, extending tool life.
- Suitable for use with metals, plastics and graphite



Part No.	Description	Size
70307	Boelube® Lubricant Paste	12 oz
BOE-001	Boelube® Lubricant Paste	16 oz

## BORE SAFE VALVE CORE REMOVAL TOOL

Safely deflate aircraft tires without turning the valve core into a missile



Part No.	Description
968RB	Bore Safe Valve Core Removal Tool
968RB-1	Bore Safe Valve Core Removal Tool Large

## GREASE GUN PISTOL GRIP

- Delivery pressure up to 68,900kPa (10,000psi)
- Flexible 300mm (12") high pressure extension hose



Part No.	Description
K29	Grease Gun Pistol Grip

## GREASE GUN SIDE LEVER

- Delivery pressure up to 82,750kPa (12,000psi)
- Rigid 150mm(6") high pressure extension hose



Part No.	Description
K45-01	Grease Gun Side Lever

## SMALL OILER BOTTLE

Convenient small refillable oiler bottle with extending 60mm brass stem and shut-off nozzle., ideal for confined areas.



Part No.	Description	Size
418-30	Oiler bottle (empty)	30 ml



## World Leader in Aerospace Fluid Fittings

Henchman is the exclusive Australian & New Zealand agent for Permaswage fittings and tooling. Permaswage is the technology leader in the fluid fitting industry providing proprietary and standard components, tooling, and training to all major aerospace companies globally.

## Permaswage System

Permaswage is a tube connecting system that mechanically attaches a Permaswage fitting to a tube by radial swaging. The system is used to make permanent connections between metal tubes.

It works by deforming the metal fitting onto a tube radially, 360° around the circumference using the Permaswage Lightweight Tool (DLT). The interference between the fitting and tube produces a leak resistant seal that is structurally sound. This system can be used to produce new tubing systems, or to repair existing ones. Because the system is portable, it can be used in the field as well as at the user's facility

## Permalite as System

Permalite/AS is a tube fitting that is mechanically attached to the tube by axial swaging. Permalite works by deforming the fitting into the tube being joined by moving a ring, a component of the Permalite fitting, axially along the fitting length using a Permaswage Axial swage Tool (DAT). The Permalite system is used on the A380 and Boeing 787



## 180° TRIPLE HEAD TUBE BENDER

- Cushion grip handles for comfort
- Makes tight-radius 180o bends with ease
- Graduated markings for accurate L/H or R/H and offset bends



Part No.	Description	Suits Tube Sizes
370-FH	Tube Bender	3/16", 1/4", 3/8"

## 180° TRIPLE HEAD TUBE BENDER – HEAVY DUTY

- Cushion grip handles for comfort
- Makes tight-radius 180o bends with ease
- Quick action indexing lever reposition of two-stage handles midway through a bend when both handles meet.
- Graduated markings for accurate L/H or R/H and offset bends



Part No.	Description	Suits Tube Sizes
470-FH	Tube Bender Heavy Duty	3/16", 1/4", 5/16", 3/8"

## PROTO® RATCHET-STYLE TUBING CUTTER

- High-impact fiberglass handle is lightweight and durable.
- Cuts copper, plastic, and PVC pipe from 1/8" to 3/8" (3.2 mm to 9.5 mm).
- Easily adjusts to fit pipe.



Part No.	Capacity (in)	OAL (in)	Weight (lbs)
JFF375	3/8	6	0.27

## LEVER TYPE TRIPLE HEAD TUBE BENDERS

- Suitable for copper, aluminium, brass, steel and stainless
- Does the work of three conventional type tube benders
- Graduated markings for accurate L/H or R/H and offset bends



Part No.	Description	Suits Tube Sizes
367-FH	Lever Tube Benders	1/8", 3/16", 1/4"
368-FH	Lever Tube Benders	1/4", 5/16", 3/8"

## 37° FLARING TOOL

- Suitable for copper, aluminium and brass
- Slip on yoke for use in tight areas



Part No.	Description	Suits Tube Sizes
507-FB	Flaring Tool	3/16", 1/4", 5/16", 3/8", 1/2", 5/8"

## PROTO® TUBING CUTTER

- Cuts metal tubing from 1/8" through 1-1/8" O.D. quickly and cleanly.
- Features heat-treated alloy steel cutting blade, special rollers, and heavy-duty screw mounted in durable steel frame.
- Large screw-knob and retractable tubing reamer.



Part No.	Description	Weight (lbs)
J350	Tubing Cutter	0.82



# Latchways

## The WinGrip Anchor System

The WinGrip All in One Anchor System is for use by personnel working on aircraft during manufacture or routine maintenance operations, providing both fall arrest and fall restraint capabilities. This product has been developed to greatly increase the efficiency of workers during short duration work, primarily used for light maintenance whether inside the hanger or out on the apron and in varying weather conditions. The WinGrip AIO System is an easily installed and highly portable single-user system that provides a fall protection anchor point for a single worker on wings, fuselage or stabilizers

Please contact us for Pricing and a Demonstration!

## Specifications

The WinGrip AIO vacuum pad is powered by compressed air or nitrogen, without the need for batteries, electrical cables or large equipment. Being completely non-electrical and with no metal on metal moving contact, the system is inherently safe with fuel tanks open. If the air/nitrogen supply should fail, an audible alarm sounds and the WinGrip AIO vacuum pad will maintain a safe working vacuum for at least 20 minutes. The WinGrip AIO is suitable for wet or dry surfaces and can be used inside hangars or outside. Installation and removal are safe and straightforward for a single worker to carry out, and is suitable for use in all temperatures from freezing Arctic conditions through to high desert temperatures.

## Technical Data

- For use as a single point anchor for 1 user
- Air supply pressure 80 to 125 PSI
- Temperature ranges: -30°C to 60°C.
- Aircraft skin temperature: -40°C to +100°C
- 120 Decibel non electrical warning alarm with two alarm functions to indicate air pressure loss/vacuum pressure leak.
- Provides 20 minutes of safety in the event of an air pressure loss.
- Vacuum leak test button ensures the vacuum anchor is placed on a non-porous/non-leaking surface.
- Independent visual indicators to show correct air pressure/vacuum pressure.
- Fitted with a double action vacuum safety release switch to prevent un-intentional deactivation.



Please contact us for our range of Proto Tethered Tools.



## WINGRIP SINGLE USER SYSTEM

The Wingrip vacuum anchor has provided a single fall protection anchor point for one worker on wings, fuselage or stabilisers. Quickly and easily installed, the highly portable single-user system is particularly suited to line maintenance and other short-term, temporary work. The anchor is positioned and vacuum locked in place, then used by a worker wearing a full body harness with a safety lanyard and work positioning rope, connected to the vacuum anchor. The adjustable work positioning rope provides a safe working radius of 3 m and is particularly helpful to locate the worker for comfortable hands-free working.

Two vacuum anchors can be used to triangulate and fix the worker's position.



Part No.	Description
TBA	Wingrip Single User System

## WINGRIP BARRIER SYSTEM

The Wingrip barrier system was developed to provide a collective solution to working at height on aircraft during manufacture and maintenance. The system can be installed by one operative in complete safety and once set up will provide an enclosed safe working environment for an unlimited number of workers for any duration of time. The Wingrip barrier system provides the ultimate in work at height safety by eliminating all fall risks. Workers require only basic training to work within the system without the need to use harnesses and lanyards. The system consists of upright stanchions connected at the base to a Wingrip vacuum pad. The interface of the stanchion is fully adjustable and ensures a perfect installation can be achieved on any undulating surface. Horizontal rails are adjustable in length and angle which allows any shape of system to be installed and adjustment of the layout at any time. Systems can be supplied to enclose any size area from 1 m2 to the entire upper surface of an aircraft.



Part No.	Description
TBA	Wingrip Barrier System

## WINGRIP LIFELINE SYSTEM

The Wingrip horizontal lifeline system was introduced to allow for safe, hands-free access for up to four workers along the entire length of a wing or fuselage and is used ideally for heavier maintenance or longer operations. The system consists of two end-anchor vacuum pads with cables spanning between them and intermediate anchors as needed to suit System benefits. Each anchor is positioned and vacuum locked in place, then the stainless steel safety cables connected and tensioned at one end. Workers connect to the cable using the unique Latchways' shuttle. Up to four workers can use the system, wearing full body harnesses and work positioning ropes. This system allows hands-free movement along the whole cable length, with shuttles gliding over intermediate anchors.

- Available in any length to suit any wing
- Ideal for heavy maintenance / longer access requirements
- Up to 4 users per system
- Fall arrest rated
- Safe method of installation and strip down
- Provides full access to any wing without needing to disconnect
- Hands-free operation
- Engineered system
- The Wingrip range



Part No.	Description
TBA	Wingrip Lifeline System

Note: Part Number dependant on aircraft type