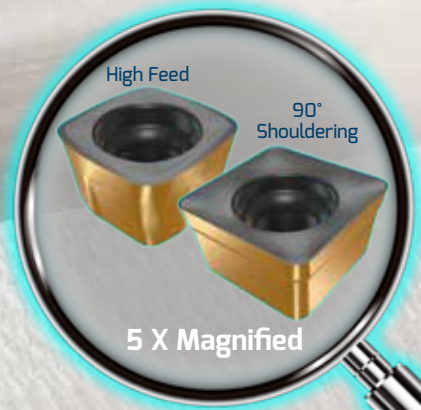


## Extra Small 10-20 mm SQ Master



Endmills and Multi-Master Range  
10 -20mm



5 X Magnified



Small Quad Insert with  
4 Cutting Edges

**Two Small Quad Inserts for  
90° Shouldering and High Feed  
Fit the Same Endmill**



Positive Rake  
Angle



High Pressure  
Coolant



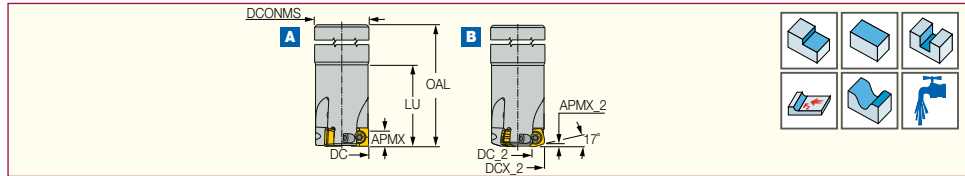
Performs  
90° Shoulder



Cost Effective  
Insert

**E90SO-04**

Endmills Carrying Inserts  
for Shouldering and Fast  
Feed Applications



Designation	DC	APMX	DC_2	DCX_2	APMX_2	LU	OAL	DCONMS	Shank <sup>(1)</sup>	CICT <sup>(2)</sup>	WT <sup>(3)</sup>
<b>E90SO D10-2-C10-04-C</b>	10.00	3.50	4.40	10.00	0.50	18.0	70.00	10.00	C	2	0.04
<b>E90SO D12-2-C12-04-C</b>	12.00	3.50	6.40	12.00	0.50	18.0	70.00	12.00	C	2	0.05
<b>E90SO D12-3-C12-04-C</b>	12.00	3.50	6.40	12.00	0.50	18.0	70.00	12.00	C	3	0.05
<b>E90SO D14-4-C14-04-C</b>	14.00	3.50	8.40	14.00	0.50	20.0	80.00	14.00	C	4	0.08
<b>E90SO D16-4-C16-04-C</b>	16.00	3.50	10.40	16.00	0.50	20.0	90.00	16.00	C	4	0.12
<b>E90SO D16-5-C16-04-C</b>	16.00	3.50	10.40	16.00	0.50	20.0	90.00	16.00	C	5	0.12
<b>E90SO D20-6-C20-04-C</b>	20.00	3.50	14.40	20.00	0.50	25.0	110.00	20.00	C	6	0.23

• A - with SOMT/CT 0402 insert • B - with SOMT 0402-FF insert • Tightening torque 0.5 Nxm

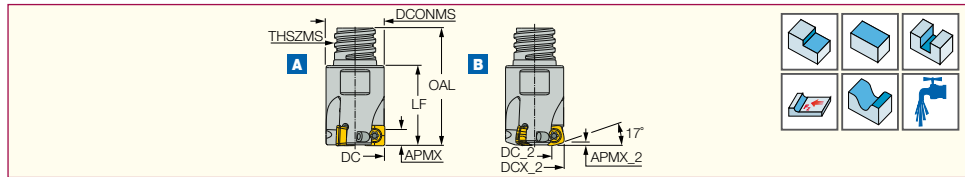
<sup>(1)</sup> C-Cylindrical

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

<sup>(3)</sup> Item weight

**E90SO-MM-04**

Endmills with a MULTI-MASTER  
Connection Carrying Inserts  
for Shouldering and Fast  
Feed Applications



Designation	DC	APMX	DC_2	DCX_2	APMX_2	LF	OAL	CICT <sup>(1)</sup>	DCONMS	THSZMS	DRVS <sup>(2)</sup>	WT <sup>(3)</sup>
<b>E90SO D10-2-MMT06-04</b>	10.00	3.50	4.40	10.00	0.50	15.00	21.30	2	9.70	T06	8.0	0.07
<b>E90SO D12-3-MMT08-04</b>	12.00	3.50	6.40	12.00	0.50	16.00	23.50	3	11.60	T08	10.0	0.15
<b>E90SO D14-4-MMT08-04</b>	14.00	3.50	8.40	14.00	0.50	16.00	23.50	4	13.60	T08	10.0	0.16
<b>E90SO D16-5-MMT10-04</b>	16.00	3.50	10.40	16.00	0.50	18.00	29.30	5	15.60	T10	13.0	0.26

• A - with SOMT/CT 0402 insert • B - with SOMT 0402-FF insert

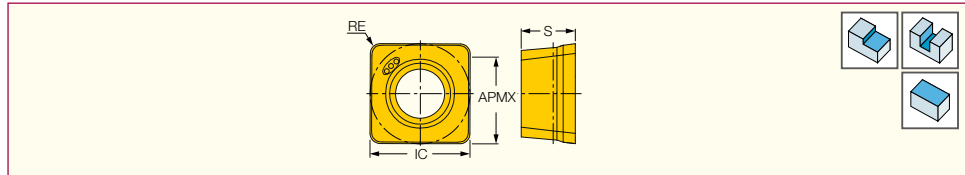
<sup>(1)</sup> Number of inserts

<sup>(2)</sup> Key flat size

<sup>(3)</sup> Item weight

**SOMT/CT 0402**

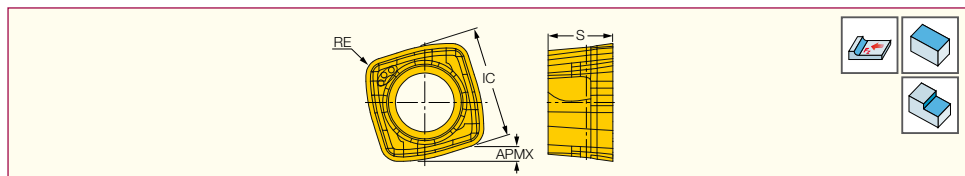
Square Milling Inserts for General Use



Designation	Dimensions				Tough ↔ Hard			Recommended Machining Data	
	APMX	RE	IC	S	IC830	IC808	IC810	a <sub>p</sub> (mm)	f <sub>z</sub> (mm/t)
<b>SOCT 040204 PNR</b>	3.50	0.40	4.07	2.20	•	•	•	0.50-3.50	0.05-0.10
<b>SOMT 040204 PNTR</b>	3.50	0.40	4.07	2.20	•	•	•	0.50-3.50	0.05-0.10

**SOMT 0402-FF**

Square Milling Inserts for  
Fast Feed Milling



Designation	Dimensions					IC830	Recommended Machining Data	
	IC	APMX	RE	R <sub>g</sub> <sup>(1)</sup>	S		a <sub>p</sub> (mm)	f <sub>z</sub> (mm/t)
<b>SOMT 040206 PNR-FF</b>	3.80	0.50	0.60	1.00	2.20	•	0.20-0.50	0.30-0.50

<sup>(1)</sup> Radius for programming