

ISCAR TOOL ADVISOR USER GUIDE

APRIL, 2021

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1. Introduction

1.1.ISCAR Tool Advisor Overview

The new NEO-ITA web app offers a wide range of functions, recommendations, and outputs to support the customer's needs for operating machining centers, Lathes, Swiss-Type Machines, Multi Spindles / Automatics, and for multi-tasking machinists, technologists and CAD/DAM designers.

NEO-ITA features advanced AI and Big Data analytics using machine learning engine to support ISCAR customers and salesforce teams to contend with the most complicated machining tasks and challenges while assuring highly advanced machining and tooling technological recommendations.

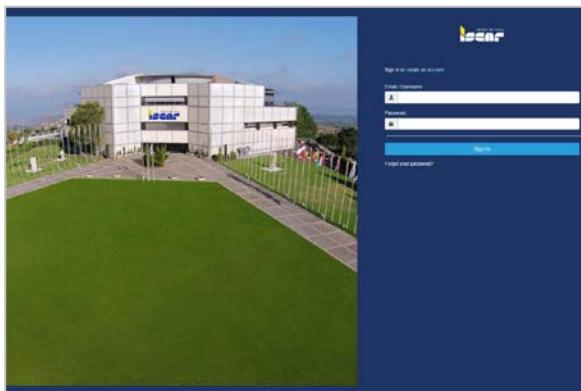
1.2.ISCAR Tool Advisor Structure

NEO-ITA comprises five main tabs: Machine, Material, Application, Operation data and Results.

2. Header Overview

2.1.Login

Same login as all ISCAR web platforms for registered users.

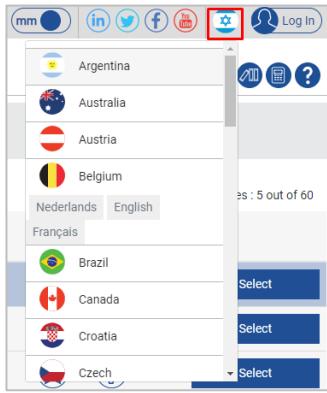


Registered users will be able to:

- Add and save own machines and raw materials in the NEO-ITA new "My Machines" & "My Materials" cloud storage.
- Build and maintain tooling assemblies populated from NEO-ITA tooling recommendations in the ISCAR e-Catalog "My Job" cloud storage.
- Commit to buying NEO-ITA tooling recommendations by placing an order via the ISCAR e-Comm shopping cart. Check out and turn it into an order.

2.2.Settings

Click on the flag icon will open the option to choose a language:

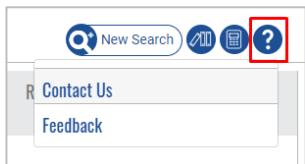


Option to choose units: Metric or Inch:



2.3.Help Section

Click on the “help” icon (?) will open a menu with two options: Contact Us and Feedback.

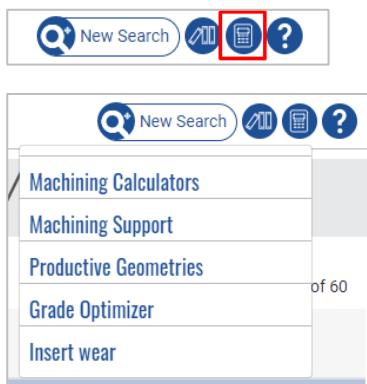


- A ‘Contact Us’ form:

- A short ‘Feedback’ form:

2.4.Calculators

Under the ‘Calculators’ icon, there is a sub-menu with links to technical support software and apps.



2.5.E-Catalog link



2.6.“New Search” Button

Click on the “New Search” button will reset all data and restart the software.



3. Main Software Section

3.1.“Machine” Tab

Select a Machine by clicking “Select” button.

A screenshot of the ISCAR TOOL ADVISOR software interface. The 'Machine' tab is selected. On the left, there is a sidebar with filters for 'Most Recommended' machines, categories like 'Machining Center', 'Lathe', 'Multi-Tasking', 'Multi-Spindle', and 'Swiss Type', and checkboxes for 'Standard', 'Heavy Duty', and 'High Speed' machines. The main area shows a table of machines with columns: Machine Name, Spindle Main Tool, Adaptation Type, Power (kW), Spindle speed (rpm), Torque (Nm), and several icons. One row for 'Multi task 1' has its 'Select' button highlighted with a red box.

* Please notice that “Machining Center 6” has been chosen as a default machine. Another option is to proceed to “Material” tab with this default machine.

Search field is available. Insert an input and click ‘enter’ to search for a specific machine.

As a registered user, you can define your own machine and save it to your personal “My Machines” place.

Machine Name	Spindle: Main Tool	Adaptation Type Size	Power (kW)	Spindle speed (rpm)	Torque (Nm)			
Machining Center 6	<input checked="" type="radio"/> <input type="radio"/>	BT - 40	19	14000	162.1			<button>Select</button>
Lathe 1	<input checked="" type="radio"/> <input type="radio"/>	SQUARE - 25	15	7000	409			<button>Select</button>
Multi task 1	<input type="radio"/> <input checked="" type="radio"/>	ISO 26623-1 (CAMFIX) - C8	30	7000	955			<button>Select</button>
Multi spindle 1	<input checked="" type="radio"/> <input type="radio"/>	SQUARE - 12	2	8000	478			<button>Select</button>
swiss type 1	<input checked="" type="radio"/> <input type="radio"/>	SQUARE - 8	2	8000	478			<button>Select</button>

The screenshot shows a modal dialog titled "My Machines:" with a list of selected machines. The "Name:" field contains "Multi spindle 1 GALL TEST". Below the list are "Cancel", "Delete", and "Save" buttons. The "Save" button is highlighted with a red box.

Define the leading spindle for multi-function machines for rotating or non-rotating tools:

Select Machine		
Machine Name	Spindle: Main Tool	Adaptation Type Size
Machining Center 6	<input checked="" type="radio"/> <input type="radio"/>	BT - 40
Lathe 1	<input checked="" type="radio"/> <input type="radio"/>	SQUARE - 25
Multi task 1	<input checked="" type="radio"/> <input type="radio"/>	SQUARE - 32
Multi spindle 1	<input checked="" type="radio"/> <input type="radio"/>	SQUARE - 12
swiss type 1	<input checked="" type="radio"/> <input type="radio"/>	SQUARE - 8

By default, five machines are presented. To view all machines, select “View All Machines” on the filters section on the left.

More filters are available: Machine type, Adaption size, Power, Spindle and Torque.

To view more machine details, click on a row:

Machine Name	Spindle: Main Tool	Adaptation Type Size	Power (kW)	Spindle speed (rpm)	Torque (Nm)			Found Machines : 5 out of 60
Machining Center 6	<input checked="" type="radio"/> <input type="radio"/>	BT - 40	19	14000	162.1			<button>Select</button>
Lathe 1	<input checked="" type="radio"/> <input type="radio"/>	SQUARE - 25	15	7000	409			<button>Select</button>
Multi task 1	<input type="radio"/> <input checked="" type="radio"/>	ISO 26623-1 (CAMFIX) - C8	30	7000	955			<button>Select</button>
Multi spindle 1	<input checked="" type="radio"/> <input type="radio"/>	SQUARE - 12	2	8000	478			<button>Select</button>
swiss type 1	<input checked="" type="radio"/> <input type="radio"/>	SQUARE - 8	2	8000	478			<button>Select</button>

Define and customize machine specifications:

- Power & torque
- Spindle speed
- Feed
- Coolant type, pressure, flow
- Cost per hour

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Machine P7 - Low alloy and cast steel

Machining Operation Turn-Groove & Parting, Grooving

Operation Data D:25mm, DPT:6mm, W:12mm

Results

All > Multi task 1

Multi task 1

Cost Per Hour 328.95 NIS

Machine Type Standard

Main Spindle

Spindle	Spindle speed (rpm)	7000
Power (kW)		30
Torque (Nm)		955

Part Fixture Stability unrigid

Turret (Stationary Tools)

Adaptation Type	SQUARE
Adaptation Size	32
Maximum Cutting Feed Speed (mm/rev)	
Maximum Rapid Feed Speed (mm/min)	

Coolant

Emulsion Pressure (bar)	25
Emulsion Flow Rate (L/min)	40

Emulsion External
Air Blast Internal
MQL

Torque

Point	N(rpm)	T(Nm)
Point 1	2	955
Point 2	300	955
Point 3	7000	41

Power

Point	N(rpm)	P(kW)
Point 1	2	0.2
Point 2	300	30
Point 3	7000	30

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3.2.“Material” Tab

Select a Material by clicking “Select” button.

Group	Description	Condition	Hardness	Action
1	Non-alloy steel and cast steel, free cutting steel <0.25% C	Annealed	125 HB	Select
2	Non-alloy steel and cast steel, free cutting steel >=0.25% C	Annealed	190 HB	Select
3	Non-alloy steel and cast steel, free cutting steel >0.55% C	Quenched and tempered	250 HB	Select
4	Non-alloy steel and cast steel, free cutting steel >=0.55% C	Annealed	220 HB	Select
5	Non-alloy steel and cast steel, free cutting steel >=0.55% C	Quenched and tempered	300 HB	Select
6	Low alloy and cast steel (less than 5% of alloying elements)	Annealed	200 HB	Select
7	Low alloy and cast steel (less than 5% of alloying elements)	Quenched and tempered	275 HB	Select
8	Low alloy and cast steel (less than 5% of alloying elements)	Quenched and tempered	300 HB	Select
9	Low alloy and cast steel (less than 5% of alloying elements)	Quenched and tempered	350 HB	Select
10	High alloyed steel, cast steel and tool steel	Annealed	200 HB	Select
11	High alloyed steel, cast steel and tool steel	Quenched and tempered	325 HB	Select

* Please notice that “P7” has been chosen as a default material. Another option is to proceed to “Machining Operation” tab with this default material.

Search field is available. Insert an input and click ‘enter’ to search for a specific material.

Clicking the “Pencil” icon will open a window with the option to change material hardness:

Group	Description	Condition	Hardness	Action
1	Non-alloy steel and cast steel, free cutting steel <0.25% C	Annealed	125 HB	Select
2	Non-alloy steel and cast steel, free cutting steel >=0.25% C	Annealed	190 HB	Select
3	Non-alloy steel and cast steel, free cutting steel >0.55% C	Quenched and tempered	250 HB	Select
4	Non-alloy steel and cast steel, free cutting steel >=0.55% C	Annealed	220 HB	Select
5	Non-alloy steel and cast steel, free cutting steel >=0.55% C	Quenched and tempered	300 HB	Select

Group	Description	Condition	Hardness	Action
1	Non-alloy steel and cast	HB	125 HB	Select
2	Non-alloy steel and cast	HV	190 HB	Select
3	Non-alloy steel and cast	HRC	250 HB	Select
4	Non-alloy steel and cast	N/mm²	220 HB	Select
5	Non-alloy steel and cast		300 HB	Select
6	Low alloy and cast steel		200 HB	Select
7	Low alloy and cast steel (less than 5% of alloying elements)	Quenched and tempered	275 HB	Select
8	Low alloy and cast steel (less than 5% of alloying elements)	Quenched and tempered	300 HB	Select
9	Low alloy and cast steel (less than 5% of alloying elements)	Quenched and tempered	350 HB	Select
10	High alloyed steel, cast steel and tool steel	Annealed	200 HB	Select
11	High alloyed steel, cast steel and tool steel	Quenched and tempered	325 HB	Select

As a registered user, you can define your own material and save it to your personal “My Materials” place

Group	Description	Condition	Hardness	
1	Non-alloy steel and cast steel, free cutting steel <0.25% C	Annealed	125 HB	
2	Non-alloy steel and cast steel, free cutting steel >=0.25% C	Annealed	190 HB	
3	Non-alloy steel and cast steel, free cutting steel <0.55% C	Quenched and tempered	250 HB	
4	Non-alloy steel and cast steel, free cutting steel >=0.55% C	Annealed	220 HB	
				Select
				Add to My Materials
				Select
				Select

To view a ‘Standard Conversion Chart’ for specific material group, click the specific row:

Group	Description	Condition	Hardness	
1	Non-alloy steel and cast steel, free cutting steel <0.25% C	Annealed	125 HB	
2	Non-alloy steel and cast steel, free cutting steel >=0.25% C	Annealed	190 HB	
3	Non-alloy steel and cast steel, free cutting steel <0.55% C	Quenched and tempered	250 HB	
4	Non-alloy steel and cast steel, free cutting steel >=0.55% C	Annealed	220 HB	
5	Non-alloy steel and cast steel, free cutting steel >=0.55% C	Quenched and tempered.	300 HB	
6	Low alloy and cast steel (less than 5% of alloying elements)	Annealed	200 HB	
				Select

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Machine Multi task 1 - ISO 25623-1 (CAMFIX) - C8 / 30 kW

Material P2 - Non-alloy steel and cast steel

Machining Operation Operation Data Results

P > 2 > Standard Conversion Chart

Standard Conversion Chart

BRAND	AISI/SAE	DIN	WERKSTOFF	BS	EN	AFNOR	SS
1035	C35	1.0501	080 A 32, 080 A 35, 080 M 36, 1449 40 CS	1 C 35, AF 55 C 35, XC 38		1572, 1550	
	Cf 35 (C35G)	1.1183	080 A 35			XC 38 H 1 TS	1572
1035; 1041	40Mn4	1.1157	150 M 36	15		35M 5; 40 M 5	
1040	C40	1.0511	080 M 40			1 C 40; AF 60 C 40	
1042	C45E, CK 45	1.1191	080 A 46			XC 45	1660
1025	C25E, CK 25	1.1158	(070 M 25)			2 C 25, XC 25	
1045	Cf 45; (C45G)	1.0503	060 A 47, 080 M 46			XC 42 H 1 TS, 1 C 45	1672
1050; 1055	Cf 53; (C53G)	1.1213	070 M 55			XC 48 H TS	1674
1140	35 S 20	1.0726	212 M 36	8M		35MF 6	1957
1146	45 S 20 (46S20)	1.0727				45 MF 4	1973
A148 80-40	G5-60	1.0553	A3			320-560 M	1606
A27 70-36	G5-52	1.0551	A2			280-480 M	1505
A 537 Cl.1; A 414 Gr. G; A 612	P355GH; 19 Mn 6	1.0473				A 52 CP	2101, 2102
	GS-38	1.0416				20-400 M	1306

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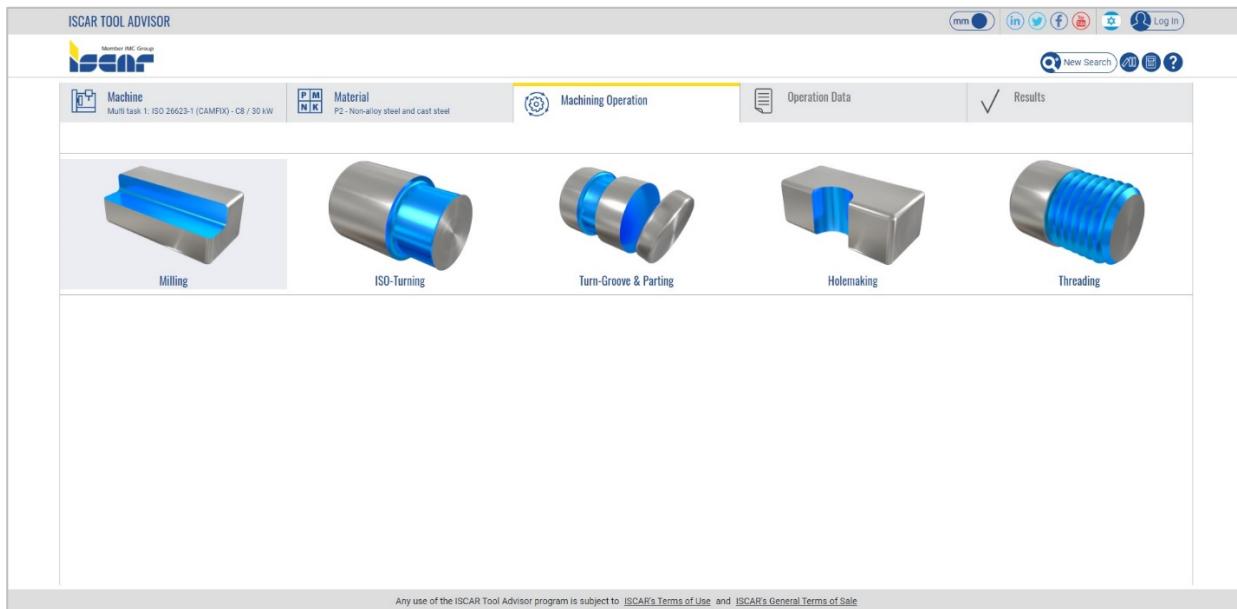
Can't find the right material? Click the link and send a request to ISCAR HQ:

The screenshot shows the ISCAR Tool Advisor interface. At the top, there's a navigation bar with links for mm/in, social media icons, and a 'Log in' button. Below the header, there are tabs for 'Machine', 'Material' (which is selected), 'Machining Operation', 'Operation Data', and 'Results'. The 'Material' tab shows a search bar and a dropdown menu for material types: Steel, Stainless Steel, Cast Iron, Non-Ferrous Metals, Superalloys and Titanium, and Hard Material. A 'Standard Conversion' dropdown is also present. On the right, a large table titled 'Standard Conversion Chart' lists various materials with their properties like AISI/SAE, DIN, Werkstoff, BS, EN, AFNOR, and SS. A red box highlights the 'Can't find the right material?' link in the top right corner of the chart area.

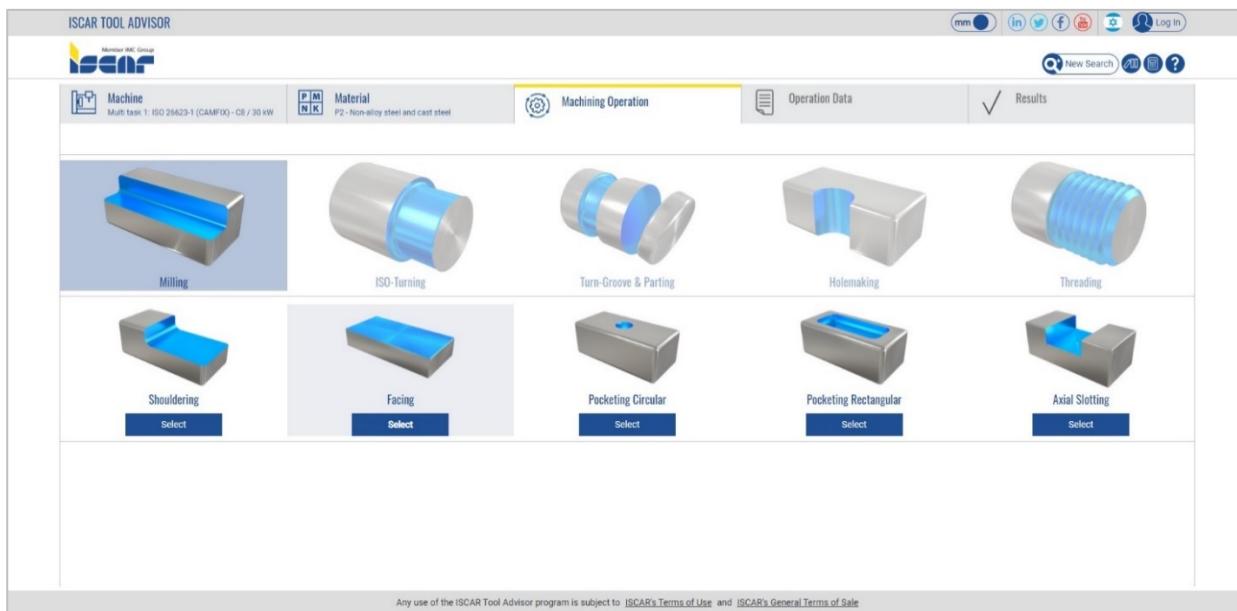
This screenshot shows the 'Request a New Material' dialog box overlaid on the standard conversion chart. The dialog has fields for 'Email*', 'Description*', 'Group' (set to 'Choose'), 'Standard' (set to 'Standard Conversion'), 'Condition' (set to 'Choose'), 'Hardness' (set to 'HB'), and 'Manufacturer/Other [E-Catalog]'. At the bottom are 'Cancel' and 'Send' buttons. The background chart table is partially visible.

3.3.“Machining Operation” Tab

Click the image to choose the main application:



Then, choose a sub application by clicking the image or the “Select” button and continue to “Operation Data” tab:



3.4.“Operation Data” Tab

Screen is divided to two sections: Tool Data and Operation Data.

Customize the operation data by selecting tool type, batch size for cost calculations and more filters for optimized search and recommendations.

The screenshot shows the ISCAR Tool Advisor software interface. At the top, there are tabs for Machine, Material, Machining Operation, Operation Data, and Results. The Operation Data tab is active, indicated by a yellow bar. On the left, there is a 'Tool Data' sidebar with various input fields and dropdown menus. In the main area, there is a section for 'Operation Data' with fields for Depth (D), Width (W), and Length (L). Below this are sections for Application / Operation type, Overhang, Clamping, Part shape, and Impact Load. Further down are sections for Economic Data, including Batch Size For Cost Calculation and Machine Cost. A 3D model of a machined part is displayed in the center-right. At the bottom, there is a note about terms of use and sale.

To get results, click the “Results” tab or “Get Results” button or the “enter” key:

This screenshot is identical to the one above, but the 'Results' tab is highlighted with a red border. The 'Get Results' button is also highlighted with a red border. The rest of the interface, including the tool data sidebar and the 3D part model, remains the same.

3.5.“Results” Tab

The system will show a default view of the three most recommended tooling solutions per application input:

The screenshot shows the ISCAR Tool Advisor interface. At the top, there are tabs for 'Machine', 'Material', 'Machining Operation', 'Operation Data', and 'Results'. The 'Results' tab is active, indicated by a checkmark icon. The 'Material' tab is set to 'P7 - Low alloy and cast steel'. The 'Machining Operation' tab is set to 'Milling, Facing'. The 'Operation Data' tab shows dimensions: D:5mm, W:100mm, L:1000mm. The results table displays three rows of tooling solutions, each with a thumbnail image, detailed description, brand name, diameter (DC), cycle time (CTP), material removal rate (MRR), and tool cost per batch (TCB). Each row also includes a 'Details' button and a 'Buy' button.

Designation	Brand Name	DC (mm)	CTP(mm:ss)	MRR (cm ³ /min)	TCB (USD/batch)
Holder: C8 SEM40X60 C Tool: SOF45 8/16-D125-10-40R Insert: S845 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	125	01:13	406.98	1325
Holder: C8 SEM40X60 C Tool: SOF45 D125-08-40-R18 Insert: S845 SNMU 1806ANR-MM IC830	HELIDO 800 Heavy Duty Line	125	01:45	283.309	1382.47
Holder: C8 SEM40X60 C Tool: IQ845 FSY D125-09-40-R07 Insert: IQ845 SYHU 0704ADN-MM IC830	DOVEIQMILL	125	03:07	160.049	1586.35

To see all filter options, click the title “More Filters”:

This screenshot is identical to the one above, but the 'More Filters' link in the left sidebar is highlighted with a red box. The rest of the interface, including the results table, is the same as the first screenshot.

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Machine Multi task 1 | Material P7 - Low alloy and cast steel | Machining Operation Milling, Facing | Operation Data D:5mm, W:100mm, L:1000mm |  Results

Filter

Found Results : 3 Out of 25

Designation	Brand Name	DC (mm)	CTP(mm:ss)	MRR (cm ³ /min)	TCB (USD/batch)	More
Holder: C8 SEM40X60 C Tool: SOF45 8/16-D125-10-40R Insert: SB45 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	125	01:13	406.98	1325	 
Holder: C8 SEM40X60 C Tool: SOF45 D125-08-40-R18 Insert: SB45 SNMU 1806ANR-MM IC830	HELIDO 800 Heavy Duty Line	125	01:45	283.309	1382.47	 
Holder: C8 SEM40X60 C Tool: IQ845 FSY D125-09-40-R07 Insert: IQ845 SYHU 0704ADN-MM IC830	DOVEIQMILL	125	03:07	160.049	1586.35	 

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To view all results, select “View All Results” in the filters section on the left:

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Machine Multi task 1 | Material P7 - Low alloy and cast steel | Machining Operation Milling, Facing | Operation Data D:5mm, W:100mm, L:1000mm |  Results

Filter

Found Results : 25 Out of 25

Designation	Brand Name	DC (mm)	CTP(mm:ss)	MRR (cm ³ /min)	TCB (USD/batch)	More
Holder: C8 SEM40X60 C Tool: SOF45 8/16-D125-10-40R Insert: SB45 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	125	01:13	406.98	1325	 
Holder: C8 SEM40X60 C Tool: SOF45 D125-08-40-R13 Insert: SB45 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	127.35	01:15	399	1329.03	 
Holder: C8 SEM40X60 C Tool: SOF45 8/16-D125-16-40R Insert: SB45 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	125	01:16	392.832	1670.7	 
Holder: C8 SEM40X60 C Tool: SOF45 8/16-D160-12-40R Insert: SB45 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	160	01:18	381.672	1666.45	 
Holder: C8 SEM427X50 C Tool: SOF45 8/16-D080-10-27R Insert: SB45 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	80	01:34	317.49	1114.22	 
Holder: C8 SEM40X60 C Tool: SOF45 D125-08-40-R18 Insert: SB45 SNMU 1806ANR-MM IC830	HELIDO 800 Heavy Duty Line	125	01:45	283.309	1382.47	 
Holder: C8 SEM40X60 C Tool: SOF45 D125-08-40-R18 Insert: SB45 SNMU 1806ANR-MM IC830	HELIDO 800 Heavy Duty Line	125	01:45	283.309	1432.87	 

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To view all results sorted by “Best Seller” recommendation, select the “Best Seller” filter option.

There is a performance bar to sort by filtering each category output:

The screenshot shows the ISCAR Tool Advisor software interface. At the top, there are four tabs: Machine, Material (selected), Machining Operation, and Operation Data. Below these are filter options for Machine, Material (P7 - Low alloy and cast steel), Machining Operation (Milling, Facing), and Operation Data (D:5mm, W:100mm, L:1000mm). A search bar and a 'Results' button are also present. The main area displays a table of search results with columns for Designation, Brand Name, DC (mm), CTP(mm:ss), MRR (cm³/min), and TCB (USD/batch). A red arrow points to a small icon in the top right corner of the results table.

Select and define your own performance bar categories:

The screenshot shows the ISCAR Tool Advisor software interface with a detailed column selection dialog box overlaid on the results table. The dialog title is "Select the Columns (Maximum 6)". It lists numerous machining parameters such as Catalog No, List Price (USD), Brand Name, DC (mm), DCX (mm), DCONMS (mm), KAPR, CICT, LU (mm), LH (mm), OAL (mm), ap Max (mm), RE (mm), CEDO (Edges), Price per Corner, a_x (mm), a_y (mm), NOPE, v_c (m/min), n (rpm), f_x (mm/tooth), v_t (mm/min), P (kW), T (Nm), CTP(mm:ss), MRR (cm³/min), TCB (USD/batch), TGC (USD/batch), MCB (USD/batch), MTB (mm:ss), CPP (USD/parts), Catalog number, Local General Price, Brand Name, Cutting Diameter, Cutting diameter maximum, Connection diameter machine side, Tool cutting edge angle, Cutting item count, Usable length, Head length, Overall length, Max D.O.C., Corner Radius, Cutting Edge Count, Price per Corner, Axial Depth of Cut, Number of Axial Passes, Radial Width of Cut, Number of Radial Passes, v_c - Cutting speed, Spindle speed, f_x - Feed per tooth, v_t [Table speed], Power, Torque, Cutting Time per Part, Material Removal Rate, Total Cost, Total Tooling Cost, Total Machine Cost, Machine Time per Batch, and Cost per Part. The results table below shows filtered data based on these selected columns.

Option to view stock availability:

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Machine Multi task 1 | **Material** P7 - Low alloy and cast steel | **Machining Operation** Milling, Facing | **Operation Data** D:5mm, W:100mm, L:1000mm | **Results**

Filter **Reset**

Found Results : 25 Out of 25

Designation	Brand Name	DC (mm)	CTP(mm:ss)	MRR (cm ³ /min)	TCB (USD/batch)	Actions
Holder: CB SEM40X60 C Tool: SOF45 8/16-D125-10-40R Insert: SB45 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	125	01:13	406.98	1325	
Holder: CB SEM40X60 C Tool: SOF45 D125-10-40-R13 Insert: SB45 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	127.35	01:15	399	1329.03	
Holder: CB SEM40X60 C Tool: SOF45 8/16-D125-16-40R Insert: SB45 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	125	01:16	392.832	1670.7	
Holder: CB SEM40X60 C Tool: SOF45 8/16-D160-12-40R Insert: SB45 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	160	01:18	381.672	1666.45	
Holder: CB SEM27X50 C Tool: SOF45 8/16-D080-10-27R Insert: SB45 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	80	01:34	317.49	1114.22	
Holder: CB SEM40X60 C Tool: SOF45 D125-08-40-R18 Insert: SB45 SNMU 1806ANR-MM IC830	HELIDO 800 Heavy Duty Line	125	01:45	283.309	1382.47	
Holder: CB SEM40X60 C Tool: SOF45 D125-08-40-R18 Insert: SB45 SNMU 1806ANR-MM IC830	HELIDO 800 Heavy Duty Line	125	01:45	283.309	1432.87	

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Machine Multi task 1 | **Material** P7 - Low alloy and cast steel | **Machining Operation** Milling, Facing | **Operation Data** D:5mm, W:100mm, L:1000mm | **Results**

Filter **Reset**

Found Results : 25 Out of 25

Designation	Brand Name	DC (mm)	CTP(mm:ss)	MRR (cm ³ /min)	TCB (USD/batch)	Actions
Holder: CB SEM40X60 C Tool: SOF45 8/16-D125-10-40R Insert: SB45 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	125	01:13	406.98	1325	
Holder: CB SEM40X60 C Tool: SOF45 D125-10-40-R13 Insert: SB45 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	127.35	01:15	399	1329.03	
Holder: CB SEM40X60 C Tool: SOF45 8/16-D125-16-40R Insert: SB45 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	125	01:16	392.832	1670.7	
Holder: CB SEM40X60 C Tool: SOF45 8/16-D160-12-40R Insert: SB45 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	160	01:18	381.672	1666.45	
Holder: CB SEM27X50 C Tool: SOF45 8/16-D080-10-27R Insert: SB45 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	80	01:34	317.49	1114.22	
Holder: CB SEM40X60 C Tool: SOF45 D125-08-40-R18 Insert: SB45 SNMU 1806ANR-MM IC830	HELIDO 800 Heavy Duty Line	125	01:45	283.309	1382.47	
Holder: CB SEM40X60 C Tool: SOF45 D125-08-40-R18 Insert: SB45 SNMU 1806ANR-MM IC830	HELIDO 800 Heavy Duty Line	125	01:45	283.309	1432.87	

Stock Availability

	US	EU	Asia
Holder			
Tool			
Insert			

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Option to view the item details in the ISCAR's e-Catalog and create an assembly

* A full assembly, including holders, will be presented in the ISCAR e-Catalog.

Links to the e-catalog

Designation	Brand Name	DC (mm)	CTP(mm:ss)	MRR (cm ³ /min)	TCB (USD/batch)
Holder: C8 SEM40X60 C Tool: SOF45 8/16-D125-10-40R Insert: S845 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	125	01:13	406.98	1325
Holder: C8 SEM40X60 C Tool: SOF45 D125-10-40-R13 Insert: S845 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	127.35	01:15	399	1329.03
Holder: C8 SEM40X60 C Tool: SOF45 8/16-D125-16-40R Insert: S845 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	125	01:16	392.832	1670.7
Holder: C8 SEM40X60 C Tool: SOF45 8/16-D160-12-40R Insert: S845 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	160	01:18	381.672	1666.45
Holder: C8 SEM27X50 C Tool: SOF45 8/16-D080-10-27R Insert: S845 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	80	01:34	317.49	1114.22
Holder: C8 SEM40X60 C Tool: SOF45 D125-08-40-R18 Insert: S845 SNMU 1806ANR-MM IC830	HELIDO 800 Heavy Duty Line	125	01:45	283.309	1382.47
Holder: C8 SEM40X60 C Tool: SOF45 D125-08-40-R18 Insert: S845 SNHU 1806ANR-MM IC830	HELIDO 800 Heavy Duty Line	125	01:45	283.309	1432.87

Option to download recommended tooling solutions:

Results

Designation	Brand Name	DC (mm)	CTP(mm:ss)	MRR (cm ³ /min)	TCB (USD/batch)
Holder: C8 SEM40X60 C Tool: SOF45 8/16-D125-10-40R Insert: S845 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	125	01:13	406.98	1325
Holder: C8 SEM40X60 C Tool: SOF45 D125-10-40-R13 Insert: S845 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	127.35	01:15	399	1329.03
Holder: C8 SEM40X60 C Tool: SOF45 8/16-D125-16-40R Insert: S845 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	125	01:16	392.832	1670.7
Holder: C8 SEM40X60 C Tool: SOF45 8/16-D160-12-40R Insert: S845 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	160	01:18	381.672	1666.45
Holder: C8 SEM27X50 C Tool: SOF45 8/16-D080-10-27R Insert: S845 SNMU 1305ANR-MM IC830	HELIDO 800 LINE	80	01:34	317.49	1114.22
Holder: C8 SEM40X60 C Tool: SOF45 D125-08-40-R18 Insert: S845 SNMU 1806ANR-MM IC830	HELIDO 800 Heavy Duty Line	125	01:45	283.309	1382.47
Holder: C8 SEM40X60 C Tool: SOF45 D125-08-40-R18 Insert: S845 SNHU 1806ANR-MM IC830	HELIDO 800 Heavy Duty Line	125	01:45	283.309	1432.87

Find a recommendation by selecting an item on the “Promotions” page.

Click on the “Promotions” icon will open a window with the promotion details:

Results

Designation	Brand Name	LU (mm)	P (kW)	CTH (mm:ss)	MRR (cm ³ /min)	TCB (NIS/batch)	
Holder: BT40-EM 25X45 Tool: D3N 200-100-25A-50 Head: H3P 200-IQ IC908	LOGIQ3CHAM	20	111.2	12.98	00:05	276.29	699.7

Machine Machining Center 8, BT - 40 / 19 kW

Material P7 - Low alloy and cast steel

Machining Operation Holemaking, Drilling Stationary Part

Operation Data D12mm, DPT 80mm, DPH 0mm

Results

Filter

- Most Recommended
- View All Results**
- Best Seller
- On Promotion
- Solid
- Tools
- Heads
- Indexable
- Indexable Insert**

Brand Name

Tool Designation

Insert / Solid Designation

Tool Catalog No

Insert / Solid Catalog No

Grade

Results

Found Results : 2 Out of 11

Designation	Brand Name	DC (mm)	LU (mm)	P (kW)	CTH (mm:ss)	MRR (cm ³ /min)	TCB (NIS/batch)	Actions
Holder: BT40 EM 25X45 Tool: DSN 200-100-25A-5D Head: HSP 200-IQ IC908	LOGIQ3CHAM	20	111.2	12.98	00:05	276.29	699.7	 
Holder: BT40 HYDRO 25X90 Tool: DSN 200-100-25R-5D Head: HSP 200-IQ IC908	LOGIQ3CHAM	20	111.2	12.98	00:05	276.29	687.7	 

Purchase
4 HSP... Assorted Inserts, choose from widths 12-23.9 mm
Receive 50%
on Corresponding Drill Body up to 5xD

Purchase
6 HSP... Assorted Inserts, choose from widths 12-23.9 mm
Receive 75%
on Corresponding Drill Body up to 5xD

Click to See Test Report... ►

To view more result information, click on a specific row:

Machine Machining Center 8, BT - 40 / 19 kW

Material P7 - Low alloy and cast steel

Machining Operation Holemaking, Drilling Stationary Part

Operation Data D12mm, DPT 80mm, DPH 0mm

Results

Filter

- Most Recommended
- View All Results**
- Best Seller
- On Promotion
- Solid
- Tools
- Heads
- Indexable
- Indexable Insert**

Results

Found Results : 2 Out of 11

Designation	Brand Name	DC (mm)	LU (mm)	P (kW)	CTH (mm:ss)	MRR (cm ³ /min)	TCB (NIS/batch)	Actions
Holder: BT40 EM 25X45 Tool: DSN 200-100-25A-5D Head: HSP 200-IQ IC908	LOGIQ3CHAM	20	111.2	12.98	00:05	276.29	699.7	 
Holder: BT40 HYDRO 25X90 Tool: DSN 200-100-25R-5D Head: HSP 200-IQ IC908	LOGIQ3CHAM	20	111.2	12.98	00:05	276.29	687.7	 

ISCAR TOOL ADVISOR

Machine Multi task 1: ISO 25623-1 (CAMFIX) - C8 / 30 kW

Material P7 - Low alloy and cast steel

Machining Operation Milling, Facing

Operation Data D5mm, W100mm, L1000mm

Results

All > Result Information

Machining Parameters

Product Information

2D+3D Representation

Cutting Data

	ITA Recommendation		
Cutting Diameter	DC	125	mm
Depth	D	5	mm
Width	W	100	mm
Length	L	1000	mm
Cutting Speed	V _c	139	m/min
Feed per Tooth	f _z	0.2	mm/tooth
Feed Speed	V _f	566	mm/min
Spindle speed	n	354	rpm
Axial Depth of Cut	a _p	5	mm
Number of Axial Passes	NOPP	1	mm
Radial Width of cut	a _r	100	mm
Number of Radial Passes	NOPE	1	mm
Average Chip Thickness	h _c	0	mm
Maximal Chip Thickness	MCT	0	mm
Material Removal Rate	MRR	283.309	cm ³ /min
Coolant	COOL	DRY	

Tool Assembly Data

	O	123	mm
Overhang	AW	6.56	kg

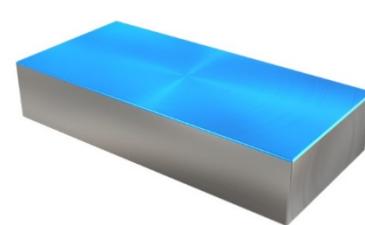
Product Information

Designation: Holder: C8 SEM40X60 C
Tool: SOF45 0125-08-40-R18
Insert: S845 SNMU 1806ANR-MM IC830

Catalog No.: 4561553
3107200
5668958

Comments

2D+3D Representation



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Clicking the link “All” or on the “Results” tab, will lead back to the previous page (‘All results’).

The result information screen is containing three clickable tabs: Machining parameters, Product information and 2D+3D Representation.

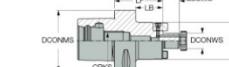
Catalog information for the entire assembly of items:

ISCAR TOOL ADVISOR

Member IMC Group 

Machine Multi task 1: ISO 26623-1 (CAMFIX) - CB / 30 kW | Material P7 - Low alloy and cast steel | Machining Operation Milling, Facing | Operation Data D:5mm, W:100mm, L:1000mm | Results

All > Result Information

Machining Parameters	Product Information	2D+3D Representation																				
	Designation Holder: C8 SEM40X60 C Tool: SOF45 D125-08-40-R18 Insert: SB45 SNNM 1806ANR-MM IC830	Catalog No. 4501553 3107290 5668858	Comments																			
Holder: Family Description: C#-SEM-C ISO 3937 shell mill holders with coolant holes and CAMFIX (ISO 26623-1 standard) exchangeable tapered shanks CAMFIX		 																				
Item Designation: C8 SEM40X60 C <table border="1"> <tr> <th>DCONMS</th> <th>DCONWS</th> <th>BD</th> <th>LSCWS</th> <th>LB</th> <th>LF</th> <th>CRKS</th> <th>WT</th> <th>CDI</th> </tr> <tr> <td>80.00</td> <td>40.00</td> <td>82.00</td> <td>27.00</td> <td>30.0</td> <td>60.00</td> <td>M20</td> <td>2.99</td> <td>1</td> </tr> </table>		DCONMS	DCONWS	BD	LSCWS	LB	LF	CRKS	WT	CDI	80.00	40.00	82.00	27.00	30.0	60.00	M20	2.99	1			
DCONMS	DCONWS	BD	LSCWS	LB	LF	CRKS	WT	CDI														
80.00	40.00	82.00	27.00	30.0	60.00	M20	2.99	1														
Tool:																						

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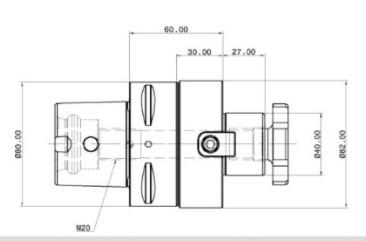
2D & dynamic 3D models for the entire assembly of items:

ISCAR TOOL ADVISOR

Member IMC Group 

Machine Multi task 1: ISO 26623-1 (CAMFIX) - CB / 30 kW | Material P7 - Low alloy and cast steel | Machining Operation Milling, Facing | Operation Data D:5mm, W:100mm, L:1000mm | Results

All > Result Information

Machining Parameters	Product Information	2D+3D Representation		
	Designation Holder: C8 SEM40X60 C Tool: SOF45 D125-08-40-R18 Insert: SB45 SNNM 1806ANR-MM IC830	Catalog No. 4501553 3107290 5668858	Comments	
Holder:		 		
<input checked="" type="radio"/> 3D Representation <input type="radio"/> Light <input type="radio"/> Detailed		<input type="checkbox"/> ISO		

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In the top-left corner of the screen there are two icons: 'Create an assembly' and 'Export file'. A click on 'Export file' icon will open a window to choose download format:

The screenshot shows the ISCAR Tool Advisor software interface. At the top, there are tabs for Machine (Multi task 1, ISO 26623-1 (CAMFIX) - C8 / 30 kW), Material (P7 - Low alloy and cast steel), Machining Operation (Milling, Facing), and Operation Data (D:5mm, W:100mm, L:1000mm). The main area displays 'Machining Parameters' and 'Product Information' tables. On the right, there is a 'Results' section with a 'Create an assembly' button and a 'Download Result' button. A 3D model of a machined part is shown in the center-right.

This screenshot shows the same software interface as the first one, but with a 'Choose download format' dialog box overlaid in the center. The dialog box contains icons for 'P21' and 'ZIP'. The background shows the same tables and 3D model as the first screenshot.

NC program generator for Thread Milling applications is also available.
Click on the 'NC Generator' icon will open the software:

The screenshot shows the ISCAR TOOL ADVISOR software interface. At the top, there are tabs for 'Machine', 'Material', 'Machining Operation', and 'Operation Data'. The 'Machining Operation' tab is active, showing 'Threading, Thread Milling Internal' with parameters like 'TS M60, P=1mm, NS=M6 X 1, LTH=1mm'. Below this, the 'Results' section has a 'NC Generator' button highlighted with a red box. The main area displays 'Machining Parameters', 'Product Information', and '2D+3D Representation'. The '2D+3D Representation' section shows a 3D model of a workpiece with a threaded hole being machined.

After activating the NC generation function and choosing the machine controller/post an NC program will be available for download:

The screenshot shows the MillThread Advisor software interface. It displays the generated NC program on the left, which includes G-code for thread milling. On the right, it shows the 'Tooling' section with a solid tool image, cutting diameter (4.8 mm), application details (Thread Form: M60 (ISO), Nominal Size: M6 X 1, etc.), and a 3D diagram illustrating the machining process. The interface also includes tabs for 'Tool Data', 'Operational Data', 'NC Settings', and 'Summary and Result'.