



# Sivenara Engineers

Since 1996

*Segment centric Products & Application  
Engineering Solutions*



# OFFERS WORLD CLASS PRODUCTS



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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.

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## Technical information Anti-loss attachment



## Function

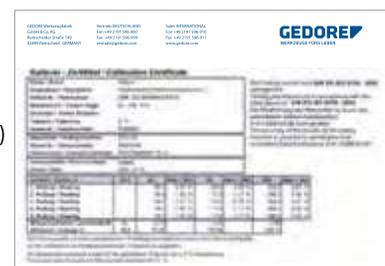
### In order to change the turning direction of the DREMASTER® DMK:

Press on the push-button with your thumb and take out the mushroom head, turn the wrench and re-insert the square drive.

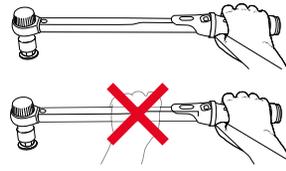


## All the benefits at a single glance

- > 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.

**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.

**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.



## 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.



DMK 1/2" - 30 20-850 N-m



DMUK 1/2" 20-300 N-m



DMZ 1" 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.



6-3000 N-m



6-2000 N-m



8-1000 N-m

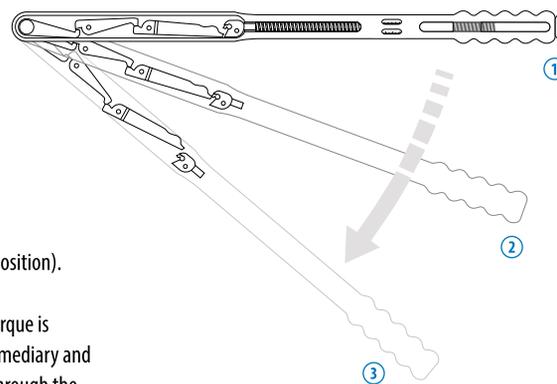


8-400 N-m

## i 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 DAKKS 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**

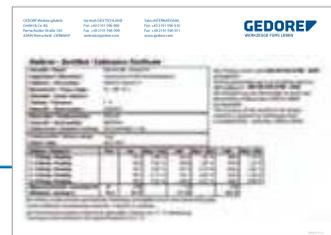
- > Two scales on each DREMOMETER indicate N-m and the common US unit of torque measurement (apart from types E - F).
- > Advantage: Exact reading even for lbf-in or lbf-ft.
- > Easy operation - fast and safe torque tightening

**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.

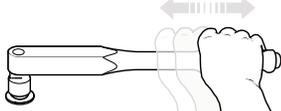
**Test certificate**

- > 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.

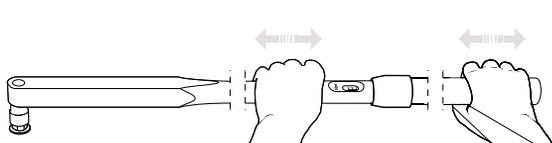


**DREMOMETER**  
Operatable without inaccuracies

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.

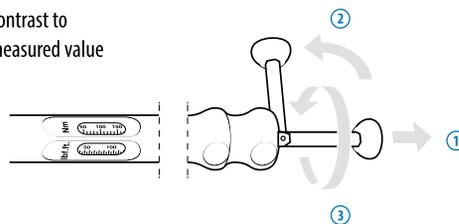


However, value shifts are possible when activating the DREMOMETER with special wrenches or when using wrenches with different depth gauges.



**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 DAKKS 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.

### **+** Chrome-plated ratchet head

All 1/4" - 1/2" square drives of the TORCOFIX 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

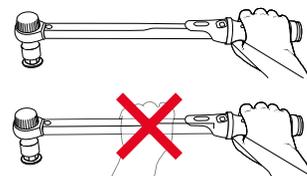
The TORCOFIX actuates with a clear tactile impulse and audible signal and is immediately ready for operation again.

### **+** Robust steel tube

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

### **+** 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.



K 1/4" - 1/2" 1-650 Nm



K 1/2" 2-850 Nm



K 1/2" 2-600 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.

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

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

### 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**



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## 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)

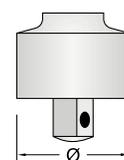
### Features:

- › 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



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## TORSION TEST DEVICE E-TP

ETP

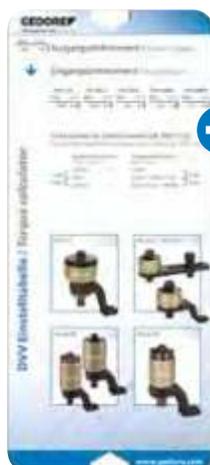
### ELECTRONIC TORSION TEST DEVICE

- > 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 DAKKS-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 dependent)
- > 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



# TORQUE MULTIPLIERS

## DREMOPLUS ALU



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



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

### 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

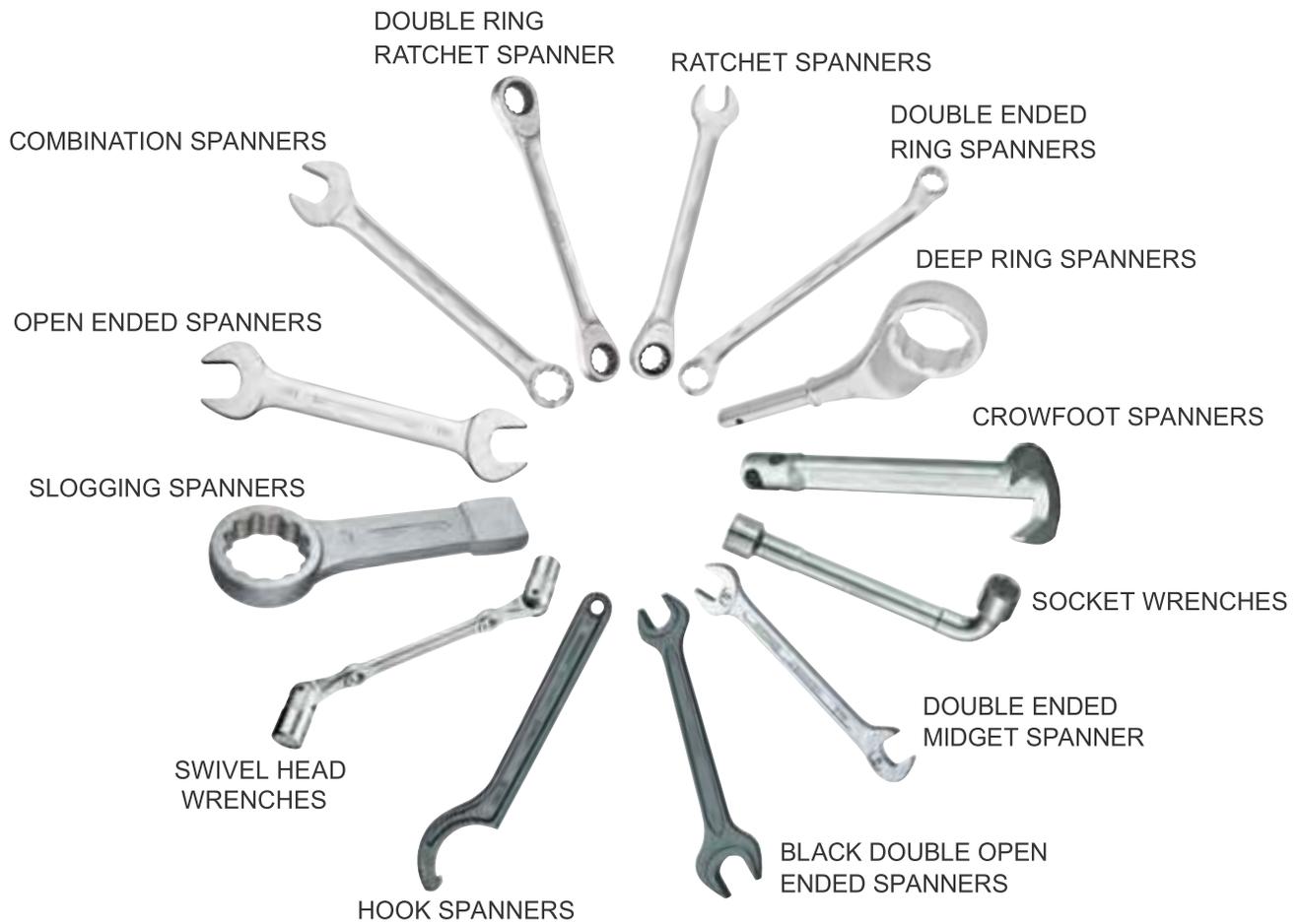
A minimum 180° torque wrench field of movement should be on hand. As such, the recommendation is for an appliance complete with an anti-wind-up ratchet. In this way, pre-tension in the appliance is maintained and does not need to be re-created with each lift.



### 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

# SPANNERS

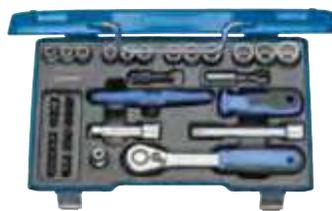


# SOCKETS AND ACCESSORIES

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

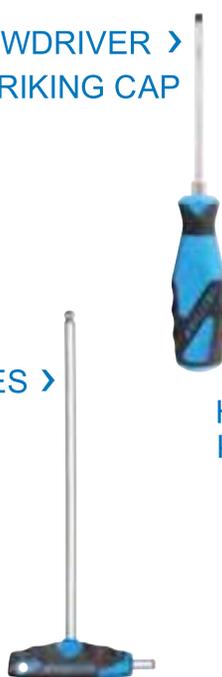
SCREWDRIVER >  
WITH WOODEN HANDLE

ELECTRONIC >  
SCREWDRIVER

T-HANDLES >

HEXAGON ALLEN >  
KEYS

VARIOUS  
v



## PLIERS

14

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

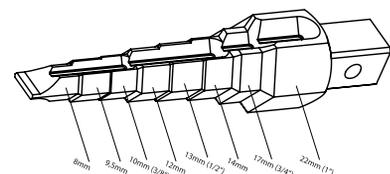
### PIPE SHEARS

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



17

TOOL CABINET



### 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

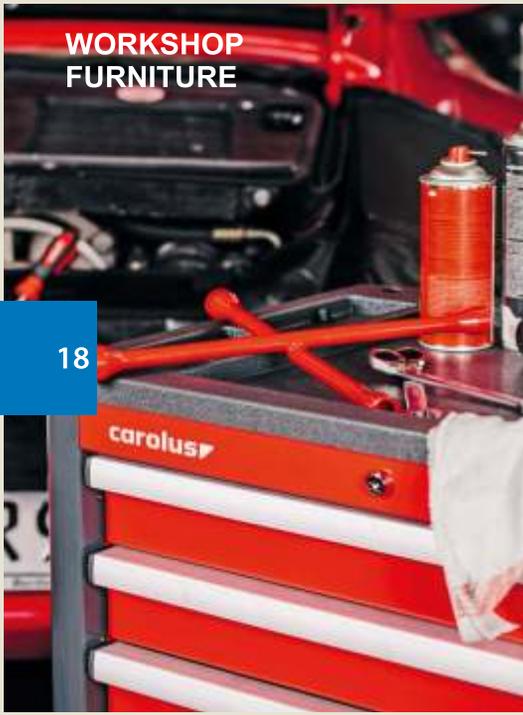




ASSORTMENTS



TOOL CASES



WORKSHOP FURNITURE



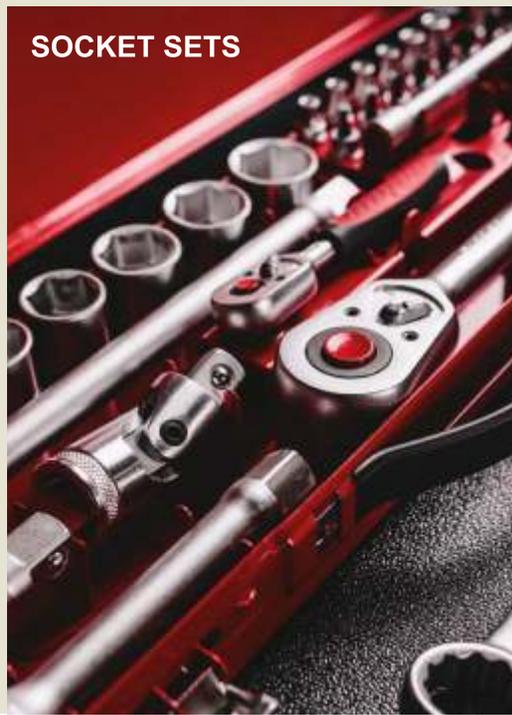
TOOL MODULES



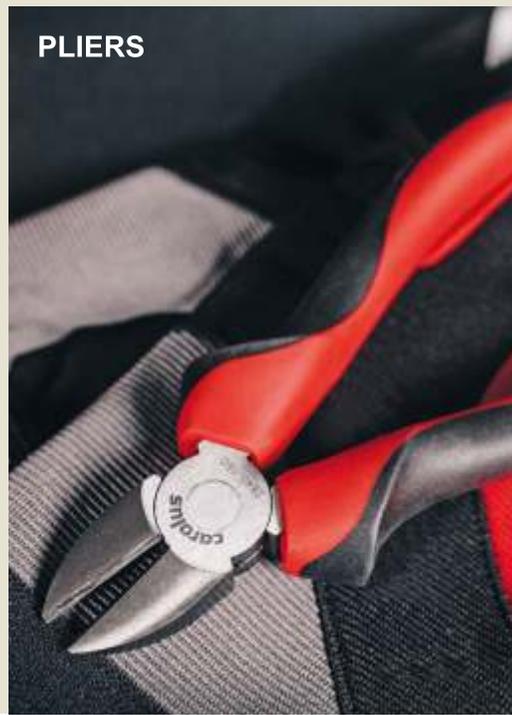
SPANNERS



RATCHETS SOCKETS



SOCKET SETS



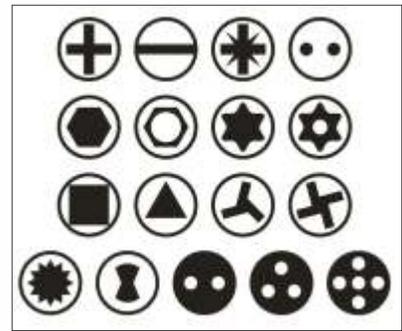
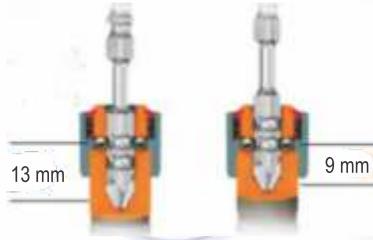
PLIERS

# Industrial Bits



Available for the use of two different anvil chucking

### Two Steelball Ditches



## 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

### Socket Bits, Nut Setters

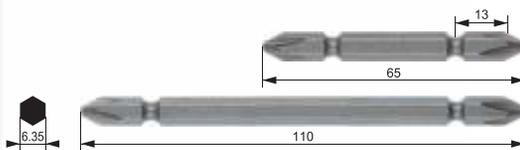
6.35mm Hex Drive

### Power Bits

8mm Hex Drive  
11mm Hex Drive

## 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(+) <b>2X65H</b>	Φ2× 65NN 00020 pcs.	H	415285	5
AMG14(+) <b>2X110H</b>	Φ2×110NN 00020 pcs.	H	415286	5

Bottle dimensions: 2x65H type: W53×D100×H111mm / 2x110 type: W53×D100×H153mm





From Japan

# Nile Air Nippers

Section of blade

Single blade



Standard



Full-flush round type



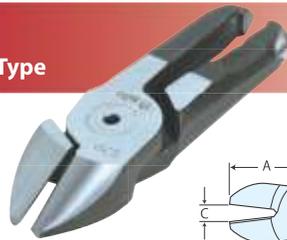
Full-flush flat type



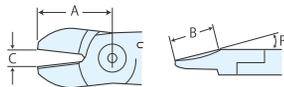
## BLADE



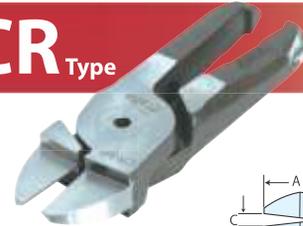
### S Type



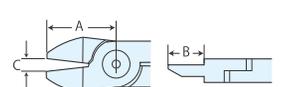
Standard Blades



### CR Type



Clipper edge



## AIR CUTTERS



### MR Type

Standard



Grip size

Length

## HAND-HELD TYPE

### MP Type

Clipper edge



Grip size

Length

## AIR CUTTERS

20



### MR-M Type

Standard



Grip size

Length

## MACHINE-FITTING TYPE

### MP-M Type

Heavy duty



Grip size

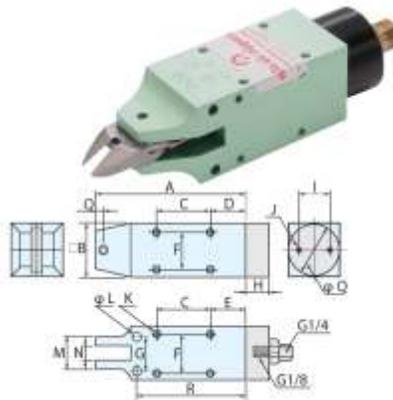
Length

## SQUARE AIR CUTTERS



### MS Type

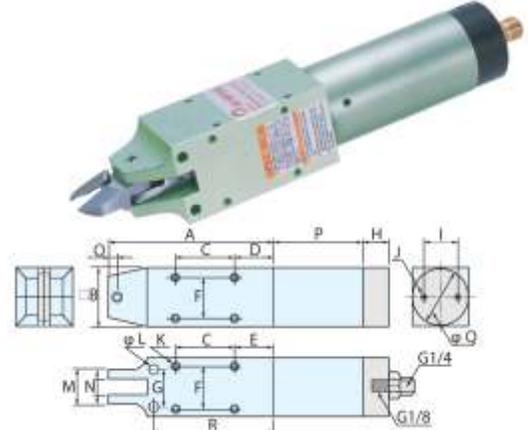
Standard



## MACHINE-FITTING TYPE

### MSP Type

Heavy duty



# Nile Air Nippers



From Japan

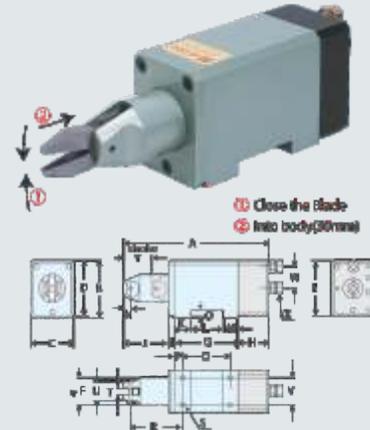
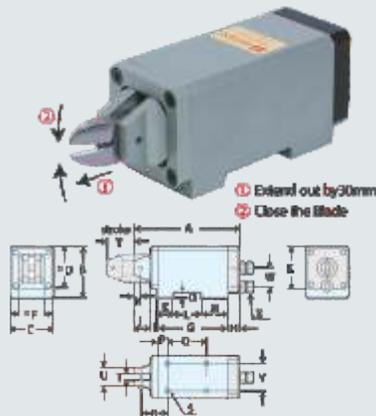
## VERTICAL TYPE AIR CUTTERS, SLIDING AIR CUTTERS

## MACHINE-FITTING TYPE



**CF** Type

**CL** Type



## SN TYPE SLIDING AIR CUTTERS

## MACHINE-FITTING TYPE

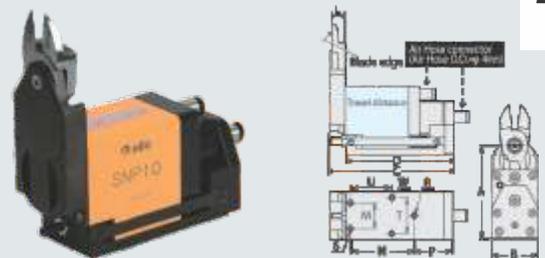
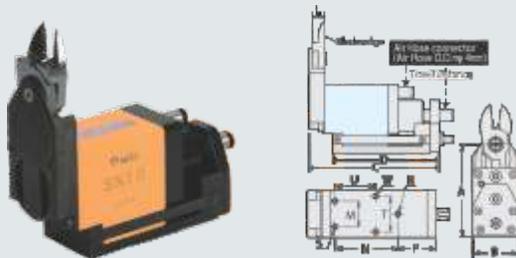


**SN** Type

**CL** Type

*Pull & Cut Type*

*Push & Cut Type*



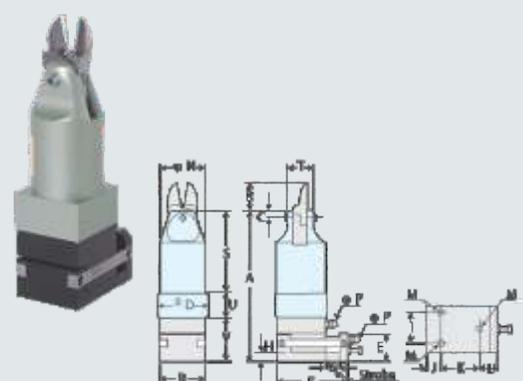
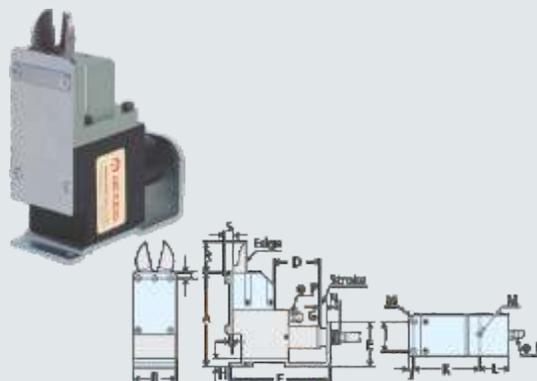
## SLIDE & CUT AIR CUTTERS

## MACHINE-FITTING TYPE



**ME** Type

**ML** Type





From Japan

# Nile Air Nippers

Section of blade

Single blade



Standard



Full-flush round type



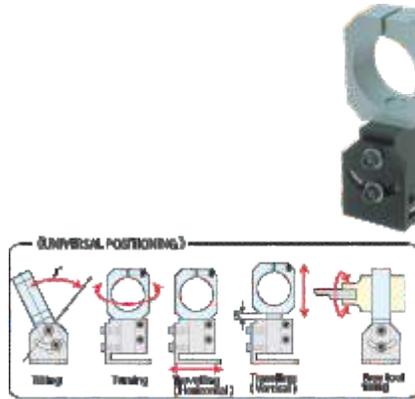
Full-flush flat type



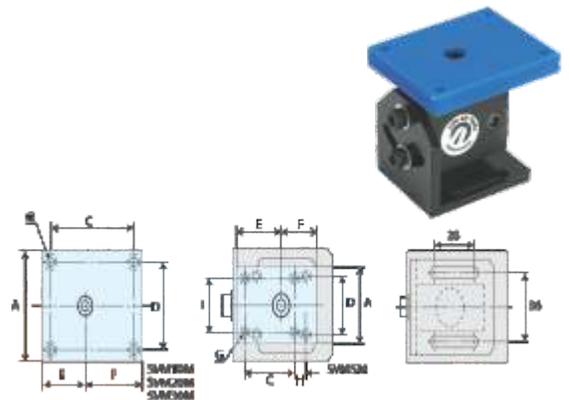
## STAND-HOLDER FOOT VALVE TIMING UNIT



### 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



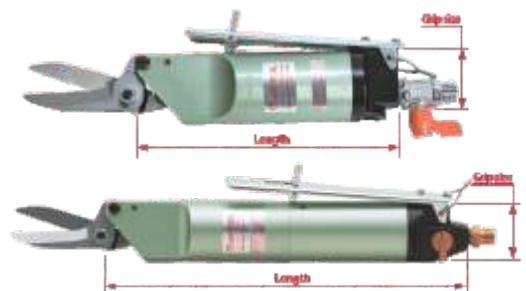
### RH25

Single Blow



### AS Type

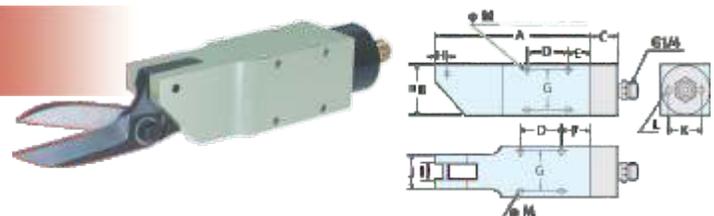
### ASP Type



## AIR SHEARS AIR PLATE SHEARS AIR MULTI-PURPOSE SCISSORS



### AM Type



## 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.

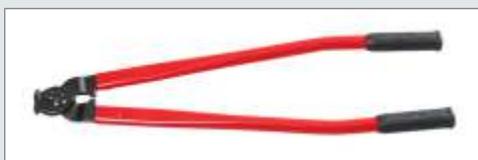


## Concrete Mesh Cutters

- 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.



## Standard Wire Rope Cutters

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

## 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.





**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

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)

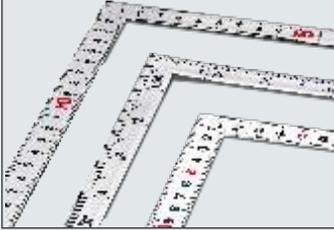
Hydraulic crimping tool AKH150S



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

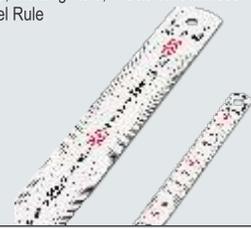
### Carpenter's Squares

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



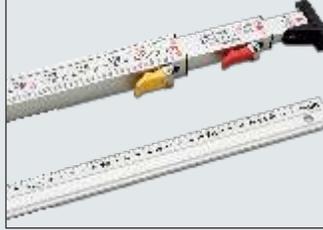
### Stainless Steel Rules/ Machine Scale

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



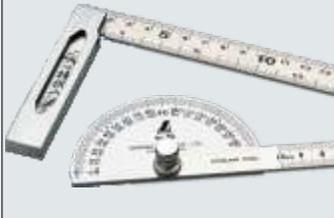
### Resin Folding Rules/ Bamboo Rules

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



### Inclines/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.



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ergonomischer Griff  
ergonomic handle



Bodengleiter  
bottom feet



Metallschloss  
metal lock



Zahlenschloss  
combination lock



Alu-Trennsteg-System  
aluminium divider system



Stoßkantenschutz  
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.

### GloBurr



**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, 1, Burr-Bi

**Flat Surface**

For Sets: C, D, HC, K, U

**Cross-Hole Both Edges**

For Sets: E, M, 1

**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, 1

**Inner Straight Corners**

For Sets: U, 1



## GRINDERS

**TVD 3-100/2**  
100.000 min<sup>-1</sup>



**T3-65 S**  
75.000 min<sup>-1</sup>



**WRH 10-20/3 S**  
20.000 min<sup>-1</sup>



**HB 12 S**  
20.000 min<sup>-1</sup>



**SRD 3-55/2**  
55.000 min<sup>-1</sup>



**SBRD 820**  
20.000 min<sup>-1</sup>



**WRD 6-20/2 ZL 45**  
20.000 min<sup>-1</sup>



## FLEXIBLE SHAFTS

**MBF 30**



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## BURRING TOOLS

**BE 309**  
0 - 900 min<sup>-1</sup>



**BEW 309 E**  
0 - 900 min<sup>-1</sup>



**BE 805**  
0 - 500 min<sup>-1</sup>



**BE 1005**  
0 - 550 min<sup>-1</sup>



**BEW 606 K**  
0 - 600 min<sup>-1</sup>



## FILES & SAWS

**FLV 8 -12 F**  
12.000 min<sup>-1</sup>  
Stroke length 4-9



**PS 3**  
12.000 min<sup>-1</sup>  
Stroke length 8



**PS 25**  
6.000 min<sup>-1</sup>  
Stroke length 25



**PLF 90**  
12.000 min<sup>-1</sup>  
Stroke length 8



**PS 2**  
12.000 min<sup>-1</sup>  
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<sup>-1</sup>



GAS 205  
500 min<sup>-1</sup>



GAF 305  
650 min<sup>-1</sup>



## ROBOT TOOLS

T 27 - 65  
65.000 min<sup>-1</sup>



R 4102  
22.000 min<sup>-1</sup>



Modularsystem  
16.000 -  
100.000 min<sup>-1</sup>



R 36 22  
20.000 min<sup>-1</sup>



RWA 2 - 30  
30.000 min<sup>-1</sup>



BE 805 R  
500 min<sup>-1</sup>



## SCRAPERS

BL 40  
1.800 min<sup>-1</sup>  
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

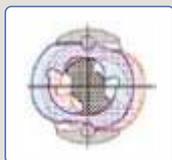
1/4" Impact Screwdriver

## 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



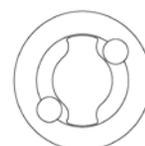
### 1" (25.4mm) sq.drive Impact Wrench

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



#### PIN CLUTCH SINGLE HAMMER CLUTCH

Less vibration  
Quick action to max. torque



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

Model	Square Drive (mm)	Bolt Cap. (mm)	Max. Torque (N-m)	Air Cons. (L/min) (no load)	Air Cons. (L/min) (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)	Air Cons. (L/min) (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

"U-GUIDE" PAT. US6789448B2  
192



### 3/8" (9.5mm) sq.drive Mini Ratchet

- ① Highly durable by "U-GUIDE" device.
- ② Equipped with 3-step speed regulator.

## U-1902

"U-GUIDE" PAT. US6789448B2  
165



### 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



- Low speed
- Medium speed
- High speed
- Air exhaust direction: 360-degree variable



2 grooves  
LOW



3 grooves  
MEDIUM



4 grooves  
HIGH

## 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



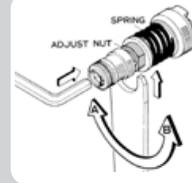
### Screwdriver, straight

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



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ISO 9001 Certification

## 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 rpm	Max. power ps	Lenght		Weight (without wheel)		Thread air inlet in	Average air consumption		Recommended air pressure	
	in	mm			in	mm	lb	kg		ft <sup>3</sup> /min	m <sup>3</sup> /min	PSI	kg/cm <sup>2</sup>
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 rpm	Max. power ps	Lenght		Weight (without wheel)		Thread air inlet in	Average air consumption		Recommended air pressure	
	in	mm			in	mm	lb	kg		ft <sup>3</sup> /min	m <sup>3</sup> /min	PSI	kg/cm <sup>2</sup>
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

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## 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 rpm	Max. power ps	Lenght mm	Height mm	Weight (without wheel) kg	Thread air inlet in	Average air consumption		Recommended air pressure		Adaptor O / X	Method ON, OFF	Exhaust
	in	mm							ft <sup>3</sup> /min	m <sup>3</sup> /min	PSI	kg/cm <sup>2</sup>			
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 rpm	Lenght		Weight (without wheel)		Thread air inlet in	Average air consumption		Recommended air pressure	
	in	mm		in	mm	lb	kg		ft <sup>3</sup> /min	m <sup>3</sup> /min	PSI	kg/cm <sup>2</sup>
DG-38S	-	6(3)	25,000	6.45	164	1.25	0.57	PT 1/4	10.7	0.3	85	6



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## 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 rpm	Lenght		Weight (without wheel)		Thread air inlet in	Average air consumption		Recommended air pressure	
	in	mm		in	mm	lb	kg		ft <sup>3</sup> /min	m <sup>3</sup> /min	PSI	kg/cm <sup>2</sup>
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 rpm	Lenght		Weight (without wheel)		Thread air inlet in	Average air consumption		Recommended air pressure	
	in	mm (φ)		in	mm	lb	kg		ft <sup>3</sup> /min	m <sup>3</sup> /min	PSI	kg/cm <sup>2</sup>
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 rpm	Lenght mm	Weight (without wheel)		Thread air inlet in	Average air consumption		Recommended air pressure	
	mm			lb	kg		ft <sup>3</sup> /min	m <sup>3</sup> /min	PSI	kg/cm <sup>2</sup>
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 r.p.m	Spindle thread in	Lenght Weight Hose size				Thread air inlet in	Average air consumption		Recommended air pressure			
	mm	in			mm	in	kg	lb		in	mm	in	ft <sup>3</sup> /min	m <sup>3</sup> /min	PSI
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 <sup>3</sup> /min	6 kg/cm <sup>2</sup>	PT 1/4
DNH-16	∅ 3.0 X 180 mm	6,000 b/min	0.94 kg	200 mm	0.16 m <sup>3</sup> /min	6 kg/cm <sup>2</sup>	PT 3/8
DNH-16S	∅ 3.0 X 180 mm	6,000 b/min	0.94 kg	200 mm	0.16 m <sup>3</sup> /min	6 kg/cm <sup>2</sup>	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 <sup>3</sup> /min	kg/cm <sup>2</sup>
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

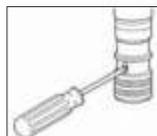
## Screw Drivers Auto Shut off Type

### 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



Spring adjust

Nut adjust

Retainer sleeve

Bit is changeable by pulling forward the retainer sleeve

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 <sup>3</sup> /min	kg/cm <sup>2</sup>
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



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AIR TOOLS**  
FROM KOREA

## 1" Impact Wrench (Light Type)

**New** NEW PRODUCT



**DIW-25HP / 25HPA**

- 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

**DIW-19P (3/4")**



Model	Hex size		Bolt size size	Max torque kg . m	Lenght		Weight kg	Thread air inlet in	Average air consumption		Recommended air pressure	
	mm	in			mm	in			ft <sup>3</sup> /min	m <sup>3</sup> /min	PSI	kg/cm <sup>2</sup>
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")**



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

**DIW-14N (1/2")**



**DIW-8PA (1/2")**

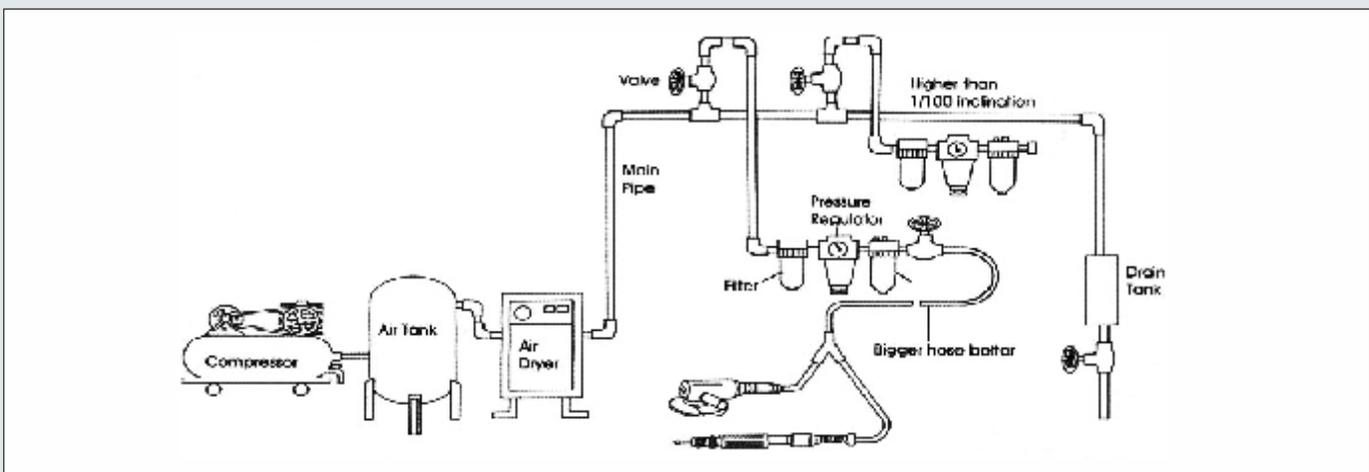


- Specially used in the field of automobile & motorcycle assembly line or maintenance
- Double hammer type

Model	Hex size		Bolt size size	Max torque kg.m	Free speed rpm	Lenght		Weight kg	Thread air inlet in	Average air consumption m <sup>3</sup> /min	Recommended air pressure	
	mm	in				mm	in				PSI	kg/cm <sup>2</sup>
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



### RECTUS Accessories – Blow-Guns

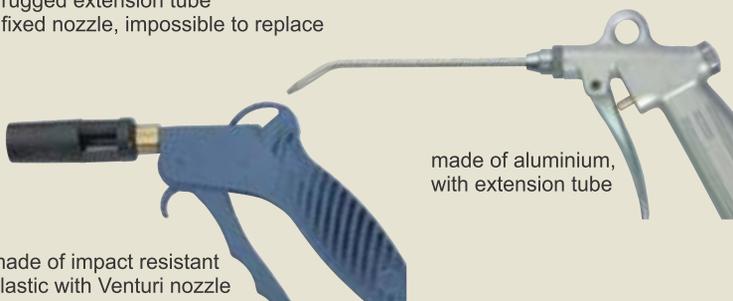
## Blow-Gun Technology



made of impact resistant plastic extension tube  
brass nickel plated  
- rugged extension tube  
- fixed nozzle, impossible to replace



made of red impact resistant plastic with aluminium extension tube



made of impact resistant plastic with Venturi nozzle



made of aluminium, with extension tube

### 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.



including  
- Blow-Gun  
- Hose 6 x 8 mm, length 2,5 m  
- Couplings and plugs Series 26 (DN 7,2)

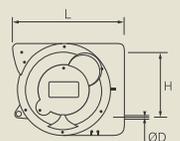
## Hose Reels

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



### 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



### Cartridges and Customised Products

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



### Industrial Blowguns

Polymer  
Metal  
Kits



### Technical Tubing and Hose

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



### 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 Nm<sup>3</sup>/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 10 bar	Filtration	Associated gauge
6707 00 13	G1/4	33m <sup>3</sup> /h	22cm <sup>3</sup>	16 bar	8 bar	0°C to +50°C	30 m	6798 00 05
6707 00 21	G1/2	114m <sup>3</sup> /h	50cm <sup>3</sup>	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.

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.

**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)	

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



#### Drilling Capacity

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

- 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 TR

- 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*



**Brands**

***KTR GERMANY WORLD CLASS COUPLINGS***

ROTEX®  
POLY-NORM®  
POLY Coupling  
REVOLEX® KX

GEARex®  
BoWex®  
BoWex® FLE-PA  
BoWex-ELASTIC®

MONOLASTIC®  
RADEX®-N  
RIGIFLEX®-N  
RIGIFLEX®-HP

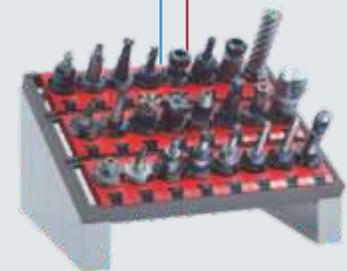
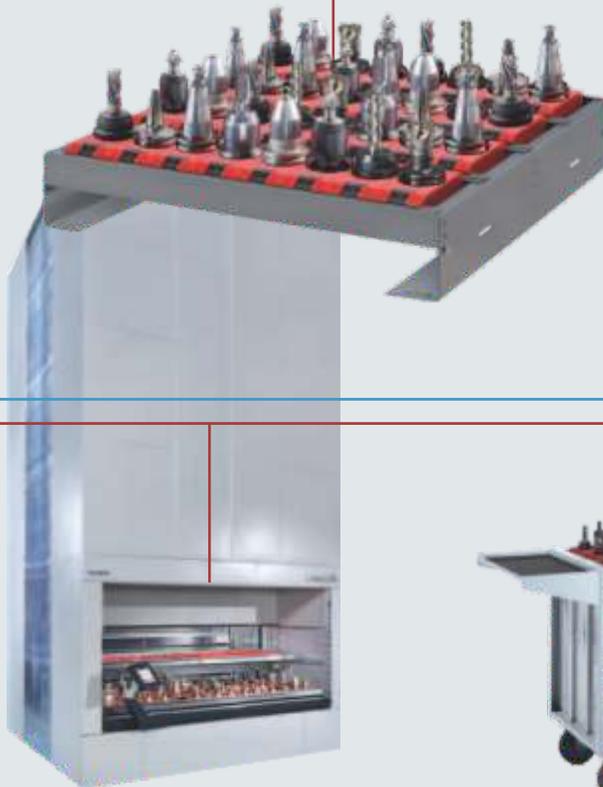
ROTEX® GS  
TOOLFLEX®  
RADEX®-NC  
MINEX®-S  
COUNTEX®

## NC Tools Storage Systems



Storage using insert frames

Storage using tool cradles



### 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

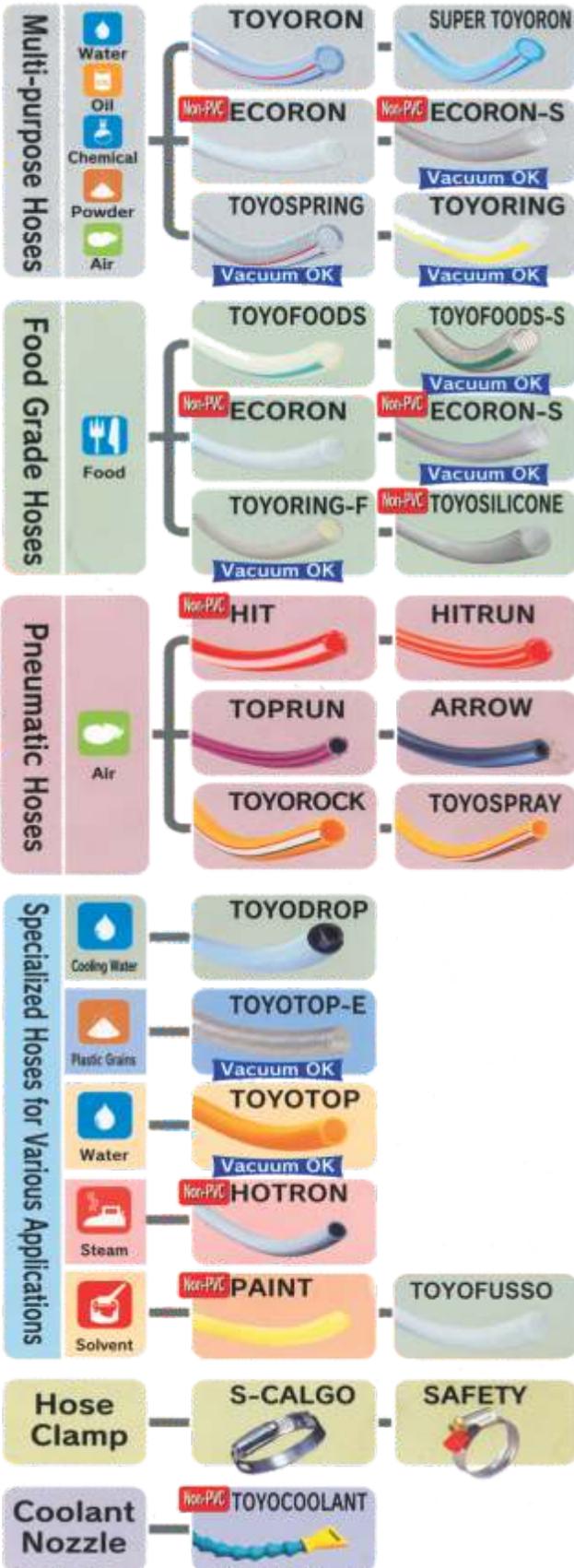
The NC transport unit ensures safe and ergonomic transport. Equipped with an insert frame and/or tool cradle, this brings the tools right to the workplace.

### 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

Vacuum OK



### 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



YUHAI

# Applications of ABS Pipe



ABS Pipe Bin Rack



ABS Pipe Work Table



ABS Pipe Bin Trolley



ABS Pipe Storage Rack System



ABS Pipe Roller Rack

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Bin Rack



Flow Rack



Modular Assembly Line



Abs Pipe Fifo Rack

## Aluminum Profiles & Accessories

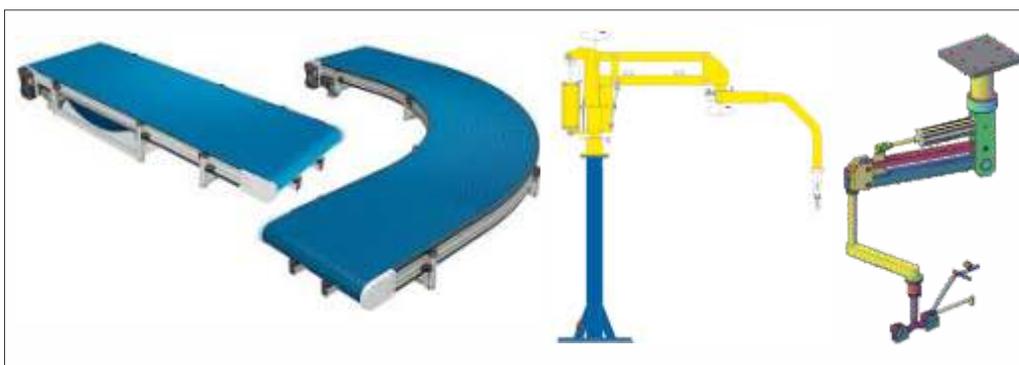


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## 2 way Joints & Plugs: Polyamide & Die Cast



## 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 Foldable Display Board



Aluminium Profile Industrial Work Table



Aluminium Profile Machine Guard



Aluminium Profile I-Board

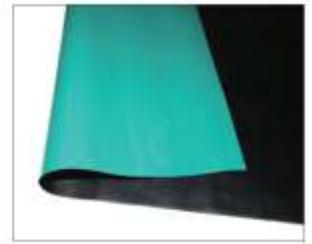
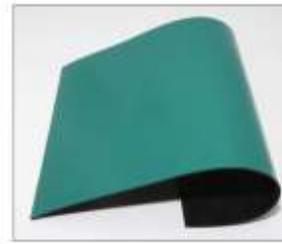
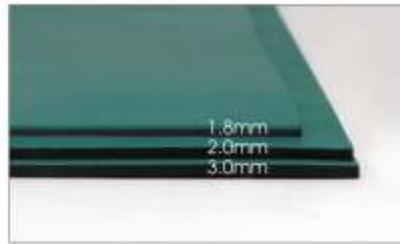
## Our Product Range

- 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



### 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

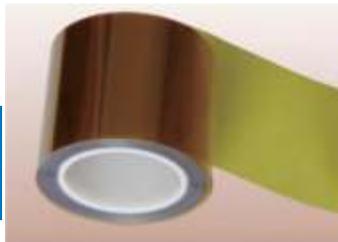


Anti-static SPU slippers

- Upper material: SPU
- Sole material: SPU
- Color: Blue, black
- Size: #34-46
- Surface resistance:  $10^9 \sim 10^{10} \Omega$
- Features: soft, comfortable and durable.

### 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): 6.50
- 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.

### 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	115mm	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: 2.06mm, 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 space 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 anti-static 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

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

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: 155*100*55mm	External imensions: 205*135*65mm	External imensions: 260*175*75mm	External imensions: 300*205*90mm	External imensions: 380*240*105mm
Internal Dimensions: 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				



## 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

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



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## 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**

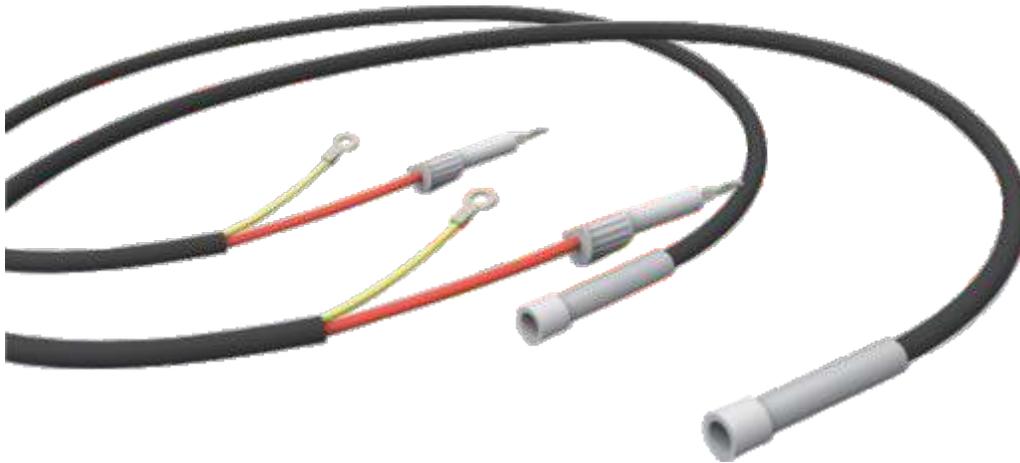
- Electronics
- Injection molding
- Printing
- Film
- Pharmaceutical
- Machinery industries

**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 Length	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



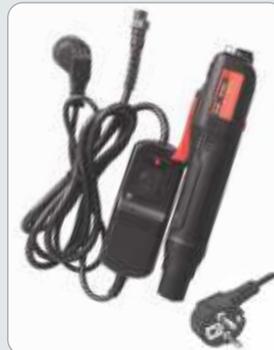
Voltage: 220V 12-36V 50HZ  
 Bit Diameter: 4mm Full -Auto  
 No-load Speed: 300-1400rpm  
 Torque Range: 0.3-5kgf-cm  
 Mechanical Screw: M1.2-2.5mm  
 Tapping Screw: M2-3mm 7.Brushless Motor Using life up to 2years.  
 Package: Carton Box  
 Standard Packing List: 1\*power supply 1\*EL805 Screwdriver 3\*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 Screwdriver 3\*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: M2-3mm 7.Brushless Motor Using life up to 2years.  
 Package: Carton Box  
 Standard Packing List: 1\*power supply 1\*EL805 Screwdriver 3\*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 Screwdriver 2\*Bits  
 1\*Instructions 1\* Warranty card  
 Weight: 1.2kg

## EC518(S1/4)

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 Screwdriver 2\*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  
 Screwdriver 3\*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  
 Screwdriver 3\*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  
 Screwdriver 2\*Bits 1\*Instructions  
 1\* Warranty card  
 Weight: 1.2kg

### EL818E



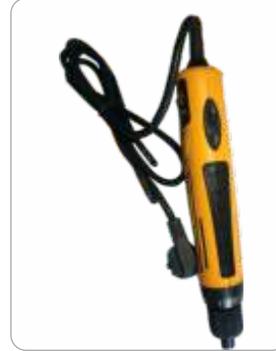
Voltage: 220V 12-36V 50HZ  
 Bit Diameter: 5mm Full-Auto  
 No-load Speed: 300-1400rpm  
 Torque Range: 3-18kgf-cm  
 Mechanical Screw: M2-3.5mm  
 Tapping Screw: M2-3.5mm  
 Brushless Motor Using  
 life up to 2years Digital  
 display,  
 intelligent reminder,  
 memory function  
 Package: Carton Box  
 Standard Packing List: 1\*power supply  
 1\*EL818E  
 Screwdriver 3\*Bits  
 1\*Instructions  
 1\* Warranty card  
 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 supply 1\*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\*Bits 1\*Instructions  
 1\* Warranty card  
 Weight: 0.9kg



# JDT

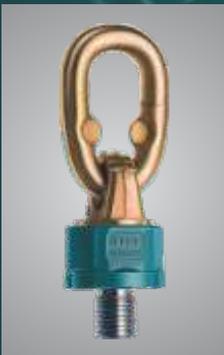
Germany Since 1819

## World Class Lifting Systems & Points

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



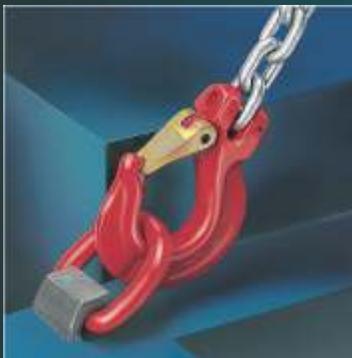
Enormously flat and Good



THEIPA Piont TP

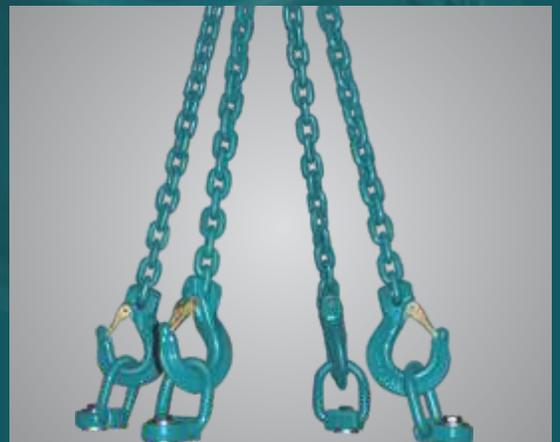
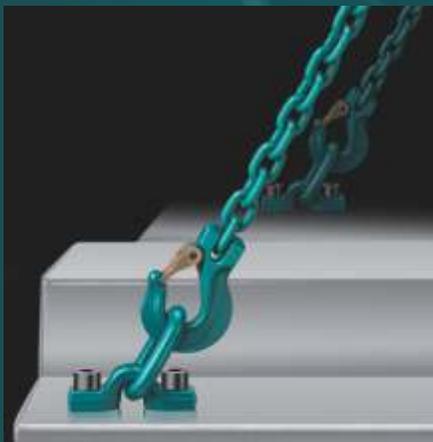


Heavy Engineering - Grade 100-Bolt On-Weld On Attachment Points



Attachment-point to weld-on and bolt-on

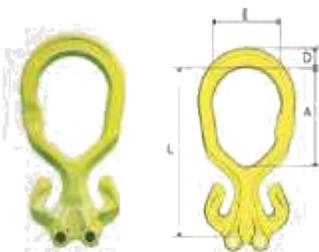
Grade 100 Chain Slings-No Welding Required for Assembling Chain Slings



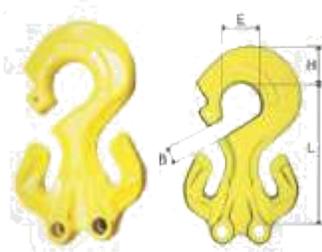
## Chain Pulley Blocks



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/cm<sup>2</sup>)

### 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:**

Mattresses, 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.



**GRIPCOIL**  
[www.gripcoil.com](http://www.gripcoil.com)

Engineered  
to  
Exceed...



## 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. Buoyant 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
- NASM 9376, NASM 1130, NASM21209
- NASM 9359, NASM 9439



## 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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Since 1996

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