



Diameter Correction Tool for thread mills

E-DCT

Volume 1



KEY FEATURES: E-DCT



1 Diameter correction tool for thread milled hole

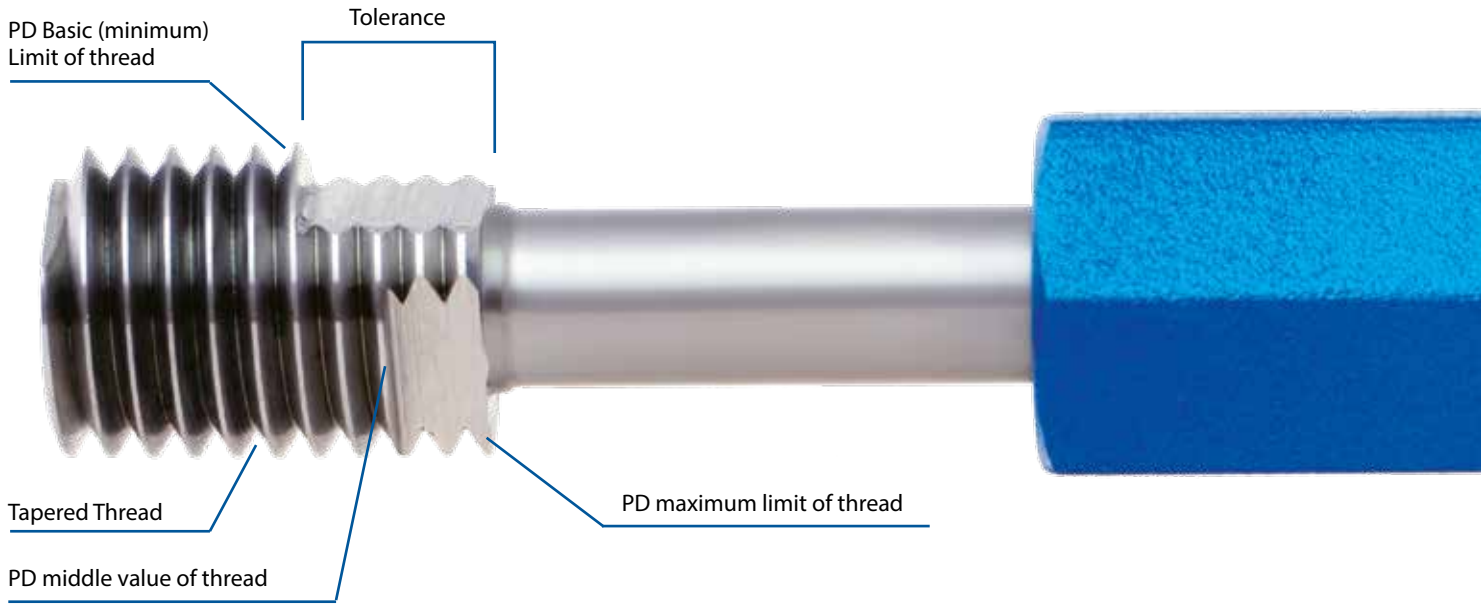
2 Reduce the set up and machining time

3 Measuring level at the workpiece surface

4 Estimate the position within tolerance by notch

E-DCT: KEY FEATURES & BENEFITS

E-DCT Specification



Judgement of internal thread with E-DCT

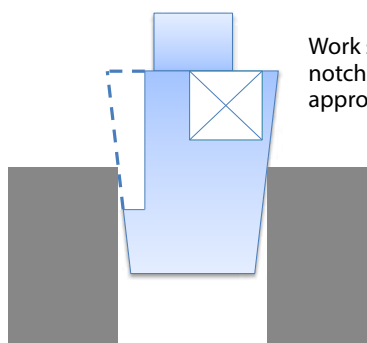


Hole No.	1	2	3	4	5
Position of gauge (depth) E-DCT					
GP gauge go through	NG	NG	NG (not go through)	OK	OK
NP gauge stop	OK	OK	OK	OK	NG
Judgement	NG (-)	NG (0)	NG	OK	NG (+)
Reason of Judgement	Smaller than Basic Pitch Diameter	Pitch Diameter is around Basic Pitch Diameter	Internal thread Tapered		Larger than maximum tolerance of Pitch Diameter

1. Estimate the PD by position of the notches



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

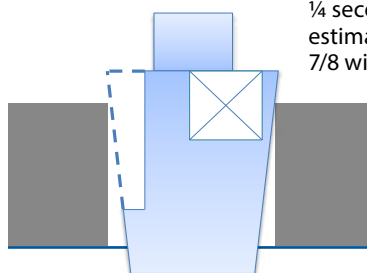


Work surface is between 1st notch and 2nd notch, which is approx. 1/4 of PD tolerance.

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

PD of the thread is about +0.045

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

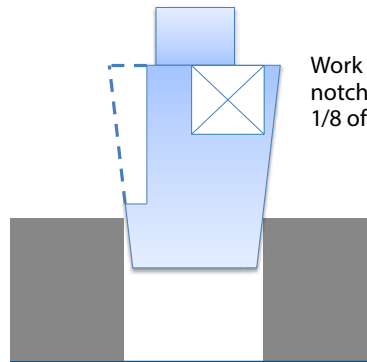
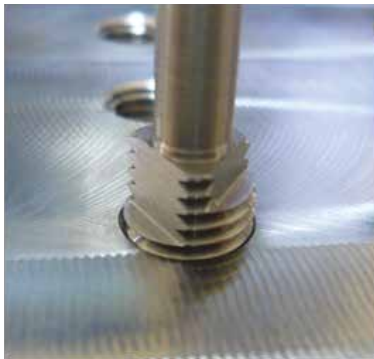


Work surface is at upper position about 1/4 second and third notch. Soof you can estimate PD is about 7/8 within tolerance.

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

PD of the thread is about +0.160

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

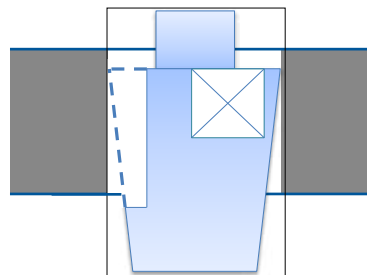
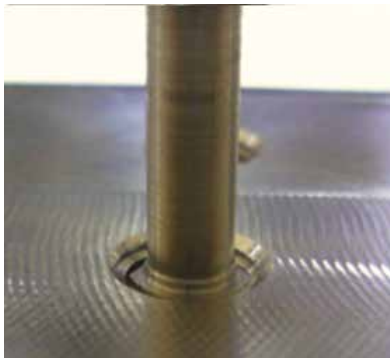


Work surface is below the first notch (Bottom Limit), about 1/8 of PD tolerance.

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.



E-DCT

Threading | Measuring | UNJC | UNJF



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

UNJC

UNJF

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	

Threading | Measuring

UNJF



shaping your dreams

OSG EUROPE LOGISTICS

Avenue Lavoisier 1
B-1300 Z.I. Wavre - Nord - Belgium
Tel: +32 10 23 05 07
Fax: +32 10 23 05 51
info@osgeurope.com

OSG POLAND Sp. z.o.o.

Spółdzielcza 57
05-07 Halinów - Poland
Tel: +22 760 82 71
Fax: +22 760 82 71
osg@osg-poland.com

OSG TURKEY

Rami Kışla Cad.No:56 Eyüp
Istanbul 34056 - Turkey
Tel:+90 212 565 24 00
Fax: +90 212 565 44 00
info@osg-turkey.com

OSG BELUX

Avenue Lavoisier 1
B-1300 Z.I. Wavre - Nord - Belgium
Tel: +32 10 23 05 11
Fax: +32 10 23 05 31
info@osg-belgium.com

OSG GERMANY

Karl-Ehmann-Str. 25
D - 73037 Göppingen - Germany
Tel: +49 7161 6064 - 0
Fax: +49 7161 6064 - 444
info@osg-germany.de

ROMSAN INTERNATIONAL CO. SRL

Reprezentant Exclusiv OSG
23-25, Nerva Traian Street
031044 Bucuresti - România
Tel: +40 021 322 07 47
Fax: +40 021 321 56 00
romsan.int@romsan.ro

OSG FRANCE

Parc Icade, Paris Nord 2
Immeuble "Le Rimbaud"
22 Avenue des Nations
CS66191 - 93420 Villepinte - France
Tel: +33 1 49 90 10 10
Fax: +33 1 49 90 10 15
sales@osg-france.com

OSG SCANDINAVIA

(For Scandinavian countries)
Langebjergvaenget 16
4000 Roskilde - Denmark
Tel: +45 46 75 65 55
Fax: +45 46 75 67 00
osg@osg-scandinavia.com

AUSTRIA

Branch office of OSG GERMANY
Messestraße 11
A-6850 Dornbirn
Tel: +49 7161 6064-0
Fax: + 49 7161 6064-444
info@osg-germany.de

OSG NETHERLANDS

Bedrijfsweg 5 - 3481 MG Harmelen
Tel: +31 348 44 2764
Fax: +31 348 44 2144
info@osg-nl.com

SWEDEN

Branch office of OSG SCANDINAVIA
Abrahams Gränd 8
295 35 Bromölla - Sweden
Tel: +46 40 41 22 55
Fax: +46 40 41 32 55
osg@osg-scandinavia.com

OSG ITALIA

Via Cirenaiica n. 52 int. 61/63
I - 10142 Torino - Italy
Tel: +39 0117705211
Fax: +39 0117071402
info@osg-italia.it

OSG UK

Shelton house, 5 Bentalls
Pipps Hill Ind Est, Basildon Essex SS14 3BY
Tel: +44 845 305 1066
Fax: +44 845 305 1067
sales@osg-uk.com

OSG IBERICA

Bekolarra 4
E - 01010 Vitoria-Gasteiz - Spain
Tel: +34 945 242 400
Fax: +34 945 228 883
osg.iberica@osg-ib.com

Vischer & Bolli AG

Im Schossacher 17
CH-8600 Dübendorf
Schweiz
Tel.: +41 44 802 15 15
Fax: +41 44 802 15 95
info@vb-tools.com

SLOVAKIA

Branch office of OSG Europe Logistics s.a.
Tel (SK) +421 2 4329 1295
Tel (BE) +32 10 23 05 07
Fax (BE) +32 10 23 05 51
sales-osgsvk@osgeurope.com

RUSSIA

Butlerova street, 17B, office 5069
117342 Moscow - Russia
Tel: +7 (495) 150 41 54
info@osg-russia.com

OSG EUROPE LOGISTICS S.A.

08/2018 - All rights reserved. © OSG Europe 2018.

The contents of this catalogue are provided to you for viewing only. They are not intended for reproduction either in part or in whole in this or other medium. They cannot be copied, used to create derivation work or used for any reason, by means without the express, written permission of the copyright owner. If prices are stated, they are netto unit-prices and any eventual tax(es) have to be added. The company is not responsible for any printing error in technical, price and/or any other data.

Tool specifications subject to change without notice.

www.osgeurope.com