

# ISCAR **New** Products 2021

Metric Version



**NEOLOGIQ**  
MACHINING INTELLIGENTLY

## Find The NEOLOGIQAL Tool For Your Application!

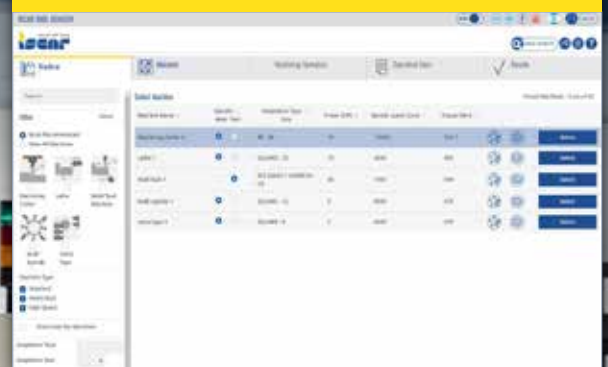
- The virtual tool advisor features advanced AI and 'Big Data' analytics
- Supports with complicated machining tasks and challenges
- Offers a wide range of functions and recommendations to operate machining centers
- Features online service 24/7 in more than 30 languages
- Functions according to ISO13399





# NEO ITA System Workflow

## Select a Machine



## Define and customize machine specifications



## Search material by groups or by random choice



## Choose a Tool Recommendation



and the ISCAR World App



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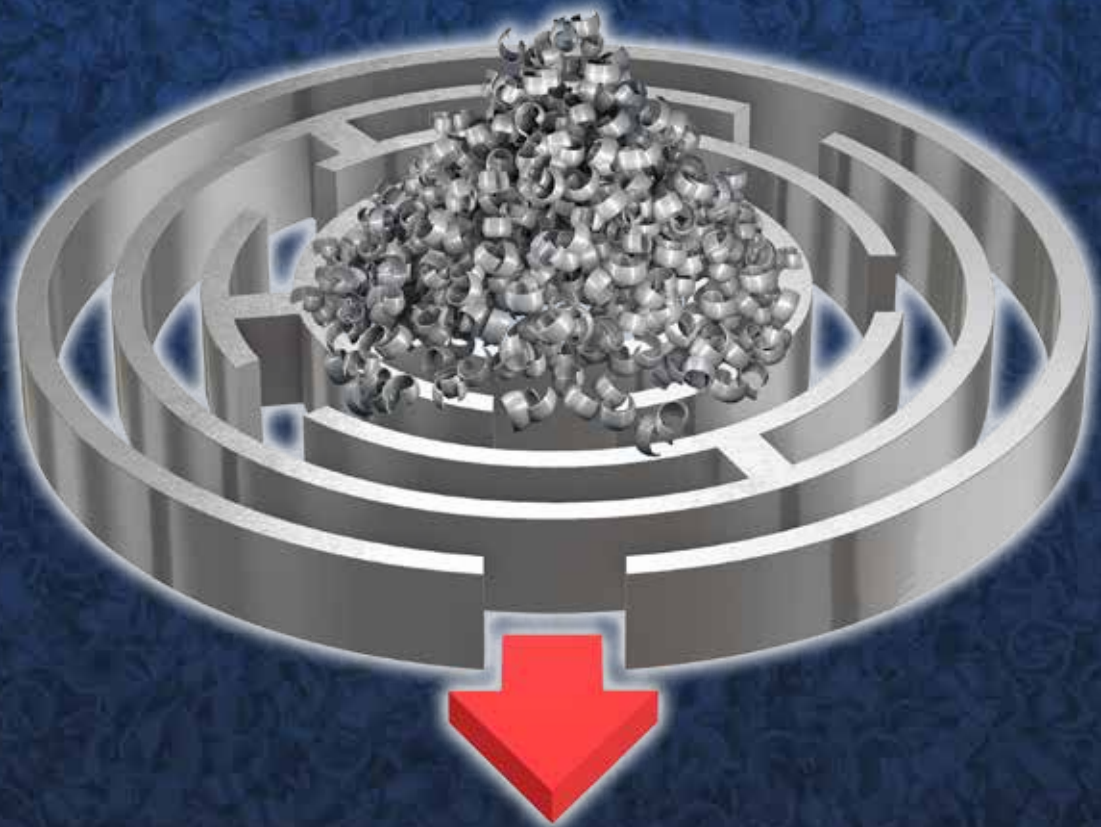




# NEOLOGIQ TURN

MACHINING INTELLIGENTLY

**AMAZING PRODUCTIVITY**



**PICCOINDEX**  
INDEXABLE INSERTS

VIDEO



# **PICCOINDEX**

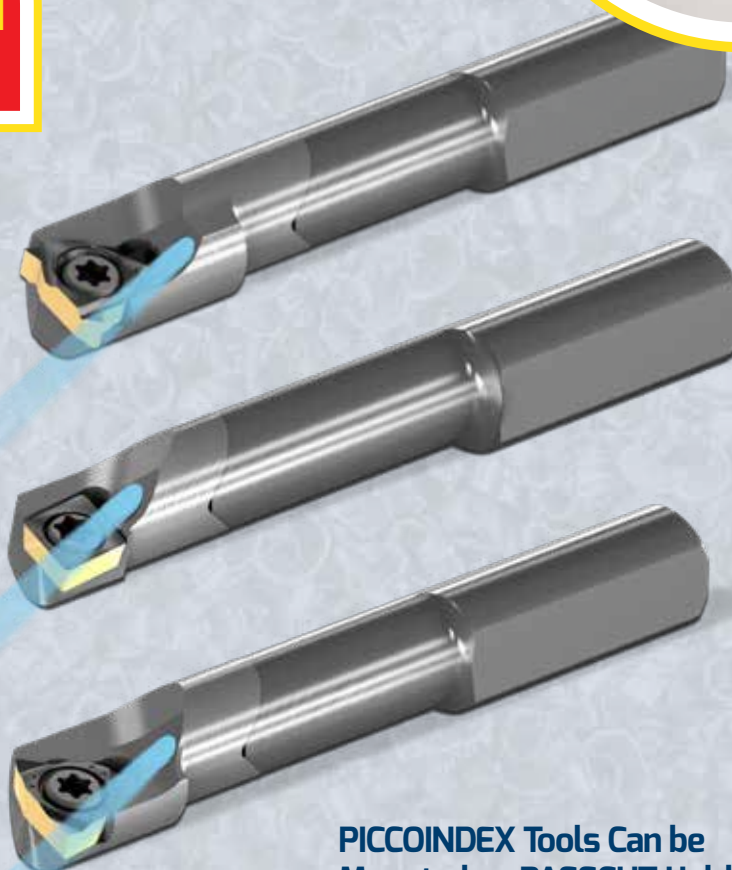
INDEXABLE INSERTS

## **New Solid Carbide Tools**

New PICCOINDEX Solid Carbide Tools with Indexable Inserts for **Machining Miniature Parts** and Increased Tool Life



**200%  
Increased  
Tool Life**

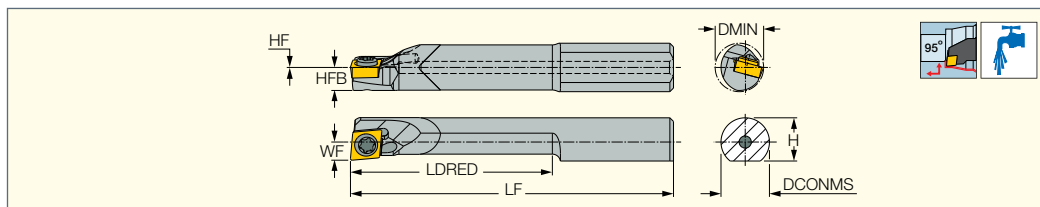


PICCOINDEX Tools Can be Mounted on PASSCUT Holders and the NEOPASS Holder



**PICIN-SCLCR/L**

Solid Carbide PICCO Tools  
Carrying 80° Rhombic Inserts



Designation	DCONMS	LF	LDRED	H	HFB	WF	DMIN	HF	CSP <sup>(1)</sup>	MIID <sup>(2)</sup>
<b>PICIN 05-T20-SCLCR/L-03</b>	5.00	35.00	20.0	4.5	2.1	1.85	4.50	0.0	1	CCGT 03X101-F1P
<b>PICIN 06-T25-SCLCR/L-03</b>	6.00	40.00	25.0	5.4	2.9	2.25	6.00	0.0	1	CCGT 03X101-F1P

<sup>(1)</sup> 1 - With coolant supply

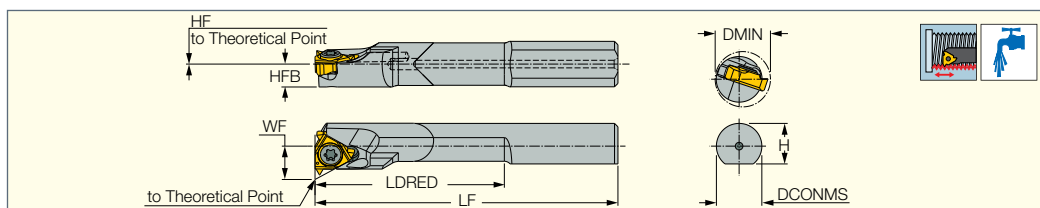
<sup>(2)</sup> Master insert identification

**Spare Parts**

Designation		
<b>PICIN-SCLCR/L</b>	CSTA-1.6	T-6/5

**PICIN-MGSIR/L**

Solid Carbide PICCO Tools  
Carrying Internal Laydown  
Threading Inserts



Designation	DMIN	DCONMS	H	LF	LDRED	WF	HF	HFB	CSP <sup>(1)</sup>	MIID <sup>(2)</sup>
<b>PICIN 06-T25-MGSIL-06</b>	7.30	6.00	5.3	40.00	25.0	4.41	0.0	3.0	1	06IL A 55
<b>PICIN 06-T25-MGSIR-06</b>	7.30	6.00	5.3	40.00	25.0	4.41	0.0	3.0	1	06IR A 55



• B-steel shank with coolant hole, CB-carbide shank with coolant hole • All toolholders provide 1.5° helix angle, either via the pocket or the anvil supplied

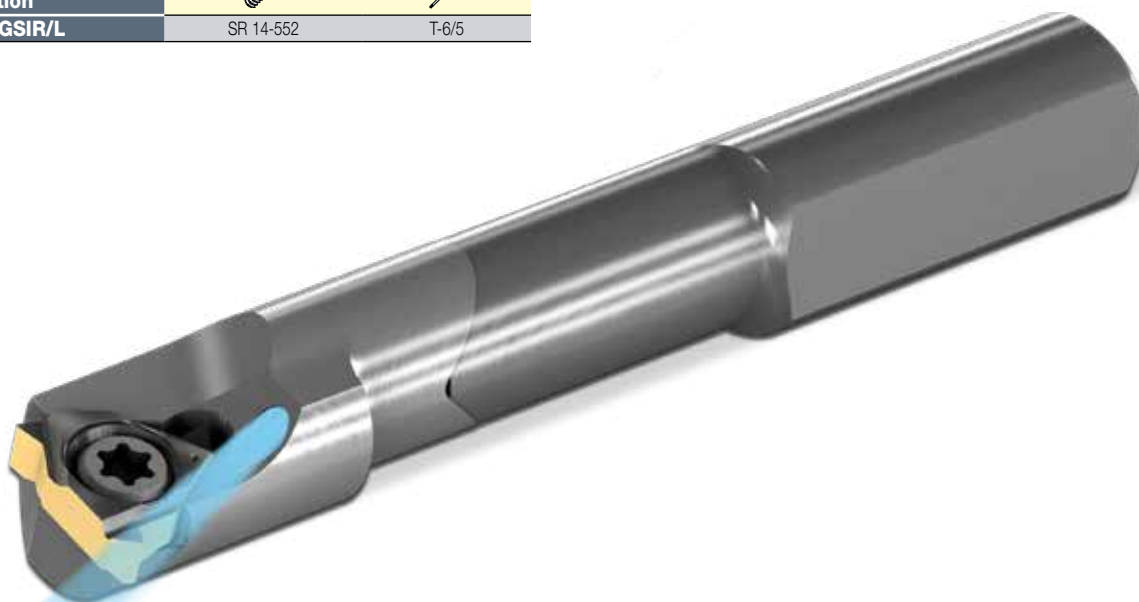
• For GTGA inserts, use anvil AL 16-0

<sup>(1)</sup> 1 - With coolant supply

<sup>(2)</sup> Master insert identification

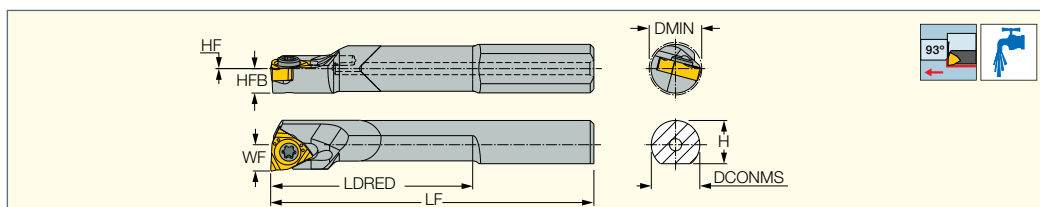
**Spare Parts**

Designation		
<b>PICIN-MGSIR/L</b>	SR 14-552	T-6/5



## PICIN-SWUBR/L

Solid Carbide PICCO Tools  
Carrying Small WBMT/  
WBGT Trigon Inserts





Designation	DCONMS	LF	LDRED	H	HFB	WF	DMIN	HF	CSP <sup>(1)</sup>	MIID <sup>(2)</sup>
PICIN 06-T25-SWUBL-06	6.00	40.00	25.0	5.3	3.0	3.25	6.50	0.0	1	WBMT 060101R
PICIN 06-T25-SWUBR-06	6.00	40.00	25.0	5.3	3.0	3.25	6.50	0.0	1	WBMT 060101L

• Use right-hand WBMT 06...R inserts on left-hand tools and left-hand WBMT 06...L inserts on right-hand tools.

<sup>(1)</sup> 1 - With coolant supply

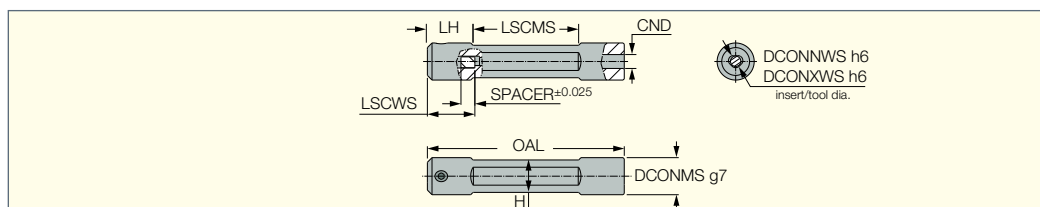
<sup>(2)</sup> Master insert identification

## Spare Parts

Designation		
PICIN-SWUBR/L	SR 14-552	T-6/5

## PICMU

Holders with Improved Cooling  
Supply Suitable for Mounting  
PICCOCUT, PICCOJET Inserts  
and PICCOINDEX Tools.






Designation	DCONMS	DCONNWS <sup>(1)</sup>	DCONXWS <sup>(2)</sup>	OAL	LH	LSCMS	H	LSCWS	CND
PICMU 12-4	12.00	4.00	4.05	85.00	19.7	45.60	11.0	19.00	5.00
PICMU 12-5	12.00	5.00	5.05	85.00	19.7	45.60	11.0	20.50	6.00
PICMU 16-4	16.00	4.00	4.05	85.00	19.7	45.60	14.0	19.00	5.00
PICMU 16-5	16.00	5.00	5.05	85.00	19.7	45.60	14.0	20.50	6.00
PICMU 16-6	16.00	6.00	6.05	85.00	19.7	45.60	14.0	20.50	6.00
PICMU 16-7	16.00	7.00	7.05	85.00	19.7	45.60	14.0	20.80	8.00
PICMU 20-4	20.00	4.00	4.05	85.00	19.7	45.60	18.0	19.00	5.00
PICMU 20-5	20.00	5.00	5.05	85.00	19.7	45.60	18.0	20.50	6.00
PICMU 20-6	20.00	6.00	6.05	85.00	19.7	45.60	18.0	20.50	6.00
PICMU 20-7	20.00	7.00	7.05	85.00	19.7	45.60	18.0	20.80	8.00
PICMU 20-8	20.00	8.00	8.00	85.00	19.7	45.60	18.0	20.00	8.00
PICMU 22-4	22.00	4.00	4.05	85.00	19.7	45.60	20.0	19.00	5.00
PICMU 22-5	22.00	5.00	5.05	85.00	19.7	45.60	20.0	20.50	6.00
PICMU 22-6	22.00	6.00	6.05	85.00	19.7	45.60	20.0	20.50	6.00
PICMU 22-7	22.00	7.00	7.05	85.00	19.7	45.60	20.0	20.80	8.00

• Holders are suitable for right- and left-hand inserts, and boring bars

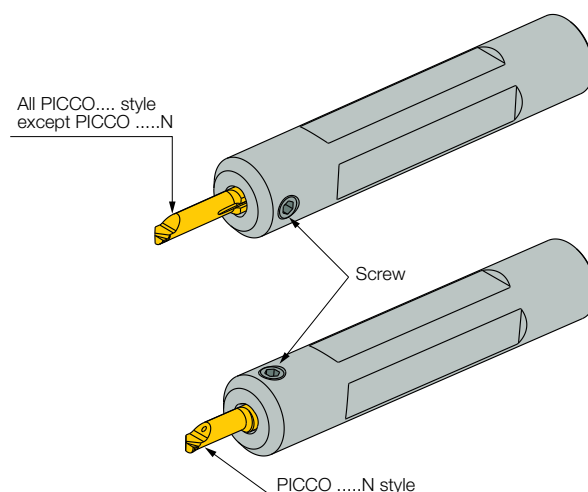
<sup>(1)</sup> Minimum diameter

<sup>(2)</sup> Maximum diameter

## Spare Parts

Designation			
PICMU 12-4	6 <sup>(a)</sup>	SR M5x0.5x6-PF	HW 2.5
PICMU 12-5	6 <sup>(a)</sup>	SR M5x0.5x6-PF	HW 2.5
PICMU 16-4	6 <sup>(a)</sup>	SR M5x0.5x6-PF	HW 2.5
PICMU 16-5	6 <sup>(a)</sup>	SR M5x0.5x6-PF	HW 2.5
PICMU 16-6	6 <sup>(a)</sup>	SR M6x0.5x6-PF	HW 3.0
PICMU 16-7	7 <sup>(a)</sup>	SR M6x0.5x6-PF	HW 3.0
PICMU 20-4	6 <sup>(a)</sup>	SR M5x0.5x6-PF	HW 2.5
PICMU 20-5	6 <sup>(a)</sup>	SR M5x0.5x6-PF	HW 2.5
PICMU 20-6	6 <sup>(a)</sup>	SR M6x0.5x6-PF	HW 3.0
PICMU 20-7	7 <sup>(a)</sup>	SR M6x0.5x6-PF	HW 3.0
PICMU 20-8	-	SR M8x0.5x6.5-PF	HW 4.0
PICMU 22-4	6 <sup>(a)</sup>	SR M5x0.5x6-PF	HW 2.5
PICMU 22-5	6 <sup>(a)</sup>	SR M5x0.5x6-PF	HW 2.
PICMU 22-6	6 <sup>(a)</sup>	SR M6x0.5x6-PF	HW 3.0
PICMU 22-7	7 <sup>(a)</sup>	SR M6x0.5x6-PF	HW 3.0

<sup>(a)</sup> Use only with PICCO CUT

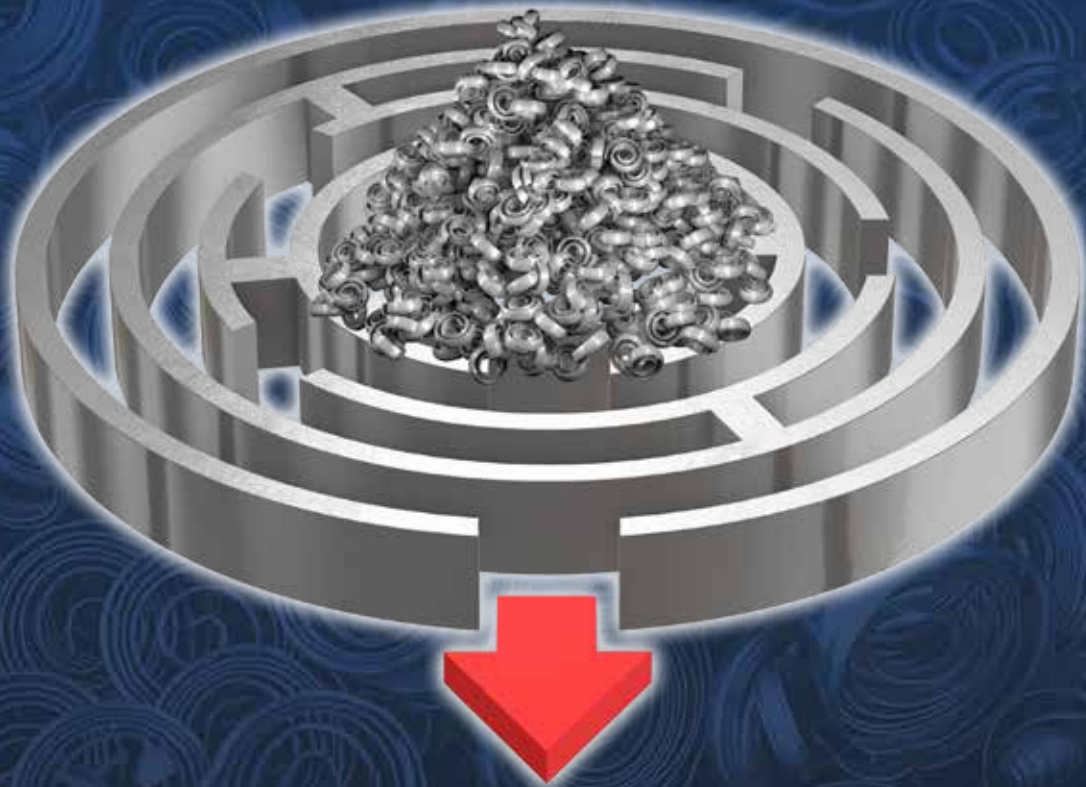




# NEOLOGIQ GRIP

MACHINING INTELLIGENTLY

## AMAZING PRODUCTIVITY



**LOGIQ FGRIP**  
HIGH FEED GRIP HOLDER



**TANG-GRIP**  
Y AXIS PARTING LINE



**JETCROWN**  
LOGIQ JET COOLANT



**SWISSGRIP**  
NARROW WIDTHS



VIDEO



D82

VIDEO



D160



# LOGIQ FGRIP

HIGH FEED GRIP HOLDER

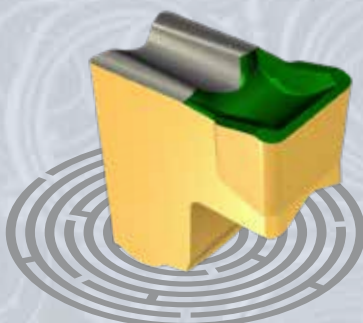
## High Feed Parting

Parting Tools with No Vibrations!

Revolutionary Quad Blade and Unique Holder **Enables Deeper Parting with High Feed Rates.** Guaranteed Vibration - Free Parting, High Part Straightness, and Improved Surface Finish Lead to Material Savings. A 160 mm Bar Diameter Can be Cut with a 3 mm Insert.



**300%  
Increased  
Productivity**



**TANG-GRIP**  
PARTING LINE

New Insert Designed  
for **High Feed Parting**

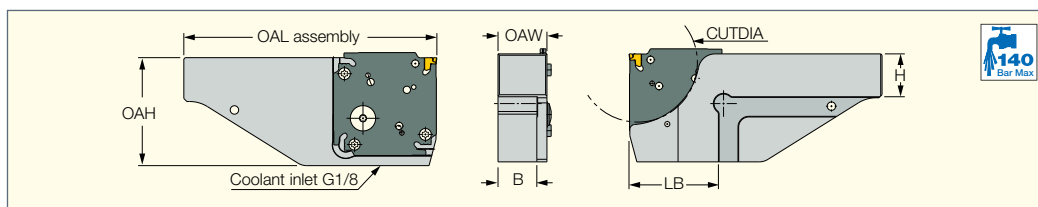


Parting Larger Than Ever,  
Up to **160 mm Diameter**



**TGTBQ-JHP**

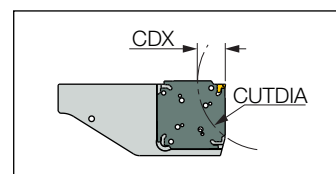
Tool Blocks for Square TANG-F-GRIP and DO-F-GRIP Parting and Grooving Adapters for High Pressure Coolant



Designation	OAH	H	B	OAW	OAL	LB	CUTDIA
TGTBQ 20L-D52-JHP	50.0	20.0	20.5	26.50	122.00	34.00	52.0
TGTBQ 20R-D52-JHP	50.0	20.0	20.5	26.50	122.00	34.00	52.0
TGTBQ 25L-D52-JHP	50.0	25.0	25.5	31.50	132.00	34.00	52.0
TGTBQ 25R-D52-JHP	50.0	25.0	25.5	31.50	132.00	34.00	52.0
TGTBQ 20L-D82-JHP	64.0	20.0	20.5	26.50	140.00	53.00	82.0
TGTBQ 20R-D82-JHP	64.0	20.0	20.5	26.50	140.00	53.00	82.0
TGTBQ 25L-D82-JHP	64.0	25.0	25.5	31.50	150.00	53.00	82.0
TGTBQ 25R-D82-JHP	64.0	25.0	25.5	31.50	150.00	53.00	82.0
TGTBQ 32L-D82-JHP	64.0	32.0	32.5	38.50	150.50	53.50	82.0
TGTBQ 32R-D82-JHP	64.0	32.0	32.5	38.50	150.50	53.50	82.0
TGTBQ 25L-D120-JHP	95.0	25.0	25.5	31.50	165.00	67.00	120.0
TGTBQ 25R-D120-JHP	95.0	25.0	25.5	31.50	165.00	67.00	120.0
TGTBQ 32L-D120-JHP	95.0	32.0	32.5	38.50	165.00	67.00	120.0
TGTBQ 32R-D120-JHP	95.0	32.0	32.5	38.50	165.00	67.00	120.0
TGTBQ 25L-D160-JHP	107.0	25.0	25.5	31.50	190.50	92.50	160.0
TGTBQ 25R-D160-JHP	107.0	25.0	25.5	31.50	190.50	92.50	160.0
TGTBQ 32L-D160-JHP	107.0	32.0	32.5	38.50	190.50	92.50	160.0
TGTBQ 32R-D160-JHP	107.0	32.0	32.5	38.50	190.50	92.50	160.0
TGTBQ 40L-D160-JHP	107.0	40.0	40.5	46.50	190.50	92.50	160.0
TGTBQ 40R-D160-JHP	107.0	40.0	40.5	46.50	190.50	92.50	160.0

Table determining depth of cut for grooving as function of workpiece diameter

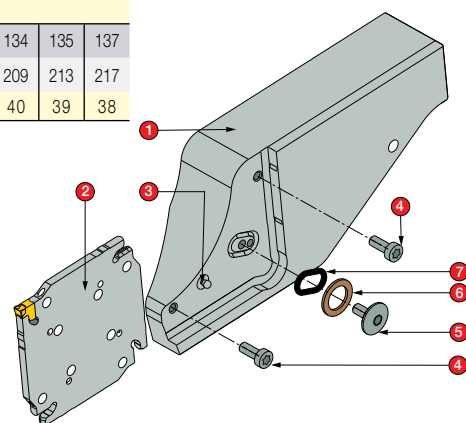
Designation	CUTDIA															
TGTBQ...D52-JHP	53	54	55	56	57	59	61	64	67	71	75	81	88	96	107	122
TGTBQ...D82-JHP	107	110	114	119	124	130	137	145	154	165	178	194	213	237	267	308
TGTBQ...D120-JHP	202	210	219	229	240	253	267	283	302	324	349	380	417	462	518	592
TGTBQ...D160-JHP	345	361	377	396	418	441	468	499	534	576	624	682	753	840	951	1096
CDX	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6



Designation	CUTDIA															
TGTBQ...D82-JHP	83	83	84	84	85	86	87	88	89	91	92	94	96	98	101	103
TGTBQ...D120-JHP	139	141	143	145	148	150	153	156	160	164	168	172	177	183	188	195
TGTBQ...D160-JHP	220	225	229	234	239	245	251	257	264	271	279	288	298	308	320	332
CDX	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22

Designation	CUTDIA															
TGTBQ...D120-JHP	121	122	123	123	124	125	125	126	127	128	129	130	131	132	134	135
TGTBQ...D160-JHP	171	177	181	183	184	186	188	190	193	195	198	200	203	206	209	213
CDX	56-60	53-55	52	51	50	49	48	47	46	45	44	43	42	41	40	39

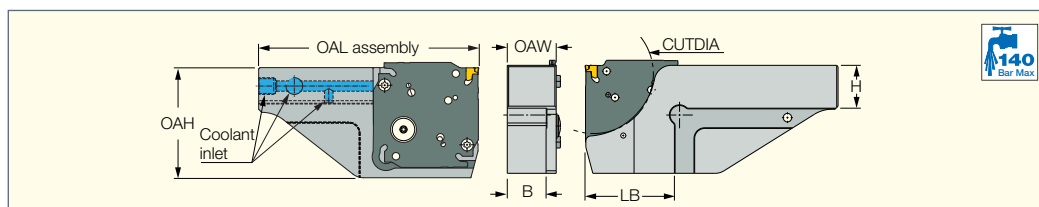
1. Block: TGTBQ...D...
2. Blade: T/DGAQ...
3. Locating Pin: Side thrust Pin 3mm
4. Screw: SR M4x10 ISO 14580
5. Screw: SR M4x9-Seal-JHP
6. Seal washer: CSW 1/8"
7. O-ring: O-ring 10x2 NBR


**Spare Parts**

Designation							
TGTBQ-JHP	SR M4X9-SEAL-JHP	SIDE THRUST PIN 3mm	JHP COPPER SEAL 1/8"	SR ISO 14580 M4X10	SW6-SD	BLD T20/S7	O-RING 10X2 NBR

**TGTBQ-JHP-MC**

Tool Blocks for Parting and Grooving Square Adapters for High Pressure Coolant with Three Cooling Inlets



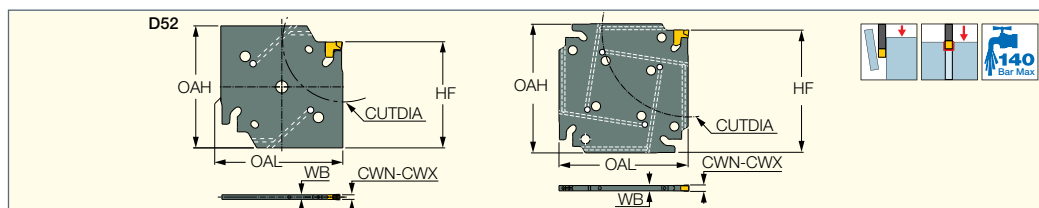
Designation	OAH	H	B	OAW	OAL	LB	CUTDIA
TGTBQ 20R/L-D52-JHP-MC	50.0	20.0	20.5	26.50	112.00	42.00	52.0
TGTBQ 25R/L-D52-JHP-MC	50.0	25.0	26.5	31.50	125.00	40.00	52.0
TGTBQ 20R/L-D82-JHP-MC	64.0	20.0	20.5	26.50	127.50	57.50	82.0
TGTBQ 25R/L-D82-JHP-MC	64.0	25.0	26.5	31.50	142.50	57.50	82.0
TGTBQ 25R/L-D120-JHP-MC	95.0	25.0	26.5	31.50	158.00	73.00	120.0

**Spare Parts**

Designation							
TGTBQ-JHP-MC	SR M4X9-SEAL-JHP	SIDE THRUST PIN 3mm	JHP COPPER SEAL 1/8"	SR ISO 14580 M4X10	BLD T20/S7	SW6-SD	O-RING 10X2 NBR

**TGAQ-JHP**

Parting and Grooving Square Adapters for TANG-GRIP Tangentially Clamped Inserts with Internal Coolant Holes



Designation	OAL	OAH	CWN <sup>(1)</sup>	CWX <sup>(2)</sup>	WB	HF	CUTDIA <sup>(3)</sup>	MIID <sup>(4)</sup>	CSP <sup>(5)</sup>
TGAQ D52-2-2Z-JHP	50.00	50.0	1.80	2.50	1.65	43.5	52.0	TAG 2	1
TGAQ D52-3-2Z-JHP	50.00	50.0	2.80	3.50	2.50	43.5	52.0	TAG 3	1
TGAQ D52-4-2Z-JHP	50.00	50.0	3.70	4.50	3.40	43.5	52.0	TAG 4	1
TGAQ D82-2-4Z-JHP	61.00	61.0	1.80	2.50	1.65	58.0	82.0	TAG 2	1
TGAQ D82-3-4Z-JHP	61.00	61.0	2.80	3.50	2.50	58.0	82.0	TAG 3	1
TGAQ D82-4-4Z-JHP	61.00	61.0	3.70	4.50	3.40	58.0	82.0	TAG 4	1
TGAQ D120-3-4Z-JHP	90.50	90.5	2.80	3.50	2.50	84.0	120.0	TAG 3	1
TGAQ D120-4-4Z-JHP	90.50	90.5	3.70	4.50	3.40	84.0	120.0	TAG 4	1
TGAQ D120-5-4Z-JHP	90.50	90.5	4.70	5.50	4.00	84.0	120.0	TAG 5	1
TGAQ D160-3-4Z-JHP	100.00	100.0	2.80	3.50	2.50	97.0	160.0	TAG 3	1
TGAQ D160-4-4Z-JHP	100.00	100.0	3.70	4.50	3.40	97.0	160.0	TAG 4	1
TGAQ D160-5-4Z-JHP	100.00	100.0	4.70	5.50	4.00	97.0	160.0	TAG 5	1

• Suitable for all TANG-GRIP inserts

<sup>(1)</sup> Minimum cutting width

<sup>(2)</sup> Maximum cutting width

<sup>(3)</sup> Maximum diameter for parting

<sup>(4)</sup> Master insert identification

<sup>(5)</sup> 1 - With coolant supply

**Flow Rate vs. Pressure**

Designation	70 Bar Flow Rate (liters/min)	100 Bar Flow Rate (liters/min)	140 Bar Flow Rate (liters/min)
TGAQ D.../-2.../-3...-JHP	4-7	5-8	6-9
TGAQ D.../-4.../-5...-JHP	6-7	7-8	8-9

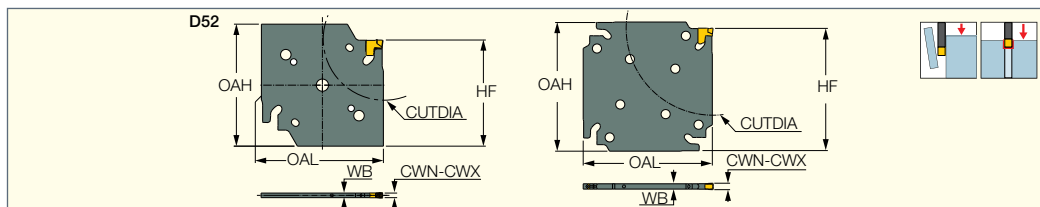
**Spare Parts**

Designation			
TGAQ D52-2-2Z-JHP	SR M4X9-SEAL-JHP	JHP COPPER SEAL 1/8"	ETG 2"
TGAQ D52-3-2Z-JHP	SR M4X9-SEAL-JHP	JHP COPPER SEAL 1/8"	ETG 3-4-SH*
TGAQ D52-4-2Z-JHP	SR M4X9-SEAL-JHP	JHP COPPER SEAL 1/8"	ETG 3-4-SH*
TGAQ D82-2-4Z-JHP	SR M4X9-SEAL-JHP	JHP COPPER SEAL 1/8"	ETG 2"
TGAQ D82-3-4Z-JHP	SR M4X9-SEAL-JHP	JHP COPPER SEAL 1/8"	ETG 3-4-SH*
TGAQ D82-4-4Z-JHP	SR M4X9-SEAL-JHP	JHP COPPER SEAL 1/8"	ETG 3-4-SH*
TGAQ D120-3-4Z-JHP	SR M4X9-SEAL-JHP	JHP COPPER SEAL 1/8"	ETG 3-4-SH*
TGAQ D120-4-4Z-JHP	SR M4X9-SEAL-JHP	JHP COPPER SEAL 1/8"	ETG 3-4-SH*
TGAQ D120-5-4Z-JHP	SR M4X9-SEAL-JHP	JHP COPPER SEAL 1/8"	ETG 5-7*
TGAQ D160-3-4Z-JHP	SR M4X9-SEAL-JHP	JHP COPPER SEAL 1/8"	ETG 3-4-SH*
TGAQ D160-4-4Z-JHP	SR M4X9-SEAL-JHP	JHP COPPER SEAL 1/8"	ETG 3-4-SH*
TGAQ D160-5-4Z-JHP	SR M4X9-SEAL-JHP	JHP COPPER SEAL 1/8"	ETG 5-7*

\* Optional, should be ordered separately



**TGAQ**

Parting and Grooving Square  
Adapters for TANG-GRIP  
Tangentially Clamped Inserts


Designation	OAL	OAH	CWN <sup>(1)</sup>	CWX <sup>(2)</sup>	WB	HF	CUTDIA <sup>(3)</sup>	MIID <sup>(4)</sup>	CSP <sup>(5)</sup>
<b>TGAQ D52-2-2Z</b>	50.00	50.0	1.80	2.50	1.65	43.5	52.0	TAG 2	0
<b>TGAQ D52-3-2Z</b>	50.00	50.0	2.80	3.50	2.50	43.5	52.0	TAG 3	0
<b>TGAQ D52-4-2Z</b>	50.00	50.0	3.70	4.50	3.40	43.5	52.0	TAG 4	0
<b>TGAQ D82-2-4Z</b>	61.00	61.0	1.80	2.50	1.65	58.0	82.0	TAG 2	0
<b>TGAQ D82-3-4Z</b>	61.00	61.0	2.80	3.50	2.50	58.0	82.0	TAG 3	0
<b>TGAQ D82-4-4Z</b>	61.00	61.0	3.70	4.50	3.40	58.0	82.0	TAG 4	0
<b>TGAQ D120-3-4Z</b>	90.50	90.5	2.80	3.50	2.50	84.0	120.0	TAG 3	0
<b>TGAQ D120-4-4Z</b>	90.50	90.5	3.70	4.50	3.40	84.0	120.0	TAG 4	0
<b>TGAQ D120-5-4Z</b>	90.50	90.5	4.70	5.50	4.00	84.0	120.0	TAG 5	0
<b>TGAQ D160-3-4Z</b>	100.00	100.0	2.80	3.50	2.50	97.0	160.0	TAG 3	0
<b>TGAQ D160-4-4Z</b>	100.00	100.0	3.70	4.50	3.40	97.0	160.0	TAG 4	0
<b>TGAQ D160-5-4Z</b>	100.00	100.0	4.70	5.50	4.00	97.0	160.0	TAG 5	0

• Suitable for all TANG-GRIP inserts

<sup>(1)</sup> Minimum cutting width



<sup>(2)</sup> Maximum cutting width

<sup>(3)</sup> Maximum diameter for parting

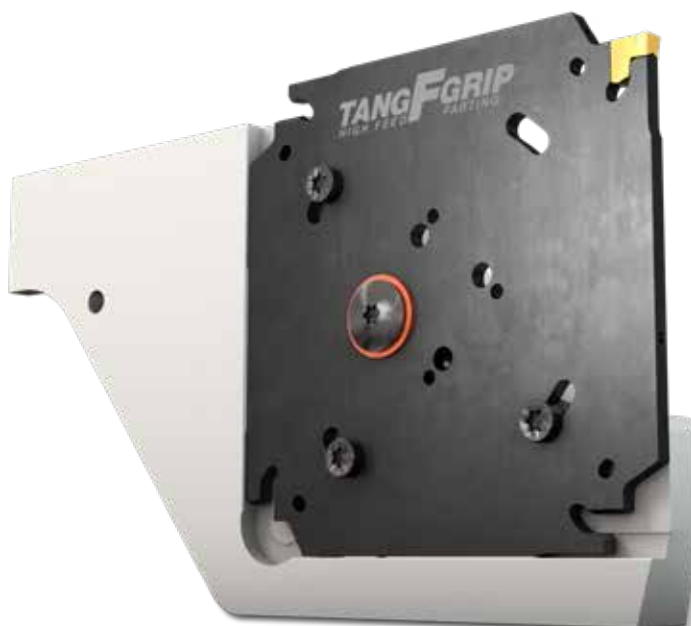
<sup>(4)</sup> Master insert identification

<sup>(5)</sup> 0 - Without coolant supply

**Spare Parts**

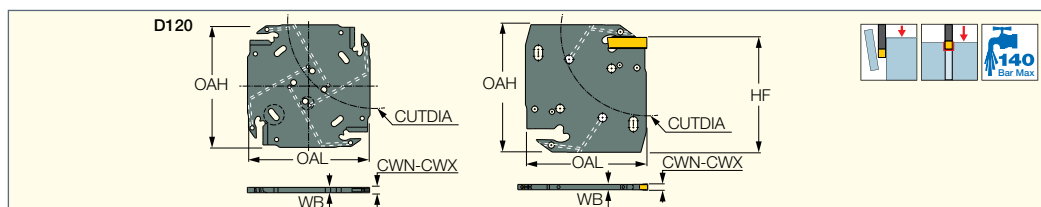
Designation		
<b>TGAQ D52-2-2Z</b>	SR ISO 14580 M4X10	ETG 2"
<b>TGAQ D52-3-2Z</b>	SR ISO 14580 M4X10	ETG 3-4-SH*
<b>TGAQ D52-4-2Z</b>	SR ISO 14580 M4X10	ETG 3-4-SH*
<b>TGAQ D82-2-4Z</b>	SR ISO 14580 M4X10	ETG 2"
<b>TGAQ D82-3-4Z</b>	SR ISO 14580 M4X10	ETG 3-4-SH*
<b>TGAQ D82-4-4Z</b>	SR ISO 14580 M4X10	ETG 3-4-SH*
<b>TGAQ D120-3-4Z</b>	SR ISO 14580 M4X10	ETG 3-4-SH*
<b>TGAQ D120-4-4Z</b>	SR ISO 14580 M4X10	ETG 3-4-SH*
<b>TGAQ D120-5-4Z</b>	SR ISO 14580 M4X10	ETG 5-7*
<b>TGAQ D160-3-4Z</b>	SR ISO 14580 M4X10	ETG 3-4-SH*
<b>TGAQ D160-4-4Z</b>	SR ISO 14580 M4X10	ETG 3-4-SH*
<b>TGAQ D160-5-4Z</b>	SR ISO 14580 M4X10	ETG 5-7*

\* Optional, should be ordered separately



**DGAQ-JHP**

Parting and Grooving Square  
Adapters for DO-GRIP Inserts  
with Internal Coolant Holes



Designation	OAL	OAH	CWN <sup>(1)</sup>	CWX <sup>(2)</sup>	WB	HF	CUTDIA <sup>(3)</sup>	MIID <sup>(4)</sup>	CSP <sup>(5)</sup>
DGAQ D52-2-2Z-JHP	50.00	50.0	1.90	2.50	1.72	43.5	52.0	DGN 2	1
DGAQ D52-3-2Z-JHP	50.00	50.0	3.00	3.18	2.50	43.5	52.0	DGN 3	1
DGAQ D52-4-2Z-JHP	50.00	50.0	4.00	4.00	3.20	43.5	52.0	DGN 4	1
DGAQ D82-3-2Z-JHP	61.00	64.4	3.00	3.18	2.50	58.0	82.0	DGN 3	1
DGAQ D82-4-2Z-JHP	61.00	64.4	4.00	4.00	3.20	58.0	82.0	DGN 4	1
DGAQ D82-5-2Z-JHP	61.00	64.4	5.00	5.00	4.00	58.0	82.0	DGN 5	1
DGAQ D120-4-4Z-JHP	90.50	90.5	4.00	4.00	3.20	84.0	120.0	DGN 4	1
DGAQ D120-5-4Z-JHP	90.50	90.5	5.00	5.00	4.00	84.0	120.0	DGN 5	1

• When using 2 and 3mm double-sided inserts, the depth of cut is limited up to 19mm. For larger depth, use a DGNM type single-ended insert.

<sup>(1)</sup> Minimum cutting width

<sup>(2)</sup> Maximum cutting width

<sup>(3)</sup> Maximum diameter for parting




<sup>(4)</sup> Master insert identification

<sup>(5)</sup> 1 - With coolant supply

### Flow Rate vs. Pressure

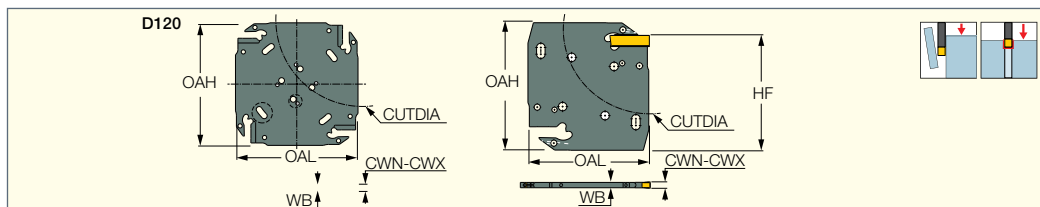
Designation	70 Bar Flow Rate (liters/min)	100 Bar Flow Rate (liters/min)	140 Bar Flow Rate (liters/min)
DGAQ D.../-2/-3...-JHP	4-7	5-8	6-9
DGAQ D.../-4/-5...-JHP	6-7	7-8	8-9

### Spare Parts

Designation			
DGAQ-JHP	SR M4X9-SEAL-JHP	JHP COPPER SEAL 1/8"	EDG 33A*

\* Optional, should be ordered separately





Designation	OAL	OAH	CWN <sup>(1)</sup>	CWX <sup>(2)</sup>	WB	HF	CUTDIA <sup>(3)</sup>	MIID <sup>(4)</sup>	CSP <sup>(5)</sup>
<b>DGAQ D52-2-2Z</b>	50.00	50.0	1.90	2.50	1.72	43.5	52.0	DGN/R/L 2	0
<b>DGAQ D52-3-2Z</b>	50.00	50.0	3.00	3.18	2.50	43.5	52.0	DGN/R/L 3	0
<b>DGAQ D52-4-2Z</b>	50.00	50.0	4.00	4.00	3.20	43.5	52.0	DGN/R/L 4	0
<b>DGAQ D82-3-2Z</b>	61.00	64.4	3.00	3.18	2.50	58.0	82.0	DGN/R/L 3	0
<b>DGAQ D82-4-2Z</b>	61.00	64.4	4.00	4.00	3.20	58.0	82.0	DGN/R/L 4	0
<b>DGAQ D82-5-2Z</b>	61.00	64.4	5.00	5.00	4.00	58.0	82.0	DGN/R/L 5	0
<b>DGAQ D120-4-4Z</b>	90.50	90.5	4.00	4.00	3.20	84.0	120.0	DGN/R/L 4	0
<b>DGAQ D120-5-4Z</b>	90.50	90.5	5.00	5.00	4.00	84.0	120.0	DGN/R/L 5	0

• When using 2 and 3mm double-sided inserts, the depth of cut is limited up to 19mm. For larger depth, use a DGNM type single-ended insert.

<sup>(1)</sup> Minimum cutting width


<sup>(2)</sup> Maximum cutting width

<sup>(3)</sup> Maximum diameter for parting

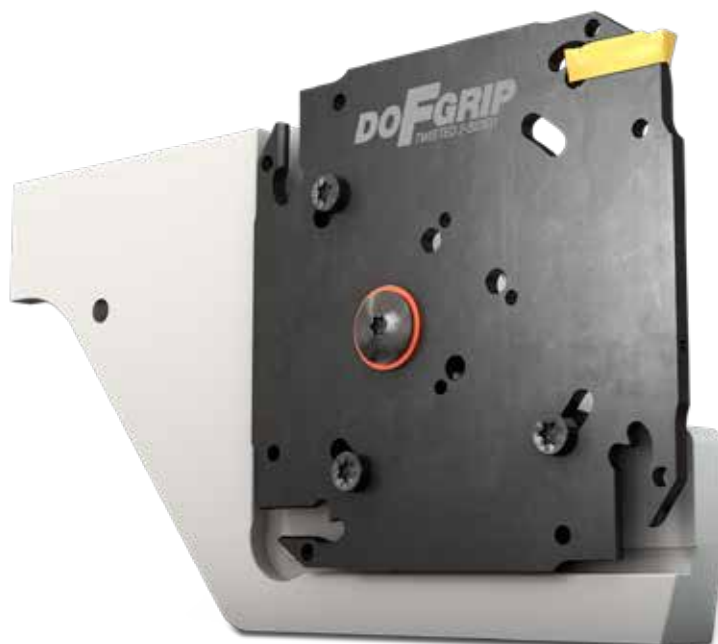
<sup>(4)</sup> Master insert identification

<sup>(5)</sup> 0 - Without coolant supply

### Spare Parts

Designation		
<b>DGAQ</b>	SR ISO 14580 M4X10	EDG 33A*

\* Optional, should be ordered separately







**JETCROWN**  
LOGIQ JET COOLANT

# Innovative Clamping with Pinpointed Coolant

## Quick Clamping Crown

A Unique Method for Clamping  
a Square-Shaped Blade with  
**Direct Pinpointed Coolant.**

Improves Insert Life

**No Setup Time - Fast Blade Indexing.**

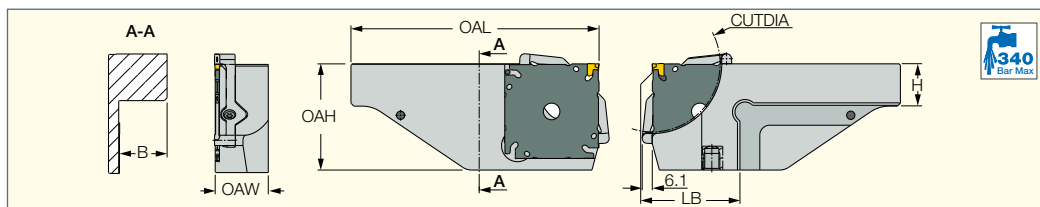


**200%**  
More Parting  
Profitability

Top and Bottom Highly Efficient  
**Pinpointed Coolant**



**TGTBQ-ECD-JHP**  
Tool Blocks for Square  
TANG-F-GRIP Parting and  
Grooving Adapters for  
High Pressure Coolant



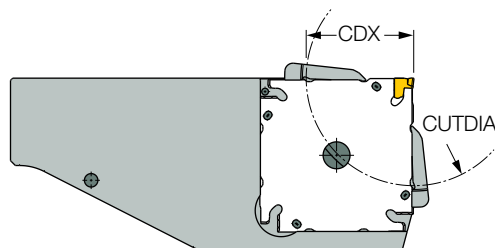
Designation	OAH	H	B	OAW	OAL	LB	CUTDIA
TGTBQ 20L-D82-ECD-JHP	64.0	20.0	20.5	26.50	140.00	53.00	82.0
TGTBQ 20R-D82-ECD-JHP	64.0	20.0	20.5	26.50	140.00	53.00	82.0
TGTBQ 25L-D82-ECD-JHP	64.0	25.0	25.5	31.50	150.00	53.00	82.0
TGTBQ 25R-D82-ECD-JHP	64.0	25.0	25.5	31.50	150.00	53.00	82.0

Table determining depth of cut as function of workpiece diameter.

Designation	CUTDIA																
TGTBQ ..R/L-D82-ECD	265	230	205	185	170	160	145	140	130	125	120	115	110	105	104	101	99
CDX	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

Designation	CUTDIA																
TGTBQ ..R/L-D82-ECD	96	94	93	91	90	88	87	86	86	85	84	84	83	83	83	83	83
CDX	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34

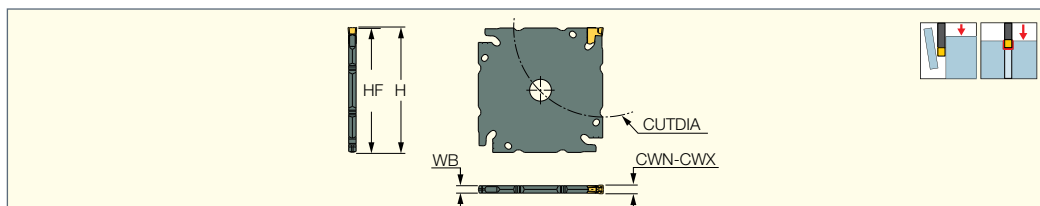
Designation	CUTDIA						
TGTBQ ..R/L-D82-ECD	82	82	82	82	83	83	82
CDX	35	36	37	38	39	40	41



#### Spare Parts

Designation			
TGTBQ-ECD-JHP	SR M7-R-L	BLD T20/S7	SW6-SD

**TGAQ-ECD**  
Parting and Grooving Square  
Adapters Compatible with TANG-  
GRIP Inserts (Single-Ended)



Designation	CWN <sup>(1)</sup>	CWX <sup>(2)</sup>	WB	H	CUTDIA	MIID <sup>(3)</sup>	HF
TGAQ D82-2-4Z-ECD	1.80	2.50	1.65	58.0	82.0	TAG N2C	57.7
TGAQ D82-3-4Z-ECD	2.80	3.50	2.50	58.0	82.0	TAG N3C	57.7
TGAQ D82-4-4Z-ECD	3.70	3.40	3.40	58.0	82.0	TAG N4C	57.7

• Suitable for all TANG-GRIP inserts

<sup>(1)</sup> Minimum cutting width

<sup>(2)</sup> Maximum cutting width

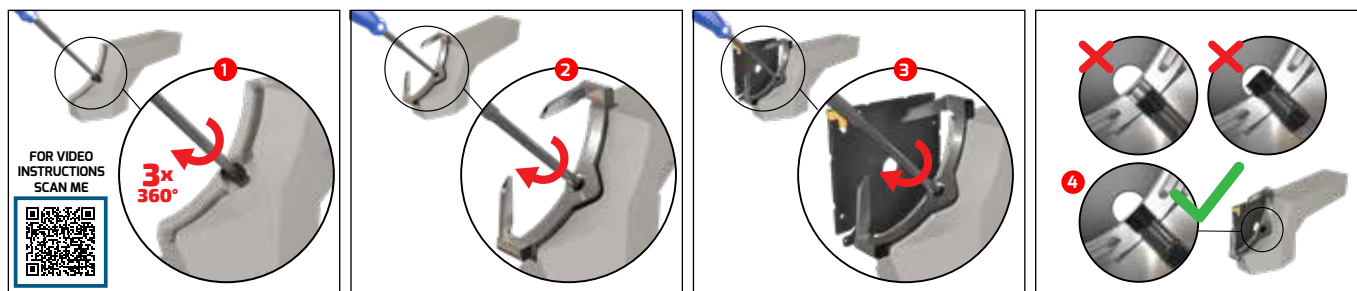
<sup>(3)</sup> Master insert identification

#### Spare Parts

Designation		
TGAQ D82-2-4Z-ECD	CD D82-2-ECD-TG* <sup>(a)</sup>	ETG 2*
TGAQ D82-3-4Z-ECD	CD D82-3-ECD-TG* <sup>(a)</sup>	ETG 3-4-SH*
TGAQ D82-4-4Z-ECD	CD D82-4-ECD-TG* <sup>(a)</sup>	ETG 3-4-SH*

\* Optional, should be ordered separately

<sup>(a)</sup> Requires a separate crown for each insert width





VIDEO



**LOGIQ** **FGRIP**  
HIGH FEED Y-AXIS

## Multi-Task Holder

New Intermediate Size Holder  
for **Y-Axis Parting on Multi-Tasking  
Machines** Enables Parting at  
High Feed Rates. **Vibration Free!**



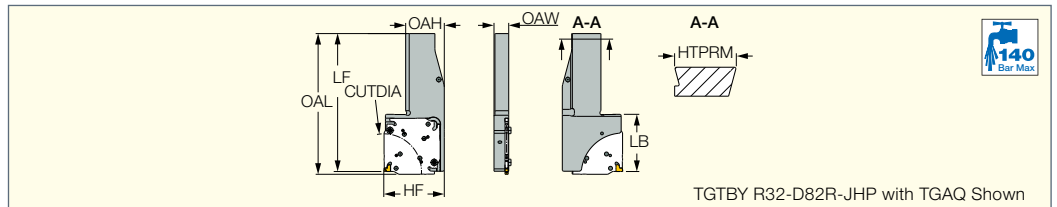
**Vibration  
Free!**

**Same Holder and Blade**  
for Y-and X-Axis Parting



### TGTBY-JHP

Y-Axis Intermediate Prismatic  
Holders for Square JHP  
Adapters on Multi-Task Machines  
for Parting and Grooving



TGTBY R32-D82R-JHP with TGAQ Shown

Designation	OAH	HF	OAW	LF	LB	CUTDIA	OAL <sup>(1)</sup>	OAL_2 <sup>(2)</sup>	HTPRM
TGTBY L32-D82R-JHP	42.0	65.8	16.00	150.00	62.00	82.0	153.00	156.40	32.00
TGTBY R32-D82L-JHP	42.0	65.8	16.00	150.00	62.00	82.0	153.00	156.40	32.00
TGTBY R32-D82R-JHP	42.0	65.8	16.00	150.00	62.00	82.0	153.00	156.40	32.00
TGTBY L32-D82L-JHP	42.0	65.8	16.00	150.00	62.00	82.0	153.00	156.40	32.00

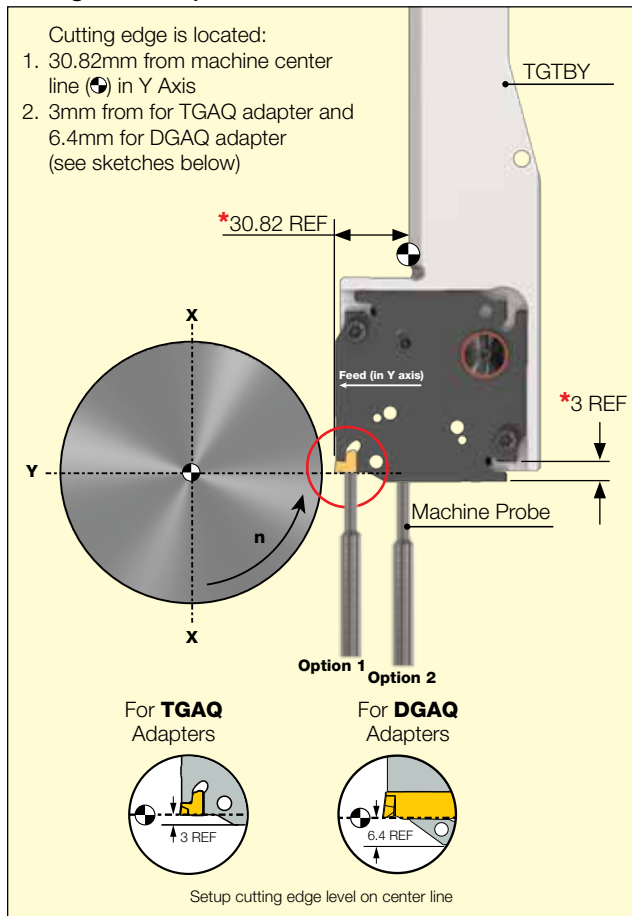
• Can be used also for X-axis (multi-task machines) - location pin should be removed

<sup>(1)</sup> Overall length with TGAQ adapter

<sup>(2)</sup> Overall length with DGAQ adapter

## Y-Axis Tool Setup on Multi-Task Machines

### Parting and Setup in Y Axis Direction



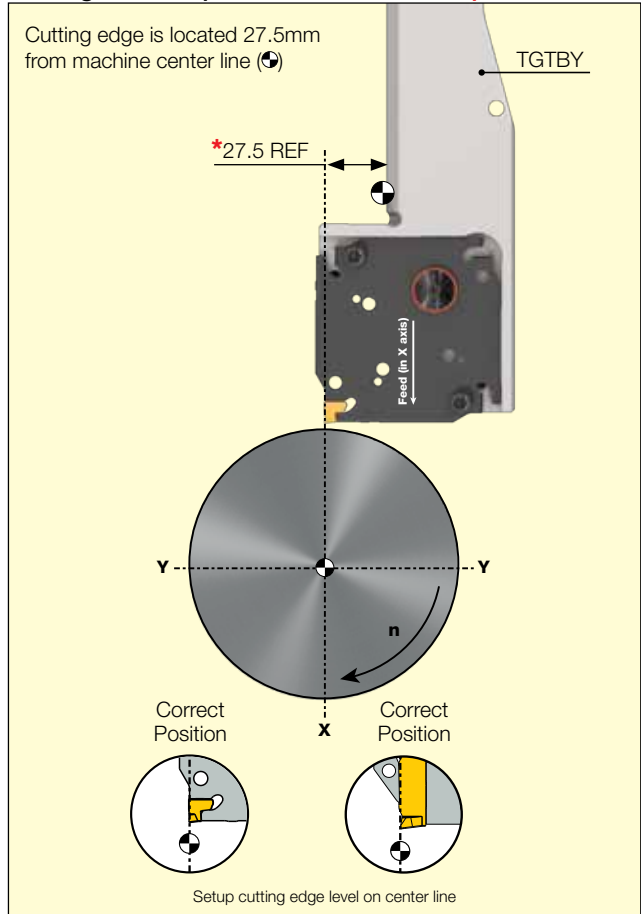
\* For Y Axis cut off, compensate 30.82mm in Y Axis direction and compensate 3mm for TGAQ adapters or 6.4mm for DGAQ adapters in X Axis direction.

Set the cutting edge on the center line:

Option 1 - Gauge the cutting edge - this is preferable due to better accuracy

Option 2 - Gauge the blade and compensate 3mm / 6.4mm

### Parting and Setup in X Axis Direction - Optional



\* For X Axis cut off, compensate 27.5mm in Y Axis direction. Location pin should be removed

## Spare Parts

Designation									
TGTBY-JHP	SR ISO 14580 M4X10	SR M4X9-SEAL-JHP	OR 16X2 NBR	JHP COPPER SEAL 1/8"	BLD T20/S7	SW6-SD	PLG G1/8 TL360	HW 5.0	SIDE THRUST PIN 3mm

VIDEO



**TANG-GRIP**  
Y AXIS PARTING LINE

# Y-Axis Versatile Parting

NEW Modular TANG-GRIP Adapters  
for **Y-Axis Parting** on Multi-Tasking  
Machines and Turning Centers.



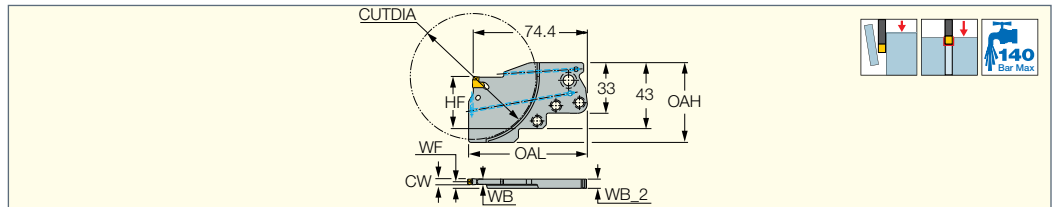
**TANG-GRIP**  
PARTING LINE

New Insert Designed  
for **High Feed** Parting



**TAGPAD-Y-JHP**

Y-Axis Adapters for Parting and Grooving on Multi-Task Machines and Turning Centers, with JHP Channels and TANG-GRIP Inserts



Designation	CW	WF	WB	WB_2	OAL	OAH	HF	CUTDIA	MIID <sup>(1)</sup>	
<b>TAGPAD-Y-D82R/L-3C</b>	3.00	4.80	2.40	6.0	77.40	52.0	34.0	82.0	TAG 3	ETG 3-4-SH*
<b>TAGPAD-Y-D82R/L-4C</b>	4.00	4.30	3.40	6.0	77.40	52.0	34.0	82.0	TAG 4	ETG 3-4-SH*

\* Can be offered for parting up to 125mm diameter as semi standard: TAGPAD-Y-125R/L-3C, TAGPAD-Y-125R/L-4C

\* Optional, should be ordered separately

<sup>(1)</sup> Master insert identification







**SWISSGRIP**  
N A R R O W   W I D T H S

# Narrow Parting for Cost Savings!

Innovative Tool Holder with a **2 Pocket Blade** Enables Parting and Grooving. Narrow Widths of **0.6-1.2 mm**. Fits Swiss-Type Machines. Easy and Fast Blade Indexing with **No Setup Time**.



High Cost  
Savings  
No Setup  
Time



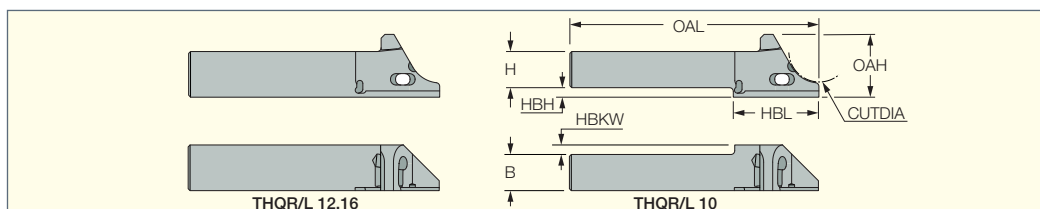
Easy and Fast Blade Indexing  
from Either Side of the Tool

- 0.6 and 0.8 Insert Widths for 10 mm Part Diameter.
  - 1.0 and 1.2 Insert Widths for 16 mm Part Diameter.
- Increments of 0.2 mm**



**THQR/L**

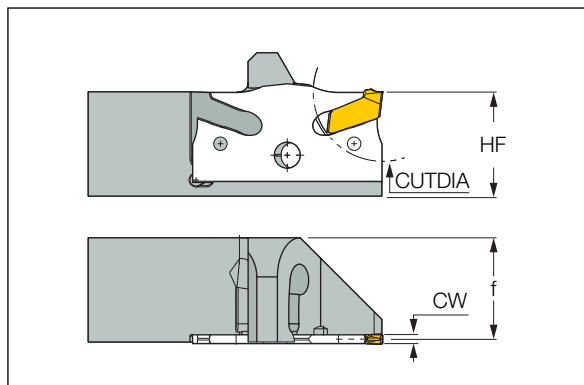
Parting and Grooving  
Holder for SELF-GRIP  
Mini-Blades (SGAQ), Suitable  
for Swiss-Type Machines



Designation	H	OAL	HF	OAH	HBL	HBH	CUTDIA	HBKW	B
THQR/L 10-D16	10.0	100.00	10.0	16.5	22.6	2.0	16.0	12.00	10.0
THQR/L 12-D16	12.0	100.00	12.0	16.5	-	-	16.0	-	12.0
THQR/L 16-D16	16.0	100.00	16.0	20.5	-	-	16.0	-	16.0

Designation	CW	CUTDIA	f
THQL/R 10-D16 + SGAQ 0.6	0.6	10	9.68
THQL/R 10-D16 + SGAQ 0.8	0.8	10	9.68
THQL/R 12-D16 + SGAQ 0.6	0.6	10	11.68
THQL/R 12-D16 + SGAQ 0.8	0.8	10	11.68
THQL/R 16-D16 + SGAQ 0.6	0.6	10	15.68
THQL/R 16-D16 + SGAQ 0.8	0.8	10	15.68

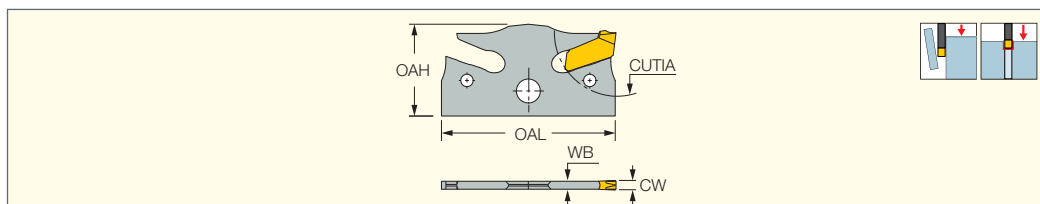
Designation	CW	CUTDIA	f
THQL/R 10-D16 + SGAQ 1.0	1	16	9.60
THQL/R 10-D16 + SGAQ 1.2	1.2	16	9.68
THQL/R 12-D16 + SGAQ 1.0	1	16	11.60
THQL/R 12-D16 + SGAQ 1.2	1.2	16	11.68
THQL/R 16-D16 + SGAQ 1.0	1	16	15.60
THQL/R 16-D16 + SGAQ 1.2	1.2	16	15.68


**Spare Parts**

Designation	
THQR/L	ESG-SWISS 0.6-1.2

**SGAQ**

SELF-GRIP Mini-Blades for  
Parting and Grooving, Suitable  
for Swiss-Type Machines



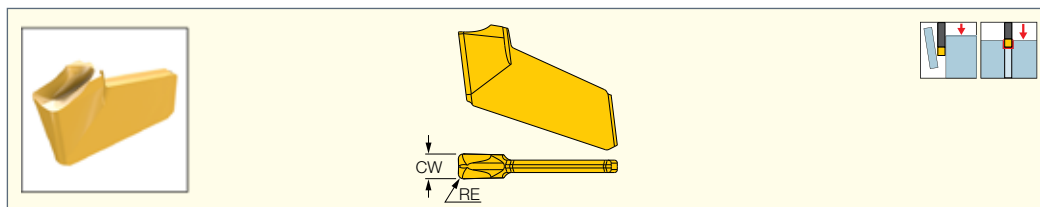
Designation	OAH	OAL	HF	CUTDIA	WB	CW	MIID <sup>(1)</sup>	
SGAQ D10-0.6	11.5	21.80	10.4	10.0	0.50	0.60	GFT 0.6J-0.1	ESG-SLM*
SGAQ D10-0.8	11.5	21.80	10.4	10.0	0.68	0.80	GFT 0.8J-0.1	ESG-SLM*
SGAQ D16-1.0	11.5	21.80	10.4	16.0	0.85	1.00	GFT 1.0J-0.1	ESG-SLM*
SGAQ D16-1.2	11.5	21.80	10.4	16.0	1.00	1.20	GFT 1.2J-0.14	ESG-SLM*

<sup>(1)</sup> Master insert identification

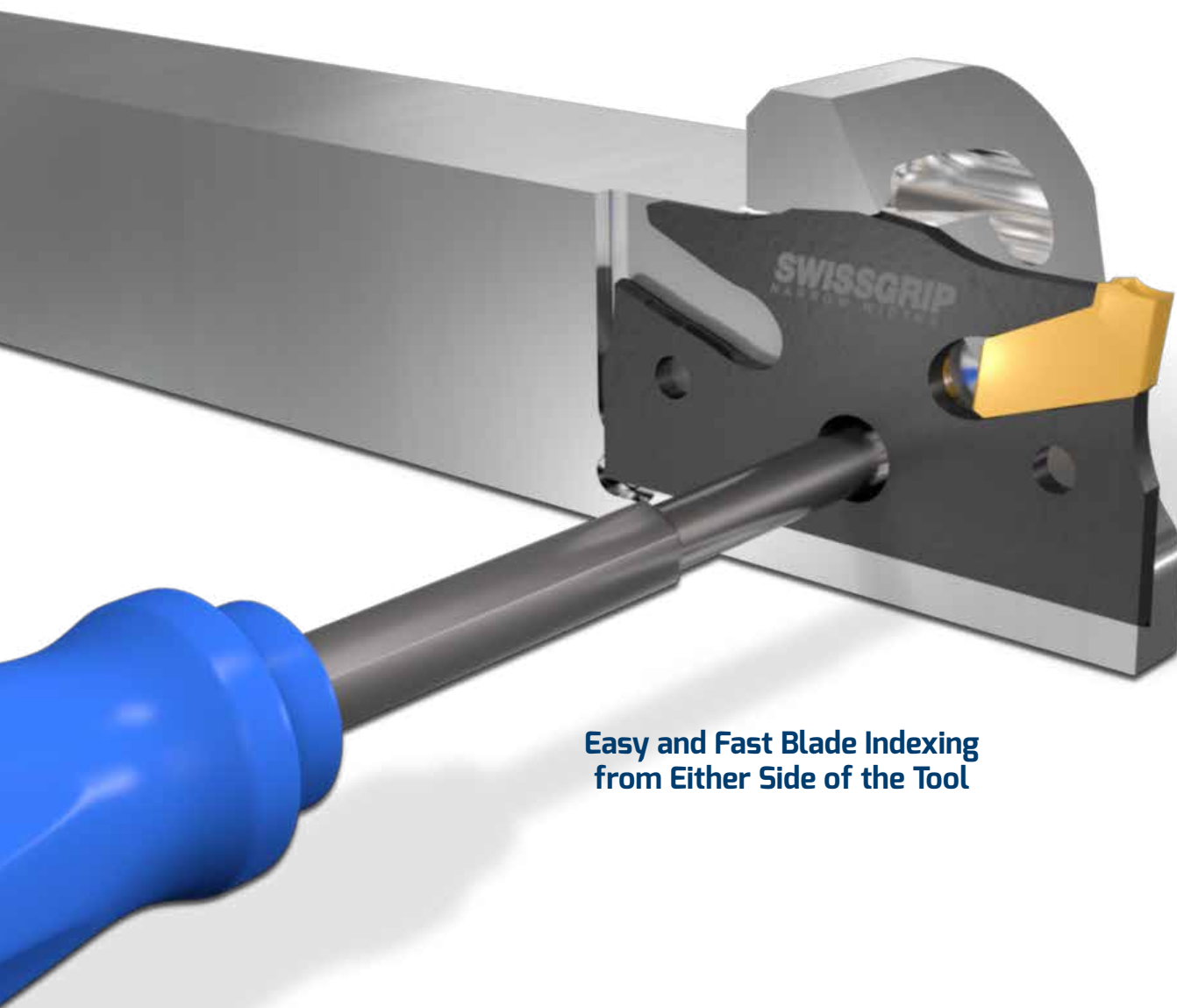
\* Optional, should be ordered separately

**GFT-J**

Thin Parting, Grooving  
and Slitting Single-Ended  
Inserts for Soft Materials



Designation	Dimensions		Tough ↔ Hard		Recommended Machining Data
	CW	RE	IC1028	IC1008	f groove (mm/rev)
GFT 0.6J-0.1	0.60	0.10	•	•	0.025-0.05
GFT 0.8J-0.1	0.80	0.10	•	•	0.025-0.07
GFT 1.0J-0.1	1.00	0.10	•	•	0.03-0.09
GFT 1.2J-0.14	1.20	0.14	•	•	0.03-0.10



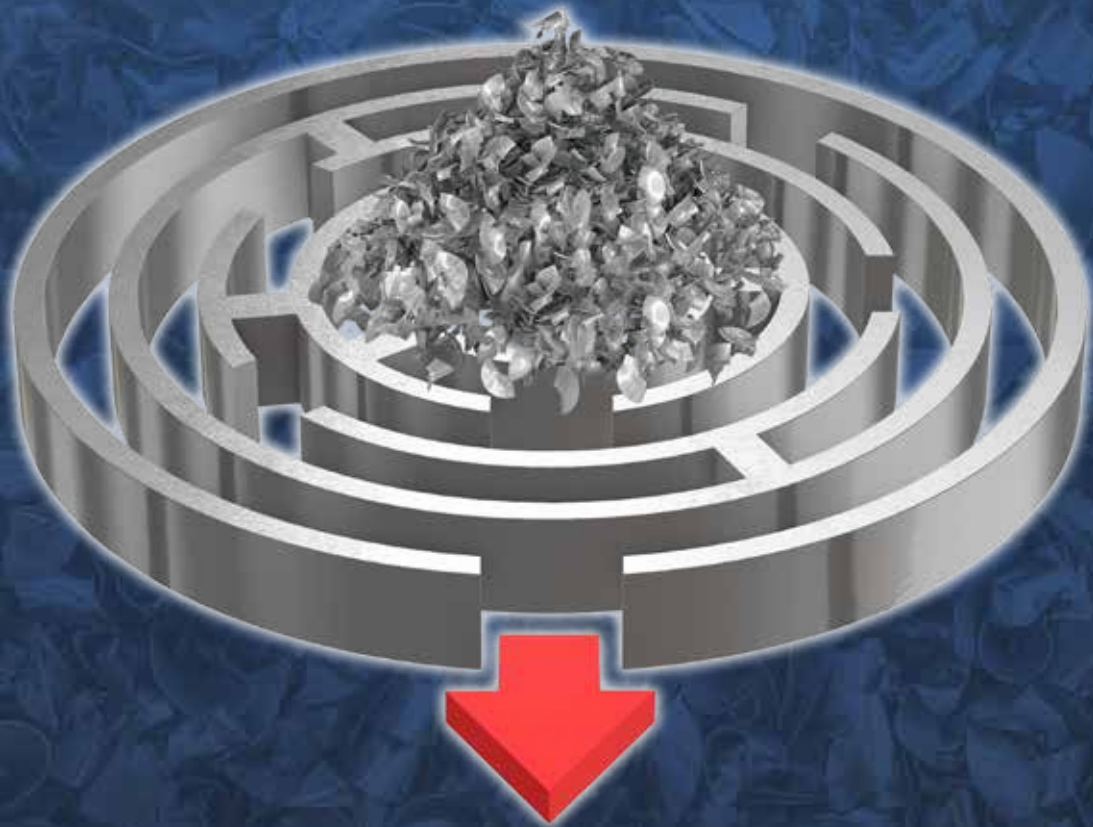
**Easy and Fast Blade Indexing  
from Either Side of the Tool**



# NEOLOGIQ DRILL

MACHINING INTELLIGENTLY

## AMAZING PRODUCTIVITY



**LOGIQ 3CHAM**  
THREE FLUTE CHAMDRILL



**SOLID DRILL**  
SOLID CARBIDE

VIDEO



VIDEO



# **LOGIQ 3CHAM**

THREE FLUTE CHAMDRILL

## High Productivity Drilling



For Better Roundness  
and Concentricity

**3 Effective Cutting Edges,**  
Self-Centering Drill and Flat  
Heads for Fast and Accurate  
Drilling. Excellent Hole  
Surface and Chip Evacuation.  
**Dia. Range of 12-25.9 mm**

**300%  
Faster**



**Self-Centering** for  
High Surface Quality



**Flat Heads** for  
Flat Bottom Holes



**1.5XD**

**3XD**

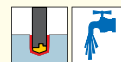
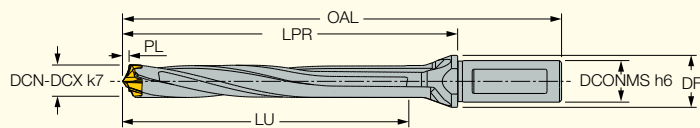
**5XD**

**8XD**



**D3N A-8D**

Exchangeable Head 3 Flute Drills  
 with Coolant Holes and One  
 Flat Shank. Drilling Depth 8xD

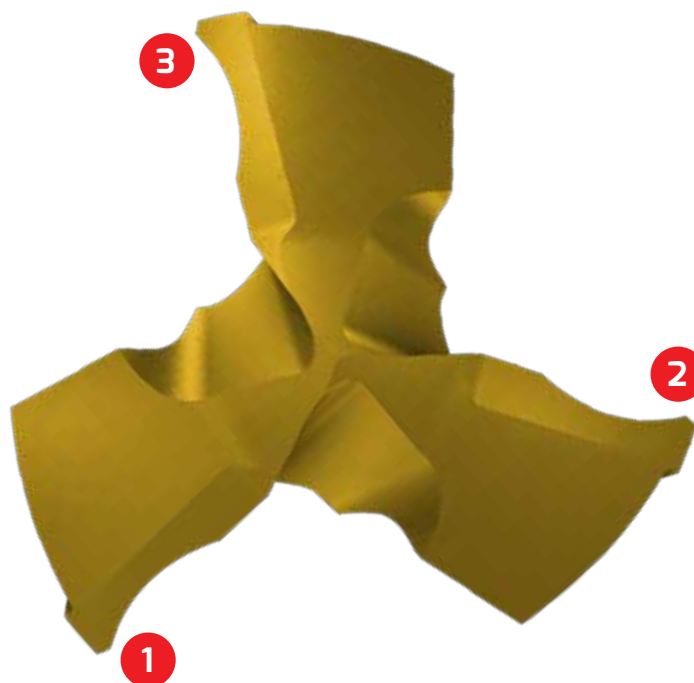


Designation	DCN <sup>(1)</sup>	DCX <sup>(2)</sup>	DCONMS	DF	LU	LPR	PL	OAL	SSC <sup>(3)</sup>	
D3N 120-096-16A-8D	12.00	12.40	16.00	20.00	102.90	120.90	2.710	168.90	12	K D3N 12-13.99
D3N 125-100-16A-8D	12.50	12.90	16.00	20.00	106.90	125.70	2.710	173.70	12	K D3N 12-13.99
D3N 130-104-16A-8D	13.00	13.40	16.00	20.00	111.60	131.10	2.910	179.10	13	K D3N 12-13.99
D3N 135-108-16A-8D	13.50	13.90	16.00	20.00	115.60	135.80	2.910	183.80	13	K D3N 12-13.99
D3N 140-112-16A-8D	14.00	14.40	16.00	20.00	120.10	141.10	3.100	189.10	14	K D3N 14-15.99
D3N 145-116-16A-8D	14.50	14.90	16.00	20.00	124.10	145.80	3.100	193.80	14	K D3N 14-15.99
D3N 150-120-20A-8D	15.00	15.90	20.00	25.00	128.70	151.20	3.470	201.20	15	K D3N 14-15.99
D3N 160-128-20A-8D	16.00	16.90	20.00	25.00	137.30	161.30	3.440	211.30	16	K D3N 16-17.99
D3N 170-136-20A-8D	17.00	17.90	20.00	25.00	145.70	171.30	3.520	221.30	17	K D3N 16-17.99
D3N 180-144-25A-8D	18.00	18.90	25.00	32.00	154.40	181.40	3.900	237.40	18	K D3N 18-19.99
D3N 190-152-25A-8D	19.00	19.90	25.00	32.00	162.90	191.40	4.100	247.40	19	K D3N 18-19.99
D3N 200-160-25A-8D	20.00	20.90	25.00	32.00	171.20	201.20	4.320	257.20	20	K D3N 20-21.99
D3N 210-168-25A-8D	21.00	21.90	25.00	32.00	179.80	211.30	4.550	267.30	21	K D3N 20-21.99
D3N 220-176-25A-8D	22.00	22.90	25.00	32.00	188.60	221.60	4.690	277.60	22	K D3N 22-23.99
D3N 230-184-32A-8D	23.00	23.90	32.00	42.00	197.00	231.50	4.910	291.50	23	K D3N 22-23.99
D3N 240-192-32A-8D	24.00	24.90	32.00	42.00	205.50	241.50	5.210	301.50	24	K D3N 24-25.99
D3N 250-200-32A-8D	25.00	25.90	32.00	42.00	214.20	251.70	5.120	311.70	25	K D3N 24-25.99

<sup>(1)</sup> Cutting diameter minimum

<sup>(2)</sup> Cutting diameter maximum

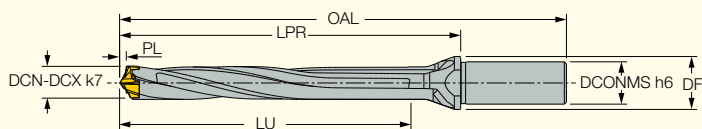
<sup>(3)</sup> Seat size code





**D3N R-8D**

Exchangeable Head 3 Flute Drills  
with Coolant Holes and Round  
Shank. Drilling Depth 8xD



Designation	DCN <sup>(1)</sup>	DCX <sup>(2)</sup>	DCONMS	DF	LU	LPR	PL	OAL	SSC <sup>(3)</sup>	
D3N 120-096-16R-8D	12.00	12.40	16.00	20.00	102.90	120.90	2.710	168.90	12	K D3N 12-13.99
D3N 125-100-16R-8D	12.50	12.90	16.00	20.00	106.90	125.70	2.710	173.70	12	K D3N 12-13.99
D3N 130-104-16R-8D	13.00	13.40	16.00	20.00	111.60	131.10	2.910	179.10	13	K D3N 12-13.99
D3N 135-108-16R-8D	13.50	13.90	16.00	20.00	115.60	135.80	2.910	183.80	13	K D3N 12-13.99
D3N 140-112-16R-8D	14.00	14.40	16.00	20.00	120.10	141.10	3.100	189.10	14	K D3N 14-15.99
D3N 145-116-16R-8D	14.50	14.90	16.00	20.00	124.10	145.80	3.100	193.80	14	K D3N 14-15.99
D3N 150-120-20R-8D	15.00	15.90	20.00	25.00	128.70	151.20	3.470	201.20	15	K D3N 14-15.99
D3N 160-128-20R-8D	16.00	16.90	20.00	25.00	137.30	161.30	3.440	211.30	16	K D3N 16-17.99
D3N 170-136-20R-8D	17.00	17.90	20.00	25.00	145.70	171.20	3.520	221.20	17	K D3N 16-17.99
D3N 180-144-25R-8D	18.00	18.90	25.00	32.00	154.40	181.40	3.900	237.40	18	K D3N 18-19.99
D3N 190-152-25R-8D	19.00	19.90	25.00	32.00	162.90	191.40	4.100	247.40	19	K D3N 18-19.99
D3N 200-160-25R-8D	20.00	20.90	25.00	32.00	171.20	201.20	4.320	257.20	20	K D3N 20-21.99
D3N 210-168-25R-8D	21.00	21.90	25.00	32.00	179.80	211.30	4.550	267.30	21	K D3N 20-21.99
D3N 220-176-25R-8D	22.00	22.90	25.00	32.00	188.60	221.60	4.690	277.60	22	K D3N 22-23.99
D3N 230-184-32R-8D	23.00	23.90	32.00	42.00	197.00	231.50	4.910	291.50	23	K D3N 22-23.99
D3N 240-192-32R-8D	24.00	24.90	32.00	42.00	205.50	241.50	5.210	301.50	24	K D3N 24-25.99
D3N 250-200-32R-8D	25.00	25.90	32.00	42.00	214.20	251.70	5.120	311.70	25	K D3N 24-25.99

<sup>(1)</sup> Cutting diameter minimum

<sup>(2)</sup> Cutting diameter maximum

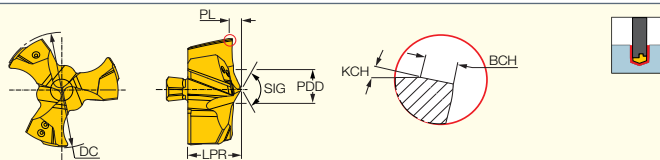
<sup>(3)</sup> Seat size code



**Self-Centering** for  
High Surface Quality

**F3P**

Exchangeable Flat 3 Flute Drilling Heads for Carbon and Alloy Steel (ISO P) and Cast Iron (ISO K)



Designation	Dimensions								IC908
	DC	LPR <sup>(1)</sup>	PL	PDD	SIG	BCH	KCH	SSC <sup>(2)</sup>	
F3P 120-IQ	12.00	4.90	0.790	2.96	133	0.40	15.0	12	●
F3P 125-IQ	12.50	4.90	0.790	2.96	133	0.40	15.0	12	●
F3P 130-IQ	13.00	5.39	0.990	3.52	130	0.40	15.0	13	●
F3P 135-IQ	13.50	5.39	0.990	3.52	130	0.40	15.0	13	●
F3P 140-IQ	14.00	6.42	1.110	4.16	124	0.40	15.0	14	●
F3P 145-IQ	14.50	6.42	1.110	4.16	124	0.40	15.0	14	●
F3P 150-IQ	15.00	6.72	1.190	3.81	121	0.40	15.0	15	●
F3P 155-IQ	15.50	6.72	1.190	3.81	121	0.40	15.0	15	●
F3P 160-IQ	16.00	7.03	1.090	3.95	121	0.40	15.0	16	●
F3P 165-IQ	16.50	7.03	1.090	3.95	121	0.40	15.0	16	●
F3P 170-IQ	17.00	7.70	1.160	4.09	121	0.40	15.0	17	●
F3P 175-IQ	17.50	7.70	1.160	4.09	121	0.40	15.0	17	●
F3P 180-IQ	18.00	8.02	1.230	5.86	131	0.40	15.0	18	●
F3P 185-IQ	18.50	8.02	1.230	5.86	131	0.40	15.0	18	●
F3P 190-IQ	19.00	8.09	1.270	6.19	131	0.40	15.0	19	●
F3P 195-IQ	19.50	8.09	1.270	6.19	131	0.40	15.0	19	●
F3P 200-IQ	20.00	8.59	1.340	6.54	132	0.40	15.0	20	●
F3P 205-IQ	20.50	8.59	1.340	6.54	132	0.40	15.0	20	●
F3P 210-IQ	21.00	9.02	1.410	6.92	132	0.40	15.0	21	●
F3P 215-IQ	21.50	9.02	1.410	6.92	132	0.40	15.0	21	●
F3P 220-IQ	22.00	9.97	1.680	7.19	132	0.40	15.0	22	●
F3P 225-IQ	22.50	9.97	1.680	7.19	132	0.40	15.0	22	●
F3P 230-IQ	23.00	10.17	1.750	7.66	132	0.40	15.0	23	●
F3P 235-IQ	23.50	10.17	1.750	7.66	132	0.40	15.0	23	●
F3P 240-IQ	24.00	10.59	1.820	7.79	132	0.40	15.0	24	●
F3P 245-IQ	24.50	10.59	1.820	7.79	132	0.40	15.0	24	●
F3P 250-IQ	25.00	10.81	1.660	8.09	131	0.40	15.0	25	●
F3P 255-IQ	25.50	10.81	1.660	8.09	131	0.40	15.0	25	●

<sup>(1)</sup> LPR tolerance  $\pm 0.05$  mm

<sup>(2)</sup> Seat size code


**Flat Heads for  
Flat Bottom Holes**



VIDEO

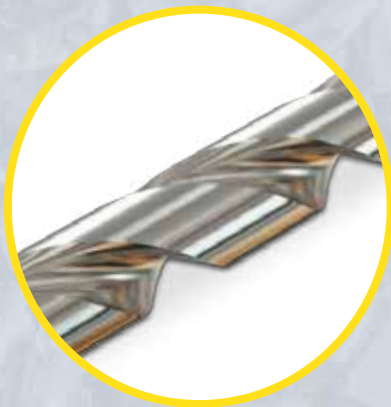


**SOLIDDRILL**  
SOLID CARBIDE

# Extra Long Deep Drilling

**Extra Long 30, 40, 50xD**

Solid Drills Designed to  
Function Under Tough Deep  
Drilling Conditions.



Polished Flute Specially  
Treated Surface for  
**Good Chip Evacuation**

**Extra  
Long**

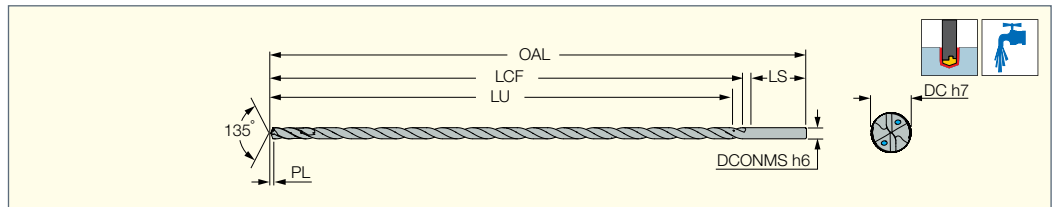


Spiral Channels with  
Internal Coolant for  
**Efficient Lubrication**



**SCD-SXC30**

Solid Carbide Drills with  
Internal Coolant Channels.  
Drilling Depth 30xD



Designation	Dimensions								IC908
	DC	DCONMS	OAL	LU	LCF	LS	PL	ULDR <sup>(2)</sup>	
SCD 030-097-060 SXC30	3.00	6.00	150.00	97.00	105.0	40.0	0.495	30.0	●
SCD 032-097-060 SXC30	3.20	6.00	150.00	97.00	105.0	40.0	0.528	30.0	●
SCD 033-127-060 SXC30	3.30	6.00	185.00	127.00	135.0	45.0	0.544	30.0	●
SCD 035-127-060 SXC30	3.50	6.00	185.00	127.00	135.0	45.0	0.578	30.0	●
SCD 038-127-060 SXC30 <sup>(1)</sup>	3.80	6.00	185.00	127.00	135.0	45.0	0.627	30.0	●
SCD 040-127-060 SXC30	4.00	6.00	185.00	127.00	135.0	45.0	0.660	30.0	●
SCD 042-127-060 SXC30	4.20	6.00	185.00	127.00	135.0	45.0	0.693	30.0	●
SCD 045-157-060 SXC30	4.50	6.00	215.00	157.00	165.0	45.0	0.743	30.0	●
SCD 047-157-060 SXC30 <sup>(1)</sup>	4.70	6.00	215.00	157.00	165.0	45.0	0.775	30.0	●
SCD 048-157-060 SXC30	4.80	6.00	215.00	157.00	165.0	45.0	0.792	30.0	●
SCD 050-157-060 SXC30	5.00	6.00	215.00	157.00	165.0	45.0	0.825	30.0	●
SCD 055-172-060 SXC30	5.50	6.00	230.00	172.00	180.0	45.0	0.907	30.0	●
SCD 058-172-060 SXC30 <sup>(1)</sup>	5.80	6.00	230.00	172.00	180.0	45.0	0.957	30.0	●
SCD 060-172-060 SXC30	6.00	6.00	230.00	172.00	180.0	45.0	0.990	30.0	●
SCD 065-207-080 SXC30	6.50	8.00	280.00	207.00	215.0	60.0	1.072	30.0	●
SCD 068-222-080 SXC30	6.80	8.00	280.00	222.00	230.0	45.0	1.122	30.0	●
SCD 070-222-080 SXC30	7.00	8.00	280.00	222.00	230.0	45.0	1.155	30.0	●
SCD 075-222-080 SXC30 <sup>(1)</sup>	7.50	8.00	280.00	222.00	230.0	45.0	1.238	30.0	●
SCD 078-257-080 SXC30 <sup>(1)</sup>	7.80	8.00	315.00	257.00	265.0	45.0	1.287	30.0	●
SCD 080-257-080 SXC30	8.00	8.00	315.00	257.00	265.0	45.0	1.320	30.0	●
SCD 085-287-100 SXC30	8.50	10.00	350.00	287.00	295.0	50.0	1.402	30.0	●
SCD 088-322-100 SXC30 <sup>(1)</sup>	8.80	10.00	380.00	322.00	330.0	45.0	1.452	30.0	●
SCD 090-322-100 SXC30	9.00	10.00	380.00	322.00	330.0	45.0	1.485	30.0	●
SCD 098-322-100 SXC30	9.80	10.00	380.00	322.00	330.0	45.0	1.617	30.0	●
SCD 100-322-100 SXC30	10.00	10.00	380.00	322.00	330.0	45.0	1.650	30.0	●

<sup>(1)</sup> On request

<sup>(2)</sup> Usable length diameter ratio

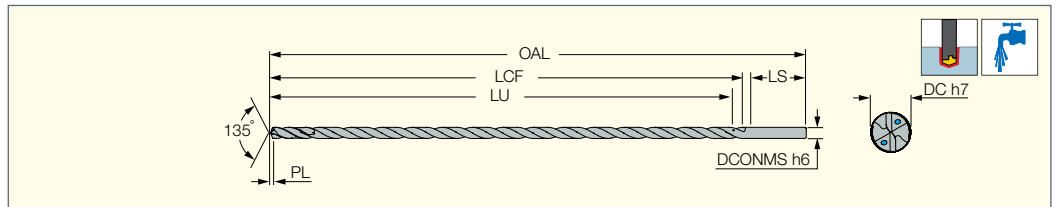


**Spiral Channels with  
Internal Coolant for  
Efficient Lubrication**



**SOLIDDRILL****SCD-SXC40**

Solid Carbide Drills with  
Internal Coolant Channels.  
Drilling Depth 40xD



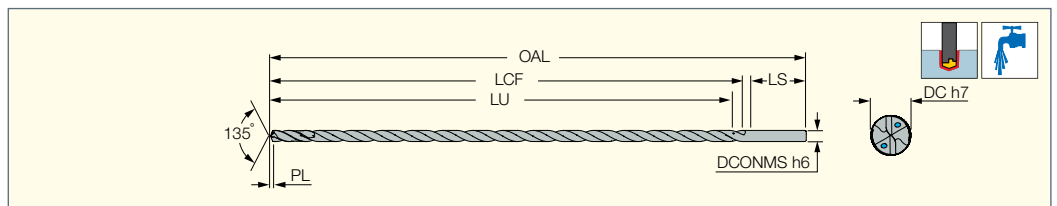
Designation	Dimensions								IC908
	DC	DCONMS	OAL	LU	LCF	LS	PL	ULDR <sup>(2)</sup>	
<b>SCD 030-132-060 SXC40</b>	3.00	6.00	190.00	132.00	140.0	45.0	0.495	40.0	●
<b>SCD 038-172-060 SXC40 <sup>(1)</sup></b>	3.80	6.00	230.00	172.00	180.0	45.0	0.627	40.0	●
<b>SCD 040-172-060 SXC40</b>	4.00	6.00	230.00	172.00	180.0	45.0	0.660	40.0	●
<b>SCD 042-172-060 SXC40</b>	4.20	6.00	230.00	172.00	180.0	45.0	0.693	40.0	●
<b>SCD 045-212-060 SXC40</b>	4.50	6.00	270.00	212.00	220.0	45.0	0.743	40.0	●
<b>SCD 047-212-060 SXC40 <sup>(1)</sup></b>	4.70	6.00	270.00	212.00	220.0	45.0	0.775	40.0	●
<b>SCD 048-212-060 SXC40</b>	4.80	6.00	270.00	212.00	220.0	45.0	0.792	40.0	●
<b>SCD 050-212-060 SXC40</b>	5.00	6.00	270.00	212.00	220.0	45.0	0.825	40.0	●
<b>SCD 055-232-060 SXC40</b>	5.50	6.00	290.00	232.00	240.0	45.0	0.907	40.0	●
<b>SCD 058-232-060 SXC40 <sup>(1)</sup></b>	5.80	6.00	290.00	232.00	240.0	45.0	0.957	40.0	●
<b>SCD 060-232-060 SXC40</b>	6.00	6.00	290.00	232.00	240.0	45.0	0.990	40.0	●
<b>SCD 065-282-080 SXC40</b>	6.50	8.00	340.00	282.00	290.0	45.0	1.072	40.0	●
<b>SCD 068-312-080 SXC40</b>	6.80	8.00	370.00	312.00	320.0	45.0	1.122	40.0	●
<b>SCD 070-312-080 SXC40</b>	7.00	8.00	370.00	312.00	320.0	45.0	1.155	40.0	●
<b>SCD 075-312-080 SXC40 <sup>(1)</sup></b>	7.50	8.00	370.00	312.00	320.0	45.0	1.238	40.0	●
<b>SCD 078-342-080 SXC40 <sup>(1)</sup></b>	7.80	8.00	400.00	342.00	350.0	45.0	1.287	40.0	●
<b>SCD 080-342-080 SXC40</b>	8.00	8.00	400.00	342.00	350.0	45.0	1.320	40.0	●

<sup>(1)</sup> On request

<sup>(2)</sup> Usable length diameter ratio

**SOLIDDRILL****SCD-SXC50**

Solid Carbide Drills with  
Internal Coolant Channels.  
Drilling Depth 50xD



Designation	Dimensions								IC908
	DC	DCONMS	OAL	LU	LCF	LS	PL	ULDR <sup>(2)</sup>	
<b>SCD 040-217-060 SXC50</b>	4.00	6.00	270.00	217.00	225.0	40.0	0.660	50.0	●
<b>SCD 042-217-060 SXC50</b>	4.20	6.00	270.00	217.00	225.0	40.0	0.693	50.0	●
<b>SCD 045-267-060 SXC50</b>	4.50	6.00	320.00	267.00	275.0	40.0	0.743	50.0	●
<b>SCD 047-267-060 SXC50 <sup>(1)</sup></b>	4.70	6.00	320.00	267.00	275.0	40.0	0.775	50.0	●
<b>SCD 048-267-060 SXC50</b>	4.80	6.00	320.00	267.00	275.0	40.0	0.792	50.0	●
<b>SCD 050-267-060 SXC50</b>	5.00	6.00	320.00	267.00	275.0	40.0	0.825	50.0	●
<b>SCD 055-302-060 SXC50</b>	5.50	6.00	360.00	302.00	310.0	45.0	0.907	50.0	●
<b>SCD 058-302-060 SXC50 <sup>(1)</sup></b>	5.80	6.00	360.00	302.00	310.0	45.0	0.957	50.0	●
<b>SCD 060-302-060 SXC50</b>	6.00	6.00	360.00	302.00	310.0	45.0	0.990	50.0	●

<sup>(1)</sup> On request

<sup>(2)</sup> Usable length diameter ratio

# NEOLOGIQ MILL

MACHINING INTELLIGENTLY

## AMAZING PRODUCTIVITY



**NEODO**  
S90° LINE



**LOGIQ4FEED**  
HIGH FEED MILLING



**HELISLOT**  
HELICAL SLOTTING LINE





VIDEO



**NEODO**  
S90° LINE

# Exact 90° Shouldering

A New Milling Line for Square Shoulder and Face Milling. **A Unique Exact 90° Profile with 8 Cutting Edges** in Combination with a **Dovetail Clamping Method** Enables Higher Cutting Conditions and Assures Better Productivity.

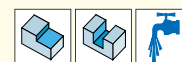
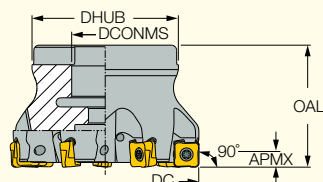


High  
Productivity  
and Cost  
Effectiveness





**S890 FSZ-R08**




 Face Mills Carrying Square  
 Double-Sided Inserts  
 with 8 Cutting Edges


Designation	DC	APMX	OAL	CICT <sup>(1)</sup>	DCONMS	DHUB	Arbor	MIID <sup>(2)</sup>	kg
S890 FSZ D040-05-16-R08	40.00	5.00	35.00	5	16.00	38.00	A	S890 SZMU 0804...	0.24
S890 FSZ D040-06-16-R08	40.00	5.00	35.00	6	16.00	38.00	A	S890 SZMU 0804...	0.34
S890 FSZ D050-06-22-R08	50.00	5.00	40.00	6	22.00	48.00	A	S890 SZMU 0804...	0.35
S890 FSZ D050-08-22-R08	50.00	5.00	40.00	8	22.00	48.00	A	S890 SZMU 0804...	0.39
S890 FSZ D063-07-22-R08	63.00	5.00	40.00	7	22.00	48.00	A	S890 SZMU 0804...	0.60
S890 FSZ D063-10-22-R08	63.00	5.00	40.00	10	22.00	48.00	A	S890 SZMU 0804...	0.58
S890 FSZ D080-08-27-R08	80.00	5.00	50.00	8	27.00	60.00	B	S890 SZMU 0804...	0.98
S890 FSZ D080-12-27-R08	80.00	5.00	50.00	12	27.00	60.00	B	S890 SZMU 0804...	0.93
S890 FSZ D100-10-32-R08	100.00	5.00	50.00	10	32.00	78.00	B	S890 SZMU 0804...	1.52
S890 FSZ D100-14-32-R08	100.00	5.00	50.00	14	32.00	78.00	B	S890 SZMU 0804...	1.50
S890 FSZ D125-12-40-R08	125.00	5.00	50.00	12	40.00	92.00	B	S890 SZMU 0804...	2.29
S890 FSZ D125-18-40-R08	125.00	5.00	50.00	18	40.00	92.00	B	S890 SZMU 0804...	2.32

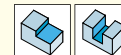
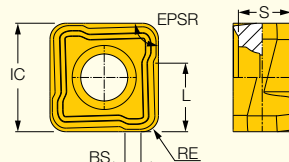
<sup>(1)</sup> Number of inserts

<sup>(2)</sup> Master insert identification

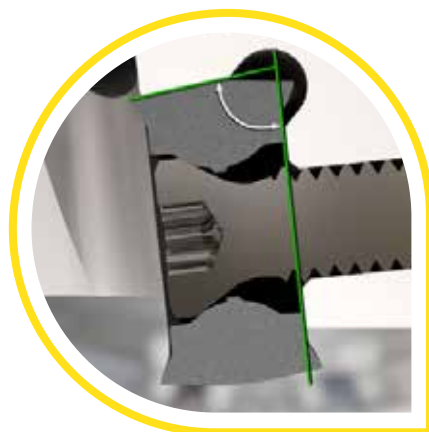
**Spare Parts**

Designation			
S890 FSZ D040-05-16-R08	SR M3X0.5-L7.4 IP9	IP-9/151	SR M8X25DIN912
S890 FSZ D040-06-16-R08	SR M3X0.5-L7.4 IP9	IP-9/151	SR M8X25DIN912
S890 FSZ D050-06-22-R08	SR M3X0.5-L7.4 IP9	IP-9/151	SR M10X25 DIN912
S890 FSZ D050-08-22-R08	SR M3X0.5-L7.4 IP9	IP-9/151	SR M10X25 DIN912
S890 FSZ D063-07-22-R08	SR M3X0.5-L7.4 IP9	IP-9/151	SR M10X25 DIN912
S890 FSZ D063-10-22-R08	SR M3X0.5-L7.4 IP9	IP-9/151	SR M10X25 DIN912
S890 FSZ D080-08-27-R08	SR M3X0.5-L7.4 IP9	IP-9/151	
S890 FSZ D080-12-27-R08	SR M3X0.5-L7.4 IP9	IP-9/151	
S890 FSZ D100-10-32-R08	SR M3X0.5-L7.4 IP9	IP-9/151	
S890 FSZ D100-14-32-R08	SR M3X0.5-L7.4 IP9	IP-9/151	
S890 FSZ D125-12-40-R08	SR M3X0.5-L7.4 IP9	IP-9/151	
S890 FSZ D125-18-40-R08	SR M3X0.5-L7.4 IP9	IP-9/151	


**S890 SZMU-0804PN**

 Square Double-Sided Inserts  
 with 8 Cutting Edges


Designation	Dimensions						Tough ↔ Hard					Recommended Machining Data
	IC	S	L	BS	RE	EPSR	IC845	IC5400	IC808	IC810	IC5100	
S890 SZMU 080412PNTR	8.20	4.00	5.20	1.20	1.20	88.4	•	•	•	•	•	0.12-0.25
S890 SZMU 080412PNRMM	8.20	4.00	5.20	1.20	1.20	88.4	•	•	•	•	•	0.08-0.25



**Dovetail Insert Pocket Locks**  
 the Insert Firmly in Place



# LOGIQ 4 FEED

HIGH FEED MILLING

## High Feed Milling

Unique Twisted High Positive  
**4 Cutting Edged** Insert. A Range of  
Tools from 12 mm Endmills up to  
125 mm Facemills. This New Line of  
Tools Enables Machining at Very  
High Feeds for **High Productivity**.

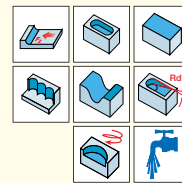
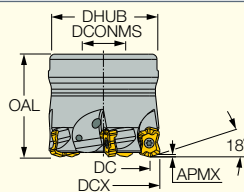



**FFX4 XNMU 04**  
Dia. Tool Range: 12 - 32 mm  
for Endmills

**FFX4 XNMU 08**  
Dia. Tool Range: 50 - 125 mm  
for Facemills

**FFX4 FD**

Face Mills Carrying "Bone Shape" Inserts with 4 Cutting Edges for Fast Feed Milling



Designation	DCX <sup>(1)</sup>	DC	CICT <sup>(2)</sup>	APMX	AE <sup>(3)</sup>	OAL	DCONMS	DHUB	RMPX <sup>(4)</sup>	MDN <sup>(5)</sup>	MDX <sup>(6)</sup>	Arbor	Rg <sup>(7)</sup>	MIID <sup>(8)</sup>	
<b>FFX4 FD050-4-22-08</b>	50.00	34.40	4	2.00	7.8	50.00	22.00	48.00	3.3	84.40	99.00	A	4.00	FFX4 XNMU 080620	0.58
<b>FFX4 FD063-5-22-08</b>	63.00	47.40	5	2.00	7.8	45.00	22.00	48.00	2.3	110.40	125.00	A	4.00	FFX4 XNMU 080620T	0.48
<b>FFX4 FD080-7-27-08</b>	80.00	64.40	7	2.00	7.8	50.00	27.00	60.00	1.6	144.40	159.00	B	4.00	FFX4 XNMU 080620T	0.95
<b>FFX4 FD100-8-32-08</b>	100.00	84.40	8	2.00	7.8	50.00	32.00	78.00	1.2	184.40	199.00	B	4.00	FFX4 XNMU 080620T	1.24
<b>FFX4 FD125-10-40-08</b>	125.00	109.40	10	2.00	7.8	63.00	40.00	92.00	0.9	234.40	249.00	B	4.00	FFX4 XNMU 080620T	2.40

• To generate a straight surface without cusps, the width of cut must not exceed DC

(1) Cutting diameter maximum

(2) Number of inserts

(3) Maximum plunging width

(4) Maximum ramping angle






(5) Machinable diameter minimum for interpolation

(6) Machinable diameter maximum for interpolation

(7) Radius for programming

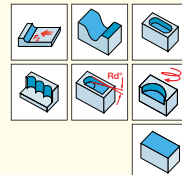
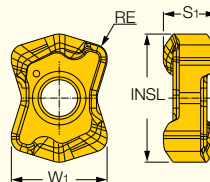
(8) Master insert identification

**Spare Parts**

Designation					
<b>FFX4 FD050-4-22-08</b>	SR M5-14 IP20		SW6-T	BLD IP20/S7	SR PS 118-0273
<b>FFX4 FD063-5-22-08</b>	SR M5-14 IP20		SW6-T	BLD IP20/S7	SR M10X25 DIN912
<b>FFX4 FD080-7-27-08</b>	SR M5-14 IP20		SW6-T	BLD IP20/S7	SR M12X30DIN912
<b>FFX4 FD100-8-32-08</b>	SR M5-14 IP20		SW6-T	BLD IP20/S7	
<b>FFX4 FD125-10-40-08</b>	SR M5-14 IP20		SW6-T	BLD IP20/S7	

**FFX4 XNMU**

"Bone Shape" Inserts with 4 Cutting Edges for Fast Feed Milling



Designation	Dimensions				Tough ↔ Hard			Recommended Machining Data	
	INSL	S1	RE	W1	IC830	IC808	IC810	a <sub>p</sub> (mm)	f <sub>z</sub> (mm/t)
<b>FFX4 XNMU 080620T</b>	17.90	7.80	2.00	15.60	●	●	●	0.20-2.00	0.20-1.20

• For side plunging, the initial cutting feed is 0.1 mm/t • T- for steel, ferritic and martensitic stainless steel, cast iron and hardened steel





# HELISLOT

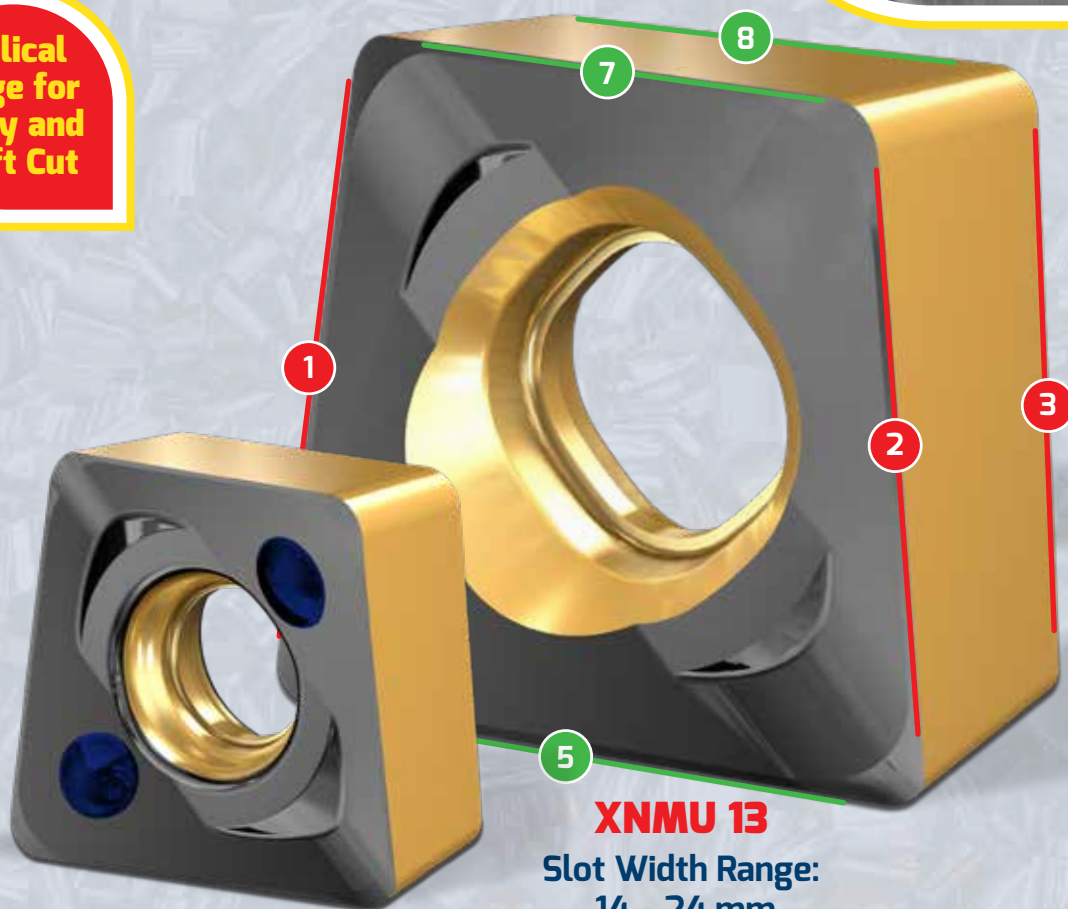
HELICAL SLOTTING LINE

## Efficient Slot Milling

**Unique Twisted High Positive Double-Sided** Insert with **4 Right -** and **4 Left** Hand Cutting Edges. Slotting Width Range of 10–24 mm.



Helical  
Edge for  
Easy and  
Soft Cut



### XNMU 09

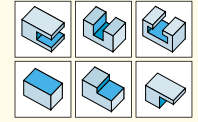
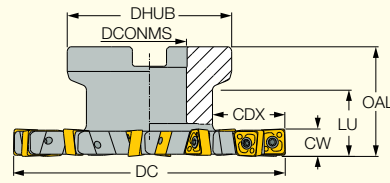
Slot Width Range:  
10 – 14 mm  
Dia. Tool Range: 32-160 mm

### XNMU 13

Slot Width Range:  
14 – 24 mm  
Dia. Tool Range: 40-200 mm

**FDN-XN09**

Full Slot Flange Type Slotting  
Cutters Carrying XNMU 0904  
Square Inserts with 4 Right- and  
4 Left-Hand Cutting Edges





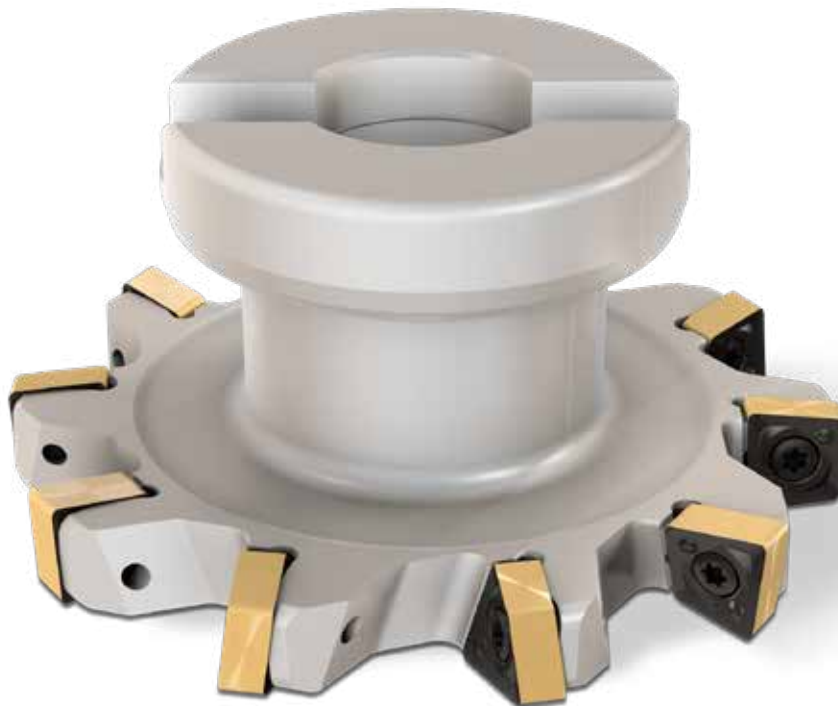
Designation	DC	CW	CIC <sup>(1)</sup>	ZEFP	CDX <sup>(2)</sup>	DHUB	DCONMS	LU	OAL	Arbor	kg
<b>FDN D080-10-22-XN09</b>	80.00	10.00	10	10	22.50	48.00	22.00	27.0	40.00	A	0.40
<b>FDN D080-12-22-XN09</b>	80.00	12.00	10	5	22.50	48.00	22.00	27.0	40.00	A	0.43
<b>FDN D100-10-27-XN09</b>	100.00	10.00	12	12	26.00	60.00	27.00	25.0	40.00	B	0.64
<b>FDN D100-12-27-XN09</b>	100.00	12.00	12	6	26.00	60.00	27.00	25.0	40.00	B	0.92
<b>FDN D125-10-32-XN09</b>	125.00	10.00	14	14	33.00	65.00	32.00	31.0	45.00	B	1.19
<b>FDN D125-12-32-XN09</b>	125.00	12.00	14	7	33.00	65.00	32.00	31.0	45.00	B	1.08
<b>FDN D160-10-40-XN09</b>	160.00	10.00	18	18	45.00	80.00	40.00	35.0	50.00	B	1.45
<b>FDN D160-12-40-XN09</b>	160.00	12.00	18	9	45.00	80.00	40.00	35.0	50.00	B	1.78

<sup>(1)</sup> Number of inserts

<sup>(2)</sup> Cutting depth maximum

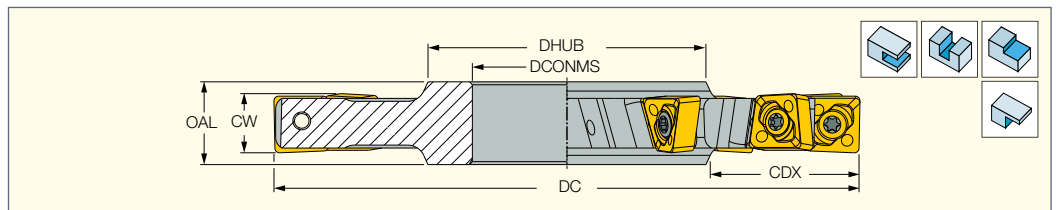
**Spare Parts**

Designation		
<b>FDN-XN09</b>	SR 10508600	T-9/51



**SDN-XN09**



Full Slot Disk Type Slotting  
Cutters Carrying XNMU 0904  
Square Inserts with 4 Right- and  
4 Left-Hand Cutting Edges



Designation	DC	CW	CICT <sup>(1)</sup>	ZEFP	CDX	DHUB	DCONMS	OAL	kg
SDN D080-10-27-XN09	80.00	10.00	10	10	20.00	38.00	27.00	14.00	0.20
SDN D080-12-27-XN09	80.00	12.00	10	5	20.00	38.00	27.00	16.00	0.24
SDN D100-10-32-XN09	100.00	10.00	12	12	25.00	47.00	32.00	14.00	0.34
SDN D100-12-32-XN09	100.00	12.00	12	6	25.00	47.00	32.00	16.00	0.42
SDN D125-10-40-XN09	125.00	10.00	14	14	34.00	55.00	40.00	14.00	0.61
SDN D125-12-40-XN09	125.00	12.00	14	7	34.00	55.00	40.00	16.00	0.69
SDN D160-10-40-XN09	160.00	10.00	18	18	51.00	55.00	40.00	14.00	0.61
SDN D160-12-40-XN09	160.00	12.00	18	9	51.00	55.00	40.00	16.00	1.10

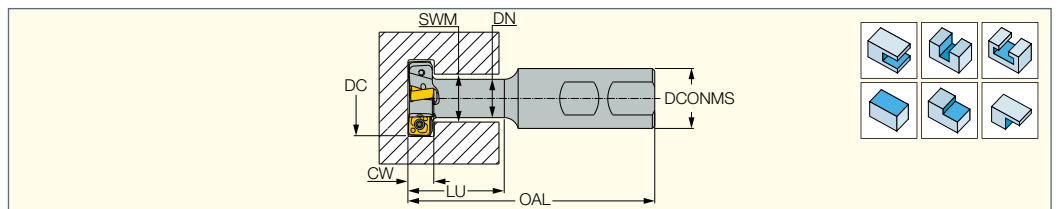
<sup>(1)</sup> Number of inserts

**Spare Parts**

Designation		
SDN-XN09	SR 10508600	T-9/51

**ETS-XN09**



T-SLOT Endmills Carrying  
XNMU 0904 Square Inserts  
with 4 Right- and 4 Left-  
Hand Cutting Edges



Designation	DC	CICT <sup>(1)</sup>	ZEFP	DN	SWM	CW	LU	OAL	DCONMS	Shank	kg
ETS D32-10-W16-XN09	31.70	4	2	15.50	18.00	9.90	35.00	85.00	16.00	W	0.16
ETS D32-11-W20-XN09	31.70	4	2	16.00	18.00	10.80	41.00	95.00	20.00	W	0.27
ETS D32-11-W25-XN09	31.70	4	2	16.00	18.00	10.80	41.00	105.00	25.00	W	0.27
ETS D32-14-W25-XN09	31.70	4	2	16.00	18.00	13.80	41.00	105.00	25.00	W	0.35
ETS D32-14-W32-XN09	31.70	4	2	16.00	18.00	13.80	45.00	110.00	32.00	W	0.35

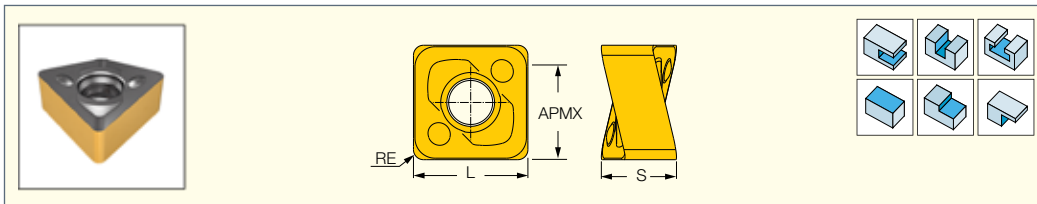
<sup>(1)</sup> Number of inserts

**Spare Parts**

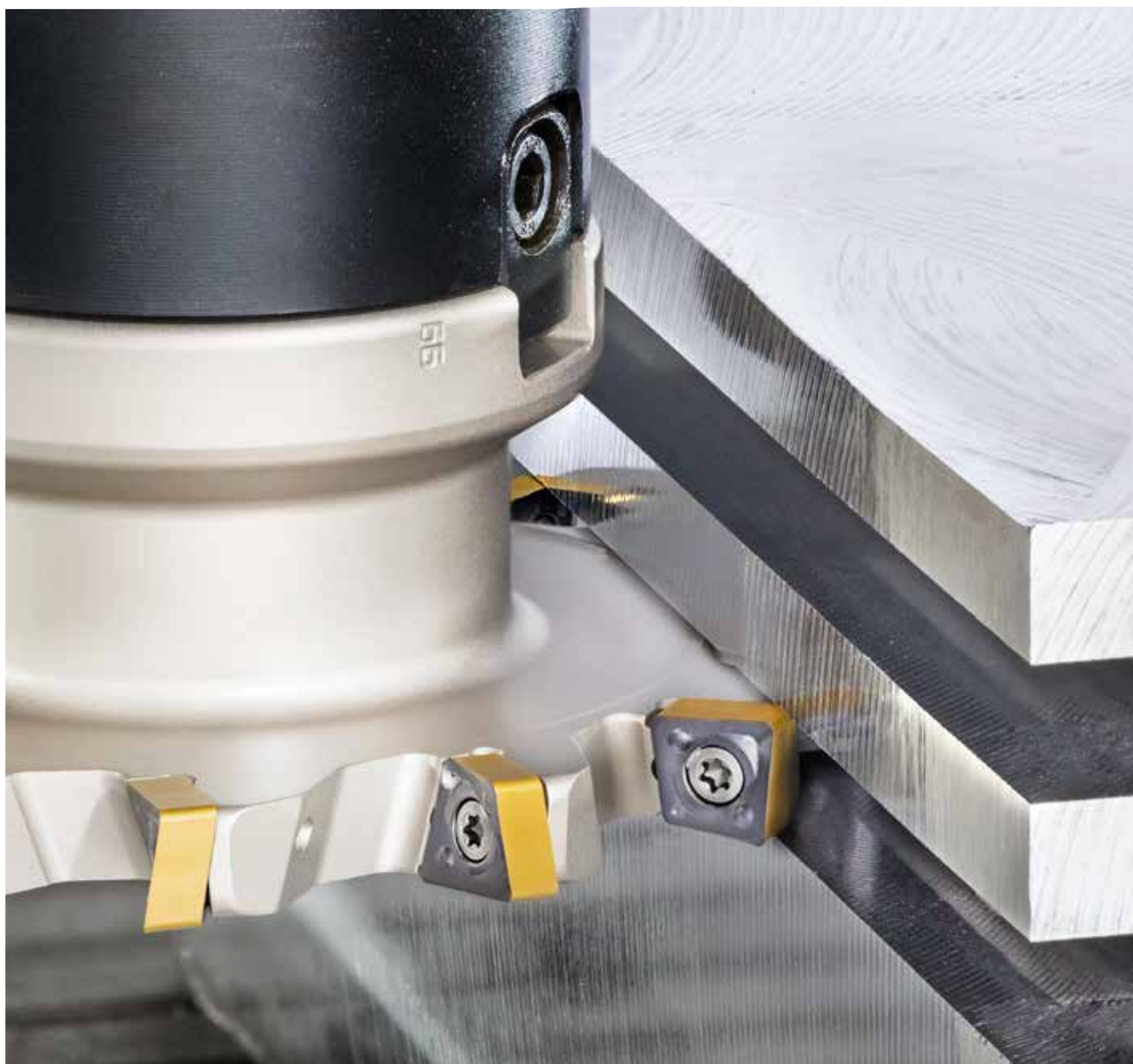
Designation		
ETS-XN09	SR 10508600	T-9/51





**HELISLOT****XNMU 0904PN**Square Inserts with 4 Right- and  
4 Left-Hand Cutting Edges

Designation	Dimensions				Tough ↔ Hard			Recommended Machining Data
	APMX	L	S	RE	IC830	IC5400	IC808	$f_z$ (mm/t)
XNMU 090408-PNTN	8.20	9.10	5.95	0.80	•	•	•	0.05-0.15





# **NEOFEED**

HIGH FEED LINE

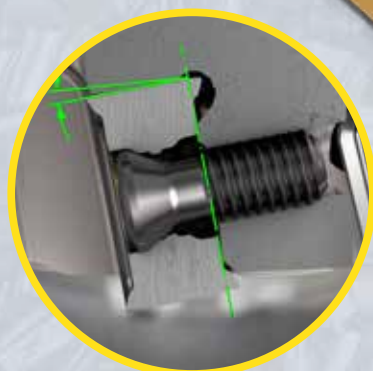
## High Feed & Moderate Milling

Unique Insert with  
**8 Cutting Edges** Performs at  
**Fast Feed and Moderate Rates**  
for Different Milling Applications.

Suits All  
Face Milling  
Needs



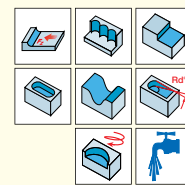
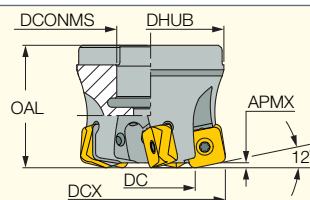
**FFQ8 SZMU 12**  
Dia. Range for Facemill  
50-100 mm




**Dovetail Clamping**  
Protects the Insert  
from Disengaging

**FFQ8-12**

Fast Feed Face Mills Carrying  
Double-Sided Inserts  
with 8 Cutting Edges



Designation	DC	DCX <sup>(1)</sup>	APMX	CICT <sup>(2)</sup>	OAL	DHUB	DCONMS	Arbor	RMPX <sup>(3)</sup>	MDN <sup>(4)</sup>	MDX <sup>(5)</sup>	MIID <sup>(6)</sup>	
<b>FFQ8 D050-05-22-12</b>	30.60	50.00	1.50	5	40.00	48.00	22.00	A	0.3	80.60	99.00	FFQ8 SZMU 120520	0.46
<b>FFQ8 D063-06-22-12</b>	43.60	63.00	1.50	6	40.00	48.00	22.00	A	0.2	106.60	125.00	FFQ8 SZMU 120520	0.94
<b>FFQ8 D080-07-27-12</b>	60.60	80.00	1.50	7	50.00	60.00	27.00	A	0.2	140.60	159.00	FFQ8 SZMU 120520	1.03
<b>FFQ8 D100-08-32-12</b>	80.60	100.00	1.50	8	50.00	78.00	32.00	B	0.1	180.60	199.00	FFQ8 SZMU 120520	3.03

- Radius for programming 2.0 mm
- To generate a straight surface without cusps, the width of cut must not exceed DC
- For slot milling or machining with high tool overhang, the maximum depth of cut should be reduced by 30%.

<sup>(1)</sup> Cutting diameter maximum

<sup>(2)</sup> Number of inserts





<sup>(3)</sup> Maximum ramping angle

<sup>(4)</sup> For interpolation

<sup>(5)</sup> For interpolation

<sup>(6)</sup> Master insert identification

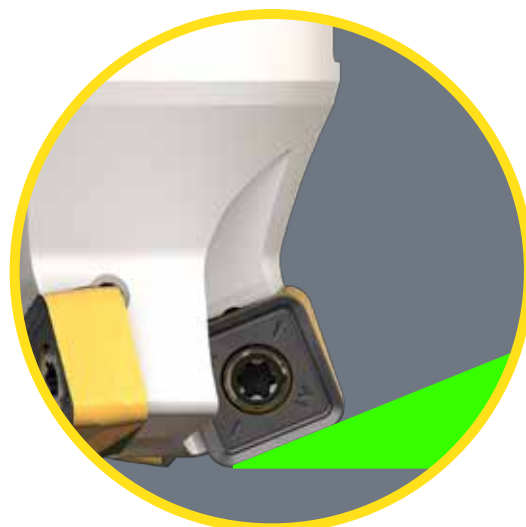
**Spare Parts**

Designation				
<b>FFQ8 D050-05-22-12</b>	SR M4X0.7-L11.5 IP15	BLD IP15/S7	SW6-T-SH	SR M10X25 DIN912
<b>FFQ8 D063-06-22-12</b>	SR M4X0.7-L11.5 IP15	BLD IP15/S7	SW6-T-SH	SR M10X25 DIN912
<b>FFQ8 D080-07-27-12</b>	SR M4X0.7-L11.5 IP15	BLD IP15/S7	SW6-T-SH	SR M12X30DIN912
<b>FFQ8 D100-08-32-12</b>	SR M4X0.7-L11.5 IP15	BLD IP15/M7	SW6-T-SH	

**FF**  
Fast Feed



**MF**  
Moderate Feed

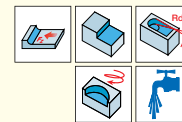
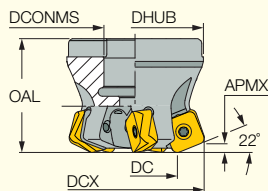


**One Insert for both  
Fast Feed and Moderate Feed Milling**



**MFQ8-12**

Fast Feed Face Mills Carrying  
Double-Sided Inserts  
with 8 Cutting Edges



Designation	DC	DCX <sup>(1)</sup>	APMX	CICT <sup>(2)</sup>	OAL	DHUB	DCONMS	Arbor	MIID <sup>(3)</sup>	kg
<b>MFQ8 D050-05-22-12</b>	31.60	50.00	3.00	5	40.00	48.00	22.00	A	FFQ8 SZMU 120520	0.01
<b>MFQ8 D063-06-22-12</b>	44.60	63.00	3.00	6	40.00	48.00	22.00	A	FFQ8 SZMU 120520	0.84
<b>MFQ8 D080-07-27-12</b>	61.60	80.00	3.00	7	50.00	60.00	27.00	A	FFQ8 SZMU 120520	1.03
<b>MFQ8 D100-08-32-12</b>	81.60	100.00	3.00	8	50.00	78.00	32.00	B	FFQ8 SZMU 120520	2.95





- Radius for programming 2.0 mm
- To generate a straight surface without cusps, the width of cut must not exceed DC
- For slot milling or machining with high tool overhang, the maximum depth of cut should be reduced by 30%.
- For slot milling or machining with high tool

<sup>(1)</sup> Cutting diameter maximum

<sup>(2)</sup> Number of inserts

<sup>(3)</sup> Master insert identification

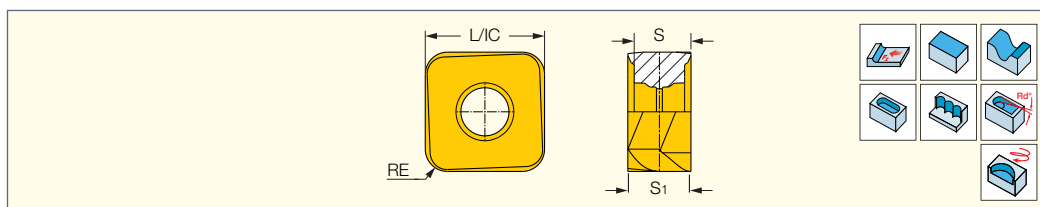
### Spare Parts

Designation				
<b>MFQ8 D050-05-22-12</b>	SR M4X0.7-L11.5 IP15	BLD IP15/S7	SW6-T-SH	SR M10X40-1638
<b>MFQ8 D063-06-22-12</b>	SR M4X0.7-L11.5 IP15	BLD IP15/S7	SW6-T-SH	SR M10X25 DIN912
<b>MFQ8 D080-07-27-12</b>	SR M4X0.7-L11.5 IP15	BLD IP15/S7	SW6-T-SH	SR M12X30DIN912
<b>MFQ8 D100-08-32-12</b>	SR M4X0.7-L11.5 IP15	BLD IP15/M7	SW6-T-SH	



# FFQ8 SZMU

Square Double-Sided  
Inserts with 8 Cutting Edges  
for Fast Feed Milling



Designation	Dimensions				Tough ↔ Hard				Recommended Machining Data
	L	S	RE	S1	IC882	IC830	IC808	IC810	$f_z$ (mm/t)
FFQ8 SZMU 120520HP	12.00	5.85	2.00	6.50	•	•	•		0.80-1.50
FFQ8 SZMU 120520T	12.00	5.85	2.00	6.50		•	•	•	0.80-1.50

• HP- for austenitic stainless steel and high temperature alloys • T- for steel, ferritic and martensitic stainless steel, cast iron and hardened steel



VIDEO



# **MULTI-MASTER**

INDEXABLE HEADS

## **Ø32 mm Cost Effective Indexable Milling Heads**

**40,000** Indexable Solid Carbide Endmill Options

**New 32 mm MULTI-MASTER Head**  
for Roughing, Semi-Finishing & Finishing  
with Ramp Down Capabilities for  
**Cost Savings and High Productivity.**

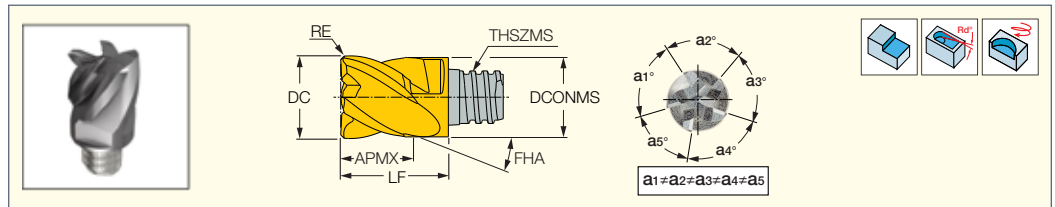
**NEW  
32 mm  
Head**





**MM ECK-CF**

5-Flute Heads with  
35°/38° Helix Featuring  
Different Corner Radii



Designation	Dimensions									IC908	Recommended Machining Data  f <sub>z</sub> (mm/t)
	DC	RE	NOF <sup>(1)</sup>	APMX	THSZMS	DCONMS	LF	RMPX <sup>(2)</sup>			
MM ECK320H38R4-5T21	32.00	4.00	5	38.00	T21	30.00	55.00	1.0	●	●	0.06-0.18
MM ECK320H38R5-5T21	32.00	5.00	5	38.00	T21	30.00	55.00	1.0	●	●	0.06-0.18

• Do not apply lubricant to the threaded connection.

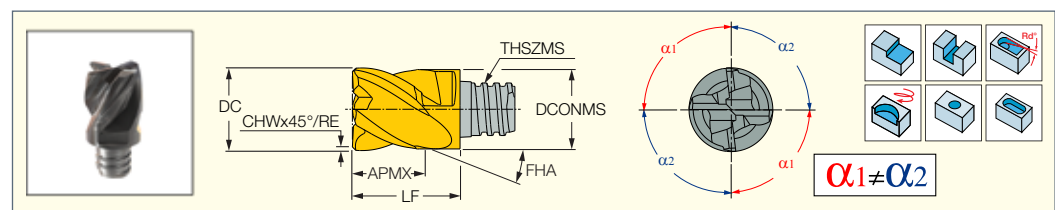
<sup>(1)</sup> Number of flutes

<sup>(2)</sup> Maximum ramping angle

**CHATTERFREE**  
MULTI-MASTER LINE

**MM EC-CF**

Interchangeable Solid  
Carbide Endmill Heads for  
Chatter Free Roughing and  
Finishing Operations



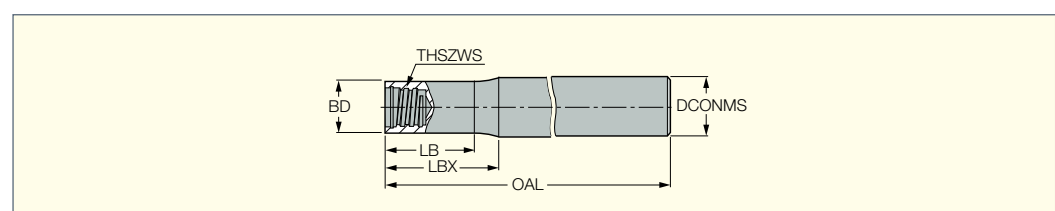
Designation	Dimensions										IC908	Recommended Machining Data  f <sub>z</sub> (mm/t)
	DC	RE	NOF <sup>(1)</sup>	APMX	THSZMS	DCONMS	LF	FHA	CHW			
MM EC320H38C06-4T21	32.00	-	4	38.00	T21	30.00	55.00	38.0	0.60	●	●	0.06-0.18

• Do not apply lubricant to the threaded connection.

<sup>(1)</sup> Number of flutes

**MM S-A (stepped shanks)**

Stepped Cylindrical Shanks for  
Interchangeable Milling Heads



Designation	THSZWS	DCONMS	BD	LB	LBX	OAL	Shank <sup>(1)</sup>	Shank m. <sup>(2)</sup>	RPMX <sup>(3)</sup>	Kg
MM S-A-L100/32-C32-T21	T21	32.00	30.00	32.00	35.3	100.00	C	S	12690	0.56
MM S-A-L130/60-C32-T21-C	T21	32.00	30.00	60.00	63.3	130.00	C	C	12690	1.22
MM S-A-L135/64-C32T21C	T21	32.00	30.00	64.00	67.5	135.00	C	C	12690	1.17
MM S-A-L150/50-C32-T21	T21	32.00	30.00	50.00	53.5	150.00	C	S	12690	0.86
MM S-A-L170/100-C32-T21-C	T21	32.00	30.00	100.00	103.5	170.00	C	C	12690	1.22
MM S-A-L250/150-C32-T21-C	T21	32.00	30.00	150.00	153.5	250.00	C	C	12690	2.50
MM S-A-L300/200-C32-T21-C	T21	32.00	30.00	200.00	203.5	300.00	C	C	12690	3.00

• Do not apply lubricant to the threaded connection.

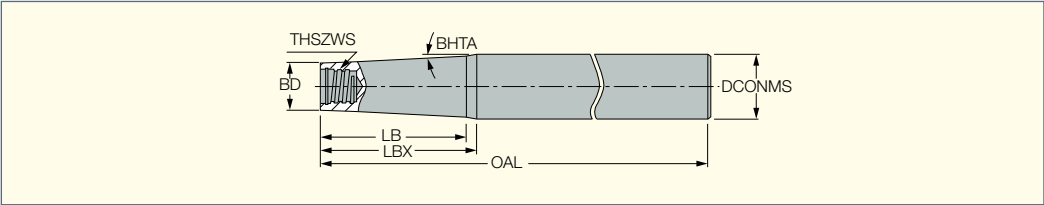
<sup>(1)</sup> C-Cylindrical


<sup>(2)</sup> S-steel, C-carbide

<sup>(3)</sup> The maximum RPM must be calculated. Divide the listed max. RPM by the number of flutes (on the milling head) being used.

**MULTI-MASTER**

**MM S-B (conical shanks)**  
85° Conical Shanks for  
Interchangeable Milling Heads

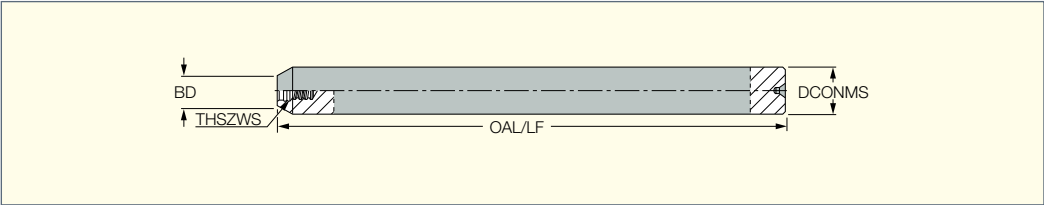



Designation	THSZWS	DCONMS	BD	BHTA	Shank <sup>(1)</sup>	LBX	LB	OAL	Shank m. <sup>(2)</sup>	RPMX <sup>(3)</sup>	
MM S-B-L150/57-C40T21	T21	40.00	30.00	5.0	C	57.0	-	150.00	S	21840	1.27

- Do not apply lubricant to the threaded connection.
- (1) C-Cylindrical
- (2) S-steel
- (3) The maximum RPM must be calculated. Divide the listed max. RPM by the number of flutes (on the milling head) being used.

**MULTI-MASTER**

**MM S-A (straight shanks)**  
Shanks for Interchangeable  
Milling Heads



Designation	THSZWS	DCONMS	BD	OAL	Shank <sup>(2)</sup>	Shank m. <sup>(3)</sup>	RPMX <sup>(4)</sup>	
MM S-A-L100-C40T21	T21	40.00	30.00	100.00	C	S	60000	0.90

- Do not apply lubricant to the threaded connection.
- (1) C-Cylindrical
- (2) S-steel
- (3) The maximum RPM must be calculated. Divide the listed max. RPM by the number of flutes (on the milling head) being used.







VIDEO



# **MULTI-MASTER**

INDEXABLE HEADS

## **75% Less Milling Passes with Barrel Heads**

**New Barrel Shaped** MULTI-MASTER  
Head for Accurate Finishing Saves  
Valuable Machining Time.



Barrel Shaped Head  
Saves **up to 75% Passes**



**Extremely  
Fast  
Milling**

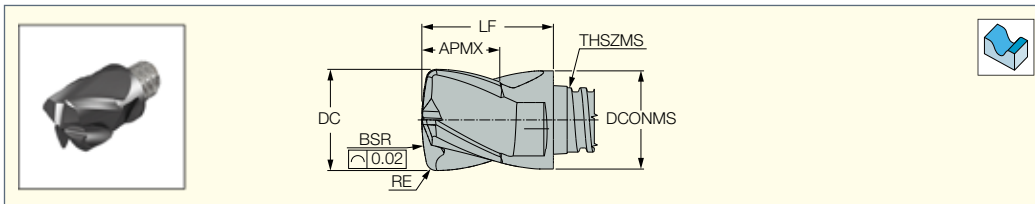


Range: Ø8 mm

→ Ø16 mm

**MM ELB**

Interchangeable Lens-Shaped  
(Barrel) Solid Carbide Head  
for 3D Profiling

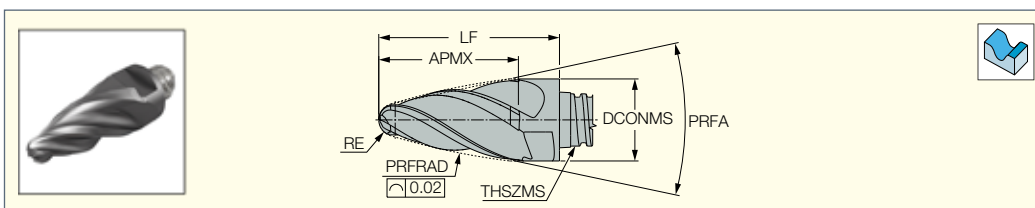


Dimensions									IC908
Designation	DC	BSR	RE	APMX	THSZMS	DCONMS	NOF <sup>(1)</sup>	LF	
MM ELB08R16A05-4T05	8.00	16.00	0.50	5.50	T05	8.00	4	10.00	●
MM ELB10R20A07-4T06	10.00	20.00	1.00	7.50	T06	10.00	4	13.00	●
MM ELB12R24A09-4T08	12.00	24.00	1.00	9.00	T08	12.00	4	16.50	●
MM ELB16R32A12-4T10	16.00	32.00	1.00	12.00	T10	16.00	4	20.50	●

<sup>(1)</sup> Number of flutes

**MM EOB**

Interchangeable Oval-Shaped  
(Barrel) Solid Carbide Head  
for 3D Profiling

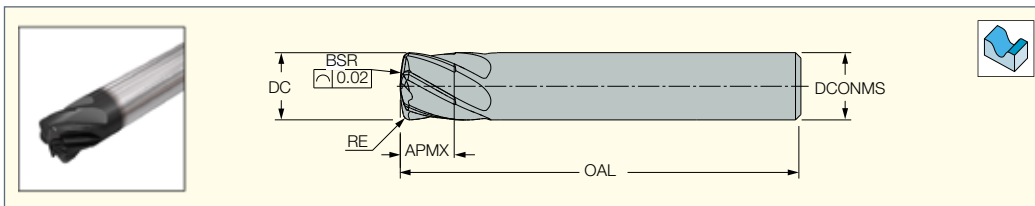


Dimensions									IC908
Designation	PRFRAD	RE	APMX	PRFA	THSZMS	NOF <sup>(1)</sup>	DCONMS	LF	
MM EOB08R1.5R80A13-4T05	80.00	1.50	14.20	24.00	T05	4	8.00	18.00	●
MM EOB12R2.0R75A21-4T08	75.00	2.00	21.30	24.00	T08	4	12.00	27.00	●
MM EOB10R2.0R85A16-4T06	85.00	2.00	16.50	24.00	T06	4	10.00	22.00	●
MM EOB16R3.0R75A26-4T10	75.00	3.00	27.00	24.00	T10	4	16.00	33.40	●

<sup>(1)</sup> Number of flutes

**SC ELB**

Solid Carbide Lens-Shaped  
(Barrel) Endmills for 3D Profiling



Dimensions									IC902
Designation	DC	BSR	RE	APMX	DCONMS	NOF <sup>(1)</sup>	OAL	Shank	
ELB-R0.75R16A5-6C8-63	8.00	15.00	0.75	5.00	8.00	4	63.00	C	●
ELB-R1R20A7-6C10-72	10.00	20.00	1.00	7.00	10.00	6	72.00	C	●
ELB-R1R25A9-6C12-83	12.00	25.00	1.00	9.00	12.00	6	83.00	C	●

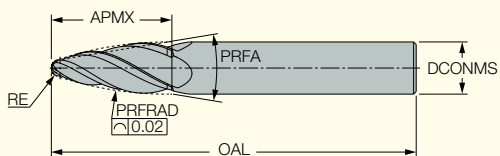
<sup>(1)</sup> Number of flutes

**SOLIDMILL**  
PREMIUM LINE

**NEOBARREL**  
PROFILE MILLING

### SC EOB

Solid Carbide Oval-Shaped  
(Barrel) Endmills for 3D Profiling



Designation	Dimensions								IC902
	PRFRAD	RE	APMX	PRFA	DCONMS	NOF <sup>(1)</sup>	OAL	Shank	
EOB-R1R90A24/7-4C08-63	90.00	1.00	24.80	14.88	8.00	4	63.00	C	●
EOB-R2R85A24/8-4C10-72	85.00	2.00	26.60	15.46	10.00	4	72.00	C	●
EOB-R2R80A27/9-4C12-83	80.00	2.00	27.10	18.38	12.00	4	83.00	C	●

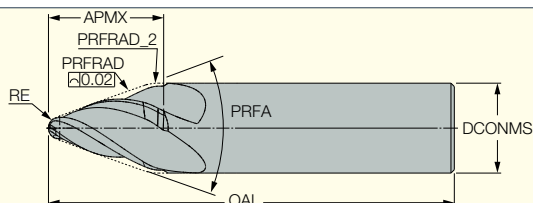
<sup>(1)</sup> Number of flutes

**SOLIDMILL**  
PREMIUM LINE

**NEOBARREL**  
PROFILE MILLING

### SC ETB

Solid Carbide Tapered-Shaped  
(Barrel) Endmills for 3D Profiling



Designation	Dimensions								IC902
	PRFRAD	PRFRAD_2	RE	APMX	PRFA	DCONMS	NOF <sup>(1)</sup>	OAL	
ETB-R1R250A10/20-4C08-63	250.00	4.00	1.00	10.00	40.00	8.00	4	63.00	C
ETB-R2R250A11/20-4C10-72	250.00	5.00	2.00	11.00	40.00	10.00	4	72.00	C
ETB-R3R250A12/20-4C12-83	250.00	6.00	3.00	12.00	40.00	12.00	4	83.00	C

<sup>(1)</sup> Number of flutes



**Barrel Shaped Head**  
**Saves up to 75% Passes**



# NEOLOGIQ HOLD

MACHINING INTELLIGENTLY

## AMAZING PRODUCTIVITY



**NEOCOLLET**  
INTEGRAL COLLET

VIDEO



# **NEOCOLLET**

INTEGRAL COLLET

## **Highly Rigid and Accurate Collet**

New Rigid Collet for  
**Small Diameter** Solid  
Carbide Milling Cutters.



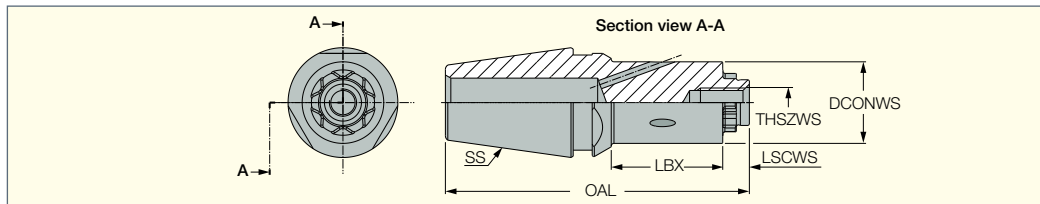
Available for  
**ER16, 20, 25, 32, 40**  
with a Variety of  
Extension Sizes



Through-Tool Coolant  
Directed to SD Cutter Edges



**SD-S-A-ER-SP**

 Solid ER Collets with SD  
 Spline Connection (SP)


Designation	SS	LBX <sup>(1)</sup>	DCONWS	THSZWS	LSCWS	OAL	kg
SD-S-A-H05-ER16-SP11-C	ER16	5.00	11.00	M4X0.5	3.85	36.35	0.03
SD-S-A-H20-ER16-SP11-C	ER16	20.00	11.00	M4X0.5	3.85	51.35	0.04
SD-S-A-H05-ER20-SP11-C	ER20	5.00	11.00	M4X0.5	3.85	39.85	0.05
SD-S-A-H05-ER20-SP13-C	ER20	5.00	13.00	M4X0.5	4.35	40.35	0.05
SD-S-A-H05-ER20-SP15-C	ER20	5.00	15.00	M5X0.5	4.90	40.90	0.05
SD-S-A-H20-ER20-SP11-C	ER20	20.00	11.00	M4X0.5	3.85	54.85	0.06
SD-S-A-H20-ER20-SP13-C	ER20	20.00	13.00	M4X0.5	4.35	55.35	0.07
SD-S-A-H20-ER20-SP15-C	ER20	20.00	15.00	M5X0.5	4.90	55.90	0.08
SD-S-A-H05-ER25-SP11-C	ER25	5.00	11.00	M4X0.5	3.85	42.85	0.09
SD-S-A-H05-ER25-SP13-C	ER25	5.00	13.00	M4X0.5	4.35	43.35	0.09
SD-S-A-H05-ER25-SP15-C	ER25	5.00	15.00	M5X0.5	4.90	43.90	0.09
SD-S-A-H05-ER25-SP17-C	ER25	5.00	17.00	M6X0.5	6.00	45.00	0.09
SD-S-A-H05-ER25-SP19-C	ER25	5.00	19.00	M6X0.5	8.50	47.50	0.09
SD-S-A-H20-ER25-SP15-C	ER25	5.00	15.00	M5X0.5	4.90	58.90	0.11
SD-S-A-H20-ER25-SP11-C	ER25	20.00	11.00	M4X0.5	3.85	57.85	0.10
SD-S-A-H20-ER25-SP13-C	ER25	20.00	13.00	M4X0.5	4.35	58.35	0.10
SD-S-A-H20-ER25-SP17-C	ER25	20.00	17.00	M6X0.5	6.00	60.00	0.12
SD-S-A-H20-ER25-SP19-C	ER25	20.00	19.00	M6X0.5	8.50	62.50	0.13
SD-S-A-H05-ER32-SP13-C	ER32	5.00	13.00	M4X0.5	4.35	49.35	0.14
SD-S-A-H05-ER32-SP15-C	ER32	5.00	15.00	M5X0.5	4.90	49.90	0.15
SD-S-A-H05-ER32-SP17-C	ER32	5.00	17.00	M6X0.5	6.00	51.00	0.15
SD-S-A-H05-ER32-SP19-C	ER32	5.00	19.00	M6X0.5	8.50	53.50	0.15
SD-S-A-H20-ER32-SP13-C	ER32	20.00	13.00	M4X0.5	4.35	64.35	0.16
SD-S-A-H20-ER32-SP15-C	ER32	20.00	15.00	M5X0.5	4.90	64.90	0.16
SD-S-A-H20-ER32-SP17-C	ER32	20.00	17.00	M6X0.5	6.00	66.00	0.17
SD-S-A-H20-ER32-SP19-C	ER32	20.00	19.00	M6X0.5	8.50	68.50	0.18
SD-S-A-H05-ER40-SP17-C	ER40	5.00	17.00	M6X0.5	6.00	57.00	0.26
SD-S-A-H05-ER40-SP19-C	ER40	5.00	19.00	M6X0.5	8.50	59.20	0.27
SD-S-A-H20-ER40-SP17-C	ER40	20.00	17.00	M6X0.5	6.00	72.00	0.29
SD-S-A-H20-ER40-SP19-C	ER40	20.00	19.00	M6X0.5	8.50	74.50	0.30




(1) After the nut is mounted



**Through-Tool Coolant  
Directed to SD Cutter Edges**



## Spare Parts

Designation			
SD-S-A-H05-ER16-SP11-C	SR M4X0.5-SP11-HG	SW6-T-SH	BLD T15/S7
SD-S-A-H20-ER16-SP11-C	SR M4X0.5-SP11-HG	SW6-T-SH	BLD T15/S7
SD-S-A-H05-ER20-SP11-C	SR M4X0.5-SP11-HG	SW6-T-SH	BLD T15/S7
SD-S-A-H05-ER20-SP13-C	SR M4X0.5-SP13-IP15-HG	SW6-T-SH	BLD IP15/S7
SD-S-A-H05-ER20-SP15-C	SR M5X0.5-SP15-IP20-HG	SW6-T-SH	BLD IP20/S7
SD-S-A-H20-ER20-SP11-C	SR M4X0.5-SP11-HG	SW6-T-SH	BLD T15/S7
SD-S-A-H20-ER20-SP13-C	SR M4X0.5-SP13-IP15-HG	SW6-T-SH	BLD IP15/S7
SD-S-A-H20-ER20-SP15-C	SR M5X0.5-SP15-IP20-HG	SW6-T-SH	BLD IP20/S7
SD-S-A-H05-ER25-SP11-C	SR M4X0.5-SP11-HG	SW6-T-SH	BLD T15/S7
SD-S-A-H05-ER25-SP13-C	SR M4X0.5-SP13-IP15-HG	SW6-T-SH	BLD IP15/S7
SD-S-A-H05-ER25-SP15-C	SR M5X0.5-SP15-IP20-HG	SW6-T-SH	BLD IP20/S7
SD-S-A-H05-ER25-SP17-C	SR M6X0.5-SP17-IP20-HG	SW6-T-SH	BLD IP20/S7
SD-S-A-H05-ER25-SP19-C	SR M6X0.5-SP17-IP20-HG	SW6-T-SH	BLD IP20/S7
SD-S-A-H20-ER25-SP15-C	SR M5X0.5-SP15-IP20-HG	SW6-T-SH	BLD IP20/S7
SD-S-A-H20-ER25-SP11-C	SR M4X0.5-SP11-HG	SW6-T-SH	BLD T15/S7
SD-S-A-H20-ER25-SP13-C	SR M4X0.5-SP13-IP15-HG	SW6-T-SH	BLD IP15/S7
SD-S-A-H20-ER25-SP17-C	SR M6X0.5-SP17-IP20-HG	SW6-T-SH	BLD IP20/S7
SD-S-A-H20-ER25-SP19-C	SR M6X0.5-SP17-IP20-HG	SW6-T-SH	BLD IP20/S7
SD-S-A-H05-ER32-SP13-C	SR M4X0.5-SP13-IP15-HG	SW6-T-SH	BLD IP15/S7
SD-S-A-H05-ER32-SP15-C	SR M5X0.5-SP15-IP20-HG	SW6-T-SH	BLD IP20/S7
SD-S-A-H05-ER32-SP17-C	SR M6X0.5-SP17-IP20-HG	SW6-T-SH	BLD IP20/S7
SD-S-A-H05-ER32-SP19-C	SR M6X0.5-SP17-IP20-HG	SW6-T-SH	BLD IP20/S7
SD-S-A-H20-ER32-SP13-C	SR M4X0.5-SP13-IP15-HG	SW6-T-SH	BLD IP15/S7
SD-S-A-H20-ER32-SP15-C	SR M5X0.5-SP15-IP20-HG	SW6-T-SH	BLD IP20/S7
SD-S-A-H20-ER32-SP17-C	SR M6X0.5-SP17-IP20-HG	SW6-T-SH	BLD IP20/S7
SD-S-A-H20-ER32-SP19-C	SR M6X0.5-SP17-IP20-HG	SW6-T-SH	BLD IP20/S7
SD-S-A-H05-ER40-SP17-C	SR M6X0.5-SP17-IP20-HG	SW6-T-SH	BLD IP20/S7
SD-S-A-H05-ER40-SP19-C	SR M6X0.5-SP17-IP20-HG	SW6-T-SH	BLD IP20/S7
SD-S-A-H20-ER40-SP17-C	SR M6X0.5-SP17-IP20-HG	SW6-T-SH	BLD IP20/S7
SD-S-A-H20-ER40-SP19-C	SR M6X0.5-SP17-IP20-HG	SW6-T-SH	BLD IP20/S7



# NEOLOGIQ GRADES

MACHINING INTELLIGENTLY

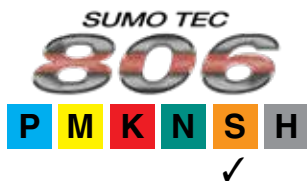
AMAZING PRODUCTIVITY



## Turning Grades



A hard submicron substrate. TiAlN PVD coated grade followed by a special “SUMO TEC” surface treatment. Suitable for turning hard nickel base alloys / Inconel (40-50 HRC) at low to medium cutting speeds.



A tough submicron substrate, TiAlN PVD coated grade followed by a special “SUMO TEC” surface treatment. Suitable for turning nickel-based high temperature alloys at low to medium cutting speeds.



A tough submicron substrate, improved TiAlN PVD coated grade for better chip flow. Suitable for turning heat resistant alloys, austenitic stainless steel and hard steel at low to medium cutting speeds.



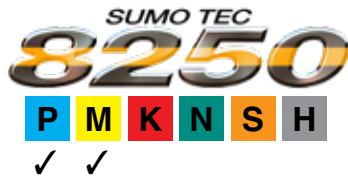
A very hard substrate with a cobalt enriched outer layer and alpha  $\text{Al}_2\text{O}_3$  coating. Used for finishing and medium turning of stainless steel at high cutting speeds. Features long tool life and excellent repeatability.



A tough substrate with MTCVD  $\text{Al}_2\text{O}_3$  and TiCN coating. Recommended for machining stainless steel at high feeds and unfavorable conditions at medium cutting speed.



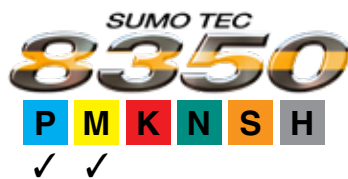
## Turning Grades



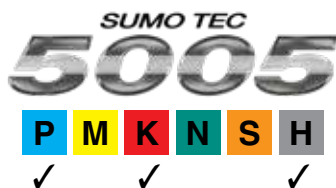
A tough substrate with a cobalt enriched layer combined with improved MTCVD TiCN and a thick alpha  $\text{Al}_2\text{O}_3$  CVD coating. Recommended for general use machining of steel in a wide range of conditions, featuring high toughness and resistance to chipping and plastic deformation.



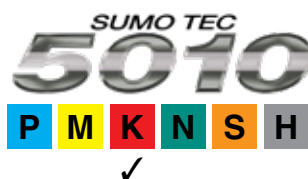
A very hard substrate with a cobalt enriched layer, improved MTCVD TiCN and a thick alpha  $\text{Al}_2\text{O}_3$  CVD coating. Features excellent thermal stability, resistance to chipping and plastic deformation. Recommended for high speed machining of steel at stable or slightly unstable conditions.



A very tough substrate with a cobalt enriched layer combined with an improved MTCVD TiCN and alpha  $\text{Al}_2\text{O}_3$  CVD coating. Provides excellent toughness and chipping resistance on steel for interrupted and unstable cutting conditions.



A hard substrate, MTCVD TiCN and thick  $\text{Al}_2\text{O}_3$  coated grade with post coating surface treatment. Mainly used for turning nodular cast iron (may be used for other cast iron as well) at medium to high cutting speeds at stable or slightly unstable conditions. Can be used when higher wear resistance than that provided by IC5010 or other grades is required.

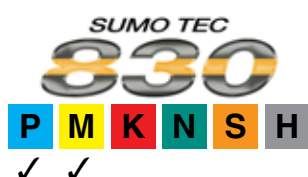


A hard substrate, improved MTCVD TiCN and a thick alpha  $\text{Al}_2\text{O}_3$  CVD coating. Features excellent thermal stability and improved toughness. Recommended mainly for grey cast iron at stable or slightly unstable conditions. Can also be used successfully on nodular cast iron.

## Parting Grades



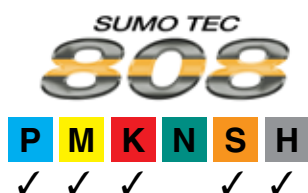
AlTiN + TiN PVD coated grade on very tough substrate for parting and grooving applications at high feeds and low to medium speeds. Suitable for steels and stainless steel. The grade is recommended for interrupted cut and machining at unstable conditions.



AlTiCrN + TiN PVD coated grade with a special SUMO TEC surface treatment on very tough substrate for parting and grooving of steel and stainless steel at low to medium speeds and medium to high feeds. The grade is recommended for interrupted cut and machining at unstable conditions.



AlTiN + TiN PVD coated grade overlays on tough submicron substrate. Recommended for general use in parting and grooving operations on a large variety of materials as well as steel, alloy steels, austenitic stainless steel, and high temperature alloys at medium cutting speeds.



A tough submicron substrate with AlTiCrN + TiN PVD coating and a special SUMO TEC surface treatment. Recommended for general use in parting and grooving operations on large variety of materials as well as steel, alloy steels, austenitic stainless steel, heat resistant alloys at medium cutting speeds.



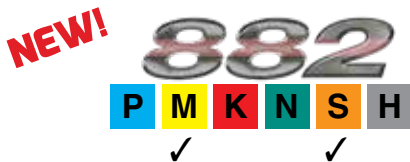
A very hard submicron substrate with AlTiCrN + TiN PVD coating and a special SUMO TEC surface treatment. Suitable for parting and grooving of steel, alloy steels, austenitic stainless steel, high temperature alloys and hard steels at medium to high cutting speeds.

## Drilling Grades



Diamond coated grade for drilling CFRP (Carbon Fiber Reinforced Plastic) and titanium CFRP laminates.

## Milling Grades



A tough substrate, TiAlN PVD coated and a special surface treatment. Designed for machining austenitic stainless steel, titanium and high temperature alloys.



A tough TiCN+TiN thin PVD coated grade with a special "SUMO TEC" surface treatment. Used for milling a wide range of workpiece materials, at low to medium cutting speeds and for unstable machining conditions.



A tough substrate with a MTCVD and alpha  $\text{Al}_2\text{O}_3$  coating and a special surface treatment. Designed for machining austenitic stainless steel, titanium and high temperature alloys.



A TiAlN PVD coated grade. First choice for milling nodular cast iron at medium to high cutting speeds.



# Milling Grades



A tough substrate with a MTCVD and TiCN/Al<sub>2</sub>O<sub>3</sub> coating. Recommended for milling grey cast iron at high cutting speeds, providing extended tool life.



A tough submicron substrate, TiCN PVD coated and with a special surface treatment. Designed for machining heat resistant alloys, hardened steels and cast iron at medium to high cutting speeds, interrupted cut and unfavorable conditions. Excellent notch wear and built-up edge resistance. High resistance to mechanical and thermal shock – therefore milling with coolant may be applied.



A tough substrate with a MTCVD and alpha Al<sub>2</sub>O<sub>3</sub> coating. Recommended for milling steel at high cutting speed, providing excellent tool life.

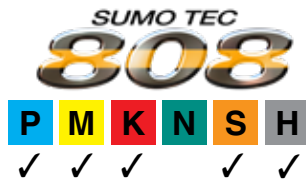


A PVD TiSiN coated tough grade and a special surface treatment. Suitable for milling austenitic stainless steel and high temperature alloys. Recommended for interrupted cuts and heavy operations.



A PVD AlTiN coated tough grade and a special SUMO TEC surface treatment. Suitable for milling alloyed steel. Recommended for interrupted cut and heavy operations.

## Turning, Milling and Drilling Grades



A tough submicron substrate, improved TiAlN PVD coated grade for better chip flow. Designed for machining heat resistant alloys, austenitic stainless steel, hard alloys and carbon steel at medium to high cutting speeds, interrupted cut and unfavorable conditions. Excellent notch wear and built-up edge resistance.



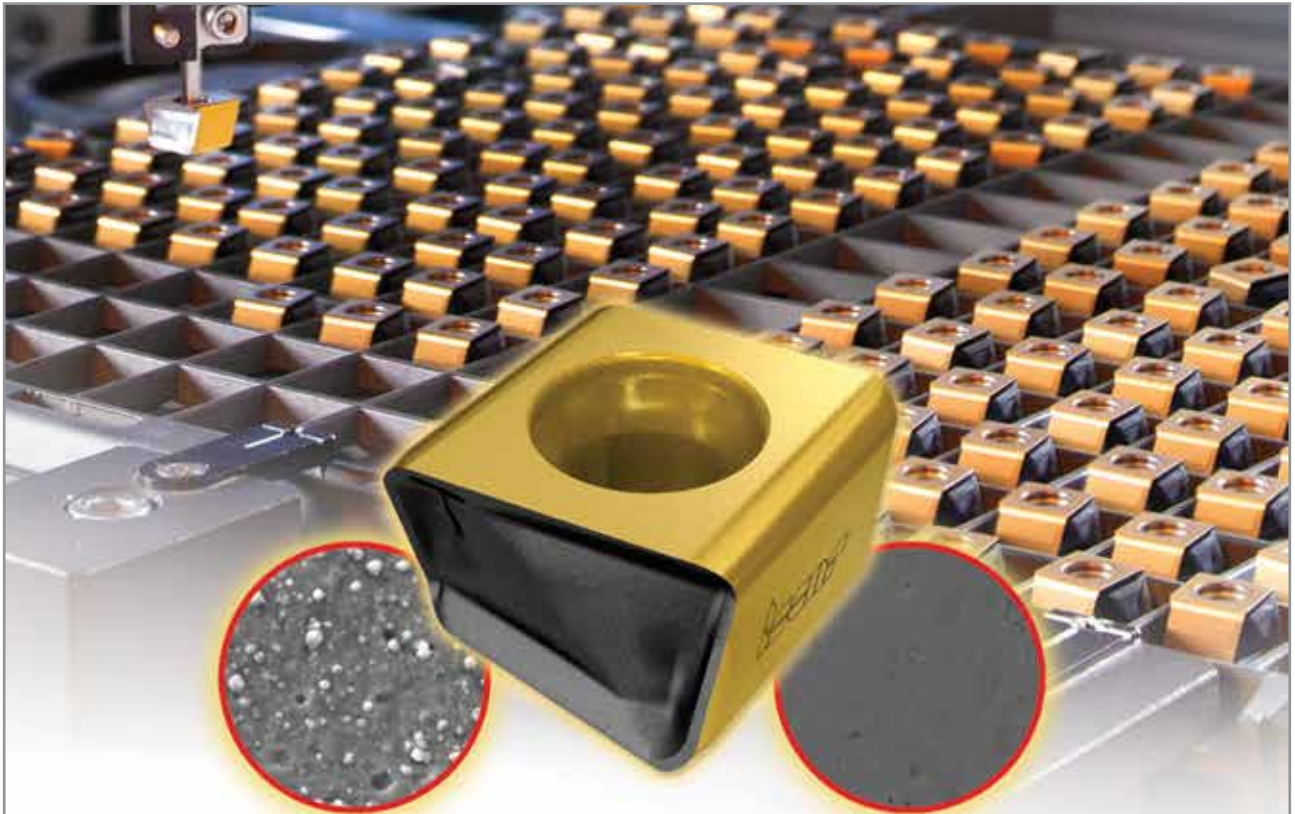
An improved TiAlN PVD coated tough grade for better chip flow. Suitable for machining stainless steel, high temperature alloys and other alloy steels. Recommended for interrupted cut and heavy operations.



A tough submicron substrate, TiAlN PVD coated grade. Designed for machining heat resistant alloys, austenitic stainless steel, hard alloys and carbon steel at medium to high cutting speeds, interrupted cut and unfavorable conditions. Excellent notch wear and built-up edge resistance.



A tough substrate with a MTCVD and alpha  $\text{Al}_2\text{O}_3$  coating. Recommended for machining martensitic stainless steel at high cutting speed providing excellent tool life.



### **Standard Grade**

### **SUMO TEC Grade**

The SUMO TEC grades feature a special post-coating treatment which improves toughness and chipping resistance while reducing friction and built-up edge. The new process provides higher reliability and improves tool life substantially.





# Machining Logically Guarantees **Productivity Solutions!**



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Chip Movers**



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## Quality Standard

ISCAR has been certified by the prestigious Standards Institution, as being in full compliance to ensure delivery of the finest quality goods. Quality control facilities include the metallurgical laboratory, raw metal testing, an online testing procedure and a machining center for tool performance testing and final product inspection. Only the finest products are packaged for entry into ISCAR's inventory.

**ISCAR LTD.****Israel****Headquarters**

Tel +972 (0)4 997 0311  
Fax+972 (0)4 987 3741  
www.iscar.com  
headquarter@iscar.co.il

**Argentina**

ISCAR TOOLS ARGENTINA SA  
Tel +54 114 912 2200  
Fax+54 114 912 4411  
admin@iscararg.com.ar  
www.iscararg.com.ar

**Australia**

ISCAR AUSTRALIA PTY. LTD  
Tel +61 (0) 2 8848 3500  
Fax+61 (0) 2 8848 3511  
iscaraus@iscar.com.au  
www.iscar.com.au

**Austria**

ISCAR AUSTRIA GmbH  
Tel +43 7252 71200-0  
Fax+43 7252 71200-999  
office@iscar.at  
www.iscar.at

**Belarus**

JV ALC "TWINING-M"  
Tel +375 17 506-32-38  
+375 17 506-33-31/65  
Tel/Fax +375 17 506-32-37  
info@twing.by  
www.twing.by, www.iscar.by

**Belgium**

n.v. ISCAR BENELUX s.a.  
Tel +32 (0) 2 464 2020  
Fax+32 (0) 2 522 5121  
info@iscar.be  
www.iscar.be

**Bosnia**

(Representative Office)  
Tel +387 32 201 100  
Fax+387 32 201 101  
info@iscar.ba

**Brazil**

ISCAR DO BRASIL COM. LTDA.  
Tel +55 19 3826-7100  
Fax+55 19 3826-7171  
DDG 0800 701 8877  
iscar@iscarbrasil.com.br  
www.iscar.com.br

**Bulgaria**

ISCAR BULGARIA  
Tel/Fax +359 431 62557  
aa\_iscar@infotel.bg  
www.iscar.bg

**Canada**

ISCAR TOOLS INC.  
Tel +1 905 829 9000  
Fax+1 905 829 9100  
admin@iscar.ca  
www.iscar.ca

**Chile**

J&A INTERNATIONAL  
Tel +56 2 2232 5838  
amedina@jya.cl  
www.jya.cl

**China**

ISCAR CHINA  
Tel +86 10 6561 0261/2/3  
Fax+86 10 6561 0264  
iscar@iscar.com.cn  
www.iscar.com.cn

**Colombia**

ISCAR Andina  
Tel +57 310 380 9932  
Tel/fax +57 1 896 65 78  
iscar@iscar.com.co  
www.iscar.com.co

**Croatia**

ISCAR ALATI d.o.o.  
Tel +385 (0) 1 33 23 301  
Fax+385 (0) 1 33 76 145  
iscar@zg.t-com.hr  
www.iscar.hr

**Cyprus**

WAMET (Demetriades) Ltd.  
Tel +357 (0) 2 336660/5498  
Fax+357 (0) 2 333386  
wamet@cytanet.com.cy

**Czech Republic**

ISCAR CR s.r.o.  
Tel +420 377 420 625  
Fax+420 377 420 630  
iscar@iscar.cz  
www.iscar.cz

**Denmark**

KJ VAERKTOEJ AS/ISCAR DENMARK  
Tel +45 70 11 22 44  
Fax+45 46 98 67 10  
kj@kj.dk  
www.iscar.dk

**Ecuador**

ISCAR Andina  
Tel/fax +57 1 821 93 38  
iscar@iscar.com.co  
atencioncliente@iscar.com.co  
www.iscar.com.co

**Estonia**

KATOMSK AS  
Tel +372 6775 671  
Fax+372 6720 266  
aleksei@katomsk.ee

**Finland**

ISCAR FINLAND OY  
Tel +358-(0)9-439 1420  
Fax+358-(0)9-466 328  
info@iscar.fi  
www.iscar.fi

**France**

ISCAR FRANCE SAS  
Tel +33 (0)1 30 12 92 92  
Fax+33 (0)1 30 12 95 82  
info@iscar.fr  
www.iscar.fr

**Germany**

ISCAR Germany GmbH  
Tel +49 (0) 72 43 9908-0  
Fax+49 (0) 72 43 9908-93  
gmbh@iscar.de  
www.iscar.de

**Greece**

INTERNATIONAL TOOLS  
K.-X. GEORGOPOULOS & SIA O.E  
Tel +30 210 346 0133  
Fax+30 210 342 5621  
info@internationaltools.gr

**VIMA**

V. Mazloumian & Sons  
Tel +30 2310 517-117 / 544-521  
Fax+30 2310 529-107  
vimaco@otenet.gr  
http://www.vimaco.gr

**Hong Kong**

MTC TOOLING SYSTEMS LTD  
Tel +85-2-23054838  
Fax+85-2-27988789  
yoongkamsing@hotmail.com

**Hungary**

ISCAR HUNGARY KFT.  
Tel +36 28 887 700  
Fax+36 28 887 710  
iscar@iscar.hu  
www.iscar.hu

**India**

ISCAR India Ltd.  
Tel +91 77009 63707  
sales@iscar.in  
www.iscar.in

**Indonesia**

CV MULTI TEKNIK  
Tel +62-21-29206242/44/45/59  
Fax+62-21-29206243  
contact@multi-teknik.co.id

**Ireland**

HARDMETAL MACHINE TOOLS  
Tel +353 (0) 1 286 2466  
Fax+353 (0) 1 286 1514  
phannigan@hardmetal.ie

**Italy**

ISCAR ITALIA srl  
Tel +39 02 93 528 1  
Fax+39 02 93 528 213  
marketing@iscaritalia.it  
www.iscaritalia.it

**Japan**

ISCAR JAPAN LTD.  
Tel +81 6 6835 5471  
Fax+81 6 6835 5472  
iscar@iscar.co.jp  
www.iscar.co.jp

**Latvia**

MECHA, UB  
Tel +370 37 407 230  
Fax+370 37 407 231  
info@mecha.lt

**Lithuania**

MECHA, UB  
Tel +370 37 407 230  
Fax+370 37 407 231  
sigitas@mecha.lt

**Mexico**

ISCAR DE MÉXICO  
Tel +52 (442) 214 5505  
Fax+52 (442) 214 5510  
iscarmex@iscar.com.mx  
www.iscar.com.mx

**The Netherlands**

ISCAR NEDERLAND B.V.  
Tel +31 (0) 182 535523  
Fax+31 (0) 182 572777  
info@iscar.nl  
www.iscar.nl

**New Zealand**

ISCAR PACIFIC LTD.  
Tel +64 (0) 9 573 1280  
Fax+64 (0) 9 573 0781  
iscar@iscarpac.co.nz

**North Macedonia**

(Representative Office)  
Tel +389 2 309 02 52  
Fax+389 2 309 02 54  
info@iscar.com.mk

**Norway**

SVEA MASKINER AS  
Tel +47 32277750  
Fax+47 32277751  
per.martin.bakken@svea.no

**Peru**

HARTMETALL SAC  
Tel: (511) 6612699  
otorres@hartmetallgroup.com

**Philippines**

MESCO  
Tel +63 2631 1775  
Fax+63 2635 0276  
mesco@mesco.com.ph

**Poland**

ISCAR POLAND Sp. z o.o.  
Tel +48 32 735 7700  
Fax+48 32 735 7701  
iscar@iscar.pl  
www.iscar.pl

**Portugal**

ISCAR Portugal, SA  
Tel +351 256 579950  
Fax+351 256 586764  
info@iscarportugal.pt  
www.iscarportugal.pt

**Romania**

ISCAR Tools SRL  
Tel +40 (0)312 286 614  
Fax+40 (0)312 286 615  
iscar-romania@iscar.com

**Russia**

Moscow  
ISCAR LLC  
Tel/fax +7 495 660 91 25/31  
iscar@iscar.ru  
www.iscar.ru

**Serbia**

ISCAR TOOLS d.o.o.  
Tel +381 11 314 90 38  
Fax+381 11 314 91 47  
info@iscartools.rs

**Singapore**

SINO TOOLING SYSTEM  
Tel +65 6566 7668  
Fax+65 6567 7336  
sinotool@singnet.com.sg

**Slovakia**

ISCAR SR, s.r.o.  
Tel +421 (0) 41 5074301  
Fax+421 (0) 41 5074311  
info@iscar.sk  
www.iscar.sk

**Slovenia**

ISCAR SLOVENIJA d.o.o.  
Tel +386 1 580 92 30  
Fax+386 1 562 21 84  
info@iscar.si  
www.iscar.si

**South Africa**

ISCAR SOUTH AFRICA (PTY) LTD.  
ShareCall 08600-47227  
Tel +27 11 997 2700  
Fax+27 11 388 9750  
iscar@iscarsa.co.za  
www.iscar.co.za

**South Korea**

ISCAR KOREA  
Tel +82 53 760 7594  
Fax+82 53 760 7500  
leeyj@taegutec.co.kr  
www.iscarkorea.co.kr

**Spain**

ISCAR IBERICA SA  
Tel +34 93 594 6484  
Fax+34 93 582 4458  
iscar@iscarib.es  
www.iscarib.es

**Sweden**

ISCAR SVERIGE AB  
Tel +46 (0) 18 66 90 60  
Fax+46 (0) 18 122 920  
info@iscar.se  
www.iscar.se

**Switzerland**

ISCAR HARTMETALL AG  
Tel +41 (0) 52 728 0850  
Fax+41 (0) 52 728 0855  
office@iscar.ch  
www.iscar.ch

**Taiwan**

ISCAR Taiwan Ltd.  
Tel +886 (0)4-24731573  
Fax+886 (0)4-24731530  
iscar.taiwan@msa.hinet.net  
www.iscar.org.tw

**Thailand**

ISCAR Thailand Ltd.  
Tel +66 (2) 7136633-8  
Fax+66 (2) 7136632  
iscar@iscarthailand.com  
www.iscarthailand.com

**Turkey**

ISCAR Kesici Takim  
TIC. VE. IML. LTD  
Tel +90 (262) 751 04 84 (Pbx)  
Fax+90 (262) 751 04 85  
iscar@iscar.com.tr  
www.iscar.com.tr

**Ukraine**

ISCAR UKRAINE LLC  
Tel +38 (050) 440 23 91  
info@iscar.com.ua  
www.iscar.com.ua

**United Arab Emirates**

SVRS General Trading LLC  
Tel +971 4 342 6699  
www.svrs-mena.com

**United Kingdom**

ISCAR TOOLS LTD.  
Tel +44 (0) 121 422 8585  
Fax+44 (0) 121 423 2789  
sales@iscar.co.uk  
www.iscar.co.uk

**United States**

ISCAR METALS INC.  
Tel +1 817 258 3200  
Tech Tel 1-877-BY-ISCAR  
Fax+1 817 258 3221  
info@iscarmetals.com  
www.iscarmetals.com

**Venezuela**

FERREINDUSTRIAL ISO-DIN C.A.  
Tel +58 2 632 8211/633 4657  
Fax+58 2 632 5277  
iso-din@cantv.net

**Vietnam**

ISCAR VIETNAM  
(Representative Office)  
Tel +84 8 38 123 519/20  
Fax+84 8 38 123 521  
iscarvn@hcm.fpt.vn  
www.iscarvn.com

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