

Diameter Correction Tool for thread mills

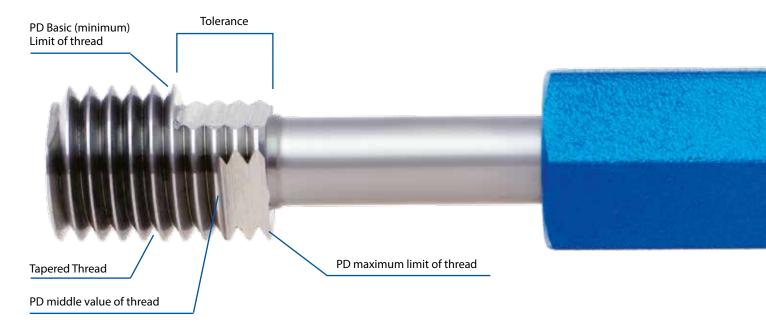
E-DCT

Volume 1





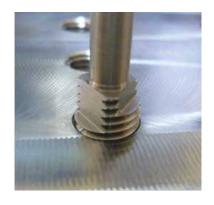
E-DCT Specification



Judgement of internal thread with E-DCT



1. Estimate the PD by position of the notches

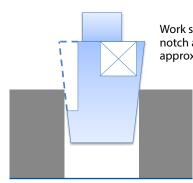






1.1 Work surface is between 1st notch and 2nd notch





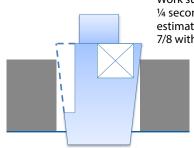
Work surface is between 1st notch and 2nd notch, which is approx. ¼ of PD tolerance.

Example: M10X1.5 6H Tolerance 9.026 +0.180 / 0 +0.180X 1/4 =+0.045

PD of the thread is about +0.045

1.2 Work surface is between 2nd notch and 3rd notch



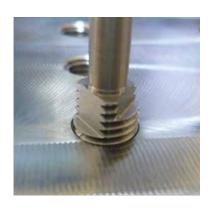


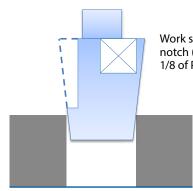
Work surface is at upper position about ¼ second and third notch. Soof you can estimate PD is about 7/8 within tolerance.

Example: M10X1.5 6H Tolerance 9.026 +0.180 / 0 +0.180X 7/8 =+0.158

PD of the thread is about +0.160

1.3 Work surface is below the first notch (minimum limit)





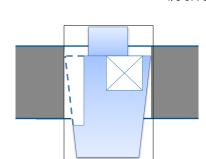
Work surface is below the first notch (Bottom Limit), about 1/8 of PD tolerance.

Example: M10X1.5 6H Tolerance 9.026 +0.180 / 0 +0.180X -1/8=-0.023

PD of the thread is about -0.020. (Not pass for small PD)

1.4 Work surface is over the 3rd notch (maximum limit)





Work surface is over the 3rd notch (maximum Limit), about 1/8 of PD tolerance.

Example: M10X1.5 6H Tolerance 9.026 +0.180 / 0 +0.180X +9/8= +0.203

PD of the thread is about +0.203. (Not pass for large PD)

How to calculate the correction value?

- 1) After threadmilling inspect the female thread with a plug gauge GP-NP.
- 2) After process 1), inspect position of pitch diameter with "E-DCT"
- 3) Notch ① indicates the tolerance of the pitch diameter.

Notch ② indicates medium value of tolerance and over.

E-DCT shows pitch diameter value is around 0 in the below photo.





Ex) M10X1.5-6H Tolerance of pitch diameter is 0.180 pitch diameter value is around 0 as show on left photo. If target value is 75% of tolerance, threadmill should rotate larger.

Correction value should be

- Based on diameter =0.180x75%=0.135
- Based on semi-diameter = 0.135/2=0.068

Tolerance of pitch diameter is marked on shank of E-DCT. Tolerance of pitch diameter x ratio of notch(%) = correction value.

Threading | Measuring | M(J)



- Diameter correction tool for thread mill
- Reduce the set up and machining time

M ISO 2 6H

For 6H

EDP	l F	iread si	ıze	Price
G1609311	M(J)3	х	0,5	
G1609312	M(J)4		0,7	
G1609313	M(J)5		0,8	
G1609314	M(J)6		1	
G1609317	M(J)M		1,25	
G1609322	M(J)10		1,5	
G1609323	M(J)10		1,25	
G1609325	M(J)12		1,75	
G1609326	M(J)12		1,5	
G1609327	M(J)12		1,25	
G1609329	M(J)14	х	2	
G1609330	M(J)14		1,5	
G1609334	M(J)16	Х	2	
G1609335	M(J)16	Х	1,5	
G1609339	M(J)20	х	2,5	
G1609340	M(J)20	х	1,5	

E-DCT

Threading | Measuring | UNJC | UNJF



- Diameter correction tool for thread mill
- Reduce the set up and machining time



For 3B

EDP	Thread size	Price
G1609623	1/4 - 20 UN(J)C	
G1609624	1/4 - 28 UN(J)F	
G1609625	5/16 - 18 UN(J)C	
G1609626	5/16 - 24 UN(J)F	
G1609627	3/8 - 16 UN(J)C	
G1609628	3/8 - 24 UN(J)F	
G1609631	1/2 - 13 UN(J)C	
G1609632	1/2 - 20 UN(J)F	
G1609635	5/8 - 11 UN(J)C	
G1609636	5/8 - 18 UN(J)F	
G1609638	3/4 - 16 UN(J)F	

For EG-3B Helicoil

EDP	Thread size	Price
G1609723	1/4 - 20 UN(J)C	
G1609724	1/4 - 28 UN(J)F	
G1609726	5/16 - 24 UN(J)F	
G1609728	3/8 - 24 UN(J)F	
G1609731	1/2 - 13 UN(J)C	
G1609732	1/2 - 20 UN(J)F	
G1609736	5/8 - 18 UN(J)F	
G1609738	3/4 - 16 UN(J)F	



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