

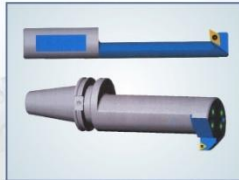
## Custom Made Speical Indexable Toolings.



**Custom Designing Tools for  
The Twenty-first Century!**

### PRODUCT LIST

- ⌘ Form Grooving Tool Holder
- ⌘ Combination Tool Holder
- ⌘ Profile Tool Holder
- ⌘ Form Mill Cutter
- ⌘ Extended Length Drill
- ⌘ Cartridges
- ⌘ Multigroove Tool
- ⌘ Bore and Counterbore Tool
- ⌘ Twin Edge Tool Holder & Boring Bars
- ⌘ Special Trepan Tool
- ⌘ Face Groove Tool
- ⌘ Back Bore and Profile Tool
- ⌘ Special Cartridge Tool
- ⌘ Bore and Face Tool
- ⌘ Micro Boring Bar
- ⌘ Trepan Cartridge
- ⌘ Finish Trepan Tool
- ⌘ Core Drill with Countre Bore



**TOOLFLO  
TECHNOLOGIES**

www.MARUTHI 96523 33833



**TOOLFLO  
TECHNOLOGIES**

Product Profile

- ⌘ INDEXABLE CUTTING TOOLS  
Turning - Milling - Drilling
- ⌘ INDEXABLE INSERTS  
Carbide - CBN - Diamond
- ⌘ SPINDLE TOOLING SYSTEMS  
ISO - BT - CAT - HSK - BIGPLUS - CAPTO
- ⌘ TOTAL THREADING TOOLS  
Threading - Taps - Guages
- ⌘ DEEP HOLE PRECISION ANTI VIBRATION BORING TOOLS
- ⌘ CUSTOM MADE SPECIAL INDEXABLE TOOLS
- ⌘ MACHINE TOOL ACCESSORIES

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Toolflo Technologies is based in coimbatore and founded by people with years of experience in the metal cutting tools industries believing in bringing value & cost effective products to our customers.

We also specialize in the manufacturing of customized high precision Tailor made indexable cutting tools (Twin Edge External & Internal Tool Holder & Combination Drill cum counter Bore & Back Boring Rough & Finish tools & Special Milling Cutter & Spot Face Cutters & Core Drill and any profiling Tool in the metal cutting application, Forming Carbide inserts, PCD & CBN cutting tools that are widely used in numerous industries such as Oil & Gas, Aerospace, Mould & Die, Small Tools, Automotive, General Machining and etc.

Toolflo Technologies is the official distributor in coimbatore for:

**\* Motherson Techno Tools :**

- \* **Sumitomo** : Total Carbide inserts - cutter, grooving, milling, drilling, threading, CBN & PCD insert & Toolings.
- \* **BIG DAISHOWA** : Total tooling system BT Serious - HSK, BIG Plus - CAPTO - ANGLE head-speed increasers
- \* **Heule** : Total Deburring Systems Front & Back - Deburring, Front & Back spot facing & Drill cum champering.
- \* **Echain** : Indexable cutting tools / Turning / Milling / Drilling / Grooving.
- \* **Monkula** : Deep holes precision boring & anti Vibration toolings.
- \* **FANAR** : Total Threading solution / Threading / Thread Milling / Tapes / Gauges

We represent some of the best manufacturers in the cutting tools business providing the world with the cutting edge! The products that we represent from these prestigious manufacturers ranging from Indexable Carbide Insert, Threading & Grooving Tools, Drills & Taps, Milling & Lathe Cutters, Toolholders & Boring Bars, Solid Carbide Endmill and almost for all the metal cutting industries needs.

Our aim and mission is to be your One-Stop metal cutting Solution provider to your entire manufacturing needs.

Authorized Distributor for :



Innovative Threading Solutions

The Tools Factory FANAR in Ciechanow is at the moment the biggest national producer of threading tools. 40 years of experience in producing tools, continuous technical progress, systematical technological development and high level of customer service make FANAR had implemented and applied system of quality improvement ISO 9001 guarantees permanent high tools quality.

PRODUCT LIST

- ∴ Hand taps (sets)
- ∴ General purpose machine taps
- ∴ High performance machine taps hssse
- ∴ Screwing dies
- ∴ Gauges for threads and holes
- ∴ Tools and additional materials
- ∴ Tapping chucks



**Custom Made Speical Indexable Toolings.**

Customization of indexable tool holders is important to making manufacturing as efficient as possible. Utilizing special indexable tooling to cut seconds from your cycle time can generate major savings. In the past, having special indexable tool holders manufactured **Toolflo Technologies (TFT)** now offers a solution **TFT** Weerd specializes in the complete design and construction of special indexable tooling. We take our customers through every step of the tool design Process. **TFT** offers exceptional quality with on time delivery at a competitive price.

- >> Concept Design
- >> Engineering
- >> Cycle Time Reduction
- >> Process Development
- >> Trouble Shooting



ECHAINTOOL INDUSTRY CO., LTD, is a professional manufacturer of Indexible Cutting Tools

**Features :**

- Accurate indexing with the insert securely clamped.
- No insert movement during high speed or heavily interrupted machining.
- Insert clamping action is simple and effective Increased insert tool life.



**PRODUCT LIST**

- TOOL HOLDER
- BORING BAR
- GROOVING TOOL
- INSERT TYPE END MILL CUTTER
- INDEXIBLE DRILL



**Monkula Enterprise Co., Ltd.**

Monkula Enterprise is a well experienced company with Design & Manufacturing Deep hole Precision Machining tools for several years Giant / Combination & Removable type lathe boring bars & Half Thread Cutters.



**PRODUCT LIST**

- Removable Type Lathe Boring Bars (Ratio 5 - 14 above)
- Anti-Vibration Shell Mill Holders (Ratio 5 & above)
- Fine - Tuning Anti-Vibration Boring Tool (Ratio 5 & above)
- Three Section Anti-Vibration Boring Bars (Ratio 6-10)
- Combination type Lathe Boring (Ratio 6 & above)
- Giant Combination type lathe Boring tools (Ratio 10 & above)
- Removable Type Boring cutting head
- Half-Thread Process tool



Authorized Distributor for :



Motherson Techno, provide integrated tooling solutions for all your machining requirements. Whether it is tools for metal cutting tools and precision tool holding systems, we provide state-of-art solutions from GLOBAL LEADERS in their respective fields.

Inhouse manufacturing of CBN & PCD Tools - both Standard ISO inserts and customised from our state-of-art manufacturing facility at Noida, in India, in technical license with Sumitomo Hard Metal, Japan



**PRODUCT LIST**

- Indexable carbide /Cermet inserts (Turning,Boring ,Drilling,Milling, Threading ,Grooving)
- Tool Holders & Boiring Bars
- Milling Cutters Indexable / Solid carbide
- Indexable Drills / Solid carbide
- Cubic Boran Nitrate (CBN) Inserts
- Polycrstyle Dimaond ( PCD ) Inserts



**TURNING**

Sumitomo make it their mission to design and produce exceptionally innovative and advance cutting tool solutions. Every Sumitomo solution is painstakingly developed to meet your need for higher productivity and precision. since 1887

**SumiTurn X-Bar**



Designed for deep-hole boring, our revolutionary anti-vibration X-bar features a special dampening mechanism that eliminates chatter and results in extremely fine finished and extra long tool life. Ideal for extended overhangs, the X-bar provides smooth finishes at up to 6X the length to diameter. The X-Bar is priced to complete with a solid carbide bar step boring, bottom facing and copying. All X-Bars are coolant thru and available with CCMT, TCMT and TPMT style inserts in a wide variety of chipbreakers - including our new ELU and ESU. Shank sizes range from 12 mm - 25mm.

**AC510U/AC520U Grades**

With up to 1,000 layers of TiAlN and AlCrN coatings alternately stacked, higher speed capabilities and greater wear resistance can be achieved with the new AC510U/AC520U. The AC510U grade is capable of finish machining of exotic materials, while the AC520U grade is superior in roughing and medium cut machining applications. The grades are available in both molded and ground insert types.



## TURNING



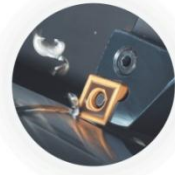
### SumiTurn T-Rex



Our new 55° SumiTurn T-Rex triangle insert is a cost-effective replacement for the 55° DNMG. The T-Rex features six cutting edges, compared to the four edges of a conventional DNMG. These contoured edges result in rigid clamping within the turning system, and provide for accurate insert indexing. Choose from our four grades T2000Z, AC700G, Ac2000 and AC 3000 to meet your needs when finishing steels, stainless steels and cast irons. Maximum cutting depth is 2.5 mm (0.1000"). T-rex inserts are exclusively compatible with T-Rex turning toolholders and boring bars.

### AC610M/AC630M Stainless Steel Machining

The AC610M/AC630M is Sumitomo's new cutting edge technology for steel and stainless steels. The AC610M offers high speed, high efficiency cutting with a high hardness substrate. Good plastic deformation and wear resistance make the AC610M an ideal grade in our steel and stainless steel category. The AC630M is a general cutting grade with a high strength substrate with good peeling and notch wear resistance. Both grades offer a polished insert face and cutting edges with a new thin CVD coating layer that excels in difficult to machine materials.



### AC410K / 420K Cast Iron Machining

Sumitomo's AC410K grade consists of two types of coating layers - the Super FF Alumina layer and the Super FF TiCN layer - both of which provide excellent peeling resistance and improved overall insert stability. Its ultra-thick, inner Super FF Alumina layer provides exceptional thermal resistance, while the outer Super FF TiCN layer excels in chipping resistance. The grade combines these coatings with an exceptionally hard carbide substrate, resulting in excellent wear resistance in continuous to light interrupted machining of grey and ductile cast iron. Additionally, the excellent wear resistance and superior toughness of the AC410K have at least DOUBLED the tool life of conventional cast iron grades. Consisting of a wider application range, the AC410K is capable of covering medium to high-speed machining applications. The AC410K grade is available in positive insert styles for light to medium cutting applications and negative insert styles for light to rough cutting applications.



### AC820P AND AC830P for general purpose Steel Turning

New grades AC820P and AC830P is not only more wear resistant than conventional coatings, it also reduces the possibility of chip adhesion due to its smoothness. Combined with newly developed carbide substrates, the AC800P series offers higher speed capabilities and a greater resistance to breakage than conventional carbide grades when machining steels and stainless steels. The AC820P excels in general purpose machining and is available in a wide variety of chipbreakers, including the new high efficiency NGE. For interrupted applications, the AC830P is the first choice among P30 grades. Its exceptional toughness can sustain more impacts than conventional P30 grades.



### COFA - Universal Deburring Tool



#### Deburring Tool for Elliptical Holes and Irregular Parts

- Replaceable solid carbide coated blades
- Blade coatings offer longer tool life and increased performance
- Sizes 4 - 41mm (.157-1.614") available from stock
- Breakthrough technology provides consistent quality

### VEX-S - Drill/Deburr Combination Tool

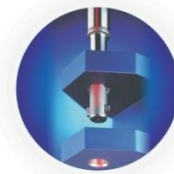
Combines a replaceable solid carbide high performance twist drill with Heule's patented SNAP chamfering system to make drilling and front and back chamfering in a single operation possible.

- \* Excellent for machining smaller diameter holes.
- \* Replaceable drill tip can be reground and recoated for optimum cost effectiveness.
- \* Available from stock in sizes 5mm-10.5mm



### DEFA - Precision Chamfering Tool

Double-bladed DEFA Chamfering tools create preadjusted front and back chamfers in a single pass without stopping or reversing the spindle. Sliding surface blade geometry prevents damage to finish hole surfaces. Exact chamfer diameters can be set without trial and error. Repeatable chamfers regardless of burrs or material. Available in sizes from 4mm to 44.5mm.



### SOLO - Back Counterboring and Spotfacing

The SOLO tool is an easy to program tool for automatic back spotfacing through holes with positive control in a single operation. No anti-rotation device or machine adaptations are required.

- Tool is suitable for all CNC, transfer, dial or multi-spindle machines.
- No change of spindle rotation, no contact mechanism and no coolant pressure required for blade activation.
- Easy handling - quick blade change by hand without any additional tools.
- Available in sizes 8mm-30mm with thru coolant available





### Mega Chuck

The Big Brand EWorld-class Quality, Precision and Efficiency

At Big Daishowa Seiki, their mission is to always deliver top-quality products based on superior technology. They are dedicated to building on their excellent human resources to achieve quality as a united group. This applies not only to products, but to quality in all their work. This is the attitude that they have named "United in Quality, Etheir permanent motto.

It was from this concept that the Mega Chuck series was born. Capable of rotation speeds of up to 40,000 rpm, the Mega Chuck series achieves both high rotation speed and high precision.

They offer many other products as well such as for boring and tapping for a variety of cutting operations



### Angle Head

AG90 Angle Heads, with a fixed 90° spindle angle, combine vertical and horizontal operations on one machine. They increase productivity by easily changing the angle of the cutter while utilizing the original workpiece setup. This improves overall accuracy and eliminates the potential for error created by multiple setups. The compact design minimizes overhang adding rigidity and strength, as does the standard BIG-PLUS® shank for CAT & BT versions. Three AG90 types available: NBS Type, HMC Type and Build-Up Type



As the industry leader, Heule Tool Corporation manufactures the highest quality, most reliable cutting tools designed to give you a superior finished part off the machine. You can find Heule Tool Corporation tools in some of the world's largest manufacturers in the field of deburring & spot facing tooling systems

PRODUCT LIST

- ∴ COFA : Universal Deburring Tool
- ∴ SNAP : Simple Chamfering Tool
- ∴ MICRO SNAP : Micro Chamfering Tool
- ∴ GH-K : Precision, Chatter-free Countersinks
- ∴ VEX-S : Drilling/ Chamfering Combination Tool
- ∴ SOLO : Automatic Back Counterboring Tool
- ∴ COMBI : Drilling / Chamfering Combination Tool
- ∴ GH-Z/E : Automatic Back Spotfacing Tool
- ∴ DEFA : Adjustable, Precision Chamfering Tool



## MILLING

### Spider-Mill

The new SumiMill Spider-Mill is a 90° double negative milling cutter with a positive cutting insert geometry. The Spider-Mill makes it stand out in the marketplace in to face milling applications involving grey cast iron and ductile cast iron. The Spider-Mill insert has 8 cutting edges and is available in the new ACK100 and ACK200 grades. With its unique positive chipbreaker, the Spider-Mill provides less cutting force and more productivity resulting in longer tool life for your applications.



### WFX Cutter

Sumitomo presents a new WFX Type cutter suitable for a variety of materials, including steel, cast iron and stainless steel. This cutter allows high cutting efficiency, especially in shoulder milling, as well as providing a finer surface finish and squareness compared to other branded cutters. In addition, this WFX Type cutter is capable of cutting workpieces to a depth of 10 mm. The WFX Type cutter comes with oil-holes as standard. Standard cutters are available from 50 mm to 250 mm in diameter, and from 50 mm to 250 mm in diameter for the shank type. The four-sided inserts are available in three grades that provide both wear and fracture resistance, making this cutter the perfect choice for increasing production efficiency while decreasing production costs



### WEX Endmill/Shellmill

Sumitomo new WEX Endmill is the latest technology in 90° shoulder endmills. The smooth cutting technology is due to the precisely engineered high positive rake insert. The WEX is capable of high feed rates due to the strong cutting edges, making it highly efficient in metal removal. The WEX is equipped with our new ZX coating for steels and irons and can greatly extend your tool life with our new PCD and CVD coated grades.



### Goal Mill Cutter for cast iron finishing

The GOALMILL provides excellent surface finishes through the use of tangentially mounted inserts accompanied by easily adjustable axially mounted wiper inserts. Each insert offers eight indexes when using single-handed cutters. Four indexes can be used on the periphery pockets, and flipping the insert on its side allows for four more indexes in the finishing cartridge. A total of 12 indexes can be used when employing both right and left hand cutters. GOALMILL cutters are available for roughing (<50Rz) semi-finishing (<18Rz) and finishing (<12.5Rz).



## DRILLING



### SMD Drill

Our new SMD Replaceable Carbide Tip Drill is the most versatile and cost-effective drilling system on the market. The hardened steel drill body of the SMD accepts multiple drill size heads, for reduced costs and inventory. The carbide replaceable drill head can be reground. For increased tool life, SMD wear-resistant drill heads consist of extremely tough carbide and our ZX-coating. The ZX-Coating is 2000 layers tough for long wear resistance. Ground serrations on the back of the drill head allow for precise, two screw assembly and exceptional hole accuracy. The SMD is available in metric and inch diameters ranging from 0.4688Ø - 1.2008Ø with 3X and 5X diameter coolant-thru drill bodies.

### WDX Indexable Drill

Sumitomo Electric Carbide, Inc. recently unveiled its new WDX Indexable Drill Series for large diameter hole drilling. The WDX not only accurately drills holes, but can also perform operations such as turning and boring. The drill's nickel-plated steel body reduces inventory costs by accepting the same insert geometry for both the outer and inner cutting edges, and allowing the use of all four of the insert's cutting edges. The WDX inserts are available in three newly developed drilling chipbreakers to reduce thrust. Featuring the Super ZX-coated carbide insert grades ACP300 and ACK300, the WDX effectively machines a wide of steels, stainless steels, cast irons, and exotic materials. The WDX Drill is available in coolant through 2XD, 3XD, and 4XD & 5XD body lengths to provide a solution for a multitude of drilling applications. WDX Drills are offered in diameters Range 13mm to 45mm



### Solid Carbide Drills

MDS and KDS Drills meet the industry demand for effective and efficient drilling of steels, cast irons and exotic materials. Available in large to very small diameters, they offer excellent productivity and about 10 times the tool life of HSS drills.

**Increased strength** - A thicker web and narrower flute increase torsional rigidity throughout the drill body, reducing oversizing and improving surface finish

**Lower cutting forces** - Positive radial rake angles significantly reduce cutting force, torque and power requirements

**Better chip removal** - The cutting edge geometry, formed by the concaved cutting edge and flute wall produces short, curled chips which are easily evacuated

**Advanced tool materials** - A titanium substrate increases tool strength, while PVD coating improves wear, adhesion-resistance and cutting forces



## CBN & PCD Grades



### CBN Inserts

As a worldwide leader in the CBN market, we make it our goal to continually improve upon our products with new and innovative concepts. With this mission in mind, we also developed our revolutionary CBN grade. It is designed for turning, boring and other demanding machining applications.

### PCD Inserts

DA 2200 wear resistant, combination diamond non-ferrous cutting tool grade offers transverse rupture strength equal to C7 cemented carbide. Suited for wet/dry rough and finish machining of aluminum work pieces, insert uses ultra-fine diamond grains for elimination of burrs. Cutting edge offers chipping resistance in milling applications



## BIG DAISHOWA SEIKI CO LTD



Since its beginning in 1967 BIG DAISHOWA has continuously developed new innovative products using state of the art technology and are now the worlds leading tooling manufacturer

### PRODUCT LIST

- Mega Chuck for HI Speed Machining
- Precision 1 micron Collet System of New Baby Chuck
- Special Attachments Like Angular Head, Speed Increaser and Hijet Holder
- Unique Concept of Dual Contact from Big Plus
- Precision Sensor Series
- Angle Head, Speed Increaser
- HI jet Holder?
- Work Driver
- Total Spindle Toolings System-ISO, BT, HSK Big Plus, CAT, CAPTO,

