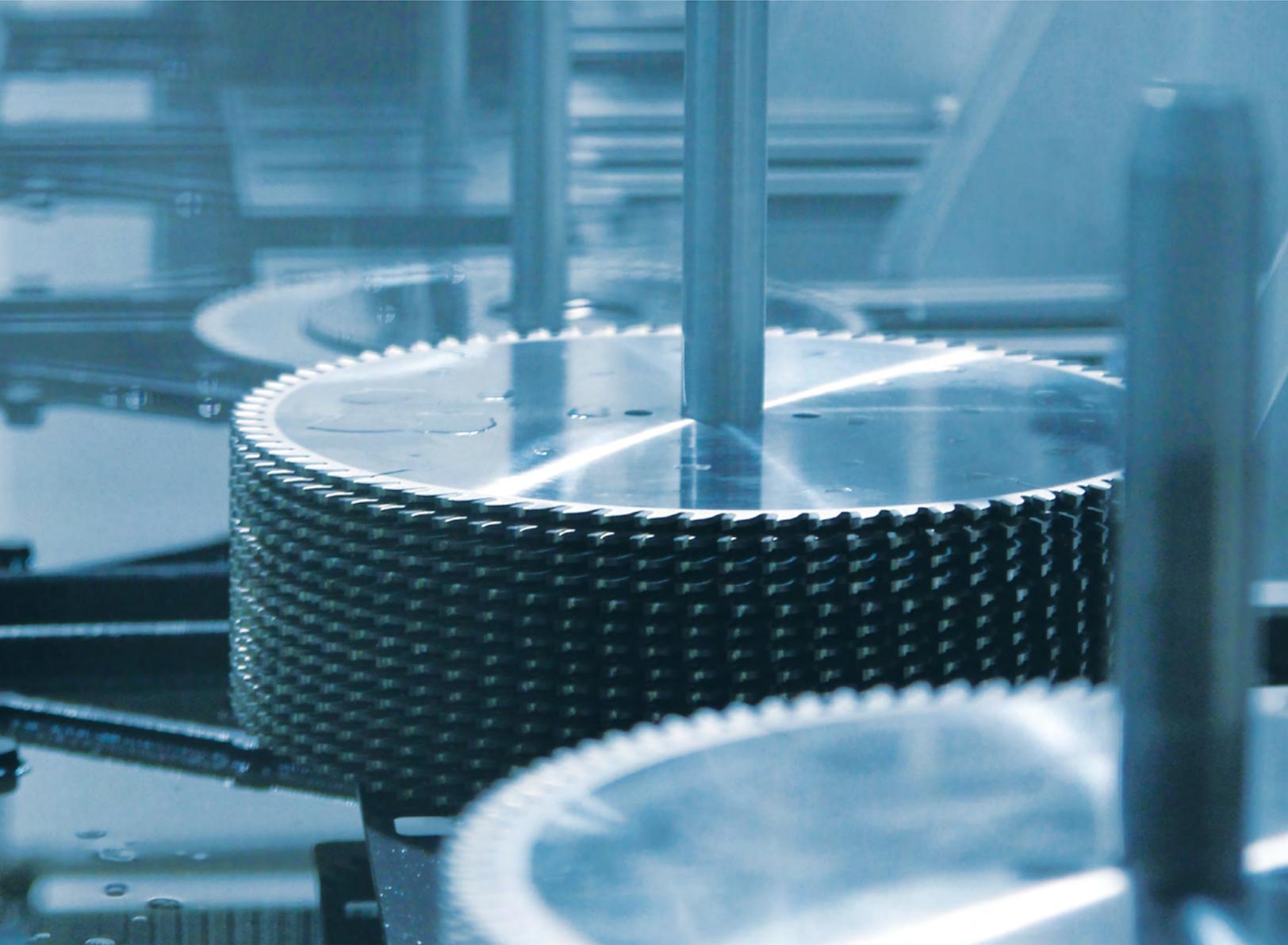




# SAWS FOR METAL CUTTING



- High Speed Steel
- Cobalt
- Carbide

# TMX Saws

## A History of European Quality & Craftsmanship

The history of TMX saws dates to 1921 Poland with manufacturing of saws for woodworking industry. Following that success, the production grew to an industrial scale and expanded the offering to saws for metal applications.

These saws were first sold in the United States by Toolmex during the 1970s. For 45 years, Toolmex has continued to offer precision European saws, produced using the finest grade European steel and manufactured to highest standards in Poland. The offering includes, slotting and slitting saws for various metalworking industries where precision, accuracy and reliability matters.

Today, our factory has world-class facilities and an ISO 9001:2008 certification. With new machinery and manufacturing capabilities, Toolmex is expanding the TMX offering to include coated, cobalt and carbide saws. As we move into the future, count on TMX saws to deliver precision, performance and reliability with every cut.



Advertisement, 1930



Engineering, 1952

## OFFERING

Slotting Saw for the Oil Industry [pg. 3](#)

Carbide Saws for Aluminium and PVC [pg. 4](#)

Carbide Cool Cut Saws for Steel and Non-Ferrous Metals [pg. 5](#)

Saws for Cut-Off Machines [pg. 5](#)

High Speed Steel Saws for Metal Cutting [pgs. 6-7](#)



Robotic Saw Sharpening, 2013

# SLOTING SAW BLADES FOR THE OIL INDUSTRY

These specialized saw blades are used for slotting pipes for oil industry where Enhanced Oil Recovery technique is implemented. Saw blades are produced from HSS (M2) or HSS-E with 5% cobalt (M35) according to AS and BS norms with narrow thickness tolerances (+/- 0.001").



## Saw Blades HSS (M2)

According to norms AS, BS, DIN  
For slitting and slotting in steel,  
non-ferrous, precious metals  
and plastics.

TMX Diameter Range: 1" - 12"  
Series 5-745, 5-746 and 5-747

## TCT Saw Blades

For non-ferrous metals and PVC

With carbide tips for cutting  
profiles and full elements in non-ferrous  
metals and PVC.

TMX Diameter Range: 3" - 39"  
Series 5-993



## Saw Blades HSS-E (M35)

For use on pipe cutting  
and beveling machines  
by Georg Fischer,  
ORBITALUM, and AXXAIR.

TMX Diameter Range: 1" - 12"  
Series 5-998

## TCT Saw Blades

For metal – with profiled rake angle

With carbide tips and profiled rake angle  
for metal cutting on low speed machines

TMX Diameter Range: 10" - 18"  
Series 5-994



## Side Chip Clearance Saw Blades (M2)

According norms AS and BS  
For deep grooving.

TMX Diameter Range: 2 1/2" - 10"  
Series 5-748 and 5-749

## Circular Knives

For special cutting of rubber, hydraulic  
hoses, seals, plastics.

TMX Diameter Range: 2" - 16"  
Series 5-995



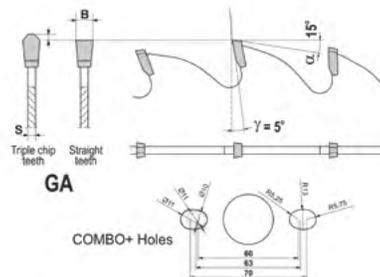
# CARBIDE GA +/- 5° SAW BLADES FOR CUTTING ALUMINIUM AND PVC

## FEATURES

- Very high disc accuracy, special sintered carbide and specialized tooth geometry guarantee longer tool life and excellent cutting quality
- Dynamically balanced disc eliminates vibrations during cutting creating a higher quality cut surface
- Proper disc tensioning ensures high saw blade rigidity enabling a stable cutting process
- Silenced saw blades reduce noise level during cut

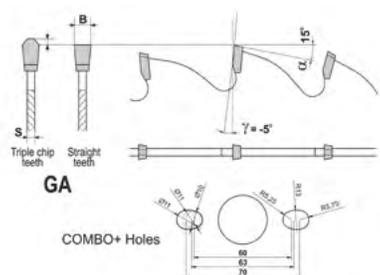
## APPLICATIONS - FOR CUTTING OF

- Sections from aluminum (soft – extruded)
- PVC profiles (plastics)
- Full materials – with properly selected number of teeth
- Profiles from non-ferrous metals i.e. copper, brass, bronze with properly selected working parameters



## Saw Blades with GA +5° Tooth Geometry

- Tooth geometry GA +5 (TR-F triple-chip + flat)
- Use for cutting of sections from aluminum (soft – extruded) with wall thickness up to 5mm and full materials
- Use for cutting of PVC profiles (plastics) with wall thickness up to 5mm
- [TMX Diameter Range: 160mm–550mm](#)



## Saw Blades with GA -5° Tooth Geometry

- Tooth Geometry GA -5 (TR-F triple-chip + flat)
- Use for cutting of sections from aluminum (soft – extruded) with wall thickness up to 3mm
- Use for cutting of PVC profiles (plastics) with wall thickness up to 3mm
- [TMX Diameter Range: 160mm–600mm](#)

# CARBIDE COOL CUT SAW BLADES FOR CUTTING STEEL AND NON-FERROUS METALS

Special carbide saw blades intended for cutting profiles and solid materials made of steel and non-ferrous metals. PVD coating ensures a longer tool life and considerably decreases cutting resistance.

TMX Diameter Range: 250mm–600mm  
Series 5-996



## APPLICATIONS

- For cutting profiles and solid materials made of steel and non-ferrous metals
- Use on high efficiency, slow-speed, production cutting machines equipped with automatic feed



## FEATURES

- Delivers longer tool life and higher performance compared with HSS circular saw blades.
- Use of precise disc grinding process and dynamic balancing process ensures stable operation of saw blades and eliminates vibrations during machining

### Tooth Geometry

- Specialized tooth geometry for high efficiency cutting of low-alloy and high-alloyed steels, cast iron and hard non-ferrous metal alloys

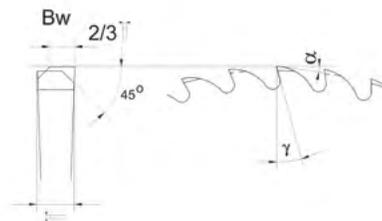
### Material

- Carbide teeth are made of special type of sintered carbide with optimally selected hardness, chemical composition and structure for cutting hard-machinable steel grades and metals including non-ferrous metals

### Coating

- PVD coating (TiAlN) of teeth extended tool life, decreases cutting resistance and improves performance when cutting hard-machinable steel grades

# SAW BLADES FOR CUT-OFF MACHINES



## HSS Bw 18° Saw Blades for Metal Cutting

- Made from DMo5 (SW7M) steel
- Bw tooth geometry: arch shape with alternate chamfering
- Used for cutting full materials and profiles on low-speed cut-off machines
- TMX Diameter Range 200mm – 315mm

# HIGH SPEED STEEL SAWS FOR METAL CUTTING

## HSS SLOTTING SAWS



### Jewelers Slotting Saws

- TMX Diameter Range 1" – 6"
- Series 5-746
- Used in slotting, sheeting and tubing
- For cutting thin tubing, wire and similar items as well as for slotting very thin materials
- Tolerances: Outside diameter: +.015"  
Hole diameter: +.001"  
Width: +.001"
- ANSI/ASME B94.19



### Screw Slotting Saws

- Series 5-745
- Tolerances: Outside diameter: +.015"  
Hole diameter: +.001"  
Width: +.001"

Screw Slotting Saws Offering		
# of Teeth	Diameter (in)	Widths Offered (in)
56	2/3/2004	.012 – .162
60	2/1/2004	.008 – .102
72	2/3/2004	.010 – .182
90	1/3/2004	.008 – .020

## HSS METAL SLITTING SAWS

- Tolerances: Outside diameter: +.015"  
Hole diameter: +.001"  
Width: +.001"



### Plain Teeth

- TMX Diameter Range 1-3/4" – 10"
- Series 5-747



### Plain Teeth with Side Chip Clearance

- TMX Diameter Range 2" – 8"
- Series 5-748



### Staggered Teeth with Side Chip Clearance

- TMX Diameter Range 3" – 10"
- Series 5-749

## POWER HACKSAW BLADES

- Lengths 12" – 24"
- Series 5-676
- Designed for production applications
- Fully heat treated to resist wear and provide efficient cutting



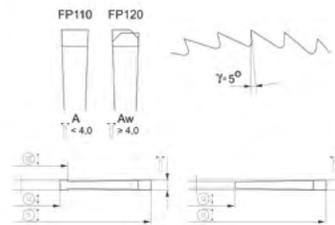
Tolerances		
	Blade Dimension	Tolerance inches
Width	single-edge blades 1 inch zzzz	+3/32, -0
	single-edge blades over 1 inch	+1/8, -0
Thickness	.050	±0.005
	.062	±0.006
	.079	±0.007
	.088 and .100	±0.008
Overall Length	–	±5/64
Pinholes	Center to center	±5/64
	Diameter .281	+0.014/-0
	.391	+0.017/-0

# HIGH SPEED STEEL SAWS FOR METAL CUTTING

## HSS A & Aw 5° AND B & Bw 15° SAW BLADES

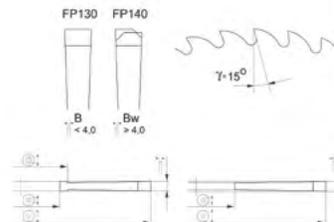
### FEATURES

- Made from DMO5 (SW7M) steel according to DIN and AS i BS standards
- Hollow ground saw blades protect tool from scuffs
- Manufacturing process includes heat-treatment, teeth and side grinding and heat-chemical treatment guaranteeing exceptional quality and tool life



### A & Aw 5° Saw Blades

- Manufactured according to DIN 1836, DIN 1837 and AS i BS standards
- A and Aw triangular teeth geometry is used for shallow grooving
- The specialized A teeth geometry is used for cutting of shallow hard materials with thin walls including standard structural steel, grey cast iron and semi-hard non-ferrous metals
- Aw triangular teeth are used on easily machined materials at stable load and working conditions
- [TMX Diameter Range 200mm – 315mm](#)



### B & Bw 15° Saw Blades

- Manufactured according to DIN 1838, DIN 1840 and AS i BS standards
- B and Bw curved teeth geometry is for deeper grooving
- B curved teeth geometry is used for soft and ductile materials that are more difficult to machine and when various cutting forces and loads exist
- B saw blades are used for deeper cutting, for cutting of full materials and materials with thick walls
- [TMX Diameter Range 63mm–250mm](#)



## SAWS FOR METAL CUTTING



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

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