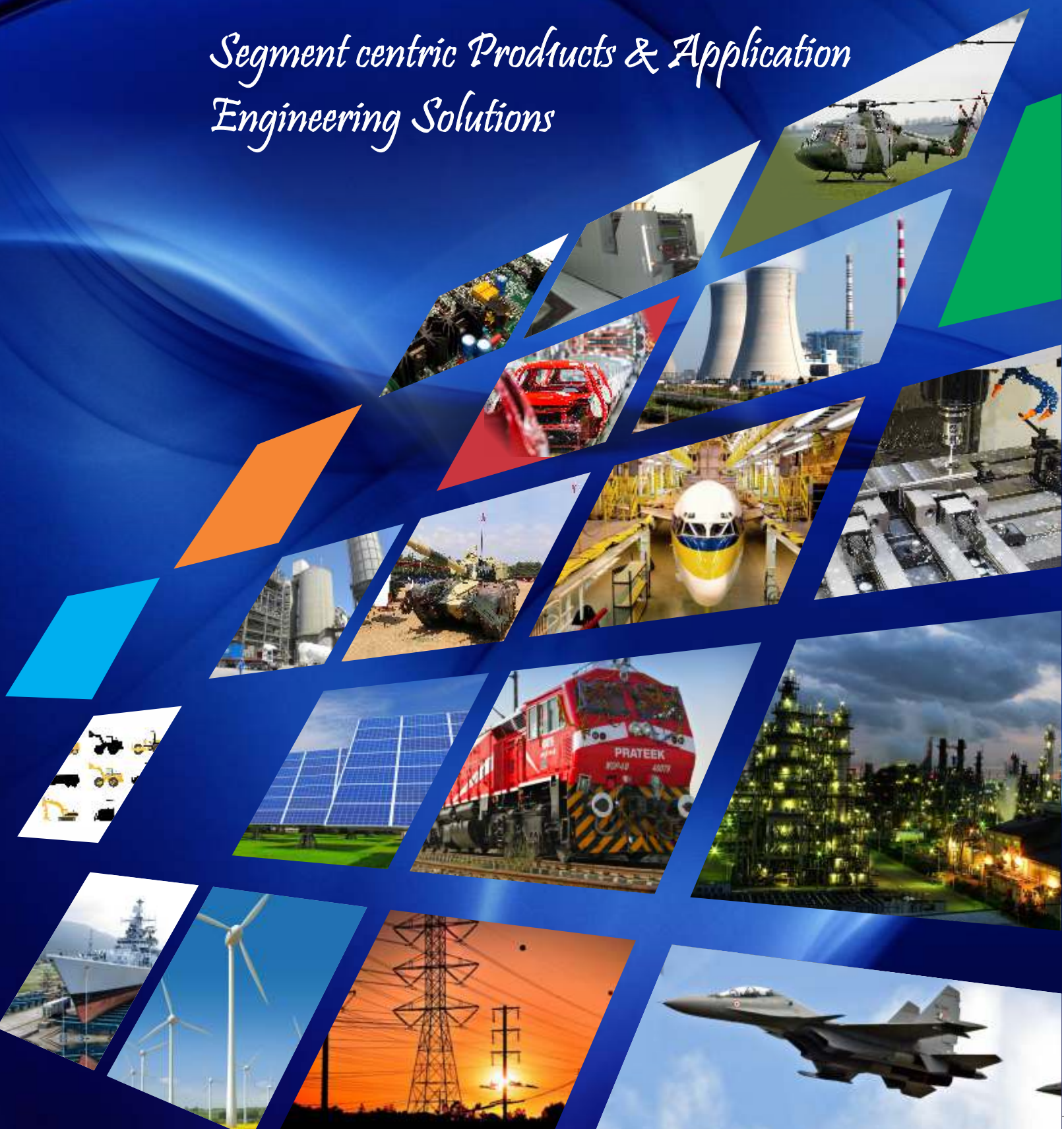




Sivenara Engineers



Since 1996

*Segment centric Products & Application
Engineering Solutions*



2



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DREMASTER® DMK

Robust torque wrench with square drive and integrated ratchet-head function for controlled bi-directional tightening and interchangeable mushroom head with push-button release.



Zinc-plated ratchet head
All 1/2" square drives of the DREMASTER® DMK-series have a black plastic cap - also referred to as a mushroom head. This mushroom head prevents an unintentional pulling out of the whole square drive when changing the nut socket.

Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate allowing for operations to be traced back. Calibrated to a permitted +/- 3 % deviation and better. The specifications of the standard (+/- 4 %) are exceeded.

Robust steel tube
With high corrosion protection, chrome-plated, satin powder-coated.



Automatic actuation
The DREMASTER® DMK actuates with a clear tactile impulse and audible signal and is immediately ready for operation again.

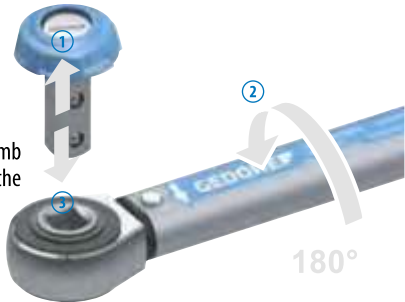


Technical information Anti-loss attachment



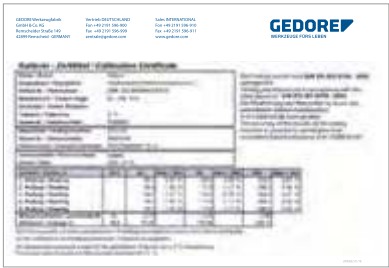
Function

In order to change the turning direction of the DREMASTER® DMK:
Press on the push-button with your thumb and take out the mushroom head, turn the wrench and re-insert the square drive.

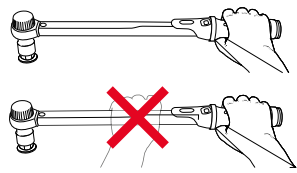


All the benefits at a single glance

- Additional protection of the serial number
- Concealed setting drill hole
- Engaging adjusting button with locking reference (lock symbol)
- Rapid adjustment provision using a separate hexagon allen key
- Mushroom head with release button and soft component
- Plastic grip with soft component
- Dual scale (main unit with vernier)
- At all times only one unit in the viewing area (N-m or lbf-ft)
- Change-over switch for selecting the unit
- Controlled safety via in-house DAkkS test laboratory



Additional protection of the serial number
Concealed setting drill hole = secured adjusting/ setting system Serial number on the wrench and on the certificate for unambiguous product identification, traceable via in-house DAkkS laboratory to national standards



Handgrip with a user aid
Grey plastic handgrip, new ergonomically enhanced shape, with an indentation in the middle of the handgrip. User aid and reference points for calibration.



Nonius
Model-dependent intervals of 1 or 0.5 N-m allow very accurate settings.



Dual scale with main and alternative unit (N-m/lbf-ft).
Main unit N-m with vernier. At all times only one unit in the viewing area = avoids any reading errors. Change-over switch next to the scale for straightforward unit selection.



Lighthweight and reliable
Locking button enables reliable locking of the torque setting. "Torque adjustable" reference by means of opened lock symbol. Provision for rapid setting from the separate hexagon allen key fixture.



DREMASTER® DMUK

Torque wrench with square drive and integrated ratchet-function for controlled clockwise tightening



Robust tubular steel
With high corrosion protection, satin powder-coated, with zinc-plated ratchet head

With 1/2" square drive and integrated lever-change reversible ratchet function for controlled clockwise tightening

Switch the lever of the reversible ratchet to correspond with the desired direction, clockwise or anti-clockwise.

Features



DMK 1/2" - 90 20-850 N-m



DMUK 1/2" 20-300 N-m



DMK 1/2" 20-850 N-m



DMSE 9x12 14x18 20-400 N-m



DREMOMETER

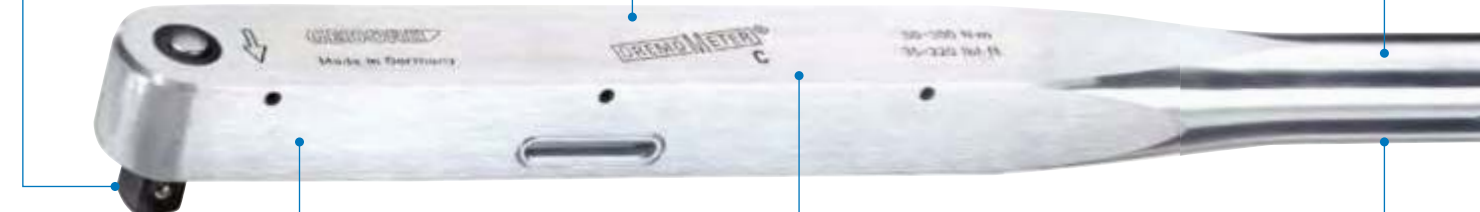
PERMANENT PRECISION

Torque wrench made of
high-strength aluminium alloy



Drive in accordance with application
DREMOMETERS are available for a large variety of applications in controlled screw tightening. The single square drive for controlled clockwise tightening or the double square drive (L) for controlled bi-directional tightening. Special utilisation areas for DREMOMETER with spigot end (Z) and rectangular cavity (SE) particularly for hard-to-access locations and where space is tight. Almost all DREMOMETER models have separate ratchet heads, and there are good reasons for that: It is possible to work with or without the ratchet head function as desired.

Robust and unsusceptible
The full-metal construction of the DREMOMETER makes it particularly unsusceptible to grime and rough handling on construction sites, in workshops and in industry.



Model
Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate allowing for operations to be traced back. Calibrated to a permitted +/- 3 % deviation and better. The specifications of the standard (+/- 4 %) are exceeded.

Automatic resetting
The DREMOMETER gives operator an audible signal and tactile impulse and is back in operation in an instant.

6



6-3000 N-m



6-2000 N-m



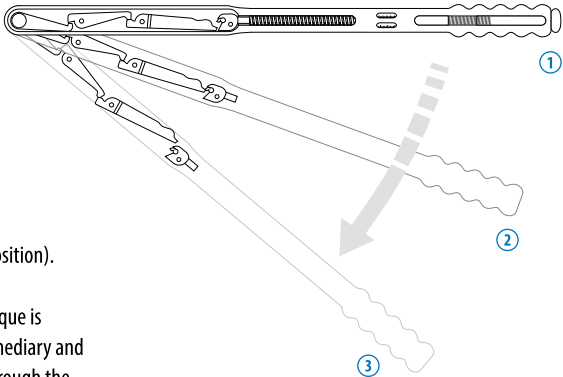
8-1000 N-m



8-400 N-m

Working principle

The quality lever chain produced in the company's own drop forge reduces the strain on the mechanics to a minimum. The proportioning of the individual levers, which are optimally attuned to each other, gives the DREMOMETER its unique precision and its long tool life.



- ① Position of the lever chain without impact of force (in starting position).
- ② Position of the lever chain with impact of force before the set torque is achieved. The force is transferred from the primary lever to the intermediary and final lever until the final lever slips past the so-called release lever through the sliding back of the angle-lever body.
- ③ Position of the lever chain when the force impacts after the torque setting is achieved. Immediate position after the clear tactile impulse and audible signal "click". On relief, the lever chain moves back into the starting position (1).



Maximum precision
Extended tool life and long life-cycle even if used intensely.

Lightweight and pleasant
The aluminium housing and the ergonomically designed handgrip enable simple and safe operation over wide tightening ranges.

Serial number on the wrench and on the certificate for unambiguous product identification, traceable via in-house DAKS laboratory to national standards

Scale
Clear dual scale N-m and lbf-in/lbf-ft on every DREMOMETER (apart from models E / EL / EK / EKL / F).

All the benefits at a single glance

- Square drive**
- > In the DREMOMETER, the output square drive and the pivot point of the primary lever are situated on a single axis.
 - > Advantage: The absolute accuracy always remains unchanged in every case. Even if the tool is operated outside of the handgrip or with an extension tube.
 - > This ensures a high degree of user safety; can be extended to reduce the user's working load.

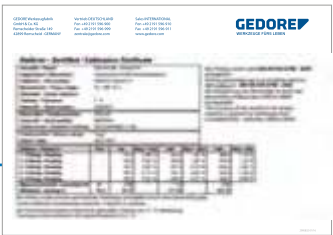
- Lever chain**
- > The integrated lever chain reduces the strain on the measuring mechanics to a minimum which means that the measuring mechanics can thus be constructed with much greater sensitivity.
 - > Advantage: High accuracy and a long life cycle.
 - > Extremely low wear

- Double square drive**
- > DREMOMETER models (except model F) having a double square drive are available on request. Apart from that, separate ratchet heads are available for almost all models (except model F).
 - > Advantage: Controlled counter-clockwise tightening and work in very narrow spaces are possible without any problems.

- Scale**
- > Two scales on each DREMOMETER indicate N-m and the common US unit of torque measurement (apart from types E - F).
 - > Advantage: Exact reading even for lbf-in or lbf-ft.
 - > Easy operation - fast and safe torque tightening

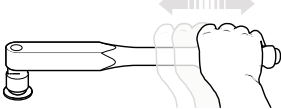
- Handgrip**
- > The nice-to-hold handgrip enables safe work and less operator fatigue. The full-metal construction makes DREMOMETER models particularly robust.
 - > Advantage: A high level of dependability even following tough long term work.

- Test certificate**
- > All DREMOMETER models include a test certificate according to DIN EN ISO 6789:2003.
 - > Advantage: Guaranteed accuracy +/- 3 % of the adjusted scale value. The specification of the standard (+/- 4 %) is exceeded.

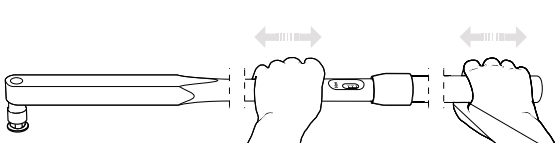


DREMOMETER
Operatable without inaccuracies

Regardless of where you apply the force, at the center of the handgrip or another part of the DREMOMETER, with both hands or using an extension tube, your torque setting will always be attained, without shifts in value. Due to its unique single-axis location of the centre of rotation and the output square drive, the DREMOMETER is a tool that can be operated free from errors. In contrast to conventional torque wrenches, this single lever enables tightening without shifts in the measured value and without interference caused by activation outside of the handgrip.

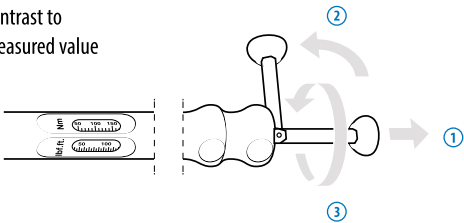


However, value shifts are possible when activating the DREMOMETER with special wrenches or when using wrenches with different depth gauges.



Features

Setting of the torque value to N-m or alternatively to lbf-in / lbf-ft by the non-losable hexagon key in the handgrip. The smooth-running mechanism enables the setting to be made quickly without significant force needing to be applied.



All DREMOMETERS are also available with locking and safety device (A+S).

TORCOFIX K

Robust torque wrench with square drive and integrated ratchet-head function for controlled bi-directional tightening.



+ Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate allowing for operations to be traced back. Calibrated to a permitted +/- 3 % deviation and better. The specifications of the standard (+/- 4 %) are exceeded.

Serial number on the wrench and on the certificate for unambiguous product identification, traceable via in-house DAKS laboratory to national standards

+ Scale

Easily readable dual scale (N-m / lbf-in / lbf-ft) well protected under a window with a magnifying-glass effect. The torque setting is readable on the scale or, more particularly, on the scale in combination with the scale ring.

+ Micrometre scale

Optimised shape, stable scale frame with red-shaded micrometre scale ring. Model-dependent intervals of 0.025, 0.1, 0.25, 0.5 or 1 N-m allow very accurate settings.

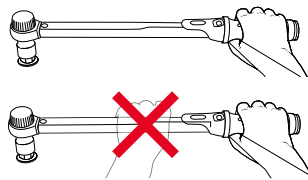
Lightweight and reliable

Locking button enables reliable locking of the torque setting.



+ Handgrip with a user aid

Black plastic handgrip, new ergonomically enhanced shape, with an indentation in the middle of the handgrip. User aid and reference points for calibration.



+ Chrome-plated ratchet head

All 1/4" - 1/2" square drives of the TOROFIX K-series with mushroom head. This mushroom head prevents an unintentional pulling out of the whole square drive when changing the nut socket.



Automatic actuation

The TORCOFIX actuates with a clear tactile impulse and audible signal and is immediately ready for operation again.

Robust steel tube

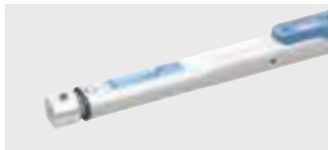
With high corrosion protection, chrome-plated, silk-metal.



1/4" - 1-450 Nm



1/2" - 2-850 Nm



3/4" - 5-400 Nm

TORQUE SCREWDRIVER TECHNICAL FEATURES

A range of compact and versatile torque screwdrivers with automatically actuating, dial-indicating and measuring torque.

TYPE PGN



- > Pre-set torque screwdriver without scale for durable and identical value tightening
- > Auto setting
- > With 1/4" female hexagon drive for use with 1/4" hexagon bits as per DIN 3126 - C 6.3

TYPE FS 755



- > Pre-set torque screwdriver without scale for durable and identical value tightening
- > Auto setting
- > Bidirectional
- > Anodised aluminium handgrip

TYPE S 757



- > Adjustable torque screwdriver with scale ring
- > Auto setting
- > Bidirectional
- > Anodised aluminium handgrip

TYPE 756



- > Adjustable torque screwdriver with scale ring
- > "Positive-lock"-system
- > Drive type made of stainless steel
- > Auto setting
- > Bidirectional
- > Non-slip rubber handgrip
- > EPA > see product

TYPE SP 758




- > Dial-indicating torque screwdriver with dual scale
- > Locking of maximum values / maximum value-display
- > Bidirectional
- > Anodised aluminium handgrip
- > EPA > see product


TORQUE WRENCHES WITH SLAVE POINTER


IDEAL FOR TEST, CONTROL AND MAINTENANCE WORK

+ Clear product identification: Provided by the type plate/label. The article number and the serial number always ensure traceability in the scope of your test- and checking-tool management.



+ Practical handgrip: Handgrip shaped in accordance with the most recent ergonomic findings. Resistant to grease and oil.






+ Integrated ratchet spindle: With double square drive enables high-speed bi-directional tightening.

+ Dual scale: N-m and lbf-in/lbf-ft with main and slave pointers, protected by a strong window made of Trogamid "T".

+ Solid tube: Light-metal tube with plastic sleeving.

FEATURES




The working principle of the torque wrench with slave pointer type 83

ELECTRONIC TORQUE WRENCH E-TORC Q

+ **Powerful. Variable.**
Holders: Rectangular-cavity SE 9x12 (E-torc Q 100) and SE 14x18 (E-torc Q 200, 300)

+ **Extensively. Resilient.**
Large TFT graphics display of a 109 mm (4.3") diagonal with touch function. This makes a gloves operation possible.

+ **Ergonomic. Safe.**
The ergonomic handle ensures easy, safe handling - even with large tightening torques.



+ **Flexible. Positional.**
Easy-to-handle: Housing-oriented tool holding fixture rotatable through 60° in both directions (120°)

+ **Intuitive. Visible.**
Touch function or six hardware keys for intuitive user software operating and, in addition, an extremely robust enter key.

High-performance lithium-ion rechargeable battery with rapid changing system



All the standard measurement methods:

- > Torque
- > Torque/rotary angle
- > Loosening/tightening
- > First movement
- > Yield point
- > High measurement accuracy e.g. torque +/- 1 %, +/- 1 digit



Communication to the high-capacity PC user software or attachment to CAQ systems (optional)



Charging unit for two lithium-ion rechargeable batteries (optional)

ET2SA ELECTRONIC TORQUE WRENCH E-TORC



TT3KH ELECTRONIC TORQUE WRENCH TORCOTRONIC III



End Fittings - Spigot

Dia 16Z 22Z 28Z



End Fittings -Rectangular

9 x 12 14 x 18



10

754-RATCHET HEAD DREMOMETER

Ratchet head no. 754 can only be used in combination with the DREMOMETER. Please note the right direction of rotation by the ratchet head when ordering. There are separate models for clockwise or counter-clockwise rotation. Ratchet head nos. 754-11 to 754-16 (counter-clockwise) can only be used with the DREMOMETER with double square drive.

Use:

- Enables controlled torque tightening in combination with a DREMOMETER torque wrench (Type MINI - E)

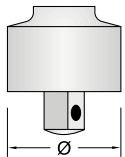
Features:

- Fine-pitched, sturdy ratchet head
- With 1/4", 3/8", 1/2", 3/4" or 1" output square drive
- Clockwise models (no. 754-00 to -06)
- Anti-clockwise models (no. 754-11 to -16)
- Made of chrome-vanadium steel

Scope of delivery:

- Ratchet head
- Single packed in poly-bag

□ Max. continuous load of ratchet according to DIN EN ISO 6789:2003 and/or maximum load of cavity



EXTENSION TUBES
FOR DREMOMETER E - F



8572-74



8564-92

EXTENSION TUBES ALU
FOR DREMOMETER A - CD



8577-350



8571-80



8577-700

TORQUE CALIBRATION ANALYSERS

8612

ELECTRONIC TORQUE TESTER DREMOTESTE

0.2-3150 N·m / 1.8 lbf·in - 2323 lbf·ft

- › For verifying and setting clockwise torque wrenches and torque screwdrivers
- › Simple, electronic torque tester with integrated torque transducer (DMS)
- › 5 models in the range from 0.2 to 3150 N·m
- › With fixed hexagon female drive 1/4", 10, 17, 36, 46 mm or 1.1/2" square drive adaptor (model dependent)
- › With 1/4", 3/8", 1/2", 3/4", 1" square drive adaptor or bit adaptor (model dependent)
- › High measurement accuracy: +/- 1 % tolerance of reading, +/- 1 digit
- › Break-Point-measurement (1st peak)
- › Autoreset
- › Can be switched from N·m to lbf·ft
- › Serial interface RS232
- › Optionally available: adaptor for cigarette lighter socket (12 V), no. 8612-390

Scope of delivery:

- › Electronic torque tester
- › RS232 cable
- › Power supply unit
- › 100 - 240 V, 50 - 60 Hz, max. 500 mA (see type plate)
- › 2 sockets (size and drive model-dependent)
- › Adaptor for 8612-3150
- › Operating instructions
- › Packaging



11

TORSION TEST DEVICE E-TP

ETP

ELECTRONIC TORSION TEST DEVICE

- › For testing, and verifying clockwise and anti-clockwise torque wrenches
- › 5 models in the range of 0.5 to 3150 N·m
- › Vertical and horizontal testing according to DIN EN ISO 6789
- › Electronic torque tester integrated with measurement electronics
- › Robust housing from aluminium cast with separate or detachable operating display
- › Serial interface RS232 for PC
- › Traceable to national standards
- › ETP 15 with integrated overload protection and tool for manual resetting after unintended overload
- › Torque reading precision +/- 1 %, +/- 1 digit from reading figure
- › Factory certificate based on VDI 2646
- › Optional certificate as per DAKS-DKD-R 3-8
- › A large LC graphic display
- › Wide measuring range in N·m, can be switched to cN·m, lbf·ft or lbf·in (model dependant)
- › Power supply unit with EURO plug (UK, US, AUS-adaptor on request)
- › Accessories: Operating display, display holder incl. cable, software incl. connection cable for PC



Sivenara Engineers
Since 1996

TORQUE MULTIPLIERS

DREMOPLUS ALU



GEDORE DVV-13Z			
Serien-No.	DV02.00018	Ratio	1 : 5
Model	2011	Max. Output Torque	1300 Nm 950 lbf-ft
Max. Input Torque	270 N-m 200 lbf-ft		



INPUT		OUTPUT	
Nm	lbf-ft	Nm	lbf-ft
10.9	8.7	50	40
21.1	14.7	100	70
41.7	31.2	200	150
58.8	41.3	285	200
80.6	61.1	395	300
91.9	71.6	450	350
115.0	82.0	560	400
156.3	112.2	765	550
174.2	122.7	850	600
198.4	143.8	965	700
216.8	154.5	1050	750
227.4	165.2	1100	800
237.9	175.7	1150	850
248.0	185.9	1200	900
258.2	190.1	1250	920
268.9	196.5	1300	950

12

Torque Range	250Nm - 54,000Nm
SQ Drive	1/2" - 3/4" input
Output	3/4" - 2 1/2"
Ratio	1:5, 1:4, 1:55, 1:16, 1:18, 1:175 1:28.5, 1:22, 1:39



Safety Plus
Your advantage

- The slender, lighter structure of the appliances ensures convenient and safe working - even where conditions are particularly cramped.
- Repetition-accurate and precise results - supported by individual factory test certificates - ensure a maximum degree of job safety.
- High degree of resilience and long life of the appliances attributable to a low-backlash planet gear with Ceramic-Teflon® coating.
- A 30 % + lighter steel housing thanks to the use of high-performance aluminium.
- Each torque multiplier is examined as to its torque range at the factory and provided with an individual factory test certificate.
- Precise, reliable figures - even under extreme climatic conditions
- Easy to operate: The most common INPUT/OUTPUT torques on the torque multiplier

Selection criteria

1. Torque

Select your torque multiplier on the basis of the maximum output torque.

2. Loading factor and frequency (load spectrum)

It would be wrong to constantly operate the appliance at its maximum capacity - just as it would be for any machine or any car. This also holds good for the choice of the torque multiplier. Permanently operating a torque multiplier for screw-tightening applications at maximum torque may impact negatively on its service life.

3. Supporting situation

Various supporting situations may be a determining factor in the selection of the torque multiplier.

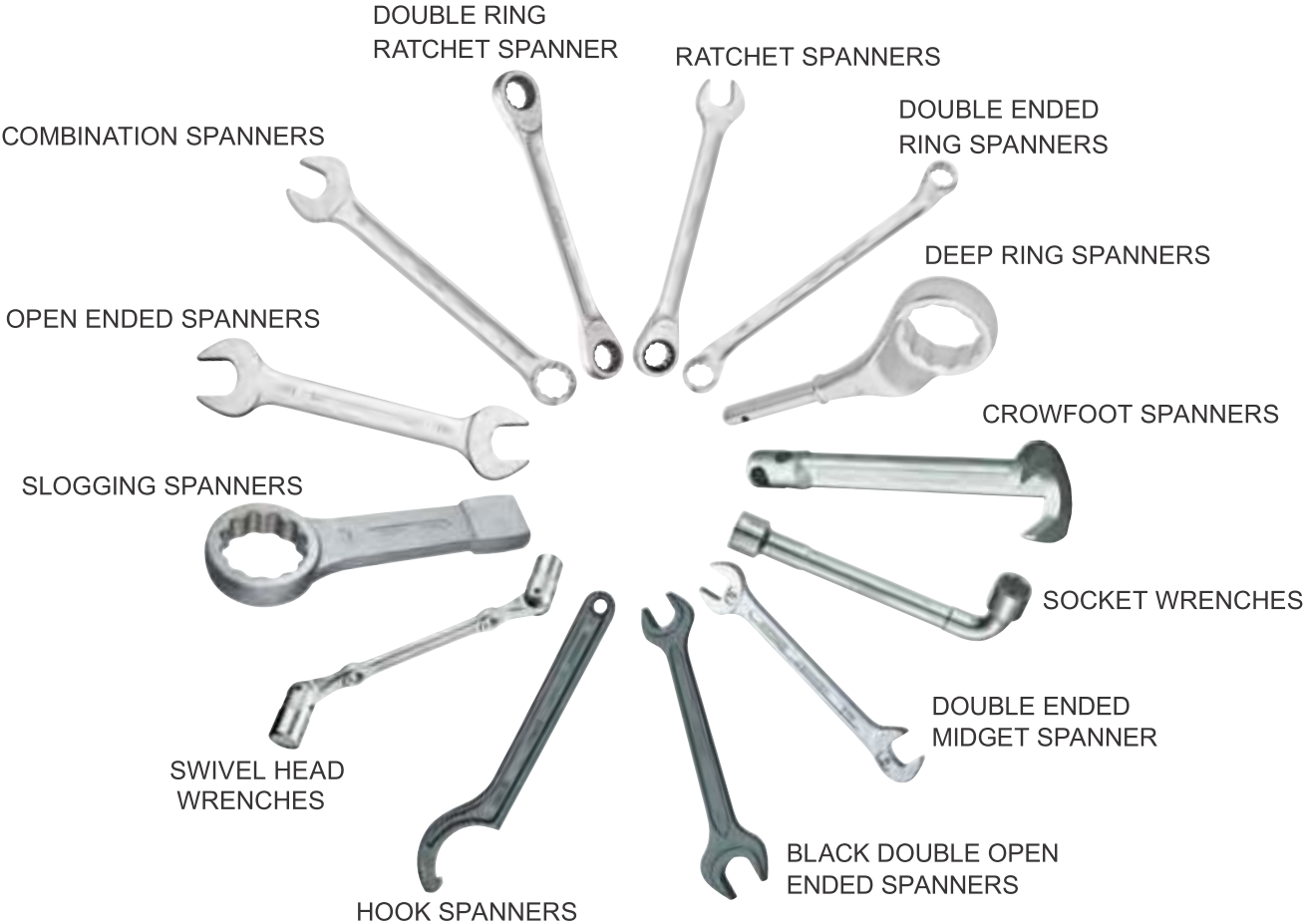
Support at a raised position: The L-form reaction arm would be suitable should you want to attach the reaction arm to a point above the screwing-tightening level. A warning here in that the inputted bending forces result in a reduction of the maximum permitted torque!

Support at the level of the screw: Our recommendation - should you want to attach the reaction arm at the screw-tightening level - is either for a Z-form reaction arm or the straight L-form with adjustable reaction square.

4. Anti-wind-up ratchet

A minimum 180° torque wrench field of movement should be on hand. As such, the recommendation is for an appliance complete with an anti-wind-up ratchet. In this way, pre-tension in the appliance is maintained and does not need to be re-created with each lift.

SPANNERS



SOCKETS AND ACCESSORIES

6,3 (1/4") SQ. DRIVE



10 (3/8") SQ. DRIVE



12,5 (1/2") SQ. DRIVE



20 (3/4") SQ. DRIVE



25 (1") SQ. DRIVE



FRICTION TYPE RATCHETS



IMPACT TOOLS



BITS



SCREWDRIVERS

3C-SCREWDRIVER >

3C-SCREWDRIVER >
WITH STRIKING CAP

SCREWDRIVER >
WITH WOODEN HANDLE

ELECTRONIC >
SCREWDRIVER

VARIOUS >

T-HANDLES >

HEXAGON ALLEN >
KEYS



PLIERS

WIRE-STRIPPING PLIERS

CIRCLIP PLIERS
INTERNAL & EXTERNAL

GRIP WRENCHES

CRIMPING PLIERS

BOWDEN CABLE CUTTER /
CABLE SHEARS

BOLT CUTTERS

MECHANICS PLIERS

STRIPPING TOOLS

BLACKSMITH'S
TONGS

FLAT NOSE

WATER PUMP /
UNIVERSAL PLIERS

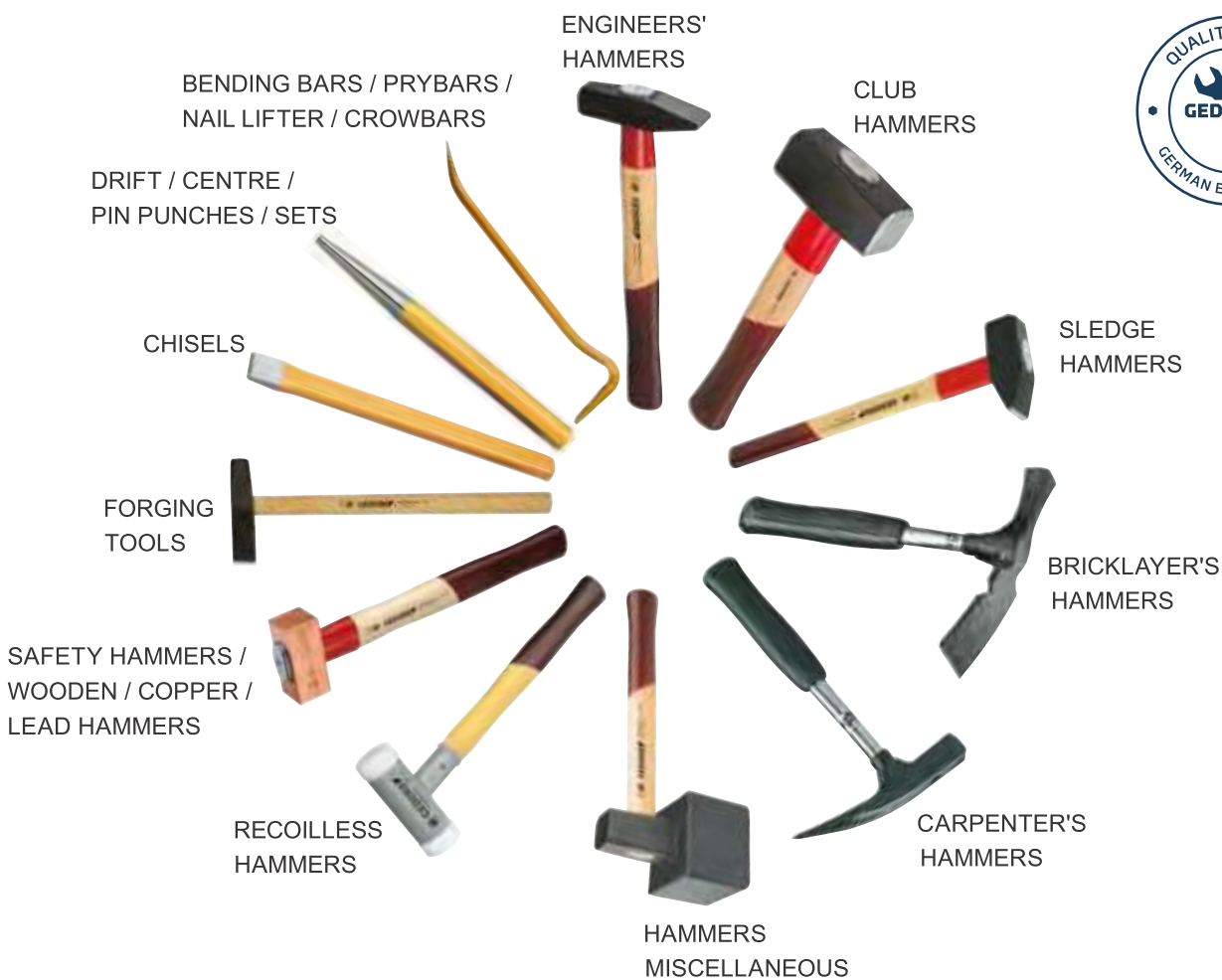
PIPE WRENCHES /
SPECIAL PLIERS

SIDE CUTTERS /
END CUTTING NIPPERS

COMBINATION PLIERS



HAMMERS / STRIKING TOOLS



VDE INSULATED SAFETY TOOLS 1000 VOLTS

VDE SPANNERS



VDE TORQUE
WRENCHES



SOCKETS +
3/8" ACCESSORIES



SOCKETS +
1/2" ACCESSORIES



VDE SCREWDRIVER



VDE PLIERS



VDE ASSORTMENTS



VDE ACCESSORIES



INSTALLATION TOOLS

210
LINK PIPE CUTTER
for steel, SML and cast iron pipes



220
PIPE CUTTER TUBEX
for steel, SML and cast iron pipes



PIPE CUTTER FOR STAINLESS STEEL
2180

PIPE CUTTER
for stainless steel pipes



2303
PIPE CUTTER QUICK AUTOMATIC NIRO
for stainless steel pipes



16

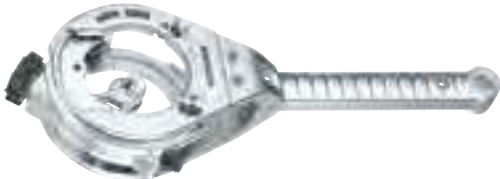
231011
MINIATURE PIPE CUTTER MINI-QUICK NIRO
for stainless steel pipes



2325
PIPE DEBURRING REAMER
for stainless steel pipes



224
RATCHET PIPE CUTTER NIRO
for stainless steel pipes



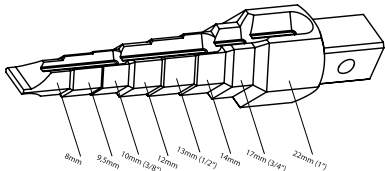
2261
SHEARS SET
for plastic pipes



2268
PIPE SHEARS
for plastic pipes



380
COMBINATION STEPPED KEY



BENDING SYSTEMS

PIPE BENDING PLIERS
NO. 2415



MANUAL PIPE BENDER -
DRAW BENDING OPERATION



MANUAL BENDING TOOL
SETS NO. 243



MANUAL BENDING TOOL
SETS
NO. 278



UNIVERSAL MANUAL PIPE
BENDER
NO. 276



MANUAL PIPE BENDER -
PUSHING BENDING
OPERATION NO. 2456



PIPE BENDING
MACHINES -
DRAW BENDING
OPERATION



PIPE BENDING
MACHINES - PUSHING
BENDING OPERATION
NO. 256-261



PIPE BENDING
MACHINES
HYDRAULIC



ECCENTRIC ANGLE
BENDERS NO. 280



WORKSHOP SOLUTIONS
Tool Trolley



No. of Draws 5/7/8
Varied Colours to Choose

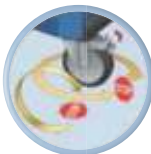
WORKBENCH WITH TOOL
CABINET



MOBILE WORKBENCH



Features for Tool Trolley & Workbench



- Total braking system**
- Prevents unwanted movement and turning of the wheel
 - Ensures safe parking of the tool trolley or workbench



- Central locking**
- One central lock for all drawers and doors
 - Safe and easy handling



- Individual drawer locking**
- In addition to the central locking, each drawer has its own separate latch to prevent unwanted opening, when being moved
 - The latch is automatically released by a tilting bar when the drawer is opened
 - The single latch automatically engages when the drawer closes



**Wide Range of
Accessories to Choose**





ASSORTMENTS



TOOL CASES



WORKSHOP
FURNITURE

18



TOOL
MODULES



SPANNERS



RATCHETS
SOCKETS



SOCKET SETS



PLIERS

Industrial Bits



Available for the use
of two different anvil
chucking

Two Steelball Ditches

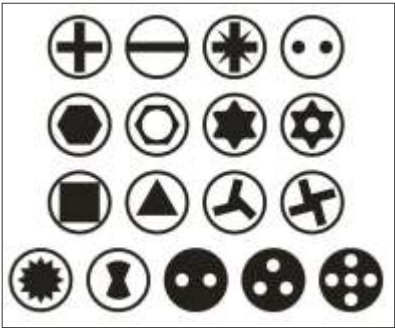


Socket Bits, Nut Setters

6.35mm Hex Drive

Power Bits

8mm Hex Drive
11mm Hex Drive



Bits For Precision Screw

Bits For Precision Screw

Wing-shank
Halfmoon

Insert Bits

6.35mm Hex shank

Power Bits

6.35mm/8mm
Hex Drive

Bits For Precision Screw

3mm Hex Drive

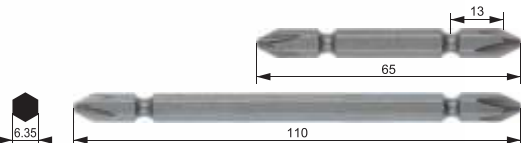
Screw Shank Driver Bits Bit Holders & Finder Sleeves Adapters

Bit Holders & Mg. Viscatch

BIT MAG BOTTLE Double-Ended Bit (Type A)



Features: Basic bit which is most popular in the assembly lines.
Usage: Hard joint application like tapping work and machine screw.



	Heat treatment classification	EDP No.	Inner Ctn. (set)
AMG14(+) 2X65H $\Phi 2 \times 65\text{NN}$ 20 pcs.	H	415285	5
AMG14(+) 2X110H $\Phi 2 \times 110\text{NN}$ 20 pcs.	H	415286	5

Bottle dimensions: 2x65H type: W53xD100xH111mm / 2x110 type: W53xD100xH153mm





From Japan

Nile Air Nippers

Section of blade

Single blade



Standard



Full-flush round type



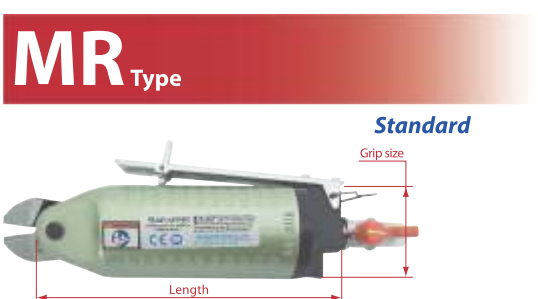
Full-flush flat type



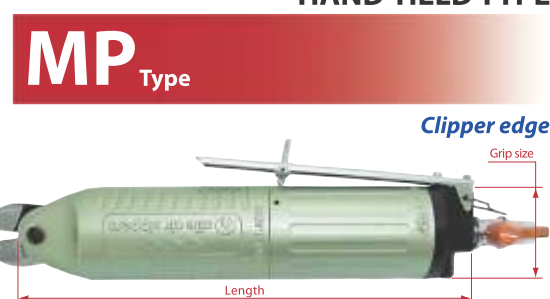
BLADE



AIR CUTTERS

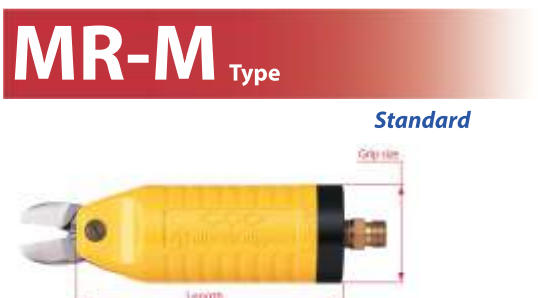


HAND-HELD TYPE



AIR CUTTERS

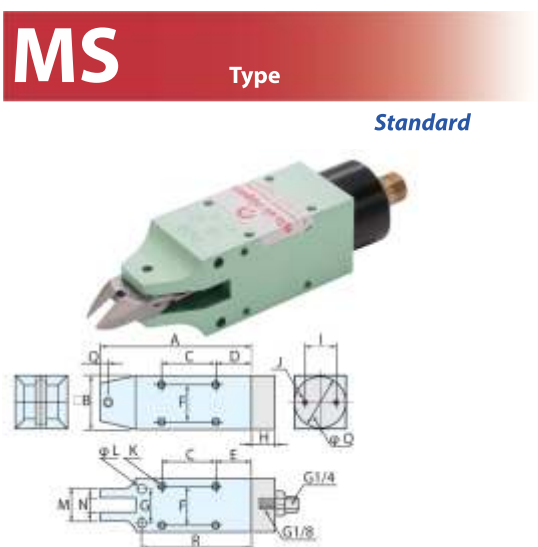
20



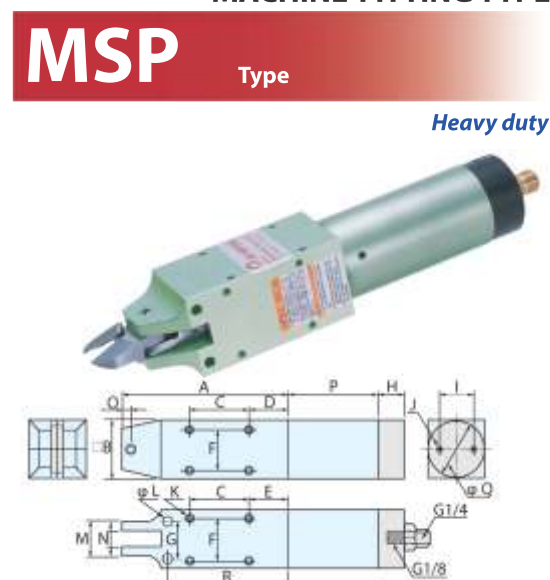
MACHINE-FITTING TYPE



SQUARE AIR CUTTERS



MACHINE-FITTING TYPE





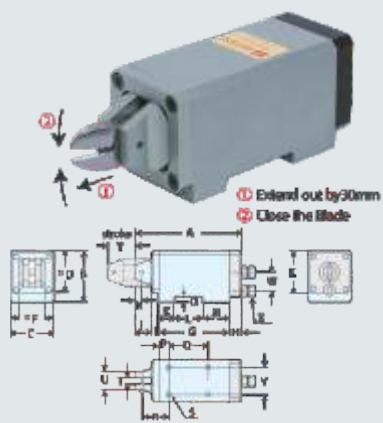
From Japan

Nile Air Nippers

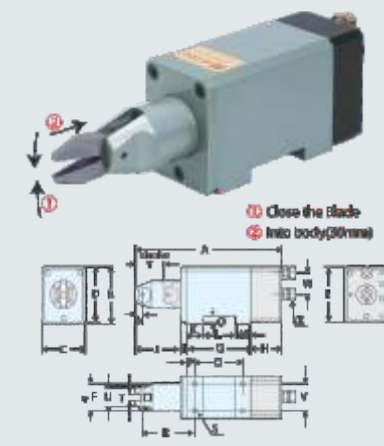
VERTICAL TYPE AIR CUTTERS, SLIDING AIR CUTTERS



CF Type



CL Type

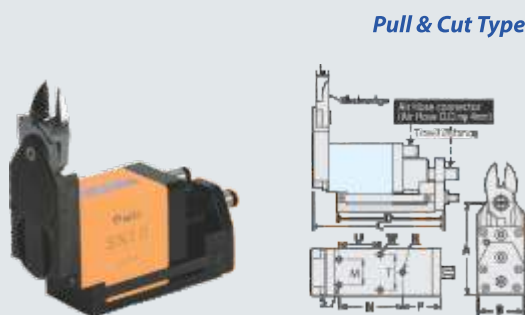


MACHINE-FITTING TYPE

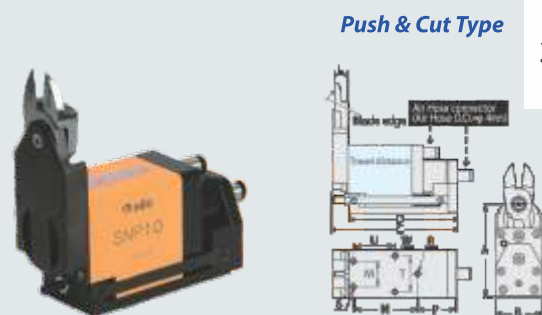
SN TYPE SLIDING AIR CUTTERS



SN Type

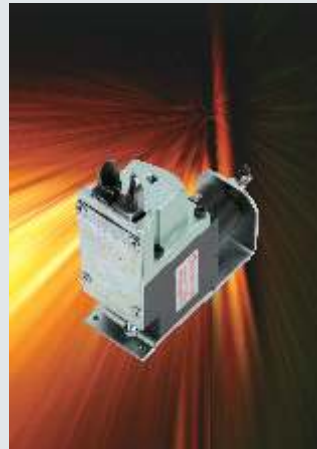


CL Type

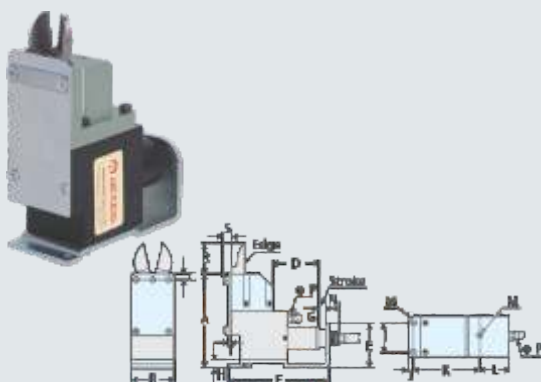


MACHINE-FITTING TYPE

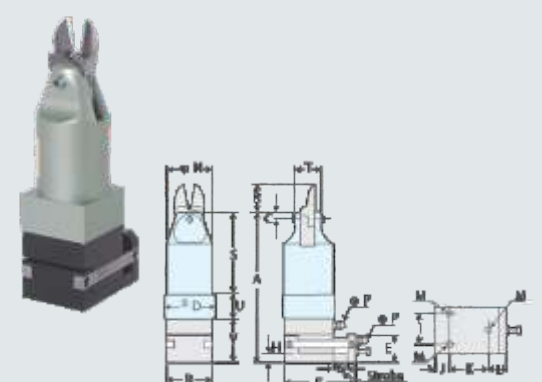
SLIDE & CUT AIR CUTTERS



ME Type



ML Type



MACHINE-FITTING TYPE



Sivenara Engineers
Since 1996



From Japan

Nile Air Nippers

Section of
blade

Single
blade



Standard



Full-flush
round type



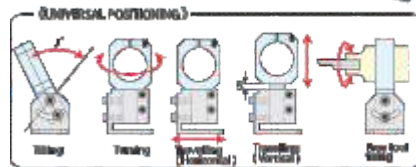
Full-flush
flat type



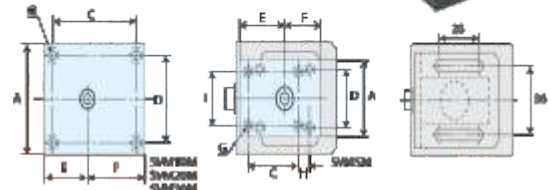
STAND-HOLDER FOOT VALVE TIMING UNIT



SVM Type



SVM-M Type



AIR HEAT CUTTERS



AH Type TRF25 Transformer

Transformer



MACHINE-FITTING TYPE

AH-D Type TRF100D Transformer

Transformer



AIR SHOT-HAMMER



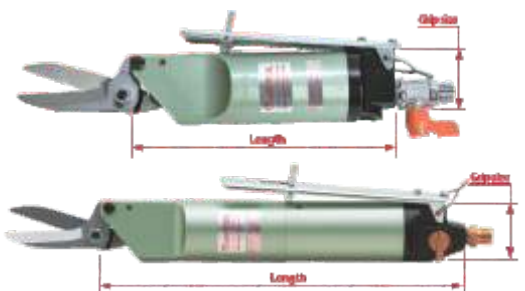
RH25

Single Blow



AS Type

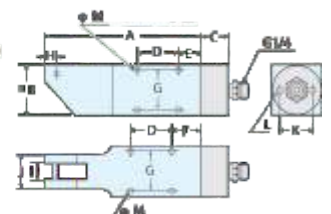
ASP Type



AIR SHEARS AIR PLATE SHEARS AIR MULTI-PURPOSE SCISSORS



AM Type



The Tools Professionals Use

HIT[®] Hand Tools
From Japan

Standard Black Jaw Bolt Cutters

- Features drop-forged high-grade alloy tool steel with precisely heat-treated, precision cutting edges for longer cutting life.
- Suitable for general purpose and designed for cutting medium steel and soft bolts, nuts, chain, etc.
- Recommendable maximum hardness of material to be cut: Brinell 370-Rockwell C40-133-mm2.



High Tensile Red Jaw Bolt Cutters

- Features drop-forged high tensile alloy tool steel with specially heat-treated, precision cutting edges for longer life.
- Suitable for cutting harder materials.
- Recommendable maximum hardness of material to be cut: Brinell 450-Rockwell C48-162 kg-mm2.



Special Silver Jaw Bolt Cutters

- Features drop-forged high tensile alloy tool steel with highly heat-treated, precision cutting short edges with extra treatment on the cutting edges.
- Suitable for heavy duty use.
- Recommendable maximum hardness of material to be cut... Brinell 450-Rockwell C48-162 kg-mm2.



Angular Bolt Cutters

- Angular jaws with clipper-cut knives which have 30 centigrade offset to keep work in view and hands clear of work surface while cutting.
- Recommendable maximum hardness of material to be cut... Brinell 370-Rockwell C40-133 kg-mm2.



Heavy Duty Chain Cutters

- Suitable for heavy duty use and designed for cutting hard, non-alloy chain.
- Short-nosed and high tempered center-cut jaws.
- Recommendable maximum hardness of material to be cut... Brinell 450-Rockwell C48-162 kg-mm2.



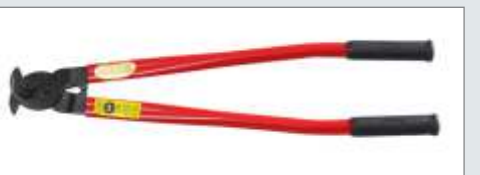
Concrete Mesh Cutters

- Special designed for cutting concrete mesh.
- Recommendable maximum hardness of material to be cut... Brinell 450-Rockwell C48-162 kg-mm2.



Standard Cable Cutters

- Light Weight Cable Cutters
- Drop-forged high grade alloy tool steel jaws, shear cut knives give sharp, clean cut.
- Suitable for cutting soft, non-steel cables such as lead and rubber covered aluminum and copper cable.
- Not for cutting hard cable, ACSR cable, wire rope, steel, guy wire or self-supporting standing strand.



Heavy Duty Wire Rope Cutters

- Notched and shear-cut knives hold and lock cable in cutting position.
- Shear-cut knives give clear and sharp cut.
- Suitable for cutting wire rope, piano wire, steel wire, ACSR cable and aircraft cable.
- Not for cutting stainless steel wire.



Standard Wire Rope Cutters

- Shear-cut knives specially designed for cutting soft and hard cable, wire rope, ACSR cable.



LOBSTER From Japan

Air Riveter AR2000 S/M/H



- Lightweight, with excellent power-to-weight ratio
- Soft-Set shockless technology offers ergonomically correct action to minimize risk of CTDs (cumulative trauma disorders)
- Ultra Jaws for longer life
- Noise-reducing muffler
- Wear-resistant surfaces extend tool life
- Air whip hose can be connected to either side of tool for flexibility in use
- Long stroke

Air Riveter AR011P



- Its novel design and balanced grip reduces fatigue.

Air Riveter ARV015 S/M



- In-line type & Vacuum System
- Ultra Jaws for longer jaw life
- Unique ergonomic in-line vertical design
- Ideal for fixed position assembly line workstations with overhead counterbalance approach
- Integrated vacuum system for mandrel retention and removal to an off-line receptacle
- Able to operate in conjunction with our exclusive ARF-700M auto feeding rivet presenter system

Air Nut Rivet Setter AN200A



- Lightweight spin-pull rivet nut setter
- Sets up to 3/8" (M10) aluminum and steel rivet nuts (see table below)
- Rapid placement sequence
- One stage trigger - only one actuation of trigger spins rivet nut onto threaded mandrel, collapses rivet nut, then reverse spins itself out of completed setting
- Easy stroke adjustment dial
- In case of operator error, activation of unique reverse lever removes screw mandrel from rivet nut without damage or down time
- Wear-resistant surface extend tool life
- Rugged aluminum diecast construction

24

Crimping tool AK15A For non-insulated terminals for copper wire. For non-insulated sleeves for copper wire.



- Smooth handle operation
- Forming check mechanism incorporated into the body. Smart collar design.
- Handle is narrower than on conventional models. (Approx. 20mm when opened.) Handle is easily Operated with one hand while holding the terminal with the other.

Crimping tool AK38A For non-insulated terminals for copper wire. For non-insulated sleeves for copper wire.



- The handle is narrow and weighs less, enabling easy and secure crimping work via minimal handle operation.

CRIMPING TOOL Ak19 (For only Overseas Market)



- For copper wire For non-insulated terminals
- For copper wire For non-insulated sleeves (P-B)

Hydraulic crimping tool AKH150S



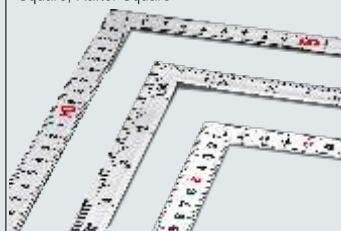
- Terminals can be held and crimped quickly in 1 or 2 squeezes of the handle. Return speed is only 3 seconds.

SHINWA Products



Carpenter's Squares

Carpenter's Square, HC Square rigid, Large Square, Large Caliper, Dressmaking Square, Rafter Square



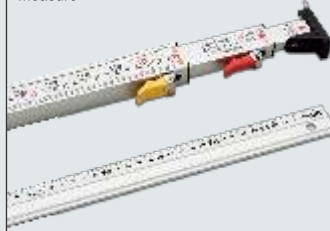
Stainless Steel Rules/ Machine Scale

Stainless Steel Rule, 6-Folding Stainless Steel Rule, Molding Rule, Precision Stainless Steel Rule



Aluminum Rules

Aluminum Rule with Non-slip Pad, Aluminum Cutting Rule, Telescopic Measure, Shaku Measure



Resin Folding Rules/ Bamboo Rules

Folding Rule, Bamboo Rule



Squares/Protractors

Japanese Try Square, Miter Gauge, Japanese Bevel, Try Square Aluminum Base



Vernier Calipers/ Micrometers

Vernier Caliper, Depth Gauge, Micrometer



Tape Measures

Tape Measure, Flat Tape, Spring Tape Measure



Surveying Products

Aluminum Leveling Rod, Construction Black Board



Scales

Scale, Digital Scale, Spring Scale



Levels

Level, Blue Slant, Water Level, Digital Level



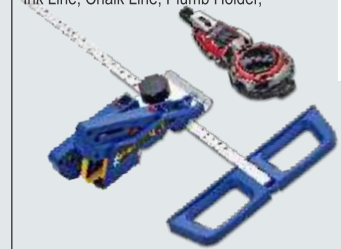
Lasers/Optical Equipment

Laser, Laser Range Finder, Auto level



Inklines/Chalklines/ Plumbholders

Ink Line, Chalk Line, Plumb Holder,



Circular Saw Guides

Circular Saw Guide L Angle, Circular Saw Guide T-slide, Circular Saw Guide I Clamp, Circular Saw Guide Free Angle



Construction Tools

Stud Finder, Appraisal of Steel-fabrication, Log Scriber



Industrial Tools

Scribing Needle, Caliper, Gauge, Counter, Inspection Mirror, Chuck Wrench



Thermometers/Hygrometers/ Environment Measuring Instruments

Thermometer, Hygrometer, Soil pH Meter, Lux Meters, UV Light Meter, Noise Meter



Outdoor Products

Compass Dry, Map Measure



Magnifying Glasses

Reading Glass, Power Magnifier, Sheet Magnifier, Binocular



Drawing Tools

Rule, Erasing Shield, Template, Triangle Scale, Drawing Compass



Magnets

Color Magnet, Pick-up, with handle, Magnetic Sheet Mat



service – 116.01

Techniker Notebook Werkzeugtasche

- 90° aufklappbare Vordertasche mit tool pockets
- herausnehmbare Werkzeugtafel mit tool pockets auf der Vorderseite und loops auf der Rückseite
- gefütterte Innentasche für Notebook und DIN A4 Dokumente und eine weitere Reißverschlusstasche
- verstellbarer Tragegurt mit Schnellverschluss und Schulterauflage
- Lasche an der Rückseite zur Trolleyfixierung
- Spritzwasser geschützter Boden

Technicians Notebook Tool-Bag

- 90° foldable frontbag with tool pockets
- removable tool board with tool pockets at the front and tool loops at the back
- padded compartment for a notebook and documents in A4 format
- adjustable padded shoulder strap with quick fastener
- splashproof bottom

SPEZIFIKATIONEN | SPECIFICATIONS

Innenmaße 440 x 320 x 180 mm | **Außenmaße** 450 x 340 x 200 mm

Volumen 25 l | **Gewicht** 2,2 kg | **Zuladung** 12 kg

Farbe schwarz | **Material** Nylon

internal dimensions 17.3 x 12.6 x 7.1 inch | **external dimensions**

17.7 x 13.4 x 7.9 inch | **volume** 25 l | **weight** 4.9 lbs

max.load 26.5 lbs | **colour** black | **material** nylon

ARTIKEL-NR. | ITEM NO.

116.01

service (23 tool pockets + 2 rows loops)

JUMBO 6700 – 117.19

**Ein Werkzeugkoffer für die ganz harten Jungs!**

Im Inneren des Koffers befinden sich Werkzeugtafeln mit elastischen Werkzeughalteschlaufen. Die Bodenschale ist individuell anpassbar durch das Alu-Trennsteg-System. Aufgrund des Teleskopgriffs ist der JUMBO besonders leicht in der Handhabung.

A tool case for tough guys!

Inside the case you have tool boards with elastic tool loops. The bottom tray can be individually adjusted using the aluminium divider system. The tool case JUMBO is particularly easy to handle due to the telescopic handle.



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SPEZIFIKATIONEN | SPECIFICATIONS

Innenmaße 535 x 360 x 195 mm | **Außenmaße** 610 x 430 x 265 mm
Volumen 38 l | **Gewicht** 9,8 kg | **Zuladung** 35 kg
mögliche Ausstattung pockets (P) | **Farbe** schwarz | **Material** PP

internal dimensions 21.1 x 14.2 x 7.7 inch | **external dimensions**
 24.0 x 16.9 x 10.4 inch | **volume** 38 l | **weight** 21.6 lbs
max. load 77.2 lbs | **possible configuration** pockets (P)
colour black | **material** PP

ARTIKEL-NR. | ITEM NO.

117.19/P

JUMBO 6700 (54 tool pockets + 94 tool loops)



ergonomischer Griff
ergonomic handle



Clipsystem
clip system



leichtgängiger Verschluss
smooth latch



autom. Druckausgleichsventil
auto air pressure compensation valve



Alu-Trennsteg-System
aluminium divider system



Eigentumskennzeichnung möglich
name plate possible



go – 120.04

Werkzeugkoffer aus robustem ABS-Material

Der Werkzeugkoffer go ist aufgrund des Teleskopgriffs besonders leicht in der Handhabung. Er ist mit einem Dokumentenfach im Deckel, zwei herausnehmbaren Werkzeugtafeln und einer variablen Bodenschale mit Alu-Trennsteg-System ausgestattet.

Tool case made of robust ABS-material

The tool case go is particularly easy to handle due to the telescopic handle. Inside the case you have a document pocket in the lid, two removable tool boards and a variable bottom tray with aluminum divider system.

ergonomischer Griff
ergonomic handleBodengleiter
bottom feetMetallschloss
metal lockZahlenschloss
combination lockAlu-Trennsteg-System
aluminium divider systemStoßkantenschutz
rim protection**SPEZIFIKATIONEN | SPECIFICATIONS**

Innenmaße 485 x 370 x 200 mm | **Außenmaße** 515 x 445 x 260 mm
Volumen 36 l | **Gewicht** 6,8 kg | **Zuladung** 30 kg | **mögliche Ausstattung** pockets (P), loops (L), Module (M) | **Farbe** schwarz
Material ABS

Internal dimensions 19.1 x 14.6 x 7.9 inch | **external dimensions** 20.3 x 17.5 x 10.2 inch | **volume** 36 l | **weight** 15 lbs
max. load 66.1 lbs. | **possible configuration** pockets (P), loops (L), modules (M) | **colour** black | **material** ABS

ARTIKEL-NR. | ITEM NO.

120.04/P go pockets (37 tool pockets)
120.04/M go MODUL (9 Module)
120.04/L go loops (111 tool loops)

Hand Deburring Tools



SHAVIV
Leading Deburring Solutions

The **Finishing Touch**

Set F/FR Countersink & Chamfering Tool



F20 Holder F

Compact Tools
Easy to hold, popular compact tools for every-day applications.

GloBurrs



Globurr B
With B10 blade
Red = 155-29153
Yellow = 155-29154



Globurr E
With B10 blade
Red = 155-29153
Yellow = 155-29154



Handy Kit
Assortment of 4 B- or
E-series blades
Kit 4B = 154-90042
Kit 4E = 154-29144

Applications & Tool Selection Guide

Straight Edge For Sets: B, C, E, HC, M, T, Burr-Bi	Flat Surface For Sets: C, D, HC, K, U	Cross-Hole Both Edges For Sets: E, M, T
Outer Edge For Sets: Burr-Ex, L	Slot/Keyways For Sets: G, U	Hole Inner Surface For Sets: C, HC, U
Hole Back-Edge For Sets: C, E, HC, U	Hole Edge For Sets: B, C, E, F, FR, HC, M, U, T	Inner Straight Corners For Sets: U, C



GRINDERS

TVD 3-100/2
100.000 min⁻¹



T3-65 S
75.000 min⁻¹



WRH 10-20/3 S
20.000 min⁻¹



HB 12 S
20.000 min⁻¹



SRD 3-55/2
55.000 min⁻¹



SBRD 820
20.000 min⁻¹



WRD 6-20/2 ZL 45
20.000 min⁻¹



FLEXIBLE SHAFTS

MBF 30



30

BURRING TOOLS

BE 309
0 - 900 min⁻¹



BEW 309 E
0 - 900 min⁻¹



BE 805
0 - 500 min⁻¹



BE 1005
0 - 550 min⁻¹



BEW 606 K
0 - 600 min⁻¹



FILES & SAWS

FLV 8 -12 F
12.000 min⁻¹
Stroke length 4-9



PS 3
12.000 min⁻¹
Stroke length 8



PS 25
6.000 min⁻¹
Stroke length 25



PLF 90
12.000 min⁻¹
Stroke length 8



PS 2
12.000 min⁻¹
Stroke length 8





TUNGSTEN CARBIDES TOOLS

TCB 1206-63



TCC 0806-63



TCD 1206-63



TCF 1206-63



TCG 1216-03



SCREWDRIVERS

GAF 205
500 min⁻¹



GAS 205
500 min⁻¹



GAF 305
650 min⁻¹



ROBOT TOOLS

T 27 - 65
65.000 min⁻¹



R 4102
22.000 min⁻¹



Modularsystem
16.000 -
100.000 min⁻¹



R 36 22
20.000 min⁻¹



RWA 2 - 30
30.000 min⁻¹



BE 805 R
500 min⁻¹



SCRAPERS

BL 40
1.800 min⁻¹
Stroke length 0-20



Impact Wrenches

U-135



3/8" (9.5mm) sq.drive Impact Wrench

Single-hammer clutch
4-step speed regulator built-in

U-845



1/2" (12.7mm) sq.drive Impact Wrench

Pin clutch
4-step speed regulator built-in

U-P6



3/8" Impact Wrench

U-P6L



Double Hammer

1/4" Impact Screwdriver

U-170T



1/2" (12.7mm) sq.drive Impact Wrench

Twin-hammer clutch
4-step speed regulator built-in
Comfortable grip of composite resin



TWIN HAMMER CLUTCH

- High torque
- High durability

U-1350S



1" (25.4mm) sq.drive Impact Wrench

with short anvil. Pinless single hammer clutch
3-step speed regulator



PIN CLUTCH

Less vibration
Quick action to max. torque



SINGLE HAMMER CLUTCH

High durability (at high torque)

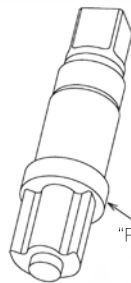


U-TOOLS' Single Hammer Clutch (U-1350S)

Improved anvil with "RIB" increases the strength of hammer components by 30%, which enables high durability.



Conventional without "RIB"



Improved with "RIB"

U-156



3/4" (19mm) sq.drive Impact Wrench

Pin clutch
4-step speed regulator built-in

21

Model	Square Drive (mm)	Bolt Cap. (mm)	Max. Torque (N-m)	Air Cons. (L/ min) (no load)	(load)	Speed (no load) (rpm)	Air Inlet (PT)	Weight (kg)	Overall Length (mm)	Height (mm)	Anvil Length (mm)
U-135	9.5	10	100	380	320	9,000	1/4PT	1.33	136	164	15
U-845	12.7	16	450	480	350	7,000	1/4PT	2.26	187	185	26

Model	Square Drive (mm)	Bolt Cap. (mm)	Torque range (N-m)	Air Cons. (L/min)	Speed (rpm)	Air Inlet (PT)	Weight (kg)	Length (mm)
U-P6	9.5	6~8	50-122	340	7,000	1/4	1.5	140

Model	Screw capacity (mm)				Air Cons. (L/min)	Speed (rpm)	Air Inlet (PT)	Weight (kg)	Length (mm)
	Standard	tapping	wood	bolt					
U-P6L	6~8	4~4.5	3.5~4.5	6~8	340	7,600	1/4	1.47	154

Model	Square Drive (mm)	Bolt Cap. (mm)	Max. Torque (N-m)	Air Cons. (L/ min) (no load)	(load)	Speed (no load) (rpm)	Air Inlet (PT)	Weight (kg)	Overall Length (mm)	Height (mm)	Anvil Length (mm)
U-170T	12.7	16	900	530	380	7,000	1/4PT	2.20	195	195	24
U-156L	19	25	900	680	400	5,300	1/4PT	3.80	253	215	65
U-1350S	25.4	38	2,000	1,280	1,000	3,500	1/2	9.3	360	175	43

Ratchet Wrenches

U-1901



- 3/8" (9.5mm) sq.drive Mini Ratchet**
- ① Highly durable by "U-GUIDE" device.
 - ② Equipped with 3-step speed regulator.

U-1902



- 3/8" (9.5mm) sq.drive Mini Ratchet**
- ① "U-GUIDE" built-in.
 - ② soft grip.

"U-GUIDE" device for U-1901 & U-1902



- Solution to the structural problem of ratchet
- Special finish made on York teeth (US patent)
- Minimum slippage of Anvil Shank and York
- Minimum wearing of York teeth and Anvil Shank
- Stability of torque and rotation
- Minimize the damages of screws
- Additional fastening by hand is available

3-step SPEED REGULATOR for U-1901



U-220



- Through Ratchet**
- 17mm hex.drive
 - Sockets 8mm,10mm,12mm,14mm are available as optional accessories.

U-225



- Through Ratchet**
- 19mm hex.drive
 - Sockets 17mm, 19mm, 21mm are available as optional accessories.

Model	Sq./Hex. (mm)	Drive Speed (no load) (rpm)	Torque (N-m)	Air Cons. (no load)	Air Inlet (PT)	Weight (kg)	Overall Length (mm)	Housing Width (mm)	Housing Height (mm)
U-1901	9.5	250	20	350	1/4PT	0.63	192	31	32
U-1902	9.5	250	20	350	1/4PT	0.50	165	31	32
U-220	8.10.12.14	450	30	350	1/4PT	0.58	210	29	22
U-225	17.19.21	350	30	350	1/4PT	0.80	250	36	30

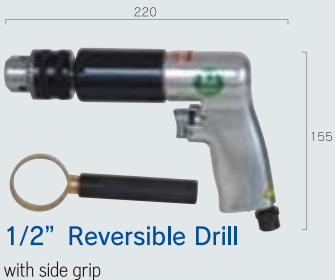
Drills & Screwdriver

U-590



- 3/8" Drill**
- 10mm cap.

U-527



- 1/2" Reversible Drill**
- with side grip

U-500AHR



- 3/8" Angle-head Reversible Drill**
- 10mm cap.

U-810



- Screwdriver**
- 1/4" (6.35mm) hex.drive

Model	Chuck cap. (mm)	Speed (no load) (rpm)	Air Cons. (L/min)	Air Inlet (PT)	Hex.drive (mm)	Screw Capacity (mm)	Torque (N.m)	Weight (kg)	Overall Length (mm)	Height (mm)
U-590	10	2,400	470	1/4PT	-	-	-	1.18	178	145
U-527	13	480	470	1/4PT	-	-	-	1.60	220	155
U-500AHR	10	1,200	360	1/4PT	-	-	-	1.27	208	100
U-810	-	1,800	600	1/4PT	6.35	6	12	1.16	205	155

Screwdrivers & Tapper

U-810-8



Low-speed Screwdriver
1/4" (6.35mm)hex.drive
High torque

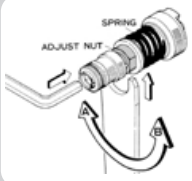
U-830



Screwdriver, straight
1/4" (6.35mm) hex.drive

How to change torque;

- ① Disassemble Housing
 - ② Take two wrenches from the box.
 - ③ Adjust torque as shown.
- Turn to "A" : High torque
Turn to "B" : Low torque



U-10TP



Air Tapper (3.8" Drill)

Model	Chuck cap. (mm)	Speed (no load) (rpm)	Air Cons. (L/min)	Air Inlet (PT)	Hex.drive (mm)	Screw Capacity (mm)	Torque (N.m)	Weight (kg)	Overall Length (mm)	Height (mm)
U-810-8	-	800	600	1/4PT	6.35	8	15	1.35	205	155
U-830	-	1,800	420	1/4PT	6.35	6	12	1.15	250	43

Die Grinders

U-125



1/4" Mini Die Grinder
Safety lever throttle
with 6mm or 6.35mm collet
& speed regulator

U-125AH



1/4" Angle Die Grinder
Safety lever throttle
with 6mm or 6.35mm collet
& speed regulator

U-1625R



Heavy Duty Die Grinder
Rotary throttle
with 6mm or 6.35mm(1/4") collet

U-130C



1/4" Die Grinder
Safety lever throttle
Rear air exhaust
with 6mm or 6.35mm collet
& speed regulator

U-130D



1/4" Long Die Grinder
Rear air exhaust
Lever throttle
with 6mm or 6.35mm collet
& speed regulator

U-1362



Micro Grinder

U-1635



Pencil Grinder
Rotary throttle
with 3mm and 6mm collets

U-1625RL



Heavy Duty Long Die Grinder
Rotary throttle with 6mm or 6.35mm(1/4") collet

Model	Collet Size (mm)	Speed (no load) (rpm)	Air Cons. (L/min)	Air Inlet (PT)	Weight (kg)	Overall Length (mm)	Height (mm)	Noise Level (dBA)
U-125	Ø6	27,000	380	1/4PT	0.30	120	32	86
U-125AH	Ø6	20,000	380	1/4PT	0.42	123	73	86
U-1625R	Ø6	25,000	300	1/4PT	0.62	180	37	86
U-130C	Ø6	22,000	450	1/4PT	0.57	168	41	91
U-130D	Ø6	4,500	450	1/4PT	0.73	200	41	91
U-1635	Ø3.6	35,000	180	1/4PT	0.24	146	26	75
U-1625RL	Ø6	25,000	300	1/4PT	0.95	335	37	86

Model	Collet Size (mm)	Nos. of strokes (bpm)	Position stroke (mm)	Speed (No load) rpm	Air Cons. (L/min)	Air Inlet (inch PT)	Net Weight (kg)	Length (mm)	Noise (dBA)
U-1362	3	-	-	56,000	170	1/4	0.24	135	76

Grinders & Sanders

U-102GR



Mini Angle Grinder
Rotary throttle with pad 50mm dia. & speed regulator

U-102GL



Mini Angle Grinder
Lever throttle with pad 50mm dia. & speed regulator

U-103GR/GL



2" Mini Angle-head Disc Grinder.

U-104GR



4" Disc Grinder
Rotary throttle for 100mm grinding disc

U-104GL



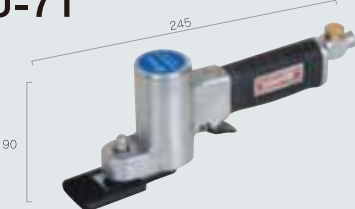
4" Angle-head Disc Grinder lever throttle

U-120



20mm Belt Sander

U-71



Tip Sander
with standard pad 40mm W. & speed regulator

U-556



5" Double Action Sander
with pad 123mm dia. & speed regulator

U-5901



3" Paper Sander
with pad (17mm I.D.,70mm O.D.) & speed regulator
Max. paper size: 4" (100mm)

U-580



7" Angle Sander
with pad 175mm dia. & side grip

U-310

Air Saw/filer



Code: 4381
Swivel Air Regulator



Air Regulator
Code: 4362

Model	Disc/Paper Size (mm)	Speed (no load) (rpm)	Air Cons. (L/min)	Air Inlet (PT)	Weight (kg)	Overall Length (mm)	Height (mm)	Noise Level (dBA)
U-102GR	Ø50	22,000	400	1/4PT	0.51	145	68	80
U-102GL	Ø50	22,000	410	1/4PT	0.53	135	68	80
U-104GR	Ø100	12,000	280	1/4PT	1.30	207	192	92
U-5901	Ø100	18,000	380	1/4PT	0.95	107	180	90
U-580	Ø175	4,800	380	1/4PT	2.05	325	100	95

Model	Pad Size (mm)	Speed (no load) (rpm)	Orbit Dia. (mm)	Air Cons. (L/min)	Pad Screw Size (mm)	Air Inlet (PT)	Weight (kg)	Overall Length (mm)	Height (mm)	Noise Level (dBA)
U-71	40x86	10,000	3	280	-	1/4PT	0.71	245	90	83
U-556	Ø123	11,000	6	400	5/16-24UNF	1/4PT	1.70	265	120	80

Model	Disc/Collet Size (mm)	Speed (rpm)	Air Cons. (L/min)	Air Inlet (PT)	Weight (kg)	Length (mm)	Recomm. Pressure (Mpa)	Noise (dBA)
U-103GR/GL	50	12,500	540	1/4PT	0.54/0.59	160	0.6	85
U-104GL	100	12,000	680	1/4PT	1.4	207	0.6	92

Model	Belt Size (mm)	Nos of strokes (bpm)	Piston stroke (mm)	Speed (no load) rpm	Air Cons. (PT)	Air Inlet (inch PT)	Net Weight (kg)	Length (mm)	Noise (dBA)
U-120	20x520	-	-	17,000	450	1/4PT	1.4	385	91
U-310	-	9,000	10	-	150	1/4PT	0.64	236	78



7" Angle Grinders

DAG-70G-1



- Super light type
- Super light as a 7 inch grinder
- Easy workable with one hand
- Safety Roll type on the Throttle Valve
- Over-speed controller (Governor) equipped

Grinding Wheel Size for Wheel Flange		
GrinderWheel	Nut Flange O/DGrinding	Wheel Size
7 inch	22.0 mm	180 X 3(8) X 22.23 mm

Model	Capacity (wheel size)		Max free speed	Max. power	Lenght		Weight (without wheel)		Thread air inlet	Average air consumption		Recommended air pressure	
	in	mm	rpm	ps	in	mm	lb	kg	in	ft ³ /min	m ³ /min	PSI	kg/cm ²
DAG-70G-1	7	180	7,600	1.3	9.48	241	5.22	2.37	PT 3/8	33	0.9	85	6

4" Angle Grinders

DAG-100SP



- Exhaust air direction 90 degree (right-hand side)
- On and Off valve by Roll type



Grinding Wheel Size for Wheel Flange		
GrinderWheel	Nut Flange O/DGrinding	Wheel Size
4 inch	15.8 mm	100 X 3(6) X 15.88 mm

Model	Capacity (wheel size)		Max free speed	Max. power	Lenght		Weight (without wheel)		Thread air inlet	Average air consumption		Recommended air pressure	
	in	mm	rpm	ps	in	mm	lb	kg	in	ft ³ /min	m ³ /min	PSI	kg/cm ²
DAG-100SP	4	100	11,000	0.7	8.2	210	3.4	1.55	PT 1/4	22	0.6	85	6
DAG-100LP	4	100	11,000	0.7	8.8	225	3.4	1.55	PT 1/4	22	0.6	85	6

5" Angle Grinders (Light Type)

DAG-5LX



- Attachable "4 or 5" inch grinding wheel
- Protection from hazard by the safety lever
- Easy operation at the corner with a slim protector
- Safety Roll type on the Throttle Valve
- Exhaust air direction 45 degree front side
- For overseas Exports

Grinding Wheel Size for Wheel Flange		
GrinderWheel	Nut Flange O/DGrinding	Wheel Size
4 / 5 inch	15.8 mm	100 X 3(6) X 15.88 mm

Model	Capacity (wheel size)		Max free speed	Max. power	Lenght	Height	Weight (without wheel)	Thread air inlet	Average air consumption		Recommended air pressure		Adaptor	Method ON, OFF	Exhaust
	in	mm	rpm	ps	mm	mm	kg	in	ft ³ /min	m ³ /min	PSI	kg/cm ²	O / X		
DAG-5LX	5	125	11,000	0.7	225	83.5	1.42	PT 1/4	23.8	0.65	85	6	O	SAFETY LEVER	90° RIGHTSIDE

DIE Grinders

DG-38S



- Light duty operation such as a polishing, burr removing etc.
- Available 3.0 mm shaft assembled with various carbonated tools by a special Bushing

Ø3mm Bushing (Option)



Model	Capacity (wheel size)		Max free speed	Lenght		Weight (without wheel)		Thread air inlet	Average air consumption		Recommended air pressure	
	in	mm	rpm	in	mm	lb	kg	in	ft ³ /min	m ³ /min	PSI	kg/cm ²
DG-38S	-	6(3)	25,000	6.45	164	1.25	0.57	PT 1/4	10.7	0.3	85	6



DIE Grinders

DGS-38L



- Due to a silencer installed, noise controlled
- Less than 90dB



(※ Only DGS-38L, DGS-38S)

Model	Capacity (wheel size)		Max free speed	Lenght		Weight (without wheel)		Thread air inlet	Average air consumption		Recommended air pressure	
	in	mm	rpm	in	mm	lb	kg	in	ft ³ /min	m ³ /min	PSI	kg/cm ²
DGS-38L	-	6(3)	22,000	6.45	164	1.25	0.57	PT 1/4	10.7	0.3	85	6

DIE Grinders

DSG-25HC



- Collet type (6 mm or 8 mm adaptable)
- Easy operation at the corner or deep place

Model	Capacity (wheel size)		Max free speed	Lenght		Weight (without wheel)		Thread air inlet	Average air consumption		Recommended air pressure	
	in	mm (φ)	rpm	in	mm	lb	kg	in	ft ³ /min	m ³ /min	PSI	kg/cm ²
DSG-25HC	-	6 or 8	18,000	11.88	302	3.17	1.44	PT 1/4	21.1	0.6	85	6

Micro Grinders

Pencil Grinder - DMG-3BSA



- Small size and Multi-stage axial turbin system
- Super high speed (100,000 rpm)
- High durability because of no friction between each part
- Safety Roll type on the Throttle Valve
- Good performance with high power
- Low trouble due to smooth On/Off valve
- Front exhaust

Turbine Type Micro Grinder - DT-1000

- Long lifetime and pleasant operation condition with a silencer
- Good operation with the strong power
- Low operators fatigue
- Rear exhaust



Model	Capacity (wheel size)	Max free speed	Lenght	Weight (without wheel)		Thread air inlet	Average air consumption		Recommended air pressure	
	mm	rpm	mm	lb	kg	in	ft ³ /min	m ³ /min	PSI	kg/cm ²
DT-1000	3	100,000	145	0.55	0.25	PT 1/8	7.1	0.2	85	6
DMG-3BSA	3	65,000	182	0.25	0.11	PT 1/8	7.1	0.2	85	6

Drill

Drill - DR-8RH



- Attachable the 3/8" drill chuck
- One hand control of rotating direction using a reverse lever

Drill - DRS-4R

- Straight type drill
- Easy control of rotation direction using a rotation control button
- Attachable the 3/8" drill chuck



Model	Capacity (drill size)		Free speed	Spindle thread	Lenght Weight Hose size				Thread air inlet			Average air consumption		Recommended air pressure	
	mm	in	r.p.m	in	mm	in	kg	lb	in	mm	in	ft ³ /min	m ³ /min	PSI	kg/cm ²
DR-8RH	10	3/8	1,800	3/8	200	7.87	1.1	2.42	PT 1/4	9.5	3/8	10.7	0.3	85	6
DRS-4R	6.35	1/4	2,500	3/8	225	8.85	0.6	1.42	PT 1/8	6.35	1/4	10.7	0.3	85	6



Chipping Hammer / Needle Scaler

Chipping Hammer, Needle Scaler

DNH-16 & DNH-16S



DCH-24

- Widely used for removing the scales after welding, sanding after casting and cutting process
- Short rising time and high power even light weight



- Shock absorbing rubber covered
- Widely used for removing the scales after welding, sanding after casting and cutting process
- Short rising time and high power even light weight

Model	Chisel shank	Blow	Weight	Lenght	Average air consumption	Recommended air pressure	Thread air inlet (in)
DCH-24	10.0 mm	4,000 b/min	0.80 kg	164 mm	0.2 m ³ /min	6 kg/cm ²	PT 1/4
DNH-16	ø 3.0 X 180 mm	6,000 b/min	0.94 kg	200 mm	0.16 m ³ /min	6 kg/cm ²	PT 3/8
DNH-16S	ø 3.0 X 180 mm	6,000 b/min	0.94 kg	200 mm	0.16 m ³ /min	6 kg/cm ²	PT 3/8

Screw Drivers - Cushion Clutch Type

DS-4L



- Safety due to the cushion clutch even the overload state
- Widely used in fastening or removing the screw

DS-5L



- Safety due to the cushion clutch even the overload state
- High torque operation because of adjustable the torque by an air regulator

Model	Bit size	Free speed	Torque	Lenght		Weight (without wheel)		Thread air inlet	Hose size		Average air consumption	Recommended air pressure
	mm	rpm	kg - cm	in	min	lb	kg	in	in	mm	m ³ /min	kg/cm ²
DS-4L	5	2,000	10~25	7.71	196	1.32	0.6	PT 1/4	1/4	6.35	0.2	5
DS-5L	6.35	1,400	20~40	10.15	258	2.42	1.1	PT 1/4	1/4	6.35	0.2	5

Screw Drivers Auto Shut off Type

DS-4TS-10



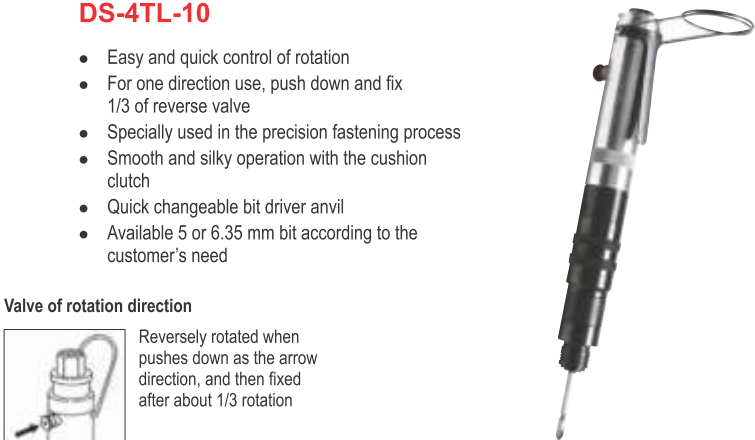
- Easy and quick control of rotation direction
- Providing a firm torque because the auto shut-off clutch
- shuts down the air supply when a set torque is accomplished
- Specially used in the precision fastening process
- Quick changeable bit driver anvil
- Available 5 or 6.35 mm bit according to the customer's need

Torque control



Torque is increased by turning the cross type driver clockwise

DS-4TL-10



- Easy and quick control of rotation
- For one direction use, push down and fix 1/3 of reverse valve
- Specially used in the precision fastening process
- Smooth and silky operation with the cushion clutch
- Quick changeable bit driver anvil
- Available 5 or 6.35 mm bit according to the customer's need

Valve of rotation direction



Reversely rotated when pushes down as the arrow direction, and then fixed after about 1/3 rotation

Model	Bit size	Free speed	Torque	Lenght		Weight (without wheel)		Thread air inlet	Hose size		Average air consumption	Recommended air pressure
	mm	rpm	kg - cm	in	min	lb	kg	in	in	mm	m ³ /min	kg/cm ²
DS-4TS-10	5 or 6.35	1,200	5~20	9.44	240	1.4	0.6	PT 1/8	1/4	6.35	0.32	6
DS-4TL-10	5 or 6.35	1,200	5~30	9.44	240	1.4	0.6	PT 1/8	1/4	6.35	0.32	6

Retainer sleeve
Bit is changeable by pulling forward the retainer sleeve



1" Impact Wrench (Light Type)

New **NEW PRODUCT**

DIW-25HP / 25HPA

DIW-19P (3/4")



- Loosening strength is higher 15% more than the other direction
- Magnesium alloy material enable 30% lighter weight than aluminum casing
- Unique shape and lightness reduce worker's fatigue and prevent musculoskeletal disorder
- 1" & 3/4" Anvil be easily exchangeable
- Attached Air regulator improves job skills



Model	Hex size		Bolt size	Max torque	Lenght		Weight	Thread air inlet	Average air consumption		Recommended air pressure	
	mm	in	size	kg . m	mm	in	kg	in	ft ³ /min	m ³ /min	PSI	kg/cm ²
DIW-25HP	25	1	M24~M32	100	226	8.9	5	PT 3/8	56.5	1.6	85	6
DIW-25HPA	19	3/4	M18~M30	100	226	8.9	5	PT 3/8	56.5	1.6	85	6
DIW-19P	19	3/4	M18~M22	70	5,500	230	9.05	4	PT 1/4	0.9	85	6



Impact Wrenches

DIW-13P (1/2")

DIW-14N (1/2")

DIW-8PA (1/2")



- Specially used in the field of automobile assembly line or maintenance
- Double hammer type

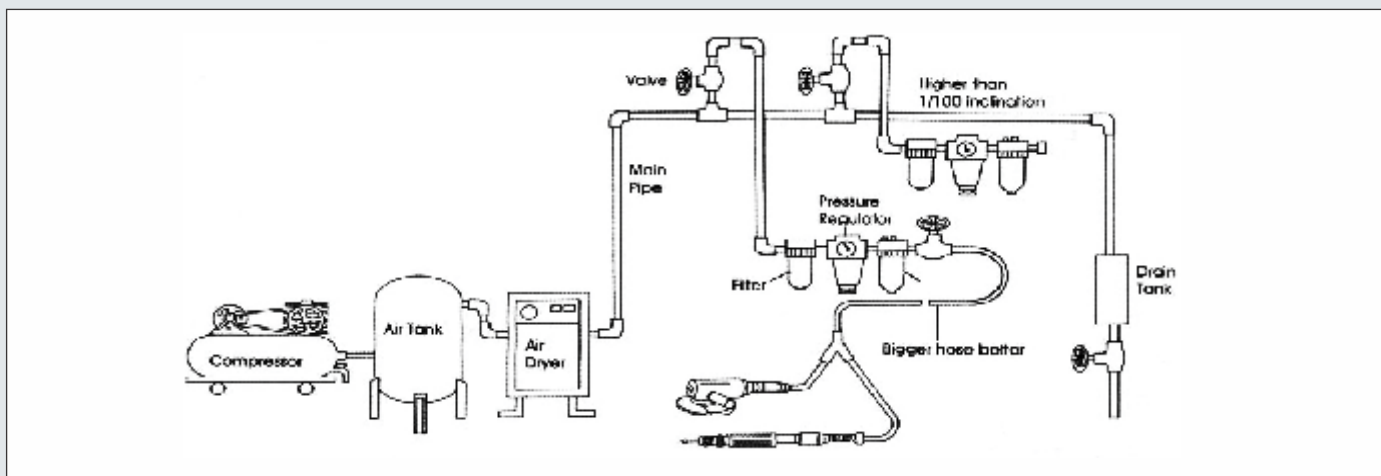


- Specially used in the field of automobile & motorcycle assembly line or maintenance
- Double hammer type

Model	Hex size		Bolt size	Max torque	Free speed	Lenght		Weight	Thread air inlet	Average air consumption	Recommended air pressure	
	mm	in	size	kg.m	rpm	mm	in	kg	in	m ³ /min	PSI	kg/cm ²
DIW-8PA	12.7	1/2	M8~M10	38	7,500	160	6.29	1.6	PT 1/4	0.4	85	6
DIW-13P	12.7	1/2	M12~M16	68	4,800	202	7.95	2.8	PT 1/4	0.4	85	6
DIW-14N	12.7	1/2	M12~M16	54	7,200	184	7.24	2.8	PT 1/4	0.7	85	6



Recommended Arrangement of Air Piping



Rectus Mold Couplings
for tempering and cooling.



PRODUCT RANGE : MOULDING

Mold Couplings



Hoses



Accessoires/Fittings/Adaptors



Safety Couplings



Quick Coupling Systems for Pneumatic and Fluid Handling for

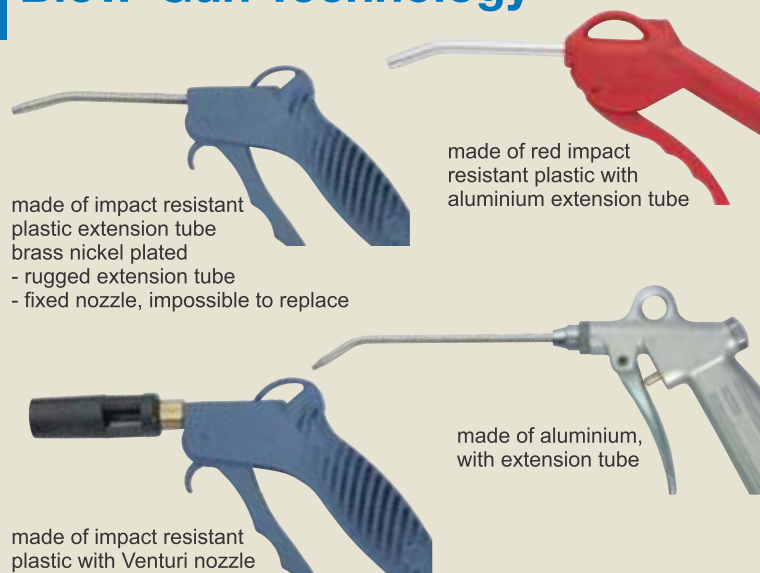
Aerospace climate control electromechanical filtration fluid &
gas handling hydraulics pneumatics process control
sealing & shielding



40

RECTUS Accessories – Blow-Guns

Blow-Gun Technology



Hose Cutter

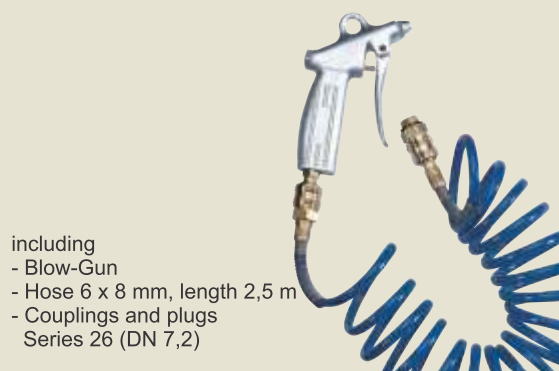


(up to outside Diameter 14 mm)



Bend protection

Couplings and nipples are supplied with plastic bend protection – this provides lasting protection against the hose snapping.



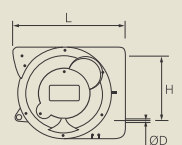
Hose Reels

10 m

Light series hose reel, 10 m

Transair®	ØD	Hose i.d. (mm)	Max. Pressure(bar)	H	L
6698 10 01	11,5	7,5	12	251	300

Enclosed case
Hose clutch with free return
Outlet connection G1/4 male



Advanced Pipe systems for Industrial Fluids For Compressed Air - Vacuum - Natural Gases



Push-In Fittings

LF 3000® LF 3600
LF 3200: 3 mm LF 3800/LF 3900
LIQUIfit® LF 6100



Cartridges and Customised Products

Polymer: Carstick® & Quick Fitting
Metal: LF Cartridges & TL Fittings
Customised Products



Technical Tubing and Hose

Flexible Calibrated Tubing Calibrated Braided Hose
Calibrated Multi-Tubing Accessories
Recoil Tubing and Hose



Function Fittings

Flow Control Regulators Pressure Fittings
Piloted Function Fittings Other Function Fittings
Non-Return Valves & **LIQUIfit®** Silencers



Industrial Valves

Ball Valves & **LIQUIfit®**
Needle & Butterfly Valves
Axial Valves



Industrial Blowguns

Polymer
Metal
Kits



Compression Fittings

Brass Compression Fittings
Stainless Steel Compression Fittings
PL Nickel-Plated Brass Spigot Fittings



Quick-Acting Couplers

Polymer: C 9000 Safety
Metal: Nickel-Plated Brass
and Stainless Steel



Adaptors and Manifolds

Adaptors: Brass, Nickel-Plated Brass,
Stainless Steel Manifolds



Industrial Valves

Ball Valves, LIQUIfit®



Needle Valves, Brass



Axial Valves



FRLs. automatic drains and accessories

Transair® FRLs are ideal for general purpose use and can be fitted downstream of the compressed air installation and at the take-off point on workstations and machines.

- > Air quality at FRL inlet : dry, damp, lubricated
- > Transair® FRL products are guaranteed silicone free
- > Chemical resistance to compressor oils
- To convert Nm³/h to cfm use a coefficient of 0.588



Filter regulator lubricator set

Transair®	C	Recommended flow	Bowl capacity	Max. inlet pressure	Max. outlet pressure	T°C at IO bar	Filtration	Associated gauge
6707 00 13	G1/4	33m ³ /h	22cm ³	16 bar	8 bar	0°C to +50°C	30 m	6798 00 05
6707 00 21	G1/2	114m ³ /h	50cm ³	16 bar	8 bar	0°C to +50°C	30 m	6798 00 06

Semi-automatic condensate drainage



Unibor EQ35N

FEATURES:

Powerful new hi-torque motor
Integral QuickHitch arbor
(can also be supplied with a
standard arbor)
Automatic integral oilfeed

SPECIFICATIONS:

Cutter capacity: 12 - 35mm	Length: 290mm
Twist drill capacity: 13mm (stub drill)	Height: 350mm
Chuck capacity: 1/2 (adapter)	Width: 125mm (185mm inc. handle)
No load speed: 450 rpm	160 x 80mm
Stroke: 156mm	Weight: 11.5 kg
Power consumption: 1100w	Voltage: 110 or 220-240v
Clamping force: 7845N (800kg)	



Unibor EQ50

FEATURES:

QuickHitch 2MT arbor
2 geared speeds
Automatic integral oilfeed

SPECIFICATIONS:

Cutter capacity: 12 - 50mm	Length: 350mm
Twist drill capacity: 19mm (No 2 MT)	Height: 460mm
Chuck capacity: 5/8	Width: 125mm (185mm inc. handle)
No load speeds: 280/500 rpm	180 x 100mm
Stroke: 106mm	Weight: 18.5 kg
Power consumption: 1150w	Voltage: 110 or 220-240v
Clamping force: 9300N (950kg)	



Unibor EQ100

FEATURES:

QuickHitch 3MT arbor
2 variable speeds
Overload protection
Automatic integral lubrication

The EQ100S features a base which swivels through 100 degrees for access in difficult areas.

SPECIFICATIONS:

Cutter capacity: 12 - 100mm	Length: 360mm
Twist drill capacity: 32mm (No 3 MT)	Height: 500mm
Chuck capacity: 3/4	Width: 145mm (260mm inc. handle)
No load speeds: 50-130/160-450 rpm	220 x 110mm
Stroke: 240mm	Weight: 26 kg
Power consumption: 1850w	Voltage: 110 or 220-240
Clamping force: 18,150N (1860kg)	

Includes: Integral oilfeed system, Warranty, Carrying case, Allen keys, Safety strap & guard, Cutting Oil.



Unibor A100

FEATURES:

Powerful 4 speed AEG motor
3MT arbor
Safety interlocked controls.

SPECIFICATIONS:

Cutter capacity: 12 - 100mm	Length: 360mm
Twist drill capacity: 32mm (No 3 MT)	Height: 500mm
Chuck capacity: 5/8	Width: 145mm (260mm inc. handle)
No load speeds(rpm): 220/260/350/420	220 x 110mm
Power consumption: 1200w	Weight: 25 kg
Stroke: 135mm	Voltage: 220-240v only
Clamping force: 18,150N (1860kg)	

INCLUDES: Warranty, Carrying case, Allen keys, Safety strap & guard, Cutting Oil.

The A100S features a base which swivels through 100 degrees for access in difficult areas.

Potable Magnetic Core Drilling - for Heavy Steel Structural / Machine Tools Builders



Drilling Capacity

- ◆ 12mm to 35mm ◆ 12mm to 75mm
- ◆ 12mm to 50mm ◆ 12mm to 110mm

- Tapping capacity upto 30mm for plate thickness 10mm to 100mm
- Superlight Portable Single Phase Powered Machines
- Corecutters / Broach Cutter / TCT / HSS Hole saw TCT cutters

Broach Cutters

META-CORE MAX



- High-precision speed drilling through thick steel plate. Overlap drilling also possible.
- Include unique Unika technology such as 3-angle cutting edges (2-angles for 17mm diameter cutters or less). Low chance of premature tip damage for stable cutter life.
- Quick release cutter mounting and removal.
- For Heavy Metal plate drilling



Effective Length	25 mm (MAX25) / 35 mm (MAX35) 50 mm (MAX50)
Applicable Electric Tool	Magnetic Drilling Machine

T.C.T Hole Saw

META-CORE

- T.C.T. hole saw standard type.
- Adopting the step center drill dampens impacts that occur when the center drill passes through.
- Adopting the "10 mm/13 mm chuck combination shank," allows for most drill chuck diameters.
- For Sheet metal application
- ⚠ Cannot be used with drilling machines.



Effective Length	4.5 mm (Cutter Body Depth: 12 mm)
Applicable Electric Tool	Electric Drill / Percussion Drill (rotating mode)

T.C.T Hole Saw

META-CORE TRIPLE

- 3-ply cutters reducing tip crack even with hard use. Realizes light and speedy drilling and long lifetime.
- The 25mm effective depth enables drilling ranging from thick steel plate to curved face drilling in thick metal pipes.
- Adopts the step center drill that dampens impacts that occur when the center drill passes through.
- ⚠ When drilling a metal plate with a thickness of 10 mm or more, use the center drill (STR-6) [option].



Effective Length	25 mm (Cutter Body Depth: 25 mm)
Applicable Electric Tool	Electric Drill / Drilling Maching

T.C.T Hole Saw

META-CORE TRIPLE

- Without a stopper (collar), added depth of cut is possible.
- 3-ply cutters reduce tip cracks even with hard use.
- The 35mm effective depth enables drilling materials such as thick steel plates, curved surfaces of metal pipes having heavy large wall thickness etc.
- For pipe Drilling



Effective Length	35 mm (Cutter Body Depth: 37 mm)
Applicable Electric Tool	Electric Drill / Drilling Maching

Single-function Core Drill

E&S DC Type

- Capable of drilling reinforced concrete (cutting up to triple-reinforcement) by dry process without using water.
- Center pin positions only to reduce vibration and noise.
- Uses "10 mm/13 mm chuck combination shank" allowing most drill chucks.
- SDS shanks are also available at the same price.
- *Use water for cooling the cutting edge when drilling ceramic tiles and stone.



Effective Length	Please refer to the spec table.
Applicable Electric Tool	Electric Drill / Percussion Drill (rotating mode)

To all those who want to Set things in *MOTION*



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Brands

KTR GERMANY WORLD CLASS COUPLINGS

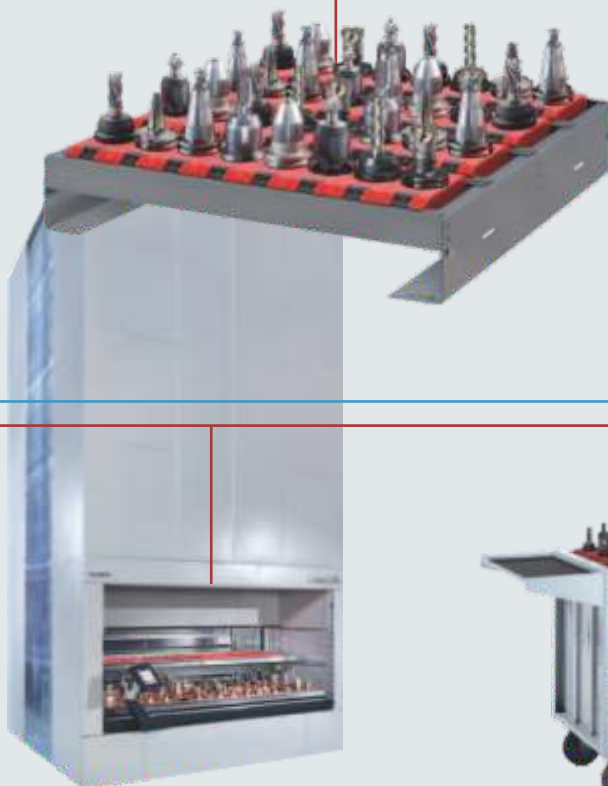
- | | | | |
|---------------|----------------|--------------|-----------|
| ROTEX® | GEARex® | MONOLASTIC® | ROTEX® GS |
| POLY-NORM® | BoWex® | RADEX®-N | TOOLFLEX® |
| POLY Coupling | BoWex® FLE-PA | RIGIFLEX®-N | RADEX®-NC |
| REVOLEX® KX | BoWex-ELASTIC® | RIGIFLEX®-HP | MINEX®-S |
| | | | COUNTEX® |

NC Tools Storage Systems



Storage using
insert frames

Storage using
tool cradles



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NC storage in the Lista Lift

You can also easily store and manage different NC tools in the Lista lift. There is plenty of space on the trays for a large number of tools and they are brought to the access hatch at the push of a button.

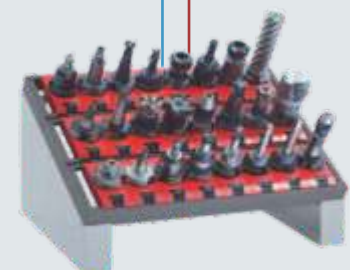
Transport unit

The NC transport unit ensures safe and ergonomic transport. Equipped with an insert frame and/or tool cradle, this brings the tools right to the workplace.



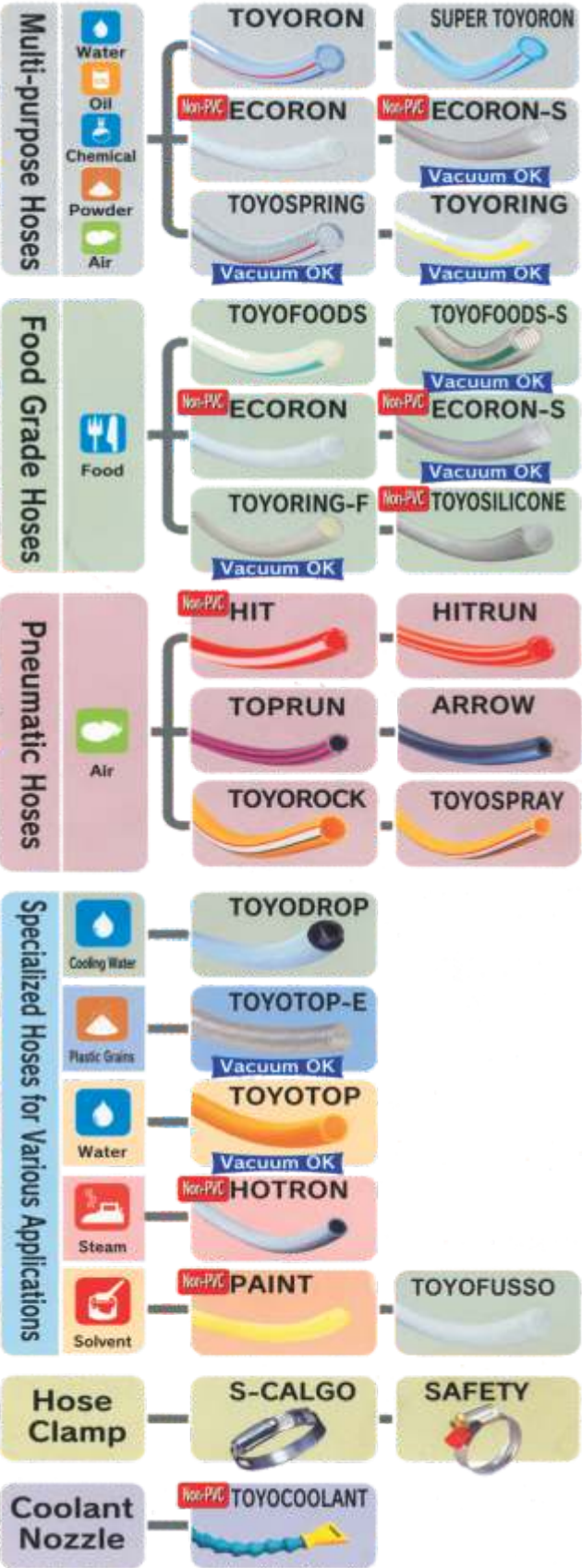
Bench stand

The NC bench stand can be used anywhere, and offers a secure and organised temporary storage place close to the workplace. Sloping tool cradles and insert frames simplify loading and unloading tools.



Specialised Industrial Hoses from Japan

For Factory Pipe Line & Machine Parts



Toyoron Hose

Size : 4 - 75mm ID
W.P. : 1.0 - 0.3MPa
W.T. : -5 - 60°C

PVC Polyester Cord Reinforced Hose

Applications

CHILLING WATER, FOOD, OIL, WATER, AIR, CHEMICAL

Features

- Clear and transparent
- High Flexibility and easy to handle
- Non toxic / non brittle

Toyospring Hose

Size : 6 - 100mm ID
W.P. : 0.8 - 0.2MPa
W.T. : -5 - 60°C

PVC Steel Wire cord reinforced hose

Applications

OIL, WATER, AIR, CHEMICAL, POWDER

Features

- Clear and transparent
- Can be used as vacuum hose
- Crush proof and flexible
- Non toxic / food grade

Paint / Toyofusso Hose

Size : 7.5 • 9.5mm ID
9 - 25 mm ID
W.P. : 9.0 - 25.0MPa

Hose Material - Inner : Nylon
Outer : PU

Applications

SOLVENT

Features

- Highly resistant to solvents
- Soft and extremely light weight
- High visibility of fluids
- Suitable for paint, thinner, Acetone, MEK, ethyl alcohol etc.,

Hitrun Hose

Size : 6.3 - 13.7mm ID
W.P. : 1.5 MPa
W.T. : -5 - 60°C

Hose material: Specialised PU
Reinforcement: Polyester Cord

Applications

AIR

Features

- Extremely light weight and flexible
- Good Oil Resistance
- Fatigue free, easy on Wrists and Hands
- Kink Free Sliding

Environmentally
Chemical Free

Safety &
Security

Productivity &
Efficiency

Comfortable
Workplace

Cost Effective Solution

for Process Measuring & Controlling



OUR PRODUCTS

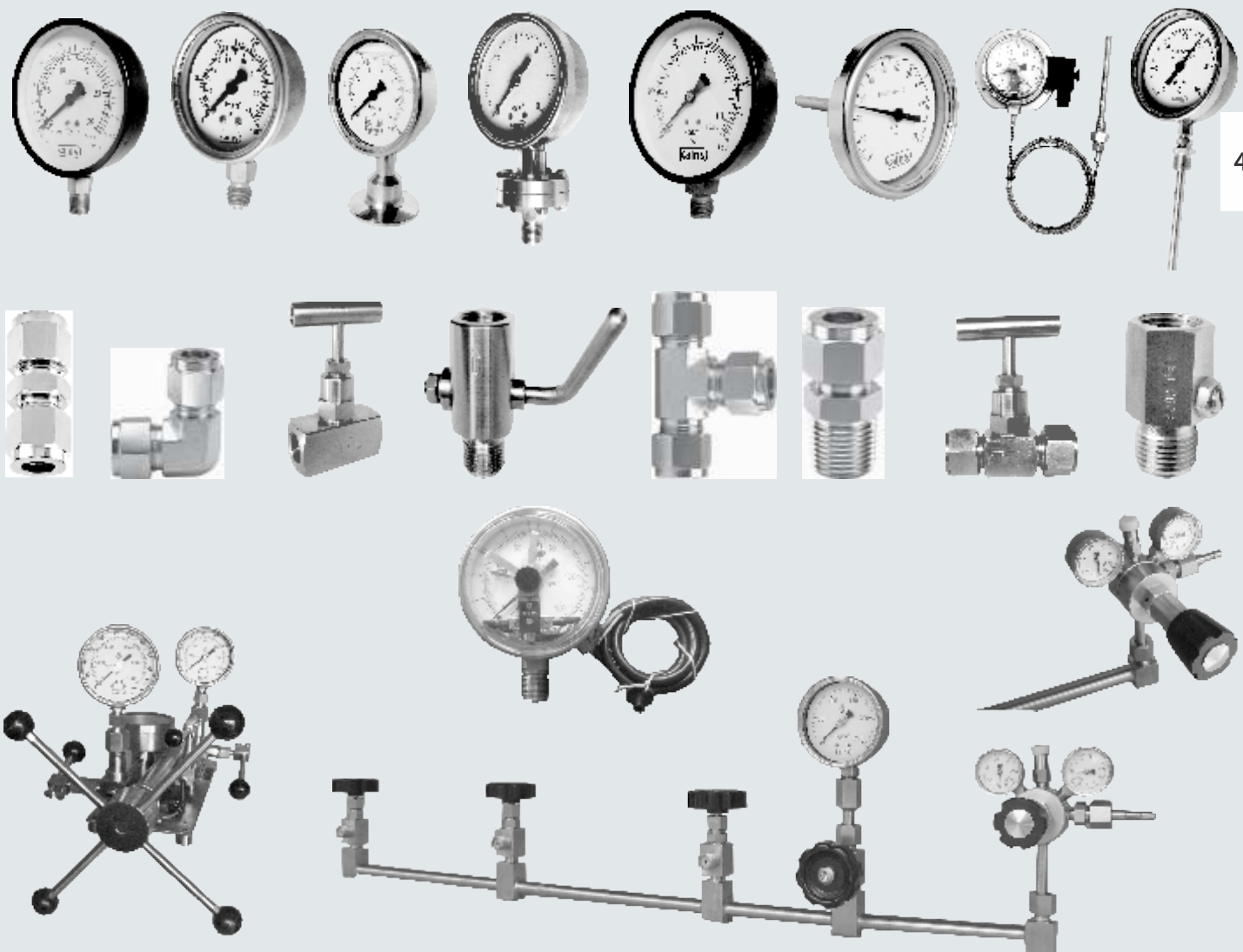
- ▶ Pressure Calibrators
- ▶ Bourdon Pressure Gauges
- ▶ Diaphragm Pressure Gauges
- ▶ Needle Valves
- ▶ Instrument Manifolds
- ▶ Instrument Accessories
- ▶ Temperature Instruments

WE OFFER

- Site and in house calibration of pressure instruments
- Site and in house calibration of temperature instruments
- Installation and commissioning of Pressure Temperature level and flow instruments



Pressure + Temperature + Flow



Industrial Modular Lean Automation Products

ABS Coated pipes series



Thickness	Inner diameter (ØD)	Materials
0.7	Ø24.0	SPCC+ PE/ABS
0.8	Ø23.8	
1.0	Ø23.4	
1.2	Ø23.0	

JY-4000MH-P



JY-4000H-PE/PESD



JY - 4000 MB - P

JINGYU	Length	Color	Material
T/MM	Lengthmm	4000mm/kg	
0.7	4000mm	2.04	
0.8		2.3	
1.0		2.88	
1.2		3.27	
2.0	Customized		

Customizable

JY-4000DH-P



JY-4000SH-A



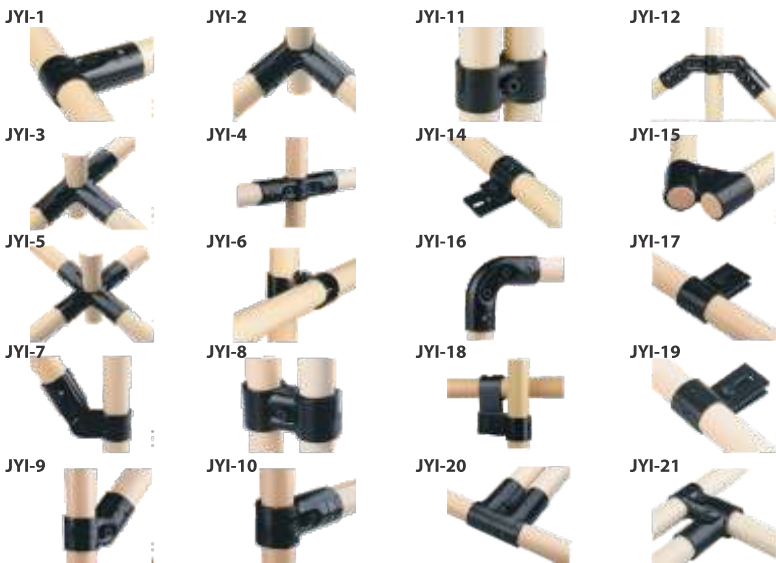
JY-4000YL-P



JY-4000XY-P



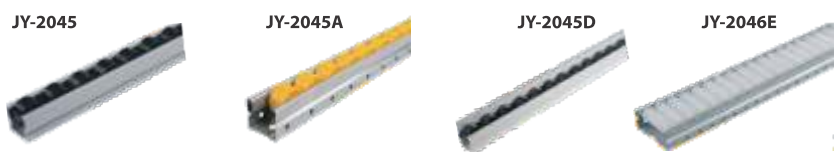
Metal Joints Series



Industrial Casters Series



Roller track Series



Roller track connector Series



ABS Pipe Industrial Work Table

Applications of ABS Pipe



ABS Pipe Bin Rack



ABS Pipe Work Table



ABS Pipe Bin Trolley



ABS Pipe Roller Rack



ABS Pipe Storage Rack System



Bin Rack



Flow Rack



Modular Assembly Line



Abs Pipe Fifo Rack

Aluminum Profiles & Accessories

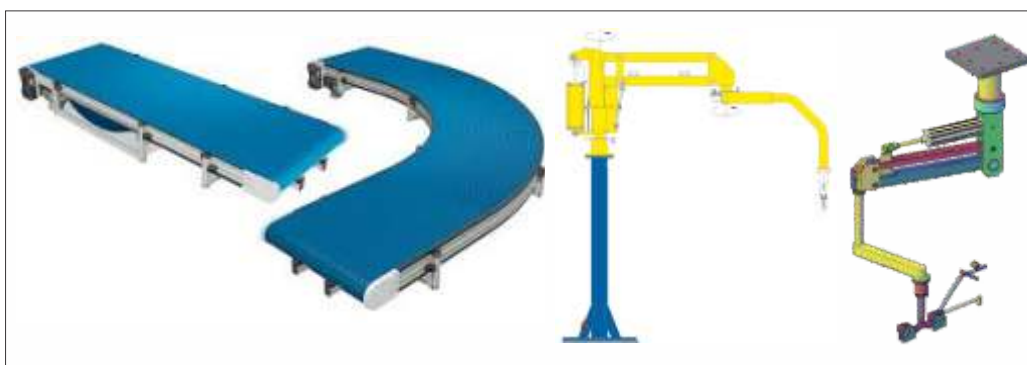


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2 way Joints & Plugs: Polyamide & Die Cast



Conveyors & Manipulators



- Belt Conveyor
- Gravity Roller Conveyor
- Power Roller Conveyor
- Plastic Slat Chain Conveyor
- Z Conveyor
- Robotic Conveyor
- PCB Conveyor
- PU Caster Wheels
- Manipulators



Aluminium Profile Bin Trolley



Modular Belt Conveyor



Belt Conveyor



Aluminium Profile Industrial Work Table



Aluminium Profile Machine Guard



Aluminium Profile Foldable Display Board



Aluminium Profile I-Board

Our Product Range

- Machine Frames & Bases
- Assembly Lines
- Work Stations
- Safety Enclosure
- Machine Guards
- Conveyor Systems
- Pipe And Joints FiFO Racks
- All Type of Trolleys
- Display Tables
- Heavy Duty Racks
- Steel Work Tables
- Shelving Racks
- Industrial Electro-Pneumatic Manipulator For Industrial Material Handling



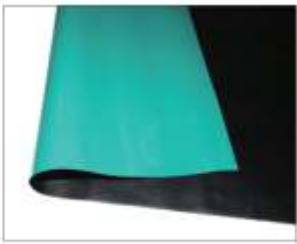
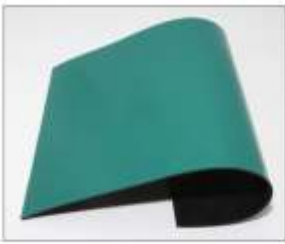
ESD Table Mats

Thickness

1.8mm

2.0mm

3.0mm



Dull

Shiny

Product Series

Model	Color/Surface	Application
TM202	Green/Shiny,Green/Dull,Gray/Dull Black/Dull,Dark Green/Shiny,Apple green/Shiny	Applicable to semiconductor devices, electronic computers, electronic communications equipments, integrated circuits, other microelectronics industry workshop and laboratory.
TM203	Green/Shiny,Green/Dull	
TM283	Green/Shiny,Green/Dull	

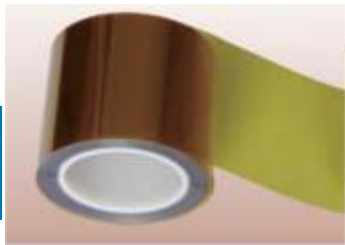
Anti-static SPU slippers



Anti-static SPU slippers

Tapes

Anti-static high temperature tape



Specifications
Base material: Polyimide film
Glue: Silicone pressure sensitive adhesive
Color: Brown color
Length (m): 33.88
Width (m): 0.05-1.00
Base thickness (mm): 0.025
Tape thickness (mm): 0.060
Adhesion (N / 25mm): 0.50
Tensile strength (g / 25mm): 15
Fracture elongation (%): 55
Temperature resistance (°C): 250°C for 30 minutes without residual glue

Features
With excellent high temperature resistance,electrical insulation and chemical resistance;Non-toxic,no smell,harmless to the human body and the environment.

Application
This product is used in electronic manufacturing yellow soldering,gold finger protection in wave soldering.

Upper material: SPU
Sole material: SPU
Color: Blue, black
Size: #34~46
Surface resistance:10⁸~10⁹Ω
Features: soft,comfortable and durable.

Anti-static Dispensers

The anti-static dispenser, also known as an ESD alcohol bottle, is an ideal device for using cotton swabs, dishcloth and cotton balls to absorb alcohol, acetone, methanol, diluents and other reagents.



Anti-static Tweezers

Anti-static stainless steel tweezers



Model	Material	Specification	Hardness
ESD-10	302	110mm	HRC40
ESD-11	302	140mm	HRC40
ESD-12	302	135mm	HRC40
ESD-13	302	120mm	HRC40
ESD-14	302	110mm	HRC40
ESD-15	302	116mm	HRC40
ESD-16	302	125mm	HRC40
ESD-17	302	115mm	HRC40

Anti-static Bevel Component Box



Anti-static Bevel Component Box
External Dimensions: 95*60*65mm
External Dimensions: 370*450*60mm
External Dimensions: 340*250*120mm

Anti-static Wrist Straps

Anti-static wrist strap is a wrist wear in the human body wrist, relief of human body accumulate static charge, it can effectively protect the zero resistance from electrostatic interference, to discharge the human body static electricity, the wrist strap should contact with the skin when use, and make sure the ground wire grounding directly, so as to maximize the efficiency.



Anti-static cord wrist strap



Specifications

Composition: elastic band, active button, spring cord, alligator clip
Cord material: PU, PVC
Cord diameter: 2.05mm, 2.4mm
Conductive fiber spacing: 0.1mm
Conductive yarn: black yarn, white yarn
Cord length: conventional 1.8 m, 2.4 m and 3m customizable
Color: Blue, black, rose red, etc
Plug type: straight or Lantern head
Surface resistance: $10^6-10^9\Omega$
Plug type: four-petal banana head; Eight-lobe lantern head or crosshead
Decay time: 0.1s

Features

Through the wrist strap and ground wire, discharge the body's electrostatic to the earth, so the wrist strap must be in contact with the skin when use, and the ground wire also need to be directly grounded and ensure that the ground wire unimpeded to maximize the effectiveness.



Anti-static cordless wrist strap



Specifications

Main part: ABS adhesive material
Color: Blue, red (with a spare wrist strap for each piece)
Conductive yarn: black yarn, white yarn
Conductive fiber spacing: 1mm
Width: 20 mm
Decay time: 0.1s
Surface resistance: $10^6-10^9\Omega$
Packing: Bag pack

Features

The antistatic characteristics is excellent, low dust and easy to wear using the principle of physical design of SELSLARD corona discharge, breaking the space system, not tied by the ground line. The static electricity generated by the human body is released through the discharge box. The 12 mu ultra fine conductive fiber releases static electricity very quickly.

Anti-static dual coed wrist strap



Specifications

Wrist strap	Cord
Material: two plastic film (PA6)	Material: PU skin, copper platinum 7 core, within 1MΩ resistance
Wristband: rubber band adjustable	Color: Blue, black
Conductive yarn: black yarn, white yarn	Cord length: 1.8 m, 2.4 m, 3m
Conductive fiber spacing: 1mm	Cord diameter: 2.05 mm, 2.40 mm
Color: blue, black	

Head type: audio head
Button type: all copper button, strong elastic copper plug
Button size: 4mm, 7mm, 10mm
Surface resistance: $10^6-10^9\Omega$
Decay time: 0.1s

Features

In actual use process, when one circuit is failure, and the other one still can continue to work, reducing the components insulation probability of electronic electrostatic breakdown caused by the the insulation layer, avoid large quantities of scrap or quality to drop, low use cost.

Anti-static Casters Accessories



2" Swivel casters with brakes

2" Swivel casters



Anti-static Flat Component Box

No.1 Flat Type	No.2 Flat Type	No.3 Flat Type	No.4 Flat Type	No.5 Flat Type
Material:PP	Material:PP	Material:PP	Material:PP	Material:PP
External imensions: 166*100*65mm	External imensions: 206*136*66mm	External imensions: 260*176*75mm	External imensions: 300*206*90mm	External imensions: 380*240*106mm
Internal Dimensons: 135*85*50mm	Internal imensions: 180*120*60mm	Internal imensions: 220*160*70mm	Internal imensions: 270*185*80mm	Internal imensions: 340*220*95mm
Colors: black/blue/red	Colors: black/blue/red	Colors: black/blue/red	Colors: black/blue/red	Colors: black/blue/red



Sticky Mat

Application

- Widely used in electronics, computer, food, refrigeration industry.
- ◎ Clean rooms, labs, semi-conductor industries, instrumentation, aerospace and nuclear industries.
- ◎ Surgical rooms, medical device, pharmaceutical and any other dust-free environment.

Specification

Film Material	Low density polyethylene
Adhesive Material	Water-based acrylic
Film Thickness	3.5C, 4.0C, 4.5C
Layers/sheet	30layers/sheet or 50layers/shhel
Tackiness	Low/Moderate/High
Size	18"x36", 24"x36", 24"x36", 24"x45", 30"x36" and etc
Color	blue, green, grey, yellow, white, black
Packing	30layers/mat or 50layers/mat, 10mats/box



Splice Tape

Splice tape is a kind of tape that used to connect the electronic components to reduce the downtime of the patch machine, while saving time and improving the overall cost effectiveness.



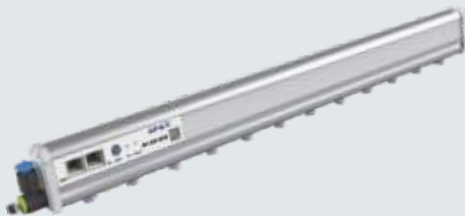
AC Electroshock-Proof Ion Bar

AP-AB1103



Specification	
Model	AP-AB1103
Working Voltage	AC7000V
Power	20W
Working Distance	30-150mm
Ion Balance	<1± 00V
Discharge Time	<1.55 (working distance 100mm)
Working Temperature	0C-50C
Working Humidity	<70%
Cord Length	2.5M (customized available)
Power Supply	AP-AY1502/2502(7000V)

AP-AB1208



AP-DC2451



Specification	
Model	AP-AB1103
Input Voltage	AC220V/50Hz 110V/60 Hz (with external power adapter)
Power	12W
Ion Balance	-10V~+10V (300mm testing center from the air outlet)
Discharge Time	<2S (300mm testing center from the air outlet)
Noise	<45df (150mm from the air outlet)
Effective Working Range	1200*600mm (L*W)
Air Volume	0-95CFM
Ozone Thickness	<0.02ppm (150mm from the air outlet)
Working Temperature	0C-50C
Dimension	180*72*201.5mm (L*W*H)
Net Weight	1500g (include HV cord 3 meters)
Gross Weight	1980g

High Frequency DC Ionizing Air Nozzle

AP-DC3203



Specification	
Model	AP-DC3203
Input Voltage	Dc24v
Working Voltage	High frequency 68KHz, about AC3,2KV
Power	12W
Working Distance	150-300mm
Discharge Time	<1.0S (150mm testing center from the air nozzle)
Ion Balance	-15v~+v (150mm testing center from the air nozzle)
Effective Working Range	1200*600mm (L*W)
Working Temperature	0-50 °C
Air Pressure Range	0.2-0.6Mpa
Power Suppl	IN.AC95V/240V-60HZ/50HZ OUT.DC240V0.75A
Air Connector	6MM (customized available)
Net Weight	AIR GUN :160G POWER SUPPLY: 110G
Gross Weight	362.5g

IONING AIR GUN
AP-AC2456



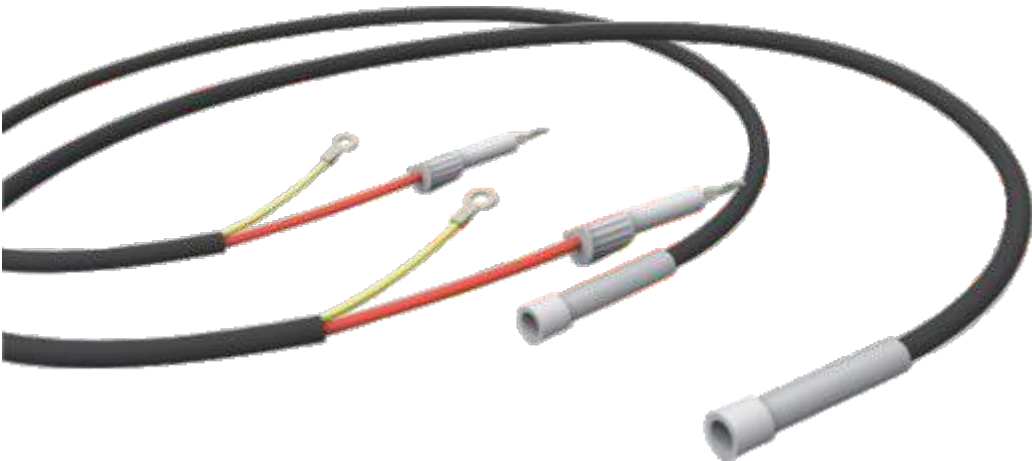
INDUSTRIAL APPLICATIONS

- Electronics
- Injection molding
- Printing
- Film
- Pharmaceutical
- Machinery industries

Specification	
Model	AP-AC2456
Input Voltage	AC 220V/50Hz or 110V/60 Hz
Working Voltage	AC2800V
Power	25W
Working Distance	150-300mm
Discharge Time	<1.5s (150mm testing center from the air nozzle)
Ion Balance	-50V~+50V (150mm testing center from the air nozzle)
Power Cord Lenght	2.5M (Customized available, 5m as longest)
Noise	<65db (150mm from the air outlet)
Working Temperature	0 °C-50 °C
Air Connector	8mm (customize available)
Air Pressure Range	0.2~0.6Mpa
Dimension	148*34*145mm (L*W*H)
Net Weight	160g (including power cord)
Gross Weight	560g
Power Supply	AP-AC-2455-28

ION PEN

AP-AZ5203



INDUSTRIAL APPLICATIONS

- Electronics
- Injection molding
- Printing
- Film
- Pharmaceutical
- Machinery industries

Specification

Model	AP-AZ5203
Working Voltage	AC4000V
Power	20W
Working Distance	150-300mm
Discharge Time	0.5s (100mm from testing center)
Ion Balance	-260V~+50V (100mm from testing center)
Working Length	2.5m (customized available, 5m as longest)
Working Temperature	0 °C-50 °C
Power Supply	AP-AC2455-28
Cross-sectional Area	10*60mm

FEATURES

- Pen shaped and vertical static eliminator
- Excellent electrical property data by applying the newest static eliminating technology
- Fast air ionization, great quantity of ion halos and long lifetime
- Convenient to install, flexible fixing
- Working under high voltage and micro current with good safety performance

STATIC METER

AP-YP1101/1203

FEATURES

- Hand feel and drape with attractive appearance
- Accurate positioning by dual LED. Precise detection distance
- Wide range of detecting potential. High detect precision
- Comfort operation button and easy to use
- High definition omnibearing LED data display



Specification

Model	AP-YP1101	AP-YP1203
Detection Range	0V-5.00KV	0V-5.00KV
Detection Accuracy	±5%	±10%
Detection Distance	25mm±1.0mm	25mm±1.0mm
Input Voltage	DC3V (2*AAA)	DC3V (2*AAA)
Automatic Shutdown	120s	120s
Working Temperature	-20 °C-+70 °C	-20 °C-+70 °C
Working Humidity	0-85%RH	0-85%RH
Dimension	144*69*38mm (L*W*H)	144*69*38mm (L*W*H)
Net weight	120g±10g	120g±10g
Gross Weight	(Battery & Accessory Included)	(Battery & Accessory Included)

Torque Controlled Electrical Screwdrivers Ac/ Dc

DC6210P



Voltage: 220V 12-36V 50HZ

Bit Diameter: 4mm Semi-Auto

No-load Speed: 1300rpm

Torque Range: 1-10kgf-cm

Mechanical Screw: M1.2-4.0mm

Tapping Screw: M1.0-3.5mm

Package: Carton Box

Standard Packing List: 1*power supply 1*DC6210P Screwdriver 2*Bits 1*Instructions 1* Warranty card

Weight: 1.2kg

DC6228P



Voltage: 220V 12-36V 50HZ

Bit Diameter: 5mm Semi-Auto

No-load Speed: 1600rpm

Torque Range: 2-28kgf-cm

Mechanical Screw: M1.6-5.0mm

Tapping Screw: M1.6-4.0mm

Package: Carton Box

Standard Packing List: 1*power supply 1*DC6228P Screwdriver 2*Bits 1*Instructions 1* Warranty card

Weight: 1.2kg

DC6235P



Voltage: 220V 12-36V 50HZ

Bit Diameter: 6mm Semi-Auto

No-load Speed: 1200rpm

Torque Range: 2-35kgf-cm

Mechanical Screw: M2.0-6.0mm

Tapping Screw: M2.0-5.0mm

Package: Carton Box

Standard Packing List: 1*power supply 1*DC6235P Screwdriver 2*Bits 1*Instructions 1* Warranty card

Weight: 1.2kg

EL805E



Voltage: 220V 12-36V 50HZ

Bit Diameter: 4mm Full -Auto

No-load Speed: 300-1400rpm

Torque Range: 0.3-5kgf-cm

Mechanical Screw: M1.2-2.5mm

Tapping Screw: M2-3mm7.Brushless Motor Using life up to 2years.

Package: Carton Box

Ptandard Packing List: 1*power supply 1*EL805 Screwdriver3*Bits 1*Instructions 1* Warranty card

Weight: 1.2kg

EL808



Voltage: 220V 12-36V 50HZ

Bit Diameter: 4mm Full -Auto

No-load Speed: 300-1400rpm

Torque Range: 0.3-5kgf-cm

Mechanical Screw: M1.2-2.5mm

Tapping Screw: M2-3mm Brushless Motor Using life up to 2years

Package: Carton Box

Standard Packing List: 1*power supply 1*EL805 Screwdriver3*Bits 1 *Instructions 1* Warranty card

Weight: 1.2kg

EC518



Voltage: 220V 12-36V 50HZ

2.Bit Diameter: 4mm Full -Auto

3.No-load Speed: 300-1400rpm

4.Torque Range: 0.3-5kgf-cm

5.Mechanical Screw: M1.2-2.5mm

6.Tapping Screw: M2-3mm7.Brushless Motor Using life up to 2years.

Package: Carton Box

Ptandard Packing List: 1*power supply 1*EL805 Screwdriver3*Bits 1*Instructions 1* Warranty card

Weight: 1.2kg

EC508



Voltage: 220V 12-36V 50HZ

Bit Diameter: 4mm Semi-Auto

No-load Speed: 800-1500rpm

Torque Range: 0.5-8kgf-cm

Mechanical Screw: M1.2-2.5mm

Tapping Screw: M2-3mm

Package: Carton Box

Standard Packing List: 1*power supply 1*EC508 Screwdriver2*Bits 1*Instructions 1* Warranty card

Weight: 1.2kg

EC518(S1/4)

Voltage: 220V 12-36V 50HZ

S1/4 inch Semi-Auto

700-1300rpm

3-18kgf-cm.

M2-3.5mm

M2-3.5mm

Carton Box

1*power supply 1*EC518 Screwdriver2*Bits 1*Instructions 1* Warranty card

1.2kg

ES620 / ES630 / SPRING BALANCER



Load weight: 0.6-2.0kg / 1.5-3.0kg

Length: 1.35 / 1.35

Torque Controlled Electrical Screwdrivers Ac/ Dc

EL805



Voltage: 220V 12-36V 50HZ
 Bit Diameter: 4mm Full -Auto
 No-load Speed: 300-1400rpm
 Torque Range: 0.3-5kgf-cm
 Mechanical Screw: M1.2-2.5mm
 Tapping Screw: M2-3mm Brushless Motor
 Using life up to 2years
 Package: Carton Box
 Standard Packing List: 1*power supply 1*EL805
 Screwdriver3*Bits
 1*Instructions 1* Warranty
 card
 Weight: 1.2kg

EL818



Voltage: 220V 12-36V 50HZ
 Bit Diameter: 5mm Full-Auto
 No-load Speed: 300-1400rpm
 Torque Range: 3-18kgf-cm
 Mechanical Screw: M2-3.5mm
 Tapping Screw: M2-3.5mm
 Brushless Motor Using life
 up to 2years
 Package: Carton Box
 Standard Packing List: 1*power supply 1*EL818
 Screwdriver3*Bits
 1*Instructions 1*
 Warranty card
 Weight: 1.2kg

EL808E



Voltage: 220V 12-36V 50HZ
 Bit Diameter: 4mm Full-Auto
 No-load Speed: 300-1400rpm
 Torque Range: 0.5-8kgf-cm
 Mechanical Screw: M1.2-2.5mm
 Tapping Screw: M2-3mm
 Brushless Motor Using life
 p to 2years Digital display,
 intelligent reminder, memory
 function
 Package: Carton Box
 Standard Packing List: 1*power supply 1*EL808E
 Screwdriver2*Bits 1*Instructions
 1* Warranty card
 Weight: 1.2kg

EL818E



Voltage: 220V 12-36V 50HZ
 Bit Diameter: 5mm Full-Auto
 No-load Speed: 300-1400rpm
 Torque Range: 3-18kgf-cm
 Mechanical Screw: M2-3.5mm
 Tapping Screw: M2-3.5mm
 Brushless Motor Using
 life up to 2years Digital
 display,
 intelligent reminder,
 memory function
 Package: Carton Box
 Standard Packing List: 1*power supply
 1*EL818E
 Screwdriver 3*Bits
 1*Instructions
 1* Warrantycard
 Weight: 1.2kg

DC6328P



Voltage: 220V 12-36V 50HZ
 Bit Diameter: 5mm Full-Auto
 No-load Speed: 1600rpm
 Torque Range: 2-28kgf-cm
 Mechanical Screw: M1.6-5.0mm
 Tapping Screw: M1.6-4.0mm
 Package: Carton Box
 Standard Packing List: 1*power supply1*DC6328P
 Screwdriver 2*Bits
 1*Instructions 1* Warranty card
 Weight: 1.2kg

AC6640S



Voltage: 220V 50HZ
 Bit Diameter: SS1/4mm
 No-load Speed: 1300rpm
 Torque Range: 4-40kgf-cm
 Mechanical Screw: M2-3.5mm
 Tapping Screw: M2-3.5mm
 Package: Carton Box
 Standard Packing List: 1*AC6640S Screwdriver
 2*Bits1*Instructions
 1* Warranty card
 Weight: 0.9kg



JDT

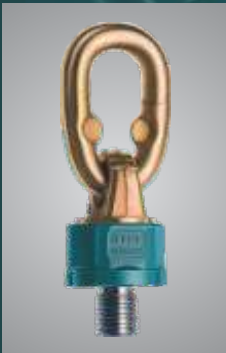
Germany Since 1819

World Class Lifting Systems & Points

Dies & Moulds - Grade 100-Forged Crack Deducted-Swivel Eye Bolts



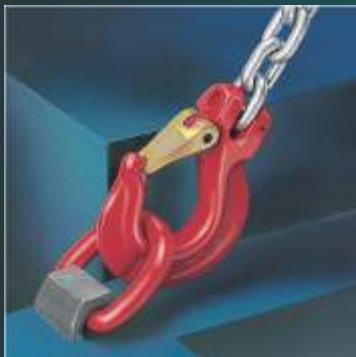
Enormously flat and Good



THEIPA Piont TP

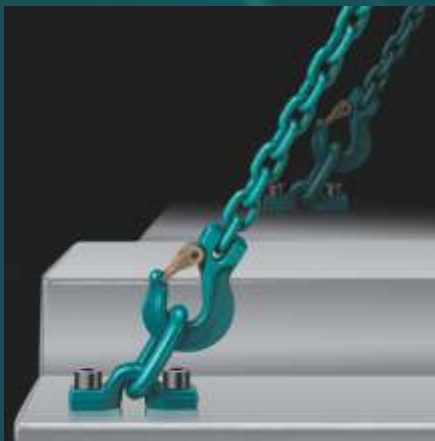


Heavy Engineering - Grade 100-Bolt On-Weld On Attachment Points



Attachment-point to weld-on and bolt-on

Grade 100 Chain Slings-No Welding Required for Assembling Chain Slings

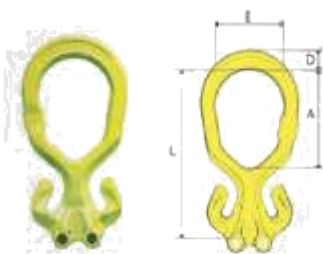


Chain Pulley Blocks

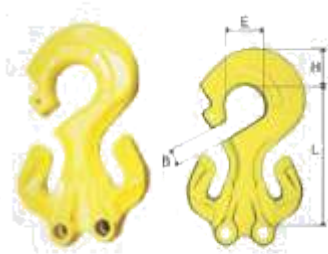


60

Polyster Slings



GrabIQ



Safety Spring Balancers



The Miyakawa brand Spring Balancers offer true Zero Gravity, safe operations with minimum fatigue to operators. They are designed with fully enclosed casing, eliminating any potential pinch points around the drum. Wear protection cover is provided to avoid damage to the casing. This increases operation life of the balancer. High quality springs are enclosed in a Cassette for safe and easy repair.

Features:

- Compact, lightweight yet rugged design
- True Zero Gravity allows suspending tool at desired position
- Tapered drum for optimum and constant torque build-up
- Quality springs and bearings provide smooth cable travel throughout the stroke
- Longer spring and parts life. Minimum cost per operation.
- Cost reduction is achieved through increased productivity, long spring life, minimum maintenance and safe working environment
- External tension adjustment is easy and precise
- Improves work efficiency with world-class quality
- Design proven and tested in Asian countries
- Total Support in parts supply and repairs

Models & Specifications

Model	MSB-9	MSB-15	MSB-22	MSB-30	MSB-40	MSB-50	MSB-60	MSB-70
Capacity (kg)	5 - 9	9 - 15	15 - 22	22 - 30	30 - 40	40 - 50	50 - 60g	60 - 70
Cable Stroke (m)	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5
Mass (kg)	3.7	3.7	8.3	8.3	9.7	10.1	11.1	11.4

Zero Gravity Spring Balancers



The Miyakawa brand Spring Balancers have excellent cost performance ratio. They come with cast aluminium case and ratchet system spring adjustment.

Features:

- Compact, lightweight yet rugged design
- Replaceable wire ropes
- Fully enclosed housing
- Easy and precise external tension adjustment
- Longer spring and parts life. Minimum cost per operation.
- Cost savings through increased productivity, minimum maintenance and safe working environment

Models & Specifications

Model	MSB-1.5	MSB-3	MSB-5	MSB-7
Capacity (kg)	5 - 9	9 - 15	15 - 22	22 - 30
Cable Stroke (m)	1.3	1.3	1.5	1.5
Mass (kg)	3.7	3.7	8.3	8.3

Air Hose Balancers



The Miyakawa brand MHB series Air Hose Balancers provide safer and more organized workplace by eliminating the need of air supply hose and separate spring balancer. These Air Tool Hose Balancers come with 8 mm ID urethane hose for unrestricted air tool operation. Durable, lightweight casings are made of high impact resin material. Additional hose travel

Features:

- Compact, lightweight design
- Reduces operator fatigue
- High impact resin case
- Forged steel swivel hook
- Designed for smooth travel
- Designed for pressure rating 10 Mpa

Features:

- Usage Area: All types of industries In-factory as well as open air applications usage
- Medium: Air
- Temperature range: -10 to + 45 deg C
- Max. air pressure: 1 MPa (10 Kg/cm2)

Models & Specifications

Model	MHB-15	MHB-25	MHB-22	MHB-30	MHB-40
Capacity (kg)	0.5-1.5	1.5-2.5	2.5-3.5	3.5-5.0	5.0-6.5
Hose Travel (m)	1.3	1.3	1.3	1.3	1.3
Hose inside diameter (mm)	8.0	8.0	8.0	8.0	8.0
Mass (kg)	1.9	2.0	2.1	2.1	2.2

Pneumatic Tacker

Type 380/16-420

Popular applications:

Upholstered furniture, chairs, TV and stereo cabinets, loudspeakers, wicker and rattan furniture, perambulators, automobile industry

Length:	221 mm
Width:	43 mm
Height:	144 mm
Weight:	0.94 kg



Pneumatic Plier

Type 380/16-419



Popular applications:

Clinching of: Paper, cardboard, foil, leather, bag headers etc.



Length:	210 mm
Width:	50 mm
Height:	216 mm
Weight:	

Pneumatic Nailer

Type 700 DC

Popular applications:

Siding, pallets, cases, sheathing, sub flooring, House construction.

Length:	332 mm
Width:	140 mm
Height:	305 mm
Weight:	357 kg



Hog Ring Plier

Type CL24-HR68

Popular applications:

Matresses, automotive seating, bedding, wire cages, fencing, other wire connections, etc.

Length:	210 mm
Width:	50 mm
Height:	216 mm
Weight:	1.38 kg



Economy Stapler

Brad Nailer



Coil-Nailer



Nailer Puller



Fine Stapler



C-Ring Nailer



Plier Stapler



LN Stapler



Clinch



Gripcoil Thread Repair Kit

Gripcoil Thread Repair Kits are used for repairing tapped holes which have been stripped or damaged due to wear, corrosion and over torque, as well as for strengthening internal screw threads in metals, plastics, and other materials.

These kits are available in metric and inches series and each kit have a quantity of Gripcoil insert, the appropriate size drill, high speed steel Gripcoil tap, Gripcoil installation tool, allen key and Gripcoil tang break-off tool. Kit does not contain drill in higher sizes i.e. in metric from M14 & above and in inches from 1/2" & above.

Gripcoil Thread Repair Kits are available in:

Metric Coarse sizes: M1.6 to M20.

Metric Fine sizes: M8 to M20.

Inch Series sizes: UNC 2-56 to 3/4".

Inch Series sizes: UNF 10-32 to 3/4".

Inch Series sizes: BSW 1/4" to 3/4".

Gripcoil Thread Repair Kit (with slotted mandrel installation tool): These kits contain Gripcoil inserts of medium length, HSS drill, Gripcoil tap, and Gripcoil slotted mandrel installation tool, allen key and Gripcoil tang break-off tool.



Gripcoil Thread Repair Kit (with screw driver installation tool): These kits contain Gripcoil inserts of medium length, HSS drill, Gripcoil tap, and Gripcoil screw driver installation tool and Gripcoil tang break-off tool. This type of kit specially recommended for miniature sizes.



Gripcoil Thread Repair Kit (with threaded mandrel installation tool): These kits contain Gripcoil inserts of medium length, HSS drill, Gripcoil tap, and Gripcoil threaded mandrel installation tool and Gripcoil tang break-off tool.



WIRE THREAD INSERTS



Provides positive means for protecting and strengthening all tapped threads.

- Free Running type
- Screw Locking type

Inserts are manufactured out of Stainless Steel grade AISI-304, 316, AMS-7245 & space age materials. Identification/ surface coatings are done on customers' requirement. Inserts and accessories are interchangeable to other available lead brands.

The state-of-the-art manufacturing facilities ensure that each of the 2 million inserts produced every month meet stringent quality norms. Bouyant with positive customer feedback plans are in place to leverage the monthly production capacity to 3.5 million inserts shortly.

Manufacturing Capabilities Standards:

- DIN 8140-1
- BS 7751/7752/4377
- MS 122076-124850/21209, MIL I-8846
- NASM 8846, ASME B 18.29.1, ASME B 18.29.2M
- NAG276, NAS1130, NASM21209
- LN 9059, LN 9499



OUR PRODUCT RANGE



Available in two basic forms, free running or screw locking, Gripcoil Screw Thread Inserts are much lighter and less expensive than any other equivalent type of screw thread insert. The compact size of Gripcoil inserts also ensure they can be incorporated into existing designs where no previous provision has been made.

INSTALLATION TOOLS & ACCESSORIES

The Gripcoil Wire Thread Insert System includes a complete range of:

- STI Hand & Machine Tools
- Installation / Insertion Tools
- Tang Break - off Tools
- Extraction / Removal Tool
- Thread Plug Gauge
- Thread Repair Kits
- Lock Nuts



Range of Products

- Cable Reels
- Stackable Drawers
- Metal Shelves with Drawers



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