



# Machines

Machine Tools Builders

## ISCAR's Solutions for Machine Tool Builders



Member IMC Group  
**ISCAR**

# Make

# the



ISCAR Productivity Team  
for *Fast Metal Removal*

# Right

# Choice!

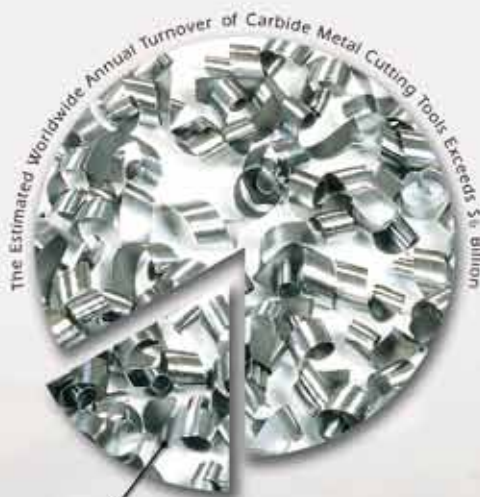
# Machines<sup>®</sup>

Machine Tools Builders

## A Leader in Metalworking Innovations

Innovation at ISCAR clearly begins with its technologically advanced research & development department. Approximately 10% of ISCAR's total resources are dedicated to R&D. As a result, time and time again the company has developed and contributed to the metalworking industry many original products and cost saving processes to provide bottleneck solutions.

ISCAR is constantly upgrading and implementing improvements in computerization, data flow, quality assurance and employee safety.



ISCAR Group  
Ranks No. 2  
in Metal  
Cutting Tools

## Global Support

In order to facilitate machine tool builders, ISCAR has organized product manager groups with dedicated tool designers and field engineers. ISCAR is known for its advanced solutions for the most demanding challenges in the machine tool builders industry. ISCAR offers technical support and several manufacturing facilities around the globe.



# The Global Network



- Machine Tool Builders
- Marketing Support
- Marketing Support & Production Center



**ISCAR Productivity Team**  
for **Fast Metal Removal**

## A Global Metalworking Company

In a world of different languages and different mentalities, it is important to have a fully equipped, knowledgeable local supplier, to meet your needs.

ISCAR knows this. We have subsidiary offices and agents located in 52 major industrial countries. In some of the larger countries, regional offices have been opened to bring ISCAR personnel and facilities as close as possible to customer production sites.

Many of our subsidiaries have fully equipped training centers. These centers are dedicated to providing a local location where metalworking personnel can be trained in the latest techniques and products for metal removal.



# Machines

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ISCAR has global manufacturing facilities in each of the following countries:

#### In Europe

-  France
-  Germany
-  Italy
-  Spain
-  Switzerland
-  Turkey
-  Hungary
-  Slovenia

#### In the Americas

-  Argentina
-  Brazil
-  United States

#### In Asia

-  South Korea
-  China
-  Israel

# Industry Solutions



## **Automotive** Industry

ISCAR provides new innovative tools and solutions dedicated to metalworking in the automotive industries. Many automotive parts are machined using ISCAR's new technologies, such as engine heads and blocks, crankshafts, camshafts and disk brakes.



## **Aero-space** Industry

ISCAR produces quality tools and specially designed carbide grades that are ideal for milling and turning titanium, aluminum and nickel-based alloys commonly found in engine and fuselage parts. ISCAR's products are ideal for the high degree of quality and innovation required for the manufacture of aerospace components.



## **Die Mold** Industry

ISCAR has designed a unique line of tools, specifically for increased productivity in the die and mold industry. These tools provide a very high degree of perfection in both accuracy and the resulting finish, even when used for machining complicated shapes, curves and deep cavities. Each of ISCAR's specialized cutting systems enables machining at very high feeds and speeds, while maintaining tolerances for an extended period of time.

## Miniature

Industry

ISCAR offers a wide range of specially tailored inserts and an extensive range of tooling systems for the miniature industry. Multi-spindle, Swiss-type and automatic machines require the use of small inserts with sharp corners or very small radii and cutting edges in line with the shank of the tools.



## Medical

Industry

ISCAR designs tools for producing metal and plastic types of medical implants. ISCAR meets this challenge by providing the best in engineering design, substrate material and coating technology.



## Engineering

Industry

ISCAR designs and manufactures unique, innovative cutting tools for various industries, including turning, grooving, milling, hole making, boring and threading tools. The company's aim is to provide cost-effective solutions and to reduce machine downtime, a combination which ultimately increases the customers' efficiency and productivity in metalworking applications.



# A Vast Array of Innovative Tool Systems



**HELIDO**  
490 LINE



**TANGMILL**



**MAXIN**



**BAYOT-REAM**

## A Full Line Supplier

ISCAR offers the most advanced tools for all your machining operations: Turning, grooving, parting, threading, milling, drilling and reaming, as well as various tooling systems.

**SPECIALLY  
TAILORED**



# Machines

Machine Tools Builders



**HELITURN**  
LAYDOWN LINE



**CHAMDRILLJET**



**TANG-GRIP**  
HEAVY DUTY LINE



**CHAMSLIT**



The  
= Unbeatable  
Solution!

# Customer Support



## Customer Support

ISCAR technical engineers can assist you to select the optimal tools and machining instructions for your application. Comprehensive paper, electronic and internet catalogs are available. ISCAR can provide you with services to optimize tool and process engineering, such

as reduced cycle times, better tool life and less down time. Our CTMS division (Commodity & Tool Management Services), which is an independent business division of the IMC Group, is dedicated to delivering tool management services to help customers reduce their production

costs. Cost reduction is reached by improving supply chain management, including a reduction in the variety of tools used, better availability of tools, lower overhead and improved management of tool consumption data.



# Part Production Solutions

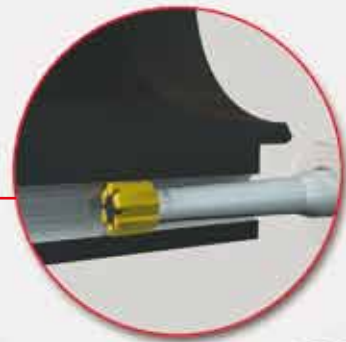


## Turnkey Projects

ISCAR engineers work with the customer to provide process layouts, machining process, time and cost study and optimization of machining conditions. The result is high performance, optimal machining solutions for your part production.

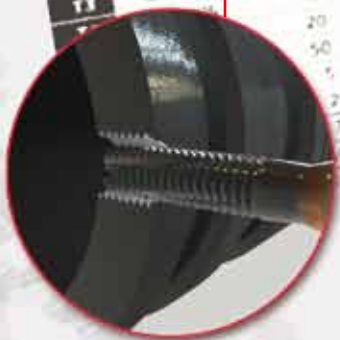
# Machines

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Tool No.	Operation	Diameter (mm)	RPM	Vc (m/min) [cutting speed]	fz (mm) [feed per insert/ flute]	z [number of inserts/ flutes]	f [mm] [feed]	Vf (mm/min) [table feed]	DOC (mm) [depth of cut]	LOC (mm) [length of cut]	No. of Cuts
T1	CUT 101	50	573	90	0.1	3	0.3	172	5	120	1
T1	CUT 102	50	573	90	0.1	1	0.1	172	5	200	1
T1	CUT 103	63	607	40	0.22	2	0.6	114	2	20	6
T2	CUT 104	5	2548	50	0.1	1	0.3	172	2	40	1
T3		40	198	120	0.1	1	0.1	2548	2	100	1
		20	1911	90	0.1	1	0.2	190	1	17	2
		50	573	40	0.2	1	0.6	114	2	5	15
		5	2548	80	0.1	1	0.3	172	2	35	2
		2	12739	50	0.1	1	0.2	2548	1	450	1
		7	2177	20	0.1	1	0.3	172	2	20	1
		0	446	80	0.1	1	0.3	172	2	20	1
		0	2121	80	0.1	1	0.3	172	2	20	1

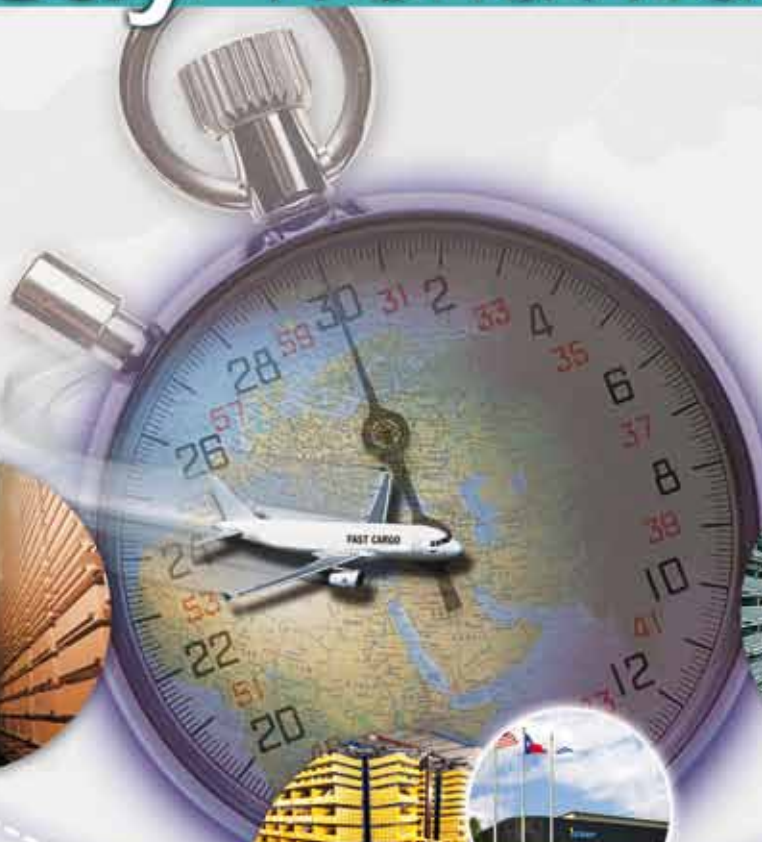
*Time Study*



# Speedy Worldwide Delivery



MAIN  
WAREHOUSE  
CENTER



EUROPEAN  
WAREHOUSE  
CENTER



NORTH AMERICAN  
WAREHOUSE CENTER

ISCAR's global network of automated warehouses serve to ensure that the customers' products will arrive in the shortest amount of time possible. The combination of the company's computerized data inventory program, customer service and logistic departments guarantee that ISCAR makes the maximum effort to dispatch the goods in adherence to the time schedule required by the customer.



# Machines

## Machine Tools Builders

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