



**SAASA**  
EQUIPMENT L.L.C.



[www.saasalld.com](http://www.saasalld.com)

Est:1975





# Introduction

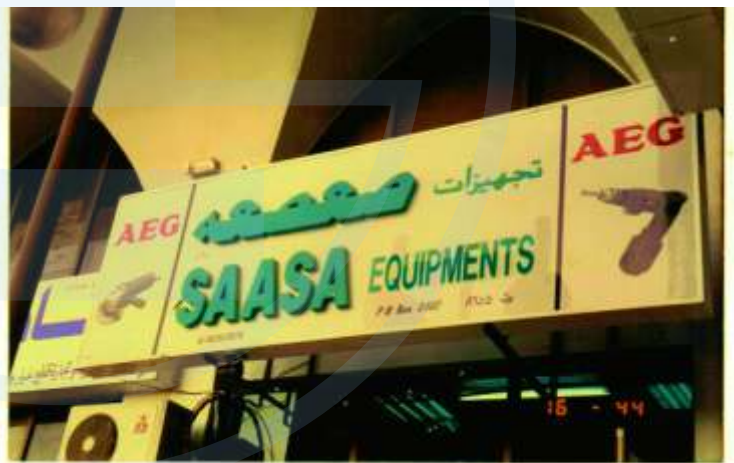
Founded in 1975, a B2B solutions provider of products to build, maintain, repair or operate a facility. At SAASA EQUIPMENT LLC., we believe in going beyond just "selling" a product, but ensuring that we offer you an end-to-end solution. Ours is a holistic approach, from evaluating customer needs through to on-site deployment, we partner with you ensuring that you "get the job done".

SAASA EQUIPMENT LLC. is equipped with dedicated sales staff, stock, a fleet of delivery vehicles and an established supply chain, we are well positioned to meet your industrial supply requirements throughout UAE & beyond

We offer a range of high quality innovative brands that represent the best in each of our product categories. Most of these brands have a strong legacy of innovation some of which continues for over a 100 years. These brands are leaders in their respective product category and help our customers tirelessly get the job done.

Businesses and institutions depend on us every day as a source of tools, abrasives, material handling, safety and other equipment. The breadth and availability of product line is a key factor that differentiates us from other industrial vendors. We carry more than 8,000 products in 9 different product categories in stock to provide customers with products.

Our strength lies in consolidation. Our broad product line and wide networks enable us to meet customer requirements in totality. For products not in our product portfolio, we source and ship based on customer's requirements. We have thus





# Exclusive Dealership

CATEGORY	BRAND
Hammers & Axe	
Plastic Tool Storage	
Industrial Quality Tools	
Professional Pliers	
Torque Wrenches	
Cutters & Snips	
Hand Tools	
Circular Saw Blades & Band Saw Blades	
Laser Distance Meter	
Ladder	
Gorilla Storage Racks	
Other Storage Racks	
Holesaws	
Hand Tools	
Home Hardware	
Alarmed Security Products	
Kitchen & Bathroom Accessories	





# Stockiest of Brands





# Stockiest of Brands







# Product List

## MECHANICAL / INDUSTRIAL / OIL FIELD TOOLS

BRAND NAME	ORIGIN	DESCRIPTION
FOOTPRINT	U.K.	HAND TOOLS STRIKING /CUTTING/MEASURING/CARPENTRY ETC.
NWS	GERMANY	HAND TOOLS (COMPLETE RANGE OF PLIERS FOR MECHANICAL & ELECTRICAL UPTO 1000V IN USE)
ARNDT	GERMANY	ALLEN KEYS ETC.
PADRE	GERMANY	HAND TOOLS (SPANNERS, SOCKETS, SCREWDRIVERS & STRIKING TOOLS ETC.
NEXUS	GERMANY	BEARING PULLERS & SEPARATORS (ALL TYPE OF MECHANICAL PULLERS)
MAUN	U.K.	WAD PUNCH & HAND TOOLS
BRANO	CZECH	MECHANICAL JACKS 2.5 TON TO 20 TON
COPELY	U.K.	INDUSTRIAL & DOMESTIC HOSE (CLEAR, REINFORCED, FIRE HOSE AIR HOSE & NYLON TUBING)
HALLBAUER	GERMANY	HAND GREASE GUNS
LESSMANN	GERMANY	INDUSTRIAL WIRE BRUSHES IN VARIOUS SHAPES
MOLYSLIP	U.K.	COPASLIP ANTI-SEIZE COMPOUND, SPRAY ETC.
MOLYKOTE	U.K.	LUBRICANTS
FIXOLID	FRANCE	INDUSTRIAL MARKERS ( INDELIBLE)
SUPERTIL	JAPAN	WIREROPE WINCHES
HALLITE	U.K.	HYDRAULIC SEALS
FELDER	GERMANY	SOLDERING / BRAZING PRODUCT (GRINDING PASTE, FLEX FOR SILVER SOLDER, ALUMINIUM WELDING POWDER, SOLDERING PASTE & LIQUID)
FELDHOF	GERMANY	ELECTRICAL SOLDERING IRON
REXNORD	GERMANY	ROLLER CHAINS AND SPROCKETS
SPRING MASTER	U.K.	ASSORTED SPRING BOXES
TONWEIGHT	TAIWAN	KING NIPPLES, 2B, 4B CLAMPS, COUPLING ETC.
DREUMEX	HOLLAND	HAND CLEANER
ROHM	GERMANY	CHUCKS, SLEEVES, REVOLVING CENTRE FOR VARIOUS POWERS DRILLS & MILLING MACHINES ETC.
DJTA	GERMANY	VICE GRIP PLIERS, CLAMPS, PISTON RING COMPRESSOR, VALVE LIFTER ETC.
DEUMO MP	GERMANY	TACHOMETERS (MANUAL & ELECTRONIC)
ARCA	TAIWAN	IMPACT SOCKETS, HAND TOOLS, SPANNERS, PLIERS ETC.
GARISURE	TAIWAN	BRASS, FIBRE WASHER KIT, O RING, GREASE NIPPLE KIT ETC.

## HARDWARE & BUILDING MATERIALS

BRAND NAME	ORIGIN	DESCRIPTION
ARTIN	HOLLAND	EMERY ROLLS/SANDING DISC, ENDLESS BELT, SANDING BELT ETC.
ABRASIL	FRANCE	EMERY ROLLS
GELVA (FLEXOVIT)	BRAZIL	WATERPROOF PAPER IN ALL GRITS
ACORN	U.K.	PAINT BRUSHES / ROLLERS
THOR	U.K.	HAMMERS-BRASS, COPPER, STEEL, NYLON, WOODEN, LEAD RAWHIDE & OTHER
BLICKLE	GERMANY	CASTER WHEELS LIGHT AND HEAVY DUTY
SKK	JAPAN	CASTER WHEELS & MEASURING TAPE
	JAPAN	STAINLESS STEEL SCRAPERS
	JAPAN	TROWELS



# Product List

BRAND NAME	ORIGIN	DESCRIPTION
EAGLE	JAPAN	BRASS SOFT WIRE BRUSHES
BENTLEY	U.K.	BROOM BRUSHES & STICKS
ORIENTAL	CHINA	ROTARY PUMPS
BRITON	CHINA	PAINT BRUSHES / ROLLERS
	CHINA	ANGLE BRUSHES & ROLLERS
	TAIWAN	DUST MASK
	CHINA	STAINLESS STEEL MESH
CENTAURE	FRANCE	LADDERS - DOMESTIC, EXTENSION, SCAFFOLDING
KWIKKIE	HOLLAND	DOMESTIC STEP LADDERS
AULEKTRO	GERMANY	WELDING GLASSES (BLACK & CLEAR)
ODUR FIT	GERMANY	SHAER 'FIT' PLIER
DJTA	GERMANY	HAMMER HANDLE, FILE HANDLE ETC.
RONTGEN	GERMANY	BAND SAW BLADES FOR WOOD
ELEPHANT	JAPAN	HAND SHOVEL
PLASTIRE	SPAIN	GAS HOSES 50 METERS
ORBIT	THAILAND	GALVANIZED & STAINLESS STEEL HOSE CLIPS
HJZ	HOLLAND	STEEL/CONCRETE NAILS-"ORIGINAL"
JUCO	POLLAND	SLEDGE, MACHINIST, CLAW HAMMER, CHISEL, CROW BAR ETC.
	CHINA	STAINLESS STEEL WIRE, GS WIRE ROPE FIBRE CORE IN DIFFERENT SIZE
SMIPO	TAIWAN	SCREWDRIVER SETS MECHANICAL, ELECTRICAL & PRECISION

## PRECISION TOOLS

BITHERMA	GERMANY	THERMOMETERS
BOWERS METROLOGY	U.K.	MEASURING TOOLS (SPECIALLY BORE GAUGES)
MOORE & WRIGHT	U.K.	ENGINEERING PRECISION TOOLS (VERNIER CALIPER, MICROMETERS, DEPTH GAUGES, WIRE GAUGES, SCREW GAUGES ETC.
PRESSOL	GERMANY	LIQUID DISPENSING /MEASURING CANS, PVC & METAL FUNNELS, OILERS, GREASE GUN, HOSES ETC.
EMPEO	GERMANY	PRESSURE GAUGE (LIQUID & DRY, NPT & BSP THREAD) & OTHERS
TIME GROUP	CHINA	MEASURING TOOLS (HARDNESS TESTERS ETC)
JB TREASURE	U.K.	GLASS & PERSPEX GAUGE TUBES UPTO 100MM DIA
E.K.	JAPAN	STAINLESS STEEL SCALES
CPI	CHINA	PRECISION TOOLS (VERNIER CALIPER, INTERNAL & EXTERNAL CALIPERS, DEPTH GAUGE & MICROMETER)
BANDMAB (STEWIE)	GERMANY	STEEL, FIBRE, LINEN & SOUNDING MEASURING TAPES.

## CUTTING / MILLING / DRILLING TOOLS

DORMER	U.K.	HSS DRILL BITS/TAPS/DIES/END MILL CUTTERS/REAMERS ETC.
		HSS CIRCULAR SAW BLADE FOR METAL CUTTING
BROOKETHREADING	U.K.	MILLS & SIDE FACE CUTTERS
WARRIOR	U.K.	TAPS & DIES SETS CARBON STEEL
PEDO	GERMANY	TAPS & DIES SETS HIGH SPEED STEEL
G & J HALL	U.K.	HSS STEP DRILL, HSS HOLES AW & TUNGSTEN CARBIDE TIPPED HOLES AW.
GARRYSON	U.K.	CARBIDE BURRS, MOUNTING STONES, FLAP WHEELS & FLAP DISCS ETC.
MORRISFLEX	U.K.	HSS BURRS
ECLIPSE	U.K.	HACKSAW FRAMES & HSS HACKSAW BLADES, HOLES A WS, RIVET GUNS
		LATHE TOOLS & BITS, MAGNETS IN VARIOUS SHAPES
SKC	JAPAN	TAPS & DIES - CARBON STEEL





# Product List

BRAND NAME	ORIGIN	DESCRIPTION
KOCH	GERMANY	MASONRY, WOODEN DRILL BITS & HSS DRILL BITS
QMAX	U.K	KNOCKOUT PUNCHES (SHEET METAL PUNCHES)
TIREM	GERMANY	CHISELS & PUNCHES FOR CONCRETE & STEEL
	JAPAN	GLASS CUTTERS, OIL GLASS CUTTER & HOLESAWS
ARMEG	U.K.	MASONRY & SDS DRILL BITS, ROUND & SQUARE CONCRETE HOLE CUTTER, CONDUIT DIE & TAP SETS
SAEMAWERK	GERMANY	CIRCULARE SAW BLADE FOR WOOD & ALUMINIUM (SOUNDLESS QUALITY)
DSK	JAPAN	MARBLE / GRANITE / CERAMIC / CONCRETE CUTTING SAW BLADES
TOPAZ	THAILAND	CUTTING & GRINDING DISCS
WIND SPEED	THAIWAN	TCT HOLE SAWS FOR STAINLESS STEEL, STEEL ETC.
		CUTTING DEPTH UPTO 50MM
POWERBOR	U.K.	MAGNETIC DRILL MACHINES
STELLRM	USA	MILLING, DRILLING, TURNING, GROOVING CARBIDE TIPS

## FASTENERS

AUTOGEM	U.K.	WORKSHOP ASSORTED FASTENERS
PIMSEAL	U.K.	ASSORTED 'O' RINGS (COMPLETE RANGE OF NITRILE & VITON O RINGS)
ANCHOR	TAIWAN	STAINLESS STEEL & YELLOW ANCHOR, UNIFIX, DROP IN ANCHOR
GARISURE	TAIWAN	WORKSHOP ASSORTED FASTENERS: O RING, WASHER, SEALS ETC.
ANDERTON	U.K.	CIRCLIPS (INTERNAL & EXTERNAL), SPRING PIN-COMPLETE RANGE
EXPANDET	DENMARK	NYLON WALL ANCHORS & PLUGS
PTFE (TEFLON)	U.K.	ROUND BARS & SHEETS ETC.
	GERMANY	NYLON ROUND BARS & SHEETS ETC.
	CHINA	NYLON ROUND BARS & SHEETS, BOLTS & NUTS (CHINA, IRAN & HOLLAND)
	JAPAN	JOINT NAILS (CORRUGATED NAILS)
	TAIWAN	ANCHORS & BOLT, BOLT, NUT, MACHINE SCREW, BRASS WOOD SCREW
		COACH SCREW, GRUB SCREW, ALLEN BOLT, GYPSUM SCREW, SELF DRILLING & SELF TAPPING SCREW ETC.

## SAFETY & LIFTING EQUIPMENTS

CLIMAX	SPAIN	WORKER'S SAFETY PRODUCTS (SAFETY HELMET, WELDING HELMET WELDING SHIELD, MASK, FILTER, HARNESS, GOGGLES ETC.)
VITAL	JAPAN	CHAIN BLOCK/LEVER HOIST /TROLLY
VITAL-INTL	CHINA	CHAIN BLOCK/LEVER HOIST / WIRE ROPE WINCH
ARTIN	HOLLAND	NYLON SLINGS & CARGO LASHING
DENKASHEIKO	CHINA	SAFETY BELTS & SAFETY HARNESS ETC.
	CHINA	REFLECTIVE JACKETS, SLINGS & CARGO LASHING
CLIMATE	CHINA	SAFETY SHOES
	CHINA	WORKING GLOVES, WELDING GLOVES
DOUBLE PANDA	CHINA	RUBBER GLOVES, CHEMICAL GLOVES, ETC.
	CHINA	D' SHACKLE, WIRE ROPE CLIP, TURN BUCKLE ETC.

## AUTO INDUSTRIES

PCL	U.K.	AIR, TYRE INF TOOLS AND ACCESSORIES/INDUSTRIAL & AIR FTG. IN NPT & BSP THREAD
CHEMICO	U.K.	GRINDING PASTE
G O HOLLAND	HOLLAND	GRINDING & LAPPING PASTES
CANADA HW	CANADA	STAINLESS STEEL, STEEL, BRASS, COPPER SHIMS, KEY STOCKS ETC.
DELTAFLX	U.K.	HIGH TEMPERATURE ASBESTOS FREE GASKET SHEETS
CRANEFLEX	U.K.	OIL JOINTING SHEETS
A39	GERMAN	CORK SHEETS (1MM TO 8MM)
	CHINA	CORK SHEETS (1MM TO 12MM)





# Products

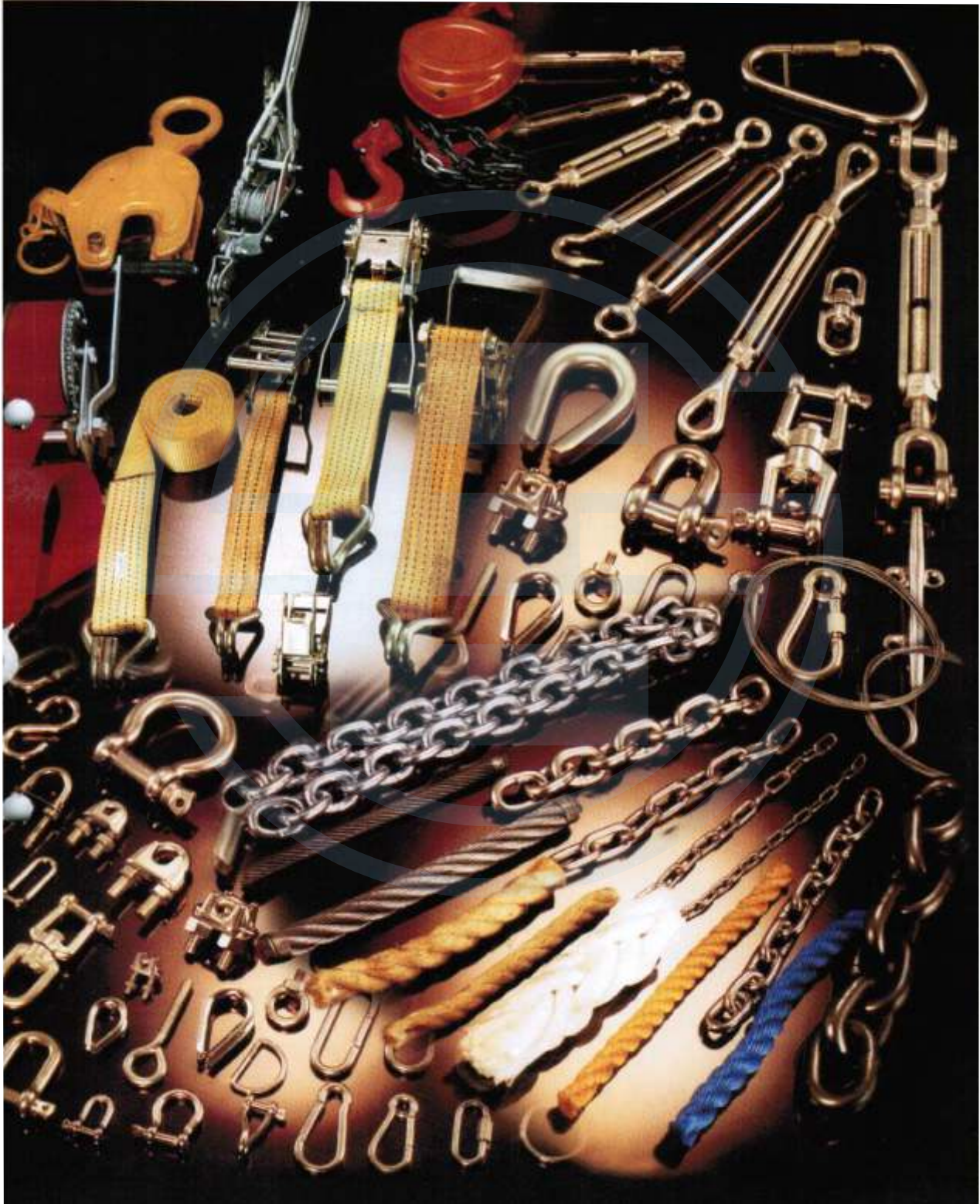








# Products





# Electrical

**Jeddah cables COMPANY™**

Jeddah Saudi manufactures armoured cables, LV, MV & HV cables, flexible cables & PVC insulated wires.

- ARMOURED CABLES
- PVC INSULATED WIRES
- FLEXIBLE CABLES
- HV & MV CABLES
- CONTROL CABLES

Decoduct PVC conduits & fittings, warning tapes, trunkings, metal cable trays & trunkings of U.A.E make.

**DECODUCT®**

- PVC PIPES & FITTINGS
- METAL CABLE TRAYS & TRUNKING
- PVC TRUNKING & ACCESSORIES
- PVC WARNING TAPES

**Thomas & Betts**

Thomas & Betts ss pvc cable ties, flexible conduits, cable terminations, cable insulations, explosion proof light fixtures & cable trays & trunkings from U.S.A

- SS PVC CABLE TIES
- CABLE TRAYS & TRUNKING
- FLEXIBLE CONDUITS & FITTINGS
- CABLE TERMINATIONS
- CABLE INSULATIONS
- CABLE MARKING SYSTEMS
- EMT CONDUIT FITTINGS
- EXPLOSION PROOF LIGHT FIXTURES

**ATEX**





# Electrical

**Superstrut**

Superstrut products like channels, metal framing & fittings, pipe straps & Beam clamps from U.S.A

- CHANNELS
- METAL FRAMING & FITTINGS
- PIPES & STRAPS & BEAM CLAMPS



Explosion proof light fixtures, push buttons, cable glands & junction boxes from DTS



- EXPLOSION PROOF LIGHT FIXTURES
- EXPLOSION PROOF PUSH BUTTONS
- EXPLOSION PROOF CABLE GLANDS
- EXPLOSION PROOF JUNCTION BOXES

**Nissad**

Nissad isolators, industrial plugs & sockets, cable termination & power tools from Germany

- ISOLATORS
- CABLE TERMINATION
- INDUSTRIAL PLUG & SOCKETS
- POWER TOOLS






# Electrical

**HAVELLS**

Havells India - LV switchgear components, change over switch & DOL starter, panel wires, wiring accessories & ceiling fans

- LV SWITCHGEAR COMPONENTS
- CHANGE OVER SWITCH & DOL STARTER
- PANEL WIRES
- WIRING ACCESSORIES
- CEILING FANS



LV switchgear components, enclosures, PVC conduits & fittings, wiring accessories & telephone and data cables of Schneider Electric make France

**Schneider Electric**

- LV SWITCHGEAR COMPONENTS
- ENCLOSURES
- PVC CONDUITS & FITTINGS
- WIRING ACCESSORIES
- TELEPHONE & DATA CABLE



**GEWISS**

Gewiss industrial plugs & sockets, PG glands, junction boxes, flexible conduits, isolators, & lighting fixtures from Italy.

- INDUSTRIAL PLUG & SOCKETS
- PG GLANDS
- PVC & METAL JUNCTION BOXES
- FLEXIBLE CONDUITS
- ISOLATORS
- WIRING ACCESSORIES
- LIGHTING FIXTURES







# Electrical

**Litex**

Litex fulfill all your lighting needs in outdoor, indoor and industrial purposes.

- SPORT LIGHTS
- WALL LAMPS
- CEILING LIGHTS
- INGROUND LIGHTS
- BOLLARDS
- TABLE/FLOOR LAMPS
- TRACK LIGHTS
- METAL HALIDE LAMPS

Elcoflex flexible cables.

**ELCOFLEX**

- FLEXIBLE CABLES

**MAXWELL**

Maxwell cable markers & cable lugs.

- MARKERS
- LUGS



# Electrical

## Lemax

Lemax products like cable glands & lugs, earthing protection materials, conduits, cables & wires.

- CABLE GLANDS
- CABLE LUGS
- EARTHING & LIGHTING PROTECTION
- FLEXIBLE CABLES
- PANEL WIRES
- FLEXIBLE CONDUITS & FITTINGS



Secure cable ties, insulated terminal lugs, heat shrinkable sleeve, pvc wire connectors & terminal blocks.

## SECURE

- PVC CABLE TIES
- INSULATED TERMINAL LUGS
- HEAT SHRINK SLEEVE
- PVC CABLE GLAND & PG GLAND
- SS PVC CABLE TIES
- PVC WIRE CONNECTORS & CLIPS
- TERMINAL BLOCKS



## STECKER

Stecker Industrial plug & sockets and pvc & metal junction boxes.

- INDUSTRIAL PLUG & SOCKET
- PVC & METAL JUNCTION BOXES







# Packaging Materials & Accessories

Importer, Exporter, Wholesaler & Retailer of :

- Masking Tapes • Packing Tapes • Colour Tapes • Alu. Foil Tapes • Duct Tapes • Warning Tapes • Caution Tapes
- PVC & Metal Strap • Metal Clips & Buckles • Packing Tools for PP & Metal Strap • Hardware Tools
- Building Materials .....

## PRODUCT LIST

1. Double side Cloth Tape (Carpet Tape). Size : 50 mm.
2. Double side Tape "Film / Tissue". Sizes : 9, 12, 18, 24, 36 & 48 mm.
3. Double side Foam Tape "White & Black". Sizes : 12, 18, 24, 36 & 48 mm.
4. Single side Foam Tape. Sizes : 12, 18, 24, 36 & 48 mm.
5. Masking Tape Paper, Automotive Grade, U.S.A. Origin. Sizes : 1", 1.5" & 2".
6. Masking Tape Paper, General Purpose, U.S.A. Origin.  
Sizes: Width - 0.5", 1", 1.5", 2", 3" & 4".  
Length - 8, 10, 25, 30, 40, 45 & 50 yd.  
Brands : Duro, Euro, Conic, Promask, Dukes, Asmaco, Shur, Meco, ABRO.
7. Craft Paper Tape with Adhesive, Brown Colour 2".
8. Packing Tape OPP, Clear, Brown & Colour Tapes.  
Sizes : Width - 12, 18, 24, 48, 60 & 72 mm.  
Length - 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 & 1000 yd.  
Brands : Super Power 52, Power, Picasso, Conic, Rainbow, Shur, Meco, Euro, Taipack, Dukes, Johnson, Nova, Unipack, Asmaco & Dura.
9. Printed Tape One / Two Colour Printing.
10. Filament Tape (Strapping Tape Fibre Glass). Sizes : 1" & 2".
11. Fiber Glass Joint Tape "Self Adhesive". Sizes : 48 mm x 45 mtr. & 90 mtr.
12. Special Offer Promotion Tape. Sizes : 18, 24, 48 mm width.
13. Carry Handle Special Offer Tape. Sizes : 25 mm x 285 mm.
14. Teflon Heat Resistance Tape. Sizes : ½", 1", 2" & 1 mtr.





# Packaging Materials & Accessories

15. **Aluminium Foil Tape : Normal, FSK (Threaded)™ & FGC (Cloth).**  
 Sizes : 2", 3", 4"  
 Brands : Super Power 52, Power, Dura, Dukes, Shur, Cyklop.

16. **Duct Tape.**  
 Colour : Grey, Red, Yellow, Blue, White & Black.  
 Sizes : Width - 2", 3" & 4".  
 Brands : Super Power 52, Power, Diamond, Liberty, Dukes, Shur, Asmaco & ABRO.

17. **Aluminum Protection Tape.**  
 Colour : Black, Black & White, Clear.  
 Sizes : 1250 mm x 90 yds. 100 yds.

18. **PVC Pipe Wrapping Tape (Black & White)**  
 Sizes : 2" x 70' & 100'.  
 Brands : Melagrano, Flying Wheel, Duro.

19. **Grease Tape (Tenso).** Sizes : 2", 3", 4" & 6".

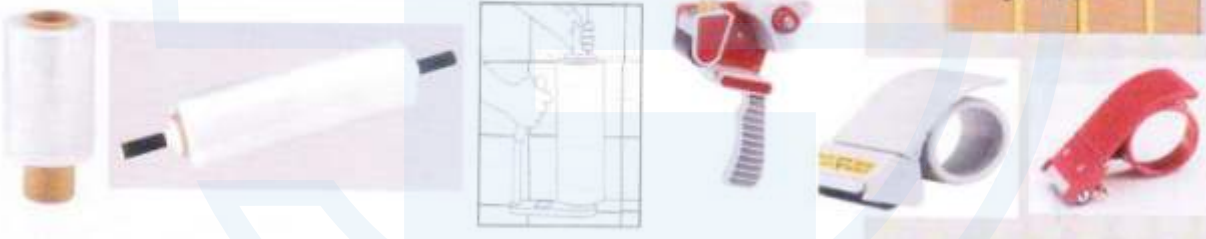
20. **Vegetable Neck Bag Sealer Machine.**

21. **Vegetable Neck Bag Sealer Tape.** Sizes : 9 mm x 60 mtr.

22. **Plastic Corners (Carton Edge Protectors).** Sizes : 19 mm & 32 mm.

23. **Tape Dispenser w/o & with handle "L.D. & H.D".**

24. **Pallet Stretch Film, Clear & Black.** Sizes : 4" & 20".



25. **Pallet Stretch Film Dispenser.**



26. **Strap Dispensers for PVC, Cord & Metal.**







# Packaging Materials & Accessories

27. Packing Straps : PVC, PET, Cord & Metal Straps.  
Size : Width - 1/2", 5/8" & 3/4".  
Colour : Yellow, Red, Blue, Black, Purple, Orange.



28. Strap Packing Clip & Buckles. Sizes : 1/2", 5/8" & 3/4".



29. Sealer for PVC Straps Seals. Sizes : 1/2", 5/8" & 3/4".



30. PVC Strap Packing M/c., L.D. & H.D. Sizes : 1/2", 3/4", 1.1/2" & 2" Strap.



31. Metal Strap Tensioners Packing M/c. Sizes : 5/8" - 3/4", 1.1/4".





# Packaging Materials & Accessories

32. Metal Straps Seal Sealers. Sizes : 1/2", 5/8" - 3/4", 1" & 1.1/4".



33. Steel Strapping Cutter. Sizes : 1/2", 5/8" - 3/4", 1" & 1.1/4".



34. Stainless Steel Banding Tools.



35. Warning Tape "GAMMA",

Red - White, Yellow - Black, Red - Yellow, Blue - White.

Red / White with "CAUTION" - انتبه

Sizes : 3" x 200, 400 & 500 meter.

Brands : Gamma, Safe Guard, Concord, Scot & Warning.



36. Flaging Tape. Sizes : 2", 3", .....



37. Caution Tape Size : 3" x 250 mtr.

- |           |                  |               |               |
|-----------|------------------|---------------|---------------|
| • DANGER  | خطر ممنوع الدخول | DO NOT ENTER- | Red / Yellow. |
| • DANGER  | خطر              | DANGER        | Yellow.       |
| • CAUTION | تحذير            | CAUTION       | Yellow / Red  |
| • CAUTION |                  | MEN WORKING   | Yellow.       |



38. Caution Tape Size : 6" x 360 mtr. x 100 micron.

- |                                     |              |
|-------------------------------------|--------------|
| • CAUTION - ELECTRICAL CABLE BELOW  | Red / Yellow |
| • CAUTION - TELEPHONE CABLE BELOW   | D. Green.    |
| • CAUTION - IRRIGATION LINE BELOW   | Green.       |
| • CAUTION - STROM LINE BELOW        | Green.       |
| • CAUTION - MAIN WATER LINE BELOW   | Blue.        |
| • CAUTION - BURIED SEWER LINE BELOW | L. Green.    |



39. Super Glue Tubes - Brand : Fevicol, Bossil, American Dolphin, Asmaco.

40. Contact Adhesive - Tin & Tube. Brand : Fevicol, Tuffix, Bossil & Bond Kit.

41. Epoxy Adhesive - Rapid Steel, 5 minute & 90 minutes.

Brand : Araldite, Fevicol, Bossil & American Dolphin, Asmaco.

42. Wood Glue Fevicol - Available in : 125, 250, 500 & 850 gms. & also in 1, 5 & 50 kg.

43. Foam Spray - 330 gms. & 750 ml.

44. Rust Remover.

45. Spray Paint - American Dolphin, Vira, Asmaco.

46. Chipping Hammer Wooden Handle.

47. Claw Hammer Fibre & Wooden Handle 16 oz & 8 oz.

48. Mechanist Hammer Fibre Handle & Wooden handle.

49. Hose Pipe Reinforce - 1/2" x 50, 3/4" x 25, 3/4" x 50, 1" x 25, 1" x 50.

50. Paint Roller, Radiator 4". Brand : Hunter

51. Bubbles Sheet Roll.

52. Corrugated Sheet Roll.







# Fasteners



**Hex Head Bolt (Full Thread)**

DIN 933



**Hex Head Bolt (Partial Thread)**

DIN 931



**T Bolt**

DIN 186



**Drop-in Anchor / Unifix**



**Anchor Bolt / Wedge Anchor**



**Sleeve Anchor**



**Heavy Duty Shield Anchor**



**U Bolt**



**CSK Allen**

DIN 7991 / DIN 7991 TX (Torx)



**Slotted Cheese Head Machine Screw**

DIN 84



**Pan Head Machine Screw**

DIN 7985 PH / DIN 7985 PZ  
DIN 7985 TX (Torx)



**CSK Machine Screw**

DIN 965 PH / DIN 965 PZ  
DIN 965 TX (Torx)



**Eye Screw**

Art.-Nr. 9079



**Cap Hook Screw**

Art.-Nr. 9080



**Hex Thin Nut / Check Nut**

DIN 439 / DIN 936



**Hex Nut**

DIN 934



**Lock Nut**

DIN 982 (High Type)  
DIN 985 (Low Type)



**Long Link Chain**

DIN 763



**Short Link Chain**

DIN 766



**Blind Rivet**

Art.-Nr. 9052



**Insert Press Nut**

Art.-Nr. 9064



**Hex Weld Nut**

DIN 929



**Sealing / Neoprene Washer**

Art.-Nr. 9055



**Spring Washer, Heavy Duty**

DIN 128

\* M.S, G.I. & S.S. Fasteners ( 6 MM to 48 MM ) \* Bolt, Nut, Washer, Spring Washer



# Fasteners



**Slotted CSK Wood Screw**

DIN 97



**Slotted Pan Head Wood Screw**

DIN 96



**Slotted Oval Head Wood Screw**

DIN 95



**CSK Wood Screw**

DIN 7997



**Pan Head Wood Screw**

DIN 7996



**Oval Head Wood Screw**

DIN 7995



**CSK Chipboard Screw**

Art.-Nr. 9050 PZ  
Art.-Nr. 9047 TX (Torx)



**Pan Head Chipboard Screw**

Art.-Nr. 9048 PZ  
Art.-Nr. 9045 TX (Torx)



**Oval Head Chipboard Screw**

Art.-Nr. 9049 PZ  
Art.-Nr. 9046 TX (Torx)



**Hex Head Self Tapping Screw**

DIN 7976



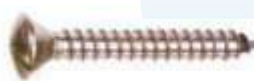
**Slotted CSK Self Tapping Screw**

DIN 7972



**Slotted Pan Head Self Tapping Screw**

DIN 7971



**Slotted Oval Head Self Tapping Screw**

DIN 7973



**CSK Self Tapping Screw**

DIN 7982 PH / DIN 7982 PZ  
DIN 7982 TX (Torx)



**Pan Head Self Tapping Screw**

DIN 7981 PH / DIN 7981 PZ  
DIN 7981 TX (Torx)



**Slotted Pan Head Self Tapping Screw**

DIN 7983 PH / DIN 7983 PZ  
DIN 7983 TZ (Torx)



**Hex Head Self Drilling Screw**

DIN 7504 K



**Hex Head Self Drilling Screw With Washer**

DIN 7504 KO



**CSK Self Drilling Screw**

DIN 7504 O



**Pan Head Self Drilling Screw**

DIN 7504 M



**Toothed Internal Star Washer**

DIN 6797 J



**Safety - Washer Type 'S'**

Art.-Nr. 9093



**Tabwasher with 1 Tab**

DIN 93



**Cotter Pin**

DIN 94

\* Allen Bolt \* Threaded Bars \* Self-Tapping Screws \* Machine Screws





# Caster Wheels





# Pad Locks & Hinges







# Cabinet & Glass Door Handles



Rod Handle Steel 10mm  
Rod Handle Steel 12mm



'U' Type Handle Steel



Door Handle



Glass Door Handle



Cabinet handle



# Brackets & Channels



Ball Bearing Channel

Pipe Bracket



Pipe Bracket



Pipe Bracket 25mm



Pipe Bracket 19mm



Pipe Bracket Wall Type



Pipe Bracket Folding







# Door Handles, Knobs, chains Latches, Tower Bolts, Guards



Door Chain



Brass Tower Bolt  
4" - 6" - 8" - 10" - 12"



S.S. Tower Bolt  
4" - 6" - 8" - 10" - 12"



Bathroom Latch



Door Guard



Foot Stopper GP, CP, SN



Knobs



Door Handle



# Cabinet Hinges & Cam Locks



'A' Type



'B' Type



'C' Type

Cabinet Hinges



Cam Lock 20mm



Cam Lock 16mm



M.D. Lock



Sliding Glass Door Lock



Knob Lock  
GP, SN, SS







# Furniture Legs & Door Closers



Sofa Leg



Steel Furniture Leg



Furniture Leg



PVC Kitchen Leg



Door Closer



# Glass Lifter, Hooks, Bolts & Pins



Glass Lifter



3, 4, 5 Cloth Hook



Pressure Kamani



Window Hook



Concealed Tower Bolt  
4" - 6" - 8"



Door Eye



Cabinet Door Catcher



Shelf Pin Plastic





# Glass Brackets & Spacers



Spacer 25 X 25mm to 25 X 200mm



Spacer 19 X 25mm to 19 X 200mm



Glass Bracket 'U' Type  
6mm, 8mm, 10mm, 12mm

Glass Bracket 'D' Type  
6mm, 8mm, 10mm, 12mm



# Hand Tools & Power Tools





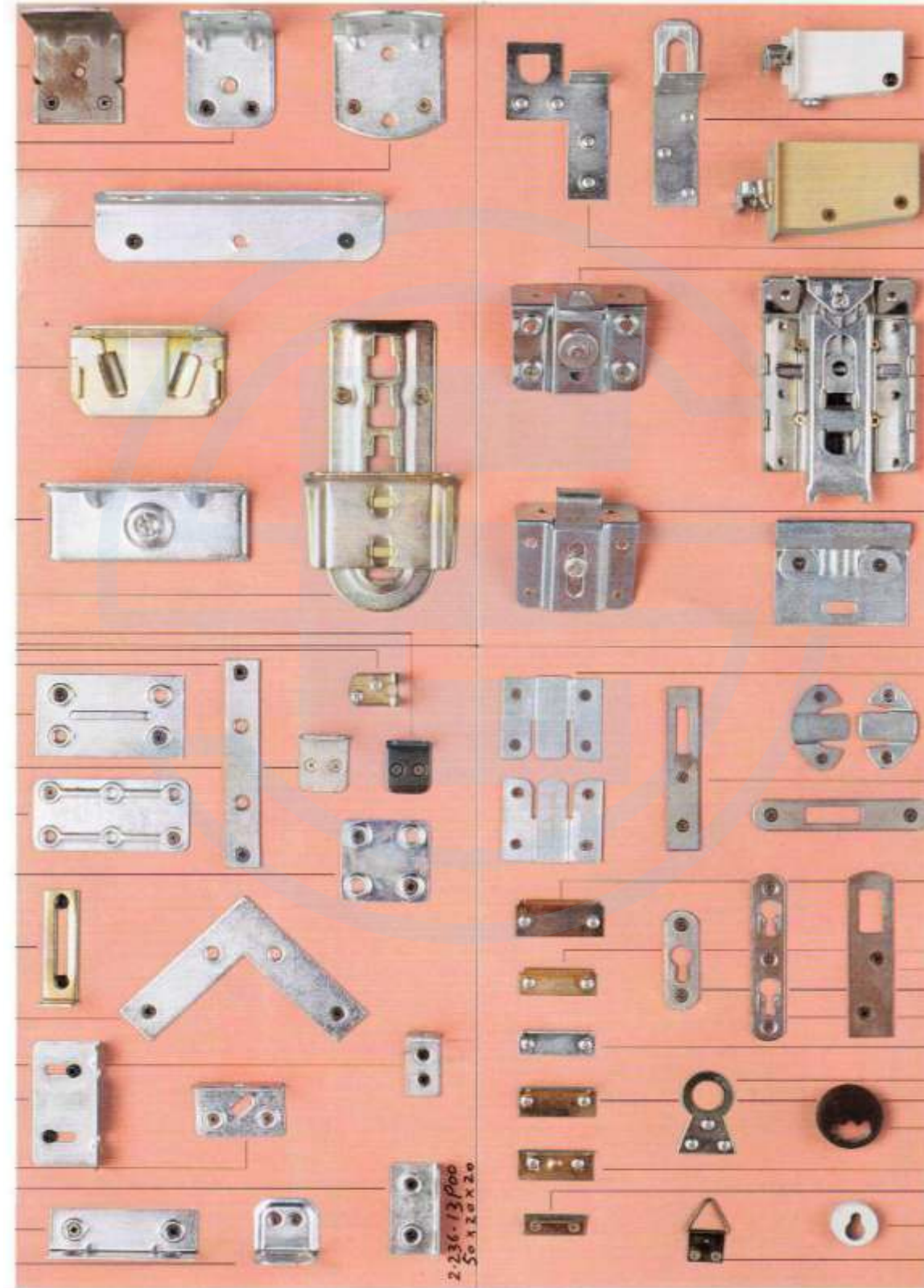


# Ironmongery





# Furniture Fittings







# Cylinders, Hasps & Locks



Brass Cylinder 70mm - 60mm



Hasps Staple 3" - 4"



Drawer Lock



Drawer Lock





# Gaskets



**Flexible Graphite Gaskets  
Spiral Wound Gaskets**



## Custom Gasket Dies

NE Seal's custom die and gasket making department has tackled everything from Dovetail-Joined Multi-Sectional Gaskets to Jet Fuelling Gaskets where Steel Mesh was Embedded in EXPANDED PTFE

Anything you need is within the abilities of our master DIE MAKER

## Gasket Sheet Materials

**Compressed Sheets**  
Non Asbestos / Kevlar  
Cellulose Fiber / Beater Addition  
Vegetable Fiber

**Cork**  
Steel Inserted  
Composition / Rubberized

**Elastomers**  
Natural Rubber / Red Rubber / SBR  
Cloth Inserted / Silicone / Buna-N  
Butyl / Viton / EPDM / Neoprene

**Felts**  
Polypropylene  
Polyester Ceramic / Carbon Wool

**Plastics**  
Teflon Virgin/Mech  
Glass Filled Teflon  
Expanded Teflon / Colour Coded  
Polyethelene Gylon / Tygon

**High Temperature**  
Reinforced Graphite  
Ceramic Paper / Graphite Sheet  
Carbon Tape

## Grapholl Products



## Ring Joint Gaskets



## Flange Gaskets Flange Protectors







# Gaskets

## Pump Packing

Carbon Fiber / Flexible Graphite  
Pure PTFE / Aramid Fiber / Synthetic Fiber  
Fiberglass / Ramie Fiber



## Rubber Extrusions

D Sections / P Sections / L Sections  
Cord / Bar / Ribbed Stock  
Squares / Rectangles / Triangles  
Silicone / U Channels / Pedestals...more!



## Flat Gasket Materials



## Gasketing Tools

Gasket Punch Kit / Gasket Cutting Kit

## Fiberglass

Knit Tape / Knit Rope  
Tadpole Tape / Rope / Sleeves



## O Rings

## Pipe Wrap





# Gaskets



## You're First Choice for High Quality Gasket Materials!

Everything from pumps, plumbing and processing to computers, cameras and cars use gaskets in some form to insulate, isolate or seal. The effectiveness of those gaskets depends on two things... quality workmanship and quality materials.

### Neoprene® - Chloroprene (CR)

Durometer Range (Shore A)	20 to 85
Tensile Range (psi)	500 to 3000
P x T max	15000
Resilience Rebound	Excellent
Abrasion Resistance	Excellent
Oil Resistance	Fair
Temperature Tolerances (°F)	-30° to +250°

Recommended for gasoline and non-aromatic solvents. Attacked by strong oxidizing acids, esters, ketones, chlorinated aromatic and nitro hydrocarbons. Excellent resistance to oils, ozone, sunlight and aging.

### NE 501 Neoprene®



### Natural Gum Rubber (NR)

Durometer Range (Shore A)	20 to 100
Tensile Range (psi)	500 to 3500
P x T max	---
Resilience Rebound	Excellent
Abrasion Resistance	Excellent
Oil Resistance	Poor
Temperature Tolerances (°F)	-60° to +175°

Good resilience, low compression set, good roll building behavior and moulding properties. Usable for ketones and alcohol. Good low temperature properties. Not recommended for oil / solvent resistance or ozone attacks. Poor aging resistance.

### NE 506 NR



### Neoprene® - Sponge - Chloroprene (CR) Closed Cell

Water Absorption (lbs/ft³)	0.1 max
Tensile Range (psi)	25 min
Compression Deflection at 25% (psi)	2 to 5
50% Compression Set (%)	60
Elongation (%)	125 min
Temperature Range (°F)	-30° to +200°

Distinct advantages are low water absorption, providing a tight seal and the ability to conform to curves and corners without bridging or creasing. Generally attacked by strong oxidizing acids, esters, ketones, chlorinated aromatic and nitro hydrocarbons.

### NE 502 Neoprene® Sponge



### Urethane

Durometer Range (Shore A)	30 to 100
Tensile Range (psi)	500 to 5000
P x T max	---
Resilience Rebound	Good
Abrasion Resistance	Excellent
Oil Resistance	Good
Temperature Tolerances (°F)	30° to +175°

Not normally attacked by moderate chemicals and hydrocarbons. It is generally attacked by concentrated acids, ketones, esters, chlorinated and nitro hydrocarbons.

### NE 507 Urethane



### Ethylene Propylene Rubber (EPDM)

Durometer Range (Shore A)	30 to 90
Tensile Range (psi)	500 to 2500
Resilience Rebound	Good
Abrasion Resistance	Good
Oil Resistance	Poor
Temperature Tolerances (°F)	-30° to +350°

Excellent aging and ozone resistance. EPDM is the preferred rubber material for steam, oil and solvent resistance is poor but is fairly good in ketones and alcohols. Not recommended for food applications or exposure to aromatic hydrocarbons.

### NE 503 EPDM



### Silicone Sponge - Closed Cell

Compression Set	Good
Elongation (MAX%)	700
Tensile Range (psi)	200 - 1500
Resilience Rebound	Good
Abrasion Resistance	Fair to Poor
Oil Resistance	Fair to Poor
Temperature Tolerances (°F)	-60° to +400°

Extreme low temperature properties. Can be highly resistant to oxidation and ozone attack. Generally attacked by most concentrated solvents, oils, concentrated acids, and dilute sodium hydroxide.

### NE 508 Silicone Sponge



### Synthetic Rubber (SBR)

Durometer Range (Shore A)	30 to 100
Tensile Range (psi)	500 to 3000
Resilience Rebound	Good
Abrasion Resistance	Excellent
Oil Resistance	Poor
Temperature Tolerances (°F)	-30° to +225°

Satisfactory for most moderate chemicals and wet or dry organic acids. SBR is not recommended for ozone, strong acids, oils, grease, fats and most hydrocarbons.

### NE 504 SBR



### Silicone Rubber

Durometer Range (Shore A)	30 to 90
Tensile Range (psi)	200 to 1500
Resilience Rebound	Good
Abrasion Resistance	Fair to Poor
Oil Resistance	Fair to Poor
Temperature Tolerances (°F)	-60° to +450°

Extreme low temperature properties. Highly resistant to oxidation and ozone. High resilience and low compression set. Generally attacked by most concentrated solvents, oils, and concentrated acids, however fluorination increases chemical resistance.

### NE 509 Silicone Rubber



### Nitrile / Buna N Rubber

Durometer Range (Shore A)	20 to 95
Tensile Range (psi)	200 to 3000
Resilience Rebound	Good
Abrasion Resistance	Excellent
Oil Resistance	Good to Excellent
Temperature Tolerances (°F)	-30° to +250°

Number 1 inexpensive choice for sealing petroleum, oils and solvents. Nitrile should not be used in highly polar solvents such as acetone, and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.

### NE 505 Nitrile



### Viton® Rubber

Durometer Range (Shore A)	60 to 90
Tensile Range (psi)	500 to 2000
Resilience Rebound	Fair
Abrasion Resistance	Good
Oil Resistance	Excellent
Temperature Tolerances (°F)	-10° to +600°

One of the most expensive rubber materials due to its high temperature properties. Resistance to wide range of oils. Not recommended for ketones, low molecular weight esters and nitro containing compounds.

### NE 510 Viton®







# Gaskets

Our technical staff is often called upon to recommend alternative materials for particular environments ... the best match always means better performance, longevity of a gasket and lower operating costs.

## WE PROVIDE - COMPETITIVE PRICES - FAST SERVICE & PRODUCTION - CUSTOM DESIGNS

From fine well known names such as Durlon®, Poron®, Garlock Gylon®, Gore Tex® and SGL to NE SEAL's own brand of flexible graphite — NE-O-Graph® — we insist on only the highest quality materials. This includes raw materials such as rubbers, fiberglass, sophisticated blended substances such as silicones, polyurethanes, Viton®, Teflon®, and EPDM, each matched to specific applications and unique environments.

### Durlon® 8500

Compressibility (@ 5000 psi) (%)	8 to 16
Tensile Strength - cross grain (psi)	2000
Creep Relaxation (%)	30
Sealability (Fuel A / Gas perm) .01 ml/hr / .03 cc/min	
Oil Resistance	Good
Temperature Tolerances (°F)	+700°

High-strength aramid and inorganic fibers bonded with NBR. Suitable for oils, water, steam, new generation refrigerants, dilute acids and alkalis, and many other liquids and gases.

### NE 601 Durlon® 8500



### Durlon® 9000

Compressibility (%)	8 to 16
Creep Relaxation	30%
Gas Permeability	0.01 cc/min
Sealability (ASTM F37)	0.02 ml/hr
Temperature Tolerances (°F)	-350° to +520°

Conforms to FDA requirements, independently certified for service in oxygen at pressure up to 585 psi and temperatures up to 292°, and for service in liquid oxygen.

### NE 801 Durlon® 9000



### Vellumoid Vegetable Fiber - (505)

Compressibility (@ 1000 psi) (%)	25 to 40
Tensile Range (MIN psi)	2000
Recovery (MIN%)	40
Temperature (MAX °F)	+250°

Consists of a cellulose fiber base which has been impregnated with a protein and glycerine binder. Three outstanding properties:  
1) Exceptionally good sealing properties.  
2) Highly conformable to compensate for distortions in flanges.  
3) Chemically inert in the presence of petroleum lubricating oils, automotive gasoline, fuel oils, and many organic solvents. Contains an antimicrobial compound to resist fungus organisms.

### NE 602 Vellumoid Vegetable Fiber 505



### GORE TEX® - Expanded Teflon®

Temperature Range (°F)	-450 to +600°
P x T max	1.8 million
Max Pressure (psi)	3000
PH Range	0 to 14

Expanded PTFE, originally developed by W.L. Gore, comes as joint sealant, gasket tape, valve stem packing, fiber and sheet gasketing. It is stable up to 600°F and inert to practically all chemicals. It is highly creep resistant providing extremely tight seals against fugitive emissions. When compressed it is impervious to gas and liquids except molten alkali metals and elemental fluorine applications.

### NE 802 Gore Tex® Exp Teflon®



### Vellumtherm 611

Complies with	ASTM F 104-87
Compressibility (@ 5000 psi load)	11 to 27%
Recovery (MIN)	35%
Tensile Strength (MIN psi)	1100
Oil Resistance	Excellent
Temperature Tolerances (°F)	to +400°

Used extensively in automotive applications. Contains a unique blend of ingredients including aramid fiber with a cured nitrile binder. Offers excellent sealing and a high degree of torque retention under flange loads. Surface is specially treated to reduce adhesion to flanges.

### NE 603 Vellumtherm (Beater Addition)



### Teflon® - Polytetrafluorethylene (PTFE)

Specific Gravity	2.16
Tensile Range (psi)	4000
Elongation ASTM D 1457-58T (%)	380
Stress at 10% elongation	1800 psi
Coeff. of thermal conductivity (BTU/in/ft²) (°F/in)	1.7

Exhibits excellent impermeability to most corrosive liquids, vapors, and gases. Can be filled with other materials like glass fibers, bronze powder, carbon graphite or molybdenum to increase mechanical and thermal properties as well as wear and creep resistance. Virgin PTFE is commonly used in food applications requiring zero contamination.

### NE 803 Teflon® PTFE



### Ceramic Paper - 550

Compression (psi / % deformed)	6
Tensile Strength (GM/in)	4800
Thermal Conductivity (BTU in/hr ft² °F)	.75 @ 1000°
Use Limit (°F)	2300°
Density (PCF)	12

Made from unwashed high purity ceramic fiber. Higher density and bladders give performance properties ideal for most refractory type applications. Excellent chemical stability resisting attack from most corrosive agents. Exceptions are hydrofluoric and phosphoric acids and concentrated alkalis. Good dielectric strength.

### NE 604 Ceramic Paper



### Graphite (NE-o-Graph®)

Bulk Density (lb/ft³)	44 to 90
Tensile Range (MAX psi)	750
Compression	40%
Recovery	20%
Temperature Tolerances (°F)	-400° to +540°

Graphite is one of the most inert minerals known. It will resist attack by a variety of chemicals including many acids, bases, solvents, oils and metals. Certain exceptions include sulfuric acids and molten alkalis. Available in pure graphite also stainless inserted and tang inserted sheet.

### NE 901 Graphite NE-o-Graph®



### F1 Felt

Combined choir. & water sol. (max%)	3.0
Tensile Strength (MIN psi)	600
Wool Content (MIN %)	95
Color	Off White
Acid Resistance: Good	Compression Rec: 88%
Alkali Resistance (8%): Fair	Temp Range: -80° to +200° F
Solvent Resistance: Excellent	Thermal Expansion: 0
Effect of Sunlight and Oxidation: None	

Uses of felt include home appliances, electric motors, seals and bearings, polishing and wiping, automotive components, wicking, power tools and duplicating machines and more.

### NE 201 F1 Felt



### NBR Carbon Fiber Sheet

Maximum Temperature (°F)	900°
Maximum Pressure (psi)	2300
P x T max	700,000
Sealability @ 2000 psi gasket load (ml/hr leakage)	.5
Tensile Strength across grain (psi)	1900

Manufactured from carbon fibers and graphite, bonded with nitrile rubber. This sheet is very versatile and therefore enables plants to use only one gasket material and avoid the confusion of multiple materials and sheets. Suitable for sealing hot oils, fuels, coolants, solvents, glasses, water and steam.

### NE 902 NBR Carbon Fiber Sheet





# Packing Material



**You're First Choice for High Quality Pump and Valve Packing!**

Rotating Reciprocating Valve Stem

Other reinforcing materials and structures may be specially fabricated upon request

## NES 2101 - General Purpose Packing

**Flexible Graphite**

General purpose flexible packing, braided and shaped with flexible graphite yarn. Applicable for static packing under high temperature.

Pressure	MPa	3	10	25
Temperature	°C	-250 ~ 650		
Linear Speed	m/s	0 ~ 8		
ph Range	ph	0 ~ 14		



## NES 2108 - Keeps Free of Ignition Loss

**Flexible Graphite - Ignition Loss Free**

Applicable for static packing in high temperatures. Made from flexible graphite yarn, reinforced with quality high-modulus carbon fiber.

Pressure	MPa	3	20	35
Temperature	°C	-250 ~ 650		
Linear Speed	m/s	0 ~ 8		
ph Range	ph	0 ~ 14		



## NES 2111 - Resists Scouring & Expelling

**Flexible Graphite - Externally Braided Inconel Wire**

Applicable for seal packing at high temperature, high pressure valves, slow rotating pumps and vessels. A revolutionary product - each structural yarn is externally braided with Inconel nickel net.

Pressure	MPa	10	30	50
Temperature	°C	-250 ~ 650		
Linear Speed	m/s	0 ~ 10		
ph Range	ph	0 ~ 14		



## NES 2113 - Stable Under Pressure

**Flexible Graphite - Inconel Wire Reinforced**

Applicable for static packing under high temperature and pressure. Made of flexible graphite yarn reinforced with several high temperature-resistant Inconel wires.

Pressure	MPa	3	10	30
Temperature	°C	-250 ~ 650		
Linear Speed	m/s	0 ~ 8		
ph Range	ph	0 ~ 14		



## NES 2214 - Highly Wear Resistant

**Flexible Graphite - Carbon Fiber Corners**

Applicable for static packing of valves, vessels and pumps at high temperature at low linear speed. Specially blended and braided with cotton fiber and quality high strength carbon fiber at corners.

Pressure	MPa	3.5	25	40
Temperature	°C	-250 ~ 650		
Linear Speed	m/s	0 ~ 10		
ph Range	ph	0 ~ 14		



## NES 2211 - Highly Resistant to Scouring

**RNF - Reinforced Composite**

Applicable for packing valves and pumps in particle bearing mediums such as fly ash slurry in thermal power plants. Made of surface treated, reinforced special braiding, dispersion of quasi-nm-level graphite powder.

Pressure	MPa	5	10	20
Temperature	°C	-50 ~ 280		
Linear Speed	m/s	0 ~ 15		
ph Range	ph	4 ~ 12		



## NES 2240 - Ideal Substitute for Asbestos

**Acrylic Fiber Impregnated with PTFE**

Applicable for packing pumps, valves and vessels at high linear speed and pressure. Made of polyacrylonitrile filament through reinforcing braiding and impregnation with PTFE.

Pressure	MPa	5	10	20
Temperature	°C	-100 ~ 250		
Linear Speed	m/s	0 ~ 12		
ph Range	ph	2 ~ 12		







# Packing Material

## NES 2300 - For Corrosive Mediums

Pure PTFE - Dry

Applicable for packing pumps, valves and vessels in corrosive mediums, chemical, medical, food, petrochemicals and power environments. Braided with PTFE yarn.

		○	□	△
Pressure	MPa	2	15	15
Temperature	°C	-200	-	280
Linear Speed	m/s	0	-	8
ph Range	ph	0	-	14



## NES 2301 - Minimizes Shaft Wear

PTFE - Lubricant Dipped

Applicable for dynamic seals at high linear speeds. Braided with PTFE yarn and treat with high temperature resistant lubricants. Handles all acids, alkalies and most chemicals except molten alkali metals.

		○	□	△
Pressure	MPa	2	15	15
Temperature	°C	-200	-	280
Linear Speed	m/s	0	-	10
ph Range	ph	0	-	14



## NES 2302 - Highly Wear Resistant

PTFE - Aramid Fiber

Applicable dynamic seals under high linear speed and medium high pressure. Blended and braided with PTFE yarn and aramid fiber in a special process, wrapped with aramid fiber at the corners.

		○	□	△
Pressure	MPa	3	10	20
Temperature	°C	-100	-	280
Linear Speed	m/s	0	-	12
ph Range	ph	2	-	14



## NES 2400 - Safe in Most Chemical Pumps

Expanded PTFE - Graphite Infused

Applicable for packing valves and pumps in petro-chemical, chemical, medical and power environment. Braided with 2400Y yarn, provides high strength, creep resistance, good self-lubrication and thermal conductivity.

		○	□	△
Pressure	MPa	3	10	20
Temperature	°C	-200	-	280
Linear Speed	m/s	0	-	20
ph Range	ph	0	-	14



## NES 2402 - Highly Wear Resistant

Expanded PTFE - Aramid Reinforced Corners

Applicable for dynamic seals under high linear speed and medium high pressure. Blended and braided with PTFE graphite yarn and aramid fiber in a process and wrapped on corner with high strength aramid.

		○	□	△
Pressure	MPa	4	20	25
Temperature	°C	-100	-	280
Linear Speed	m/s	0	-	20
ph Range	ph	2	-	14



## NES 2600 - Handles High Linear Speeds

Carbonized Fiber - PTFE Impregnated

Applicable for packings in rotary and reciprocating pumps operating at high linear speeds, valves, and vessels. Made of high strength and modulus carbonized fiber through braiding. Made of aramid fiber and impregnated with PTFE shaped.

		○	□	△
Pressure	MPa	2.5	15	25
Temperature	°C	-50	-	260
Linear Speed	m/s	0	-	15
ph Range	ph	1	-	13



## NES 2700 - Extreme High Strength

Aramid Fiber - PTFE Impregnated

Especially applicable as packing in rotary or reciprocating mechanisms in particle-bearing mediums at high linear speeds. Made of aramid fiber and impregnated with PTFE.

		○	□	△
Pressure	MPa	8	20	25
Temperature	°C	-100	-	280
Linear Speed	m/s	0	-	15
ph Range	ph	2	-	12



## NES 2900 - High Strength & Modulus

Carbon Fiber - Graphite Dipped

Applicable for packing in rotary or reciprocating mechanisms in corrosive, high (low) temperature, high pressure fluid mediums and at high linear speed. Made of carbon fiber and dispersion of quasi-nm-level graphite powder, then lubricated.

		○	□	△
Pressure	MPa	5	10	25
Temperature	°C	-200	-	600
Linear Speed	m/s	0	-	25
ph Range	ph	0	-	14







# Mechanical Seals



## Elastomer Bellows Pusher Type Single and Double Cartridge

Industrial Products LTD



**NES 1**  
*Self-aligning, Non-clogging, Single-coil spring*  
Special balancing  
Low drive torque  
Designed with a drive band and drive notches that eliminate over-tensioning of bellows  
Slippage is eliminated, protecting the shaft and sleeve from wear and scoring  
Service conditions: Water and steam to chemical and corrosive materials  
For use: Pumps, mixers, blenders, agitators, air compressors, blowers, fans and rotary shaft equipment  
Equivalent to John Crane 1



**NES 2**  
*Unlimited full corrosion industrial duty*  
Self-aligning, Non-clogging, Single-coil spring  
Special balancing  
Primary ring designed to provide positive drive and eliminate slippage  
Designed with a drive band and drive notches that eliminate over-tensioning of bellows  
Service conditions: Water and steam to chemical and corrosive materials  
For use: Pumps, mixers, blenders, agitators, air compressors, blowers, fans and rotary shaft equipment  
Equivalent to John Crane 2



**NES 3u**  
*Extremely rugged and reliable*  
Single seal  
Unbalanced  
Conical spring  
Dependent on direction of rotation  
For use: Water pumps, sewage pumps, submerged pumps, chemical pumps  
Equivalent to Burgmann M3, M32, M37



**NES 4**  
*Single coil spring*  
Unbalanced  
Dependent on direction of rotation  
Secondary O-ring as secondary seal  
For use: Pulp and paper, slurry, viscous fluid  
Equivalent to Pflar US-1  
Equivalent to Flexbox 300



**NES 31S**  
*Cartridge seal design*  
Easy reliable installation  
Requires no pump modification  
Self-aligning and balanced faces  
Non-clogging internal rotary  
Reduces power consumption  
Eliminates leakage  
Used in waste water, including oils, solvents, water and refrigerants in addition to a multitude of chemical solutions  
Equivalent to AES CURC



**NES 41**  
*Reduce high maintenance costs*  
Pre-assembled  
Easy to install  
Balanced design  
No clogging  
Prevents wasteful leakage  
Reduced downtime during maintenance  
Reduced power consumption of buffer fluid  
Optional quench and drain capabilities  
Fits nearly every centrifugal pump that has a conventional stuffing box  
Equivalent to Burgmann Carfax

**Packed Pump - Before**



**Packing Replaced with Mechanical Seal - After**



Avalon - Chemical - Automotive - Electronics - Pulp and Paper - Bio Research - Photographic - Metallurgical - Manufacturing - Food & Beverage - Mining & Minerals - Offshore Drilling - Plant Construction - Petroleum





# Mechanical Seals



## Elastomer Bellows Pusher Type Single and Double Cartridge

Industrial Products LTD



**NES 1**  
*Self-aligning, Non-clogging, Single-coil spring*  
Special balancing  
Low drive torque  
Designed with a drive band and drive notches that eliminate over-tensioning of bellows  
Slippage is eliminated, protecting the shaft and sleeve from wear and scoring  
Service conditions: Water and steam to chemical and corrosive materials  
For use: Pumps, mixers, blenders, agitators, air compressors, blowers, fans and rotary shaft equipment  
Equivalent to John Crane 1



**NES 2**  
*Unlimited full corrosion industrial duty*  
Self-aligning, Non-clogging, Single-coil spring  
Special balancing  
Primary ring designed to provide positive drive and eliminate slippage  
Designed with a drive band and drive notches that eliminate over-tensioning of bellows  
Service conditions: Water and steam to chemical and corrosive materials  
For use: Pumps, mixers, blenders, agitators, air compressors, blowers, fans and rotary shaft equipment  
Equivalent to John Crane 2



**NES 3u**  
*Extremely rugged and reliable*  
Single seal  
Unbalanced  
Conical spring  
Dependent on direction of rotation  
For use: Water pumps, sewage pumps, submerged pumps, chemical pumps  
Equivalent to Burgmann M3, M32, M37



**NES 4**  
*Single coil spring*  
Unbalanced  
Dependent on direction of rotation  
Secondary O-ring as secondary seal  
For use: Pulp and paper, slurry, viscous fluid  
Equivalent to Pflar US-1  
Equivalent to Flexbox 300



**NES 31S**  
*Cartridge seal design*  
Easy reliable installation  
Requires no pump modification  
Self-aligning and balanced faces  
Non-clogging internal rotary  
Reduces power consumption  
Eliminates leakage  
Used in waste water, including oils, solvents, water and refrigerants in addition to a multitude of chemical solutions  
Equivalent to AES CURC



**NES 41**  
*Reduce high maintenance costs*  
Pre-assembled  
Easy to install  
Balanced design  
No clogging  
Prevents wasteful leakage  
Reduced downtime during maintenance  
Reduced power consumption of buffer fluid  
Optional quench and drain capabilities  
Fits nearly every centrifugal pump that has a conventional stuffing box  
Equivalent to Burgmann Carfax

**Packed Pump - Before**



**Packing Replaced with Mechanical Seal - After**



Avalon - Chemical - Automotive - Electronics - Pulp and Paper - Bio Research - Photographic - Metallurgical - Manufacturing - Food & Beverage - Mining & Minerals - Offshore Drilling - Plant Construction - Petroleum



# Mechanical Seals



## NES 6

**Full convolution design provides flexibility**

Single spring  
Uniflex seal design  
Non-clogging  
Precision surface finish

Drive ring grips shaft to provide positive sealing without set screws or drive pins  
For use: Small centrifugal water pumps, deep and shallow well jet pumps, pool & spa pumps and wastewater pumps  
Equivalent to John Crane 8



## NES 6a

**Full convolution design provides flexibility**

Single spring  
Uniflex seal design  
Non-clogging  
Precision surface finish

Drive ring grips shaft to provide positive sealing without set screws or drive pins  
Rotating mating ring allows operation at higher speeds

For use: Small centrifugal water pumps, deep and shallow well jet pumps, pool & spa pumps, wastewater pumps and automobile pumps  
Equivalent to John Crane 8a



## NES 19

**Ideal for Sewage & Waste Water**

Single spring  
Unbalanced  
Independent of direction of rotation  
Bellows not subjected to torsional stress  
Seal faces easily interchangeable

Equivalent to  
NES 19-1 = Bingham MG1  
NES 19-2 = Bingham MG12  
NES 19-3 = Bingham MG13  
NES 19-4 = Bingham MG13S



## NES 142

**General Purpose**

Primary Ring designed to provide positive drive and eliminate slippage  
Non-clogging, single-rod spring

Designed with a drive band and drive notches that eliminate oversteering of bellows

Automatic adjustment compensates for abnormal shaft and play, run out, primary ring wear and equipment tolerances  
For use: Centrifugal, hydraulic, rotary and turbine pumps, compressors, chillers and other rotary shaft equipment  
Equivalent to John Crane 21



## NES 6b

**Drive design eliminates slippage**

Compact  
Balanced  
O-Ring Design  
Multiple Springs  
Available in a wide variety of elastomers for handling practically every industrial fluid

All components are held by a snap ring in a unitized construction design

Service conditions: Chemicals, crystallizing fluids, caustics, lubricating liquid, acids, hydrocarbons, aqueous solutions, and solvents

Equivalent to John Crane 8B



## NES 15

**Rugged and dependable**

Heavy cross sections of the rotary components resist high levels of corrosion

Utilizing a simple rugged open rotary unit design, abrasive and viscous fluids can be sealed easier than with other ANSI seal types that incorporate shrouded spring rotors

For use: Acid transfer, caustic and chlor-alkali, chemical, liquor, desalination, slurry processing

Equivalent to DuraMetallic RD



## NES 311

**Cartridge Mechanical Seal**

Excellent general seal  
Balanced seal faces

Easy to install

Modern user-friendly design  
No shaft damage

Equivalent to AES CONVERTOR



## Slurry Seal

**Flushless Mechanical Seal**

Suitable for "stand alone" operations in abrasive / corrosive fluids

Requires no measuring or special tools for assembly

No flush piping or flush system to install and maintain. Also no product dilution saves on energy costs incurred to remove any flush fluid

Lime slurry, Potash, Soda ash, Alumina hydrate, Catalyst slurry, Caustic slurry, Phosphate slurry, Raw sewage

For use in pumps, agitators, rotary equipment



## NES 40

**General Purpose Seal**

Self cleaning design

Corrosion resistant in a broad range of services

Cost effective and reliable

Superior bellows design

Bellows device can be fixed repeatedly without metal being over stressed

For use: Low temperature applications found in chemical, water and wastewater, pulp and paper, and utility industries

Equivalent to John Crane 880



## NES 37

**Easily concrete packed pump**

Hydraulically balanced

Long term reliable sealing

Reduces frictional drag on the shaft

Low cost replacement parts

No gassing

For use: Pumps, mixers and agitators

Equivalent to Chesterton 221





# Power & Automation

**V-Belts**



**Belts & Pulleys**



**Timing Belts**



**Oil Seals**



**Bearings**





# SAASA

Since 1975





# **SAASA**

## **EQUIPMENT L.L.C.**

Tel:+971506176287

P.O.Box: 3682

Abu Dhabi – UAE.

[yusuf@saasallc.com](mailto:yusuf@saasallc.com)

[www.saasallc.com](http://www.saasallc.com)