



Manufacturing ▪ Marketing ▪ Sourcing

www.amtplindia.com

PRODUCT CATALOG



Manufacturing ■ Marketing ■ Sourcing

amt group was incorporated in 1982, with the objective of becoming an all round partner to business houses in India & abroad.

Over the last 25 years of manufacturing and marketing experience supported by a policy of innovation, amt group is a force to be reckoned in Machine Tools Industry.

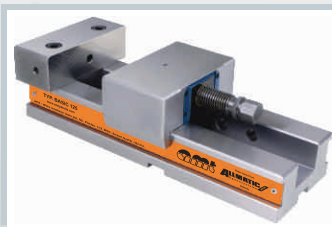
amt has been working closely with its associates on all fronts, right from product Development stages to contract manufacturing.

amt group is now raring to go into European Markets. Our long & a very successful association with **Bilz Vibration Technology AG Germany**, has been the feather in the cap.

amt group today has a marketing network in almost 20 industrial cities across India. With an expertise in marketing and manufacturing, amt should prove to be an ideal partner for European Corporate who wish to establish themselves, in India

The group looks forward to tie-ups in the field of machine tools and machine tool accessories. These tie-ups can be in the field of manufacturing, sourcing and/or marketing. Quality & Schedules are the two aspects which are never compromised in amt . At the same time, amt keeps in mind the cost aspects, which are so crucial in today's competitive era.

amt group of companies with a global presence, will aim to act as an effective sourcing medium for foreign Manufacturing houses, providing them with cost effective, quality conscious & Environmentally Green manufacturing solutions, by way of contracts, collaboration & Joint Ventures.



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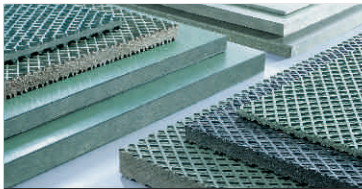


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Antivibration Solutions

- Vibration and structure - borne noise insulation through most modern materials.
- Cost reduction due to flexible machinery.
- Civil Foundation not required.
- Quality improvement through vibration suppression.
- Preservation of machinery and buildings.
- Prolonged tool and machinery life.
- In technical collaboration with BILZ, Germany.

Bilz insulating plates



- Made of Nitrile, Cork particles & cross linked polyester fibre.
- No permanent deformation.
- Resistance to aging and temperature
- Resistance to acid, coolants, oils etc
- Long service life.
- Various plates for different applications.

Vibration Measurement & Analysis Service



- Measurement of vibrations and mechanical shocks.
- Use of most modern measurement equipment (FFT analyser + PC calculation program)

Precision Leveling Wedges



PK Series



PKA Series

- Levelling accuracy of $\pm 1/100$ mm
- Load Range : 500 Kg to 100 Ton
- Applications : Metal Cutting, Metal forming & Plastic processing machines.

Leveling elements



BNSH



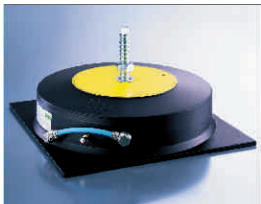
BNR



BNRS

- Levelling accuracy of $\pm 1/10$ mm
- Load Range : 70 Kg to 18000 Kg
- Applications : Metal Cutting, Metal forming & Plastic processing machines.

FAEBI®



- Frequency range - 6 Hz & above
- Load Range - 20Kg/piece to 10400Kg/piece
- Application - Active vibration isolation (for high speed Presses)
Passive vibration isolation (for Measuring equipments)

BiAir®



- Frequency range - 3 Hz & above
- Load Range - 65Kg/piece to 15500Kg/piece
- Application - Passive Vibration isolation for CMM & Engine test beds

AIS™



- Frequency range - Very low range from 1Hz
- Application - Sensitive measuring instruments & machinery for semiconductor industry

Insulated Table



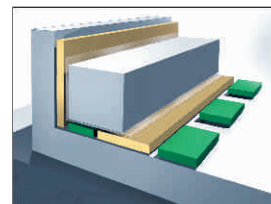
- Frequency range - 5 Hz & above
- Levelling accuracy of $\pm 1/100$ mm
- Load Range - 125Kg to 2600Kg
- Application - Measuring Instruments

VITAP®



- Load Range - 1Kg to 150Kg
- Application - Small Sensitive Instruments, Measuring Instruments
- Portable use.

Isolated Foundation



- Frequency range - 20 Hz & above
- Correct isolation between machine & surrounding area.
- Application - For heavy presses, machining centre & CMM

amt Machine Mounts



Advantages

- Quick and easy installation. No need for anchoring
- Isolate strong vibrations that are dangerous, both for the operator and machinery.
- Achieve a higher work piece quality.
- Reduce maintenance and repair costs as pre-mature wear of machinery is avoided.
- Good resistance to machine coolants and oils

APPLICATIONS

- General Purpose Machine Mount
- Sheet Metal Industry Machine
- Tool Industry Plastic Industry
- Food Industry Beverage
- Industry Pharmaceutical
- Industry

amt Machine Fixators



Advantages

- No horizontal machine movement
- Reduced installation time thanks to effortless and precise leveling
- Precise and accurate machine positioning and leveling
- Considerable reduction in machine maintenance cost Machine accuracy maintained for longer duration
- Sufficient adjustment height. No special foundation required

APPLICATIONS

- High-speed milling and Boring machines
- Horizontal and Vertical machining centers
- Transfer machines
- Surface grinding and Laser cutting machines
- Die-casting and plastic injection moulding machines
- Punching and Press machines
- Turbine and Compressors.
- Printing machines
- Food Industries
- Gear Testing Machines

amt Cushy Foot Mounts



Advantages

- Rubber to metal bonded rectangular elements inclined to achieve maximum load and deflection using a combination of compression and shear loading.
- High strength cast iron castings
- Rubber sandwich elements are effectively protected by the top casting and its extended skirt.
- Two different horizontal stiffness axis enable optimum system characteristics & vibration isolation to be achieved using careful orientation of the mounting

APPLICATIONS

- Gen-Sets
- Engine Test Beds.
- Lift Motor Gear.
- Chillers and Cooling Towers.
- Large Fans and AHU's.
- Pumps, Motors and Compressors
- Vibrating Screens and Hoppers.
- Paper and Printing Machines
- Food Processing Machines
- Blowers

amt Neoprene Mounts



Advantages

- Economical. Quick and easy to install.
- Suitable as shock isolators for both active and passive vibrations.
- Bottom friction surface makes bolting not necessary in most installations
- Neoprene covering prevents corrosion of steel parts
- Prevents noise and high frequency vibrations
- Reduce machine maintenance and cost.

APPLICATIONS

- Axial and Centrifugal Fans.
- Gen-Sets
- Air Handling Units.
- Refrigeration Plant and Chillers.
- Pumps and Motors.
- Rotary and Multi Cylinder Compressors.
- Test Rigs and Special Purpose Machines
- Paper and Printing Machinery



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PRECISION DRILLING & TAPPING MACHINES



- High precision spindle made from alloy steel, hardened & precision ground.
- Hard chrome plated column.
- Graded casting (Stress relieved).
- Alloy steel gears.
- Spindle auto reversal for tapping cycle.
- Robust construction.
- Motor with electrical fitments is a standard feature.
- Machine lamp - a standard feature.
- Stringent quality checks at every level.
- Test chart is provided with every machine.
- Spindle run-out accuracy is within 10 microns.
- Easy belt changing through rack and pinion mechanism.
- Dynamically balanced v-belt pulleys guarantee of secure power transmission even in the lower rotation speeds.
- Machine is recommended for **Thermal Drilling Operation**.

Description	Unit	DB/DC-23	TDB/TDC-23	DB/DC-28	TDB/TDC-28
Drilling Capacity in Steel (MS)	mm	Ø 23	Ø 23	Ø 28	Ø 28
Tapping Capacity in Steel (MS)*	mm	--	M14	--	M16
Spindle Nose Taper	MT	MT2	MT2	MT3	MT3
Threading on Spindle OD	Metric	M32 x 1.5P	M32 x 1.5P	M35 x 1.5P	M35 x 1.5P
Spindle Stroke Max. For Drilling	mm	125	125	125	125
Spindle Stroke For Tapping	mm	--	40	--	40
No. of Spindle Speed	Nos	8	8	8	8
Range of Spindle Speed	rpm	112-2800	56-1400	112-2800	56-1400
Mode of Spindle feed for Drilling	Mode	Manual	Manual	Manual	Manual
Mode of Spindle feed for Tapping	Mode	--	Manual	--	Manual
Column Diameter	mm	80	80	80	80
Spindle to Column Face	mm	240	240	240	240
Spindle face to Work Table	mm	308/600	308/600	308/600	308/600
Clamping area on Work Table	mm x mm	240 x 240	240 x 240	240 x 240	240 x 240
T Slot on Work Table (Size x Qty)	mm x Nos	12 x 2	12 x 2	12 x 2	12 x 2
Spindle face to Base Plate	mm	600/660-1150	600/660-1150	600/660-1150	600/660-1150
Base Plate Working Area (Std)	mm x mm	250 x 250	250 x 250	250 x 250	250 x 250
Base Plate Working Area (Coolant)	mm x mm	250 x 280	250 x 280	250 x 280	250 x 280
T Slot on Base (Size x Qty)	mm x Nos	14 x 2	14 x 2	14 x 2	14 x 2
Main Motor Power**	HP	1/1	0.75/0.75	2/2	1.5/1.5
Net Weight (Approx)	Kgs	165/180	167/182	165/180	167/182
Dimensions (WxDxH)	mm	380x700x1130 480x740x1700	380x700x1130 / 480x740x1700	380x700x1130 / 480x740x1700	380x700x1130 / 480x740x1700

* Spindle auto-reversal facility to enable tapping operation.

** Motor power can be increased upto 3 HP to enable **Thermal Drilling Operations**.

Available Accessories : Anti-vibration mounts, External coolant attachment, Albrecht key-less drill chuck, Clamping vice, Reducer sleeve and Cabinet is available as per customer requirement at extra cost.



Main Features:

1. Powerful and precise universal column drilling machine with stepless drive mechanism.
2. Electro-magnetic clutch for feed.
3. Table adjustable via rack and pinion, rotatable around column.
4. Motor protection, Depth and RPM indicator.
5. Machine base with T-slots.

BS 25 AVST

Technical Specifications

Constant Capacity in St 60	25 mm
Standard capacity	32 mm
Spindle	MT 3
Automatic Feed	0.1-0.16-0.25 mm/turn
Spindle Travel	120 mm
Spindle to Column	260 mm
Spindle to Table	90 to 760 mm
Spindle to base	1320 mm
Table Surface	500 x 365 mm
Column Diameter	110 mm
Weight	285 kg
Pole Changing Motor	0.8/1.5 KW
Stepless Rotation Speeds	120-2200rpm (approx.)
Mode of spindle travel	Manual & Auto
T-slot on work table (Size & Qty.)	(14 mm x 2Nos.)
T-slot on Base (Size & Qty.)	(14 mm x 2Nos.)
Dimension (LxWxH)	900x600x1850 mm

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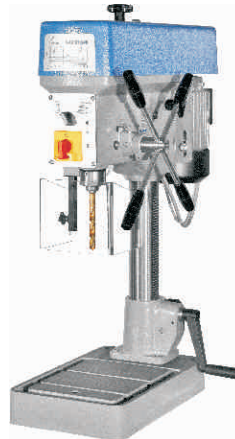
ECOMAX 14



UNIMAX 1 TAP



BT 18



BT 6



Constant Capacity	14 mm	Constant Capacity	15 mm	Constant Capacity in St 60	18 mm	Drilling Capacity in St 60	0.5 - 6 mm
Spindle	MT 2	Spindle	MT 2	Spindle	MT 2	Spindle	B 12 or MT 1 (1)
Column Diameter	65 mm	Column Diameter	65 mm	Column Diameter	75 mm	Column Diameter	75 mm

UNIMAX 4 Basic



BRK 18



BT 15 GL⁽³⁾



BT 23 GL⁽³⁾



Constant Capacity in St 60	35 mm	Distance Between Units	370 mm	Tapping Capacity	M 3 - M 10	Tapping Capacity	M 3 - M 20
Spindle	MT 4	Height of Table	860 mm	Spindle	MT 2	Spindle	MT 3
Column Diameter	120 mm	Length of Table	370 mm	Column Diameter	75 mm	Column Diameter	110 mm
		Depth of Table	460 mm ³				
		Throat Working Depth	340 mm				

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High Precision Milling Vice

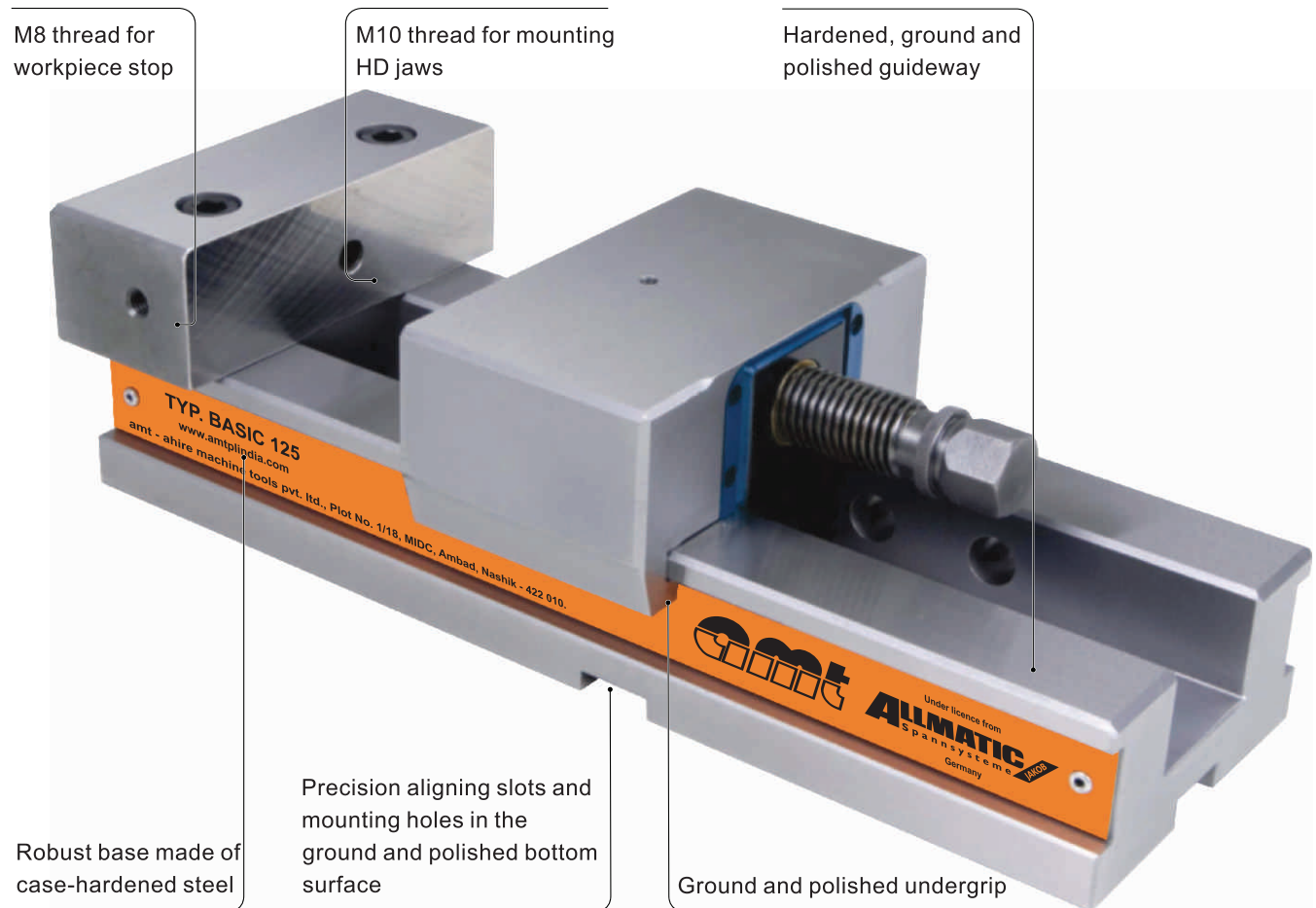
Scope of application:

- Conventional and CNC-controlled milling machines - for efficient, precision machining
- Horizontal installation - great variability and flexibility

Product features:

- Excellent ease of operation guarantees optimal handling for every application
- Fast adjustment for clamping range presetting
- Operation with the ring wrench supplied

- Reproducible clamping forces are achieved using a torque wrench
- Integrated scrapers ensure functional reliability and minimise cleaning
- Fixing on the machine table by means of mounting holes in the vice base. Additional holes can be made in the soft middle section of the vice base
- Optional centre jaw allows two or more workpieces to be clamped



Size : 125mm / 160mm

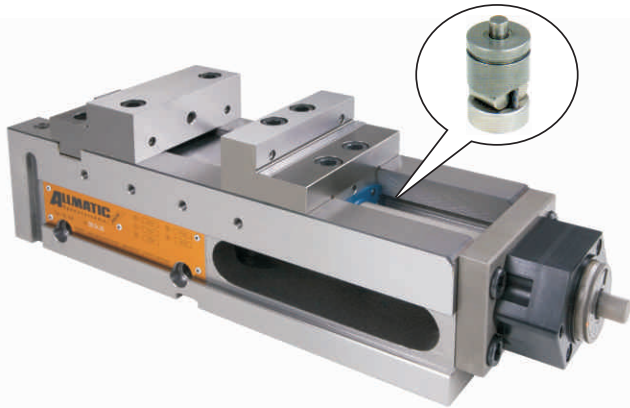
Scope of supply :

- 1 basic vice with clamping jaws
- 1 socket screw wrench
- 1 ring wrench
- 4 side clamp

TYPE	125mm	160mm
Clamping Range	0-208	0-283
Torque in Nm	85	120
Max Clamping in KN	35	50
Weight in Kg	13.5	26

Manufactured in India under Licence from
ALLMATIC - Jakob Spannsysteme GmbH, Germany
 Web : www.allmatic.de

High Precision Machine Vice



The purely mechanical power intensifier with high pressure spindle remains our core product - its design and special long-life lubrication make it extremely safe to operate and virtually non-wearing.

In addition, our vices are fitted with a fully enclosed spindle, which further increases operational safety of the vice via its optimal chip protection and minimal cleaning requirements.

Allmatic NC - Mechanical / LC

Used for horizontal installations.

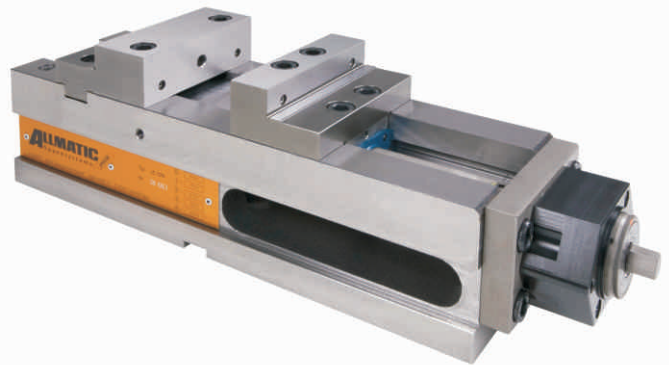
Superb precision for your workpiece machining.

The clamping force can be preset in 4-11 increments.

Max. clamping force with 2 revolutions.

Clamping forces can be preselected and thus reproduced ensuring exact repeatability of the workpiece position.

Jaw with 90, 125, 160, 200mm (base 160 mm)



Allmatic NC - Mechanical / TC

Used for horizontal, vertical and lateral installations.

The TC vice is polished on all sides.

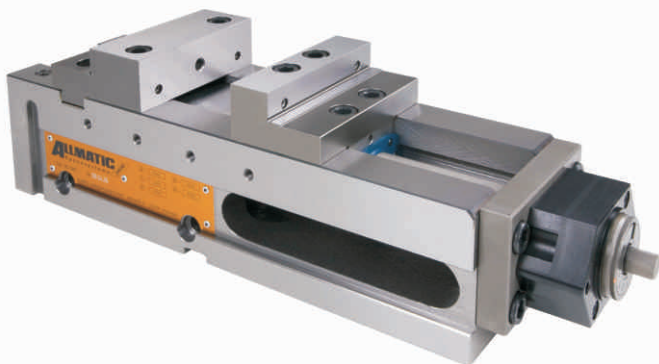
Superb precision for your workpiece machining.

The clamping force can be preset in 4-11 increments.

Max. clamping force with 2 revolutions.

Clamping forces can be preselected and thus reproduced, ensuring exact repeatability of the workpiece position.

Jaw width 70, 90, 125, 160, 200 mm



Allmatic NC - Mechanical / DUO

Used for horizontal installations.

Superb precision for your workpiece machining.

The clamping force can be preset in 4-6 increments.

Max. clamping force with 2 revolutions.

For clamping of two identical parts (± 3.5 mm)

Jaw width 90 mm.



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ALLMATIC - Jakob Spannsysteme GmbH, Germany

Web : www.allmatic.de

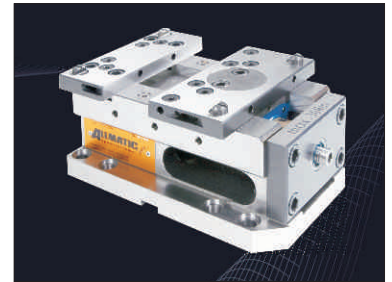
The "Gripp" series vices from Allmatic are specially designed for modern CNC controlled milling machines.

The advantages are

- Direct clamping of unmachined parts (casting, forging) flange, cut materials and sawn materials.
- Optimal accessibility for machining of 5 sides.
- Different workpiece shapes can be clamped.
- Special mechanical power transfer device generates high clamping forces.

ALLMATIC T-REX MIND THE JAW

This compact vice sinks the sharp "teeth" of its gripper into your workpiece. The ALLMATIC T-REX is indispensable for clamping unmachined parts for 5-sided machining.

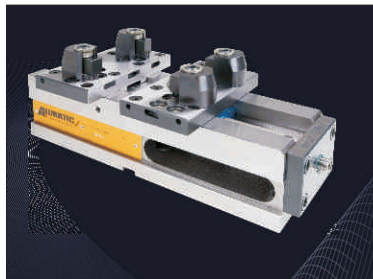


ALLMATIC CENTRO GRIPP- SELF CENTERING

Horizontal installation- suitable for vertical CMC - controlled milling machines Lateral installation is also possible.

ALLMATIC DUO PLUS 125 - ONE OF A KIND

Horizontal, vertical & lateral installation- suitable for vertical & horizontal CMC- controlled milling machines- both for heavy machining & for precision finishing.

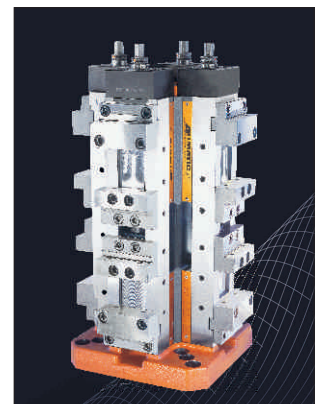


TITAN 2 -FLEXIBLE - STRONG - COMPACT

Uniquely adaptable. The ALLMATIC TITAN is suitable for both conventional clamping & gripper clamping in combination with pull down technology

TOMBSTONES FOR HORIZONTAL MACHINING

In addition to our standard products ALLMATIC offers a wide range of customized solutions Each of which can be individually tailored to your machine, workpiece and machining techniques. The majority of these solutions are monoblocs and setups.



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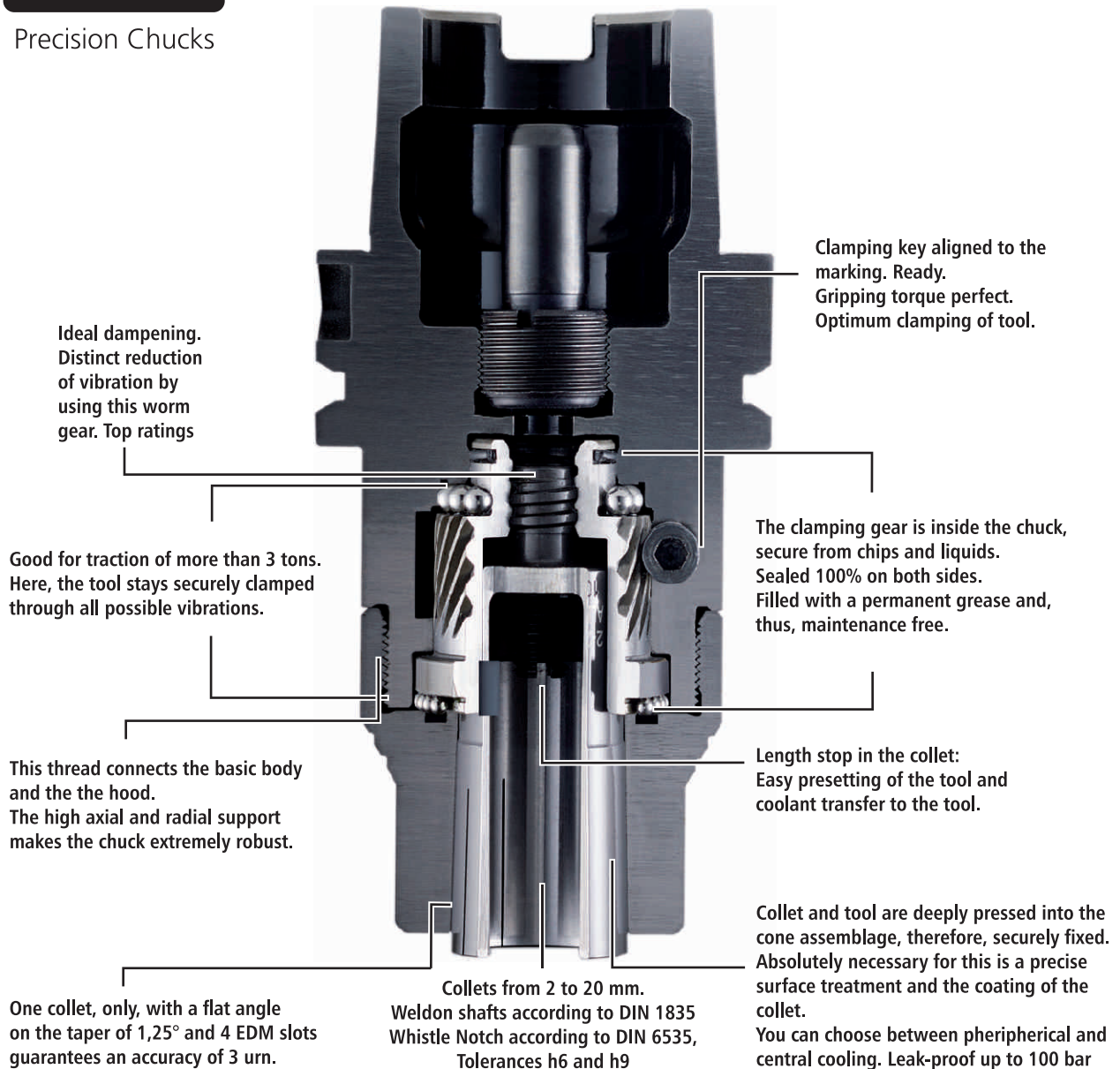
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Web : www.allmatic.de



Few features of APC are as below

- ♦ **Extremely high clamping torque:**
Gripping torque >200Nm at Dia. = 12mm
Gripping torque >330Nm at Dia. = 16mm
This is almost 2.5 times more than hydro-grip chucks & 2 times more than shrinking fit chucks.
- ♦ **High run-out accuracy:**
Deviation <3 microns at distance of 2.5XD.
- ♦ **Positive vibration dampening feature:**
This improves the cutting performance & micro disruptions of the tool are minimised.
- ♦ **Fast & easy tool & diameter change:**
Insert collet with tool, clamping, ready for drilling, reaming, precision finishing or heavy duty roughing. No need of expensive tool changing devices like required in shrinking fit chucks.
- ♦ **Chuck available in**
DIN 69871 (SK Taper) DIN 69893 (HSK Taper)
JIS B 6339(MAS BT Taper) ISO 26622-1 (KM63 XMZ)
- ♦ **Micro chuck extension available in**
AMC with collet (D1.0 - 6.0mm, accuracy < 8 u,m)
AMC with jaws (D0.2 - 1.5mm/D1.5 - 3.0mm, accuracy < 30 urn)

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Self Tightening Drill Chuck for Sensitive Drilling



SIZES

- 0.2 - 1.5 mm (B06/J0)
- 1.5 - 3.0 mm (B06/J0)
- 0.2 - 3.0 mm (B06/J0, B10, J01)
- 0.5 - 6.5 mm (B10, B12, J01)

ALBRECHT Keyless Drill Chucks are well known as world's most consistently accurate drill chucks.

All ALBRECHT chucks are produced with highest precision and are 100% inspected for quality. This ensure maximum clamping and highest guaranteed concentricity.

This results in precise bore size and improved cutting tool life.

Self-Tightening Drill Chuck with Integrated Cylindrical Shank



SIZES

- ∅ 16x60 mm
- ∅ 32x60 mm
- ∅ 5/8"x60 mm

Self Tightening Drill Chuck



SIZES

- 0.5 - 10 mm (B12, B16, G04, J02, J33)
- 1.0 - 13 mm (B12, B16, J02, G04, J33, J06)
- 3.0 - 16 mm (B16, B18, J06)

Stainless Steel 100% for Medical Application



SIZES

- 0.2 - 1.5 mm (J0/B06)
- 0.2 - 3.0 mm (J01, G02)
- 0.6 - 7.4 mm (J01, G02,)

Key Less Drill Chuck with Integrated Arbor



SIZES

- 0.5 - 6.5 mm (MT2)
- 1.0 - 13 mm (MT2, MT3, MT4)
- 3.0 - 16 mm (MT2, MT3, MT4)

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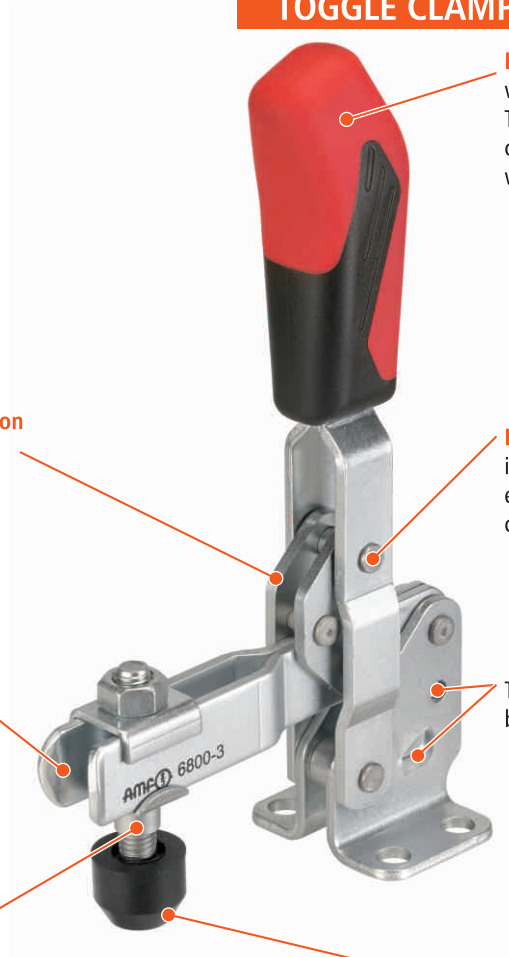
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Toggle Clamps

TOGGLE CLAMPS MANUAL AND PNEUMATIC



Ergonomic 2 - component handle with high ease of use due to increased grip area. The grip area made of soft components is combined with the hard base material, which sits firmly on the clamp.

Safety clamping piece with finger protection and integrated stop, tamper proof.

Rivets of stainless steel set in case-hardened steel bushes ensuring durability and provide a consistent performance.

Retainer for clamping screws. Suitable for later insertion of pre-assembled clamping screws.

The opening angle can be changed by pressing in a stop pin.

Clamping screws (8.8) can be adjusted quickly using the washer-nut carried in the clamping arm.

Clamping screw with removable rubber cap.

Vertical Acting Toggle Clamps



Horizontal Acting Toggle Clamps



Push-Pull Toggle Clamps



Hook Type Toggle Clamps



Stainless Steel Toggle Clamps



Black Toggle Clamps



Pneumatic Toggle Clamps



Pneumatic Swing Clamps



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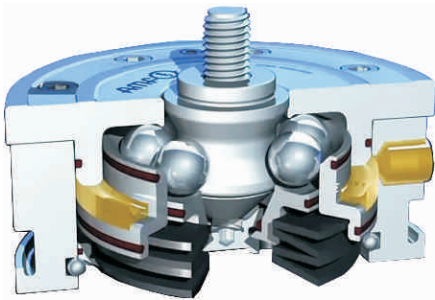


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Installation Clamping Module K 10.2

Hydraulic opening. Cover and piston hardened.
 Pneumatic blow-out. Repeatability < 0.005 mm.
 Opening operating pressure: min. 50 bar - max. 60 bar

Application

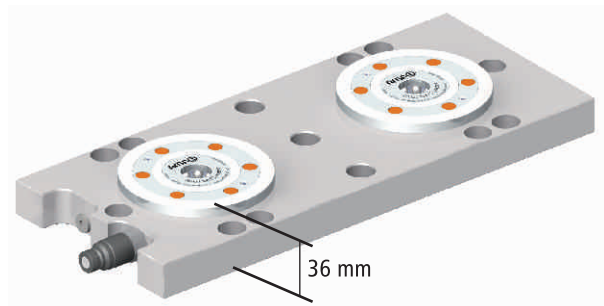
Zero-point clamping system for set-up-time-optimized clamping with cutting and non-cutting processing in all areas, also in the food, pharmaceutical and chemical industry.

Installation Clamping Module K10.2 with 4-way indexing

Hydraulic opening. Cover and piston hardened.
 Pneumatic blow-out. Repeatability < 0.005 mm.
 Opening operating pressure: min. 50 bar - max. 60 bar

Application

Zero-point clamping system for set-up-time-optimized clamping with cutting and non-cutting processing in all areas, also in the food, pharmaceutical and chemical industry.

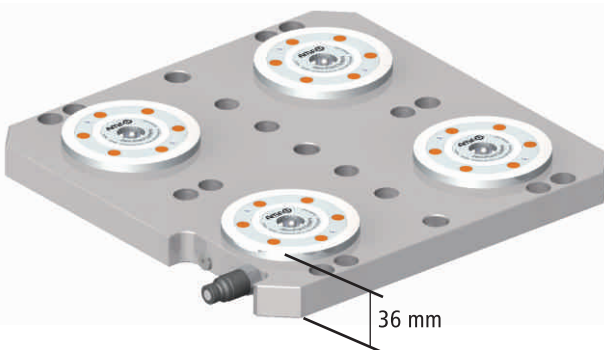


Double Clamping Station

Hydraulic unlocking. Base plate: Steel, unhardened.
 Pneumatic blow-out. Repetition accuracy < 0.005 mm.
 Clamping modules' contact surface: Steel, stainless and hardened.

Advantage:

Low overall height of only 36 mm.



Quadruple Clamping Station

Hydraulic unlocking. Base plate: Steel, unhardened.
 Pneumatic blow-out. Repetition accuracy < 0.005 mm.
 Clamping modules' contact surface: Steel, stainless and hardened.

Advantage:

Low overall height of only 36 mm.

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Email : bilzindia@gmail.com

Marut Energy Equipments Pvt. Ltd.

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Email : sales@amtplindia.com

CORPORATE OFFICE : D-1/18, M.I.D.C. Ambad, Nashik - 422 010 INDIA.

Ph. : +91-253-2307662, 6512439



Anti-Vibration Solutions



Drilling Machines



Work Holding Solutions



Zero Point System & Toggle Clamps



Precision Chucks



Drilling & Tapping Machines