

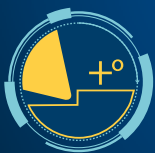
**Miniature Sized 8-10 mm  
90° Endmill Line  
Nano Master**



Significantly Large  
Body Core Diameter

10 X Magnified

**Smallest Indexable Insert Combined  
with Small Diameter Multi-Toothed  
Endmill for 90° Shoulder Milling**



Extra Positive  
Cutting Edge



Very Strong and  
Durable Insert



New Generation  
Insert



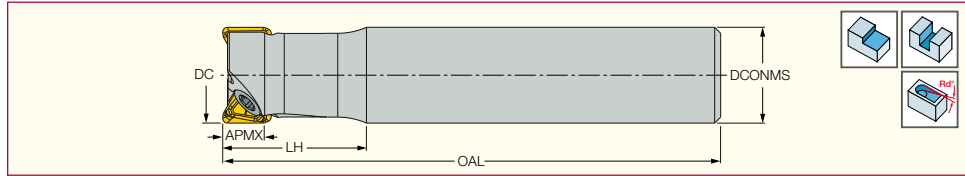
Performs  
90° Shoulder



Triangular Insert  
with No Hole

**HM390 ETP-04**

90° Small Diameter Endmills Carrying HM390 TPKR 0401 Triangular Inserts with 3 Helical Cutting Edges



Designation	DC	APMX	CICT <sup>(1)</sup>	OAL	LH	DCONMS	Shank <sup>(2)</sup>	RMPX <sup>(3)</sup>	
<b>HM390 ETP D08-2-C08-04</b>	8.00	3.00	2	60.00	12.0	8.00	C	3.0	0.02
<b>HM390 ETP D10-3-C10-04</b>	10.00	3.00	3	80.00	15.0	10.00	C	2.5	0.05

• Tightening torque 0.45 Nxm

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

<sup>(2)</sup> C-Cylindrical, W-Weldon

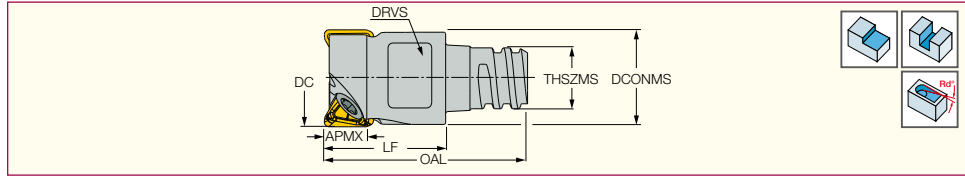
<sup>(3)</sup> Ramping angle maximum

**Spare Parts**

Designation		
<b>HM390 ETP-04</b>	SR M2X0.4-3 T6	T-6/5 MAGNET 3X3

**HM390 ETP-MM-04**

90° Endmills with a MULTI-MASTER Threaded Adaptation Carrying HM390 TPKR 0401... Triangular Inserts



Designation	DC	APMX	CICT <sup>(1)</sup>	LF	DCONMS	THSZMS	OAL	DRVS <sup>(2)</sup>	RMPX <sup>(3)</sup>
<b>HM390 ETP D08-2-MMT05-04</b>	8.00	3.00	2	10.00	7.60	T05	16.75	6.0	3.0
<b>HM390 ETP D10-3-MMT06-04</b>	10.00	3.00	3	12.00	9.60	T06	18.30	8.0	2.5

• Insert tightening torque 0.45 N\*m

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

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

<sup>(3)</sup> Ramping angle maximum

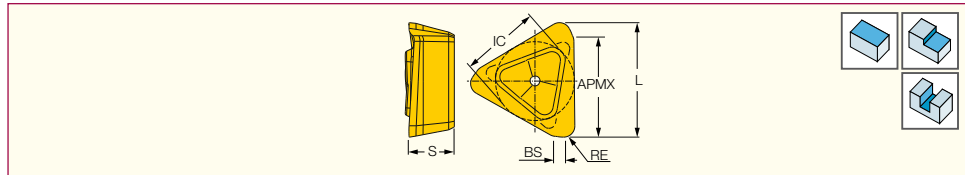
<sup>(4)</sup> Item weight

**Spare Parts**

Designation		
<b>HM390 ETP-MM-04</b>	SR M2X0.4-3 T6	T-6/5 MAGNET 3X3

**HM390 TPKR 0401**

Triangular Miniature Inserts with 3 Helical Cutting Edges for 90° Shoulders



Designation	Dimensions						IC830	Recommended Machining Data	
	L	IC	S	APMX	RE	BS		a <sub>p</sub> (mm)	f <sub>z</sub> (mm/t)
<b>HM390 TPKR 0401-PCTR</b>	4.00	2.80	1.60	3.00	0.40	0.40	•	0.50-3.00	0.04-0.10