

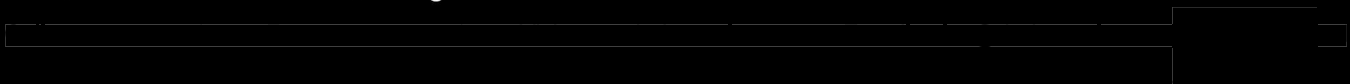


Turning & Boring Tools



歡迎來電/來信索取型錄及諮詢相關業務。
Please feel free to contact us for product details.

Section: C of 2015 Indexable Cutting Tools



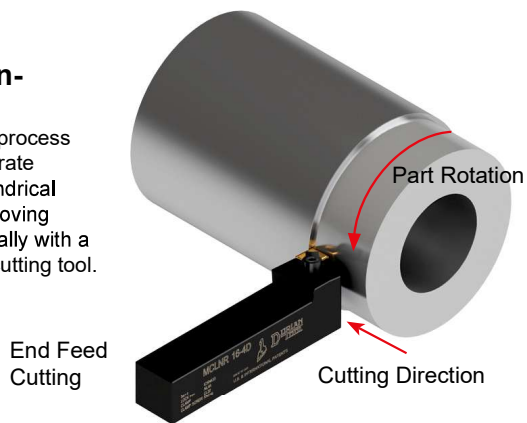
Turning and Boring System

Turning and Boring System

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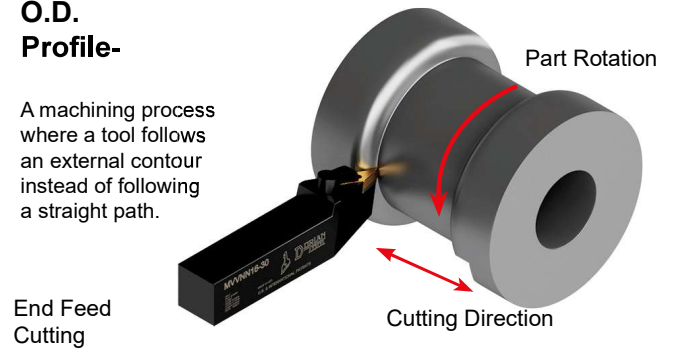
Turning Operation-

A machining process used to generate external, cylindrical forms by removing material, usually with a single-point cutting tool.



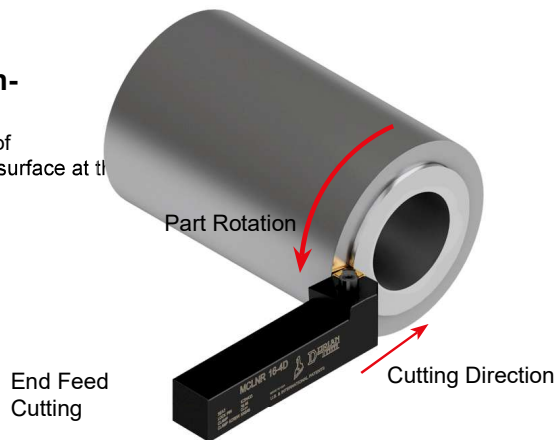
O.D. Profile-

A machining process where a tool follows an external contour instead of following a straight path.



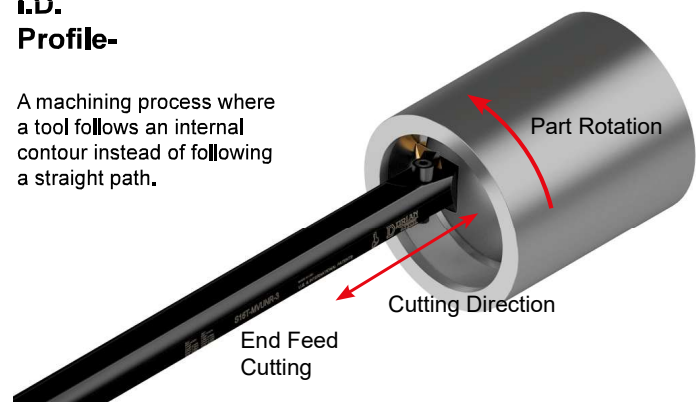
Facing Operation-

The process of making a flat surface at the end of a part.



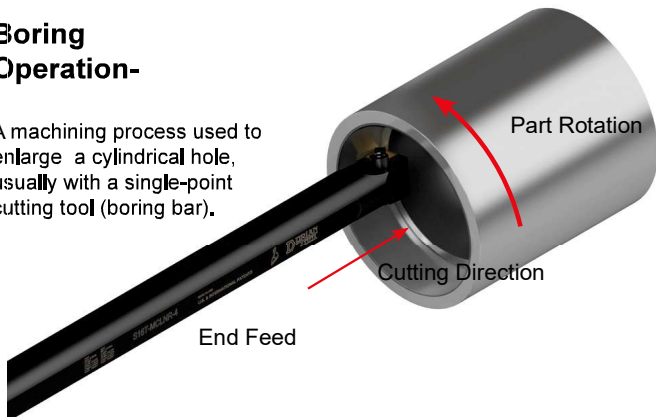
I.D. Profile-

A machining process where a tool follows an internal contour instead of following a straight path.



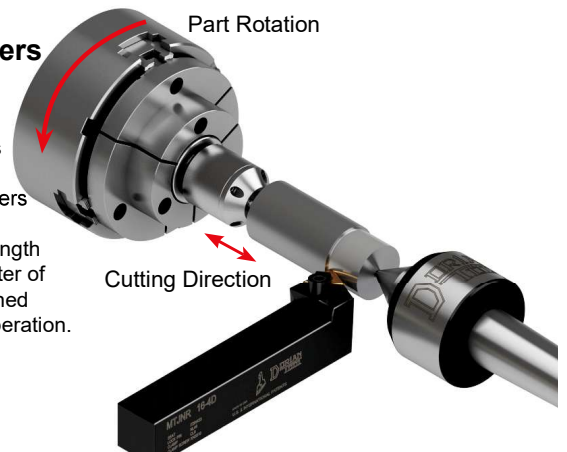
Boring Operation-

A machining process used to enlarge a cylindrical hole, usually with a single-point cutting tool (boring bar).



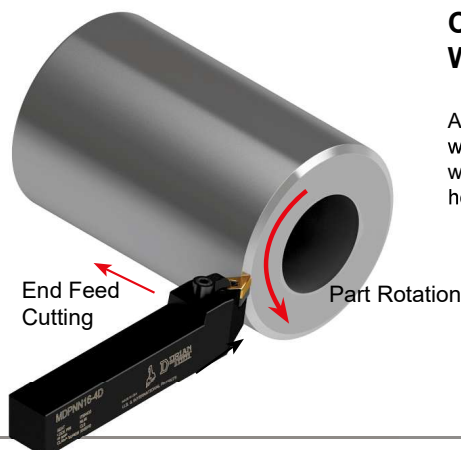
Between Centers Work-

A machining process where a work piece is held by using centers on each end. It allows the entire length of the outside diameter of the part to be machined in one continuous operation.



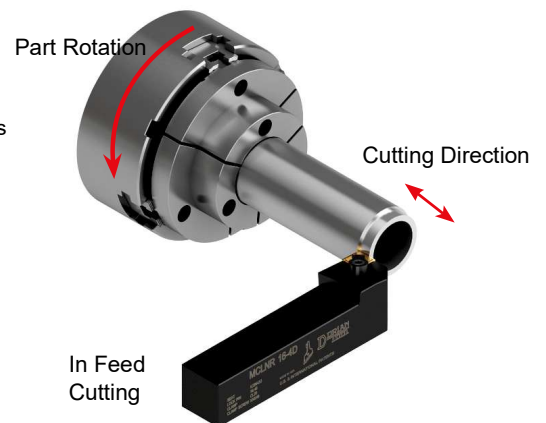
Chamfering Operation-

Metal turning operation used to remove sharp edges from workpiece diameter.



Chuck Work-

A machining process where any type of workpiece has to be held by a chuck.



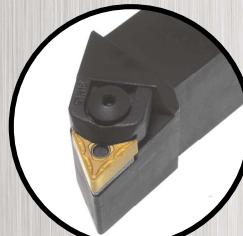
Turning System



"M" - Multi-Lock Toolholder System

- Maximum rigidity
- Utilizes lock pin and clamp
- Holds insert and seat secure for less vibration

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"W" - Wedge Lock Toolholder System

- Excellent locking ability
- Easier to index or change insert without the lock pin
- Allows for an optional chip breaker to be placed on the insert

Page C-28



"C" - Clamp-Lock Toolholder System

- Excellent locking ability
- Easier to index or change insert without the lock pin
- Allows for an optional chip breaker to be placed on the insert

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"D" - Dor Lock Toolholder System

- Excellent locking ability

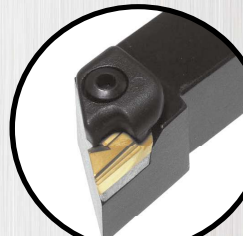
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"T" - Cam-Lock Toolholder

- One locking action to secure the insert
- Two second change over
- Triangular negative turning insert

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"P" - Profile Toolholder System

- Easy to index insert
- Uses special clamp for a secure positive lock with more force

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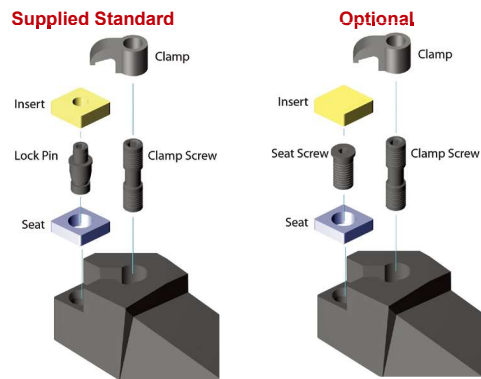


"S" - Screw-Lock Toolholder System

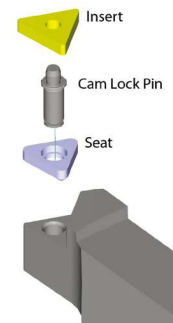
- Easy to index insert
- Uses Torx screw for a secure lock with more force

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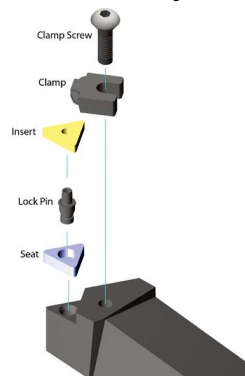
"M" - Multi-Lock Toolholder System Spare Parts



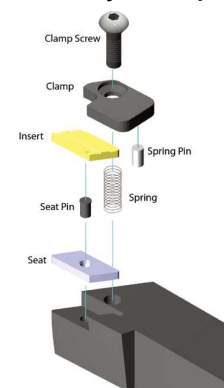
"T" Cam-Lock Toolholder System Spare Parts



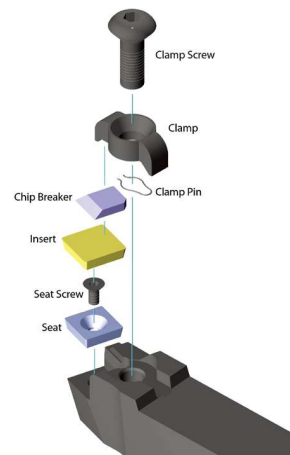
"W" - Wedge Lock Toolholder System Spare Parts



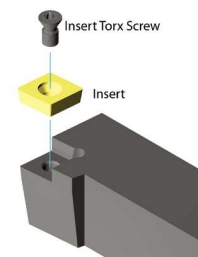
"P" - Profile Toolholder System Spare Parts



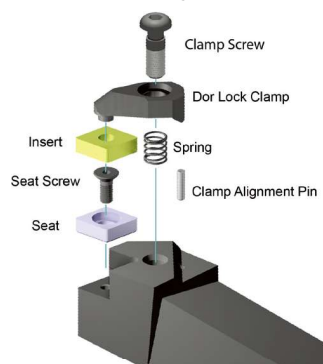
"C" - Clamp-Lock Toolholder System Spare Parts



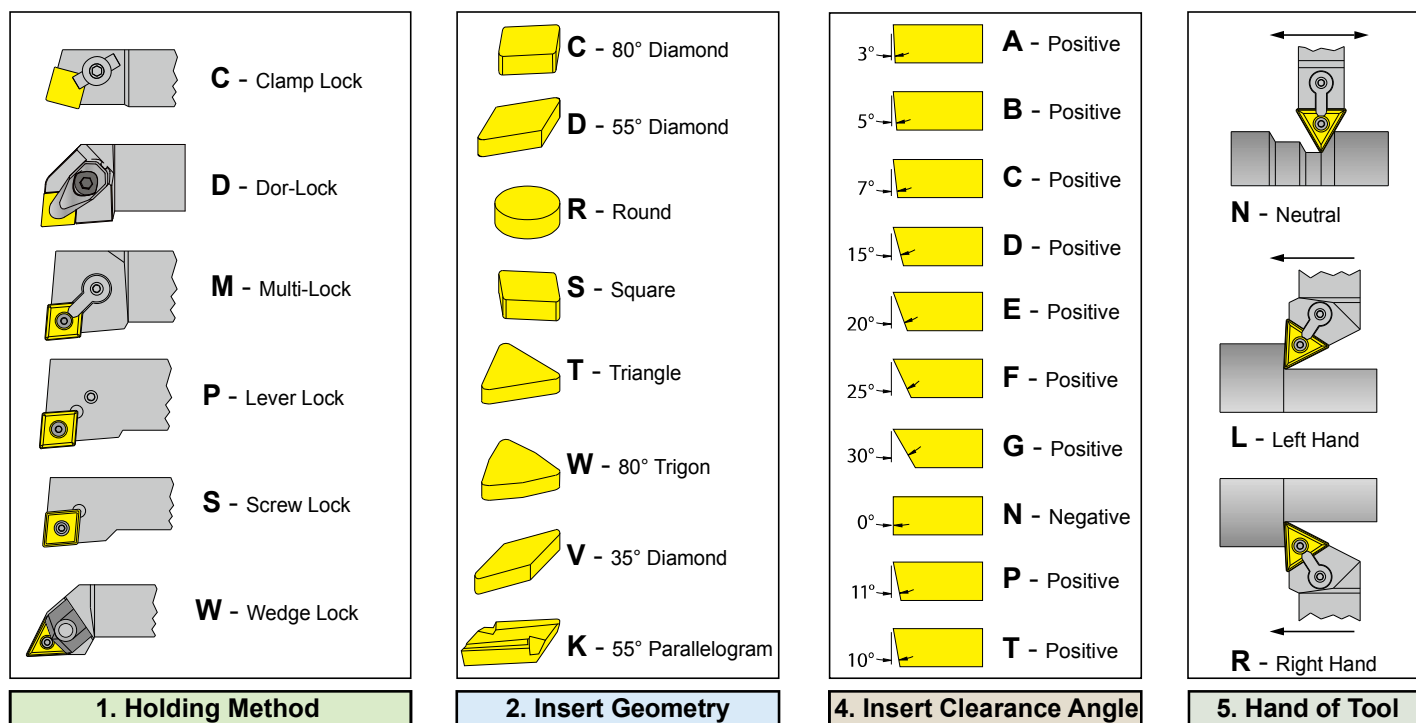
"S" - ISO Screw-Lock Toolholder System Spare Parts



"D" - Dor Lock Toolholder System Spare Parts



Toolholder Identification System

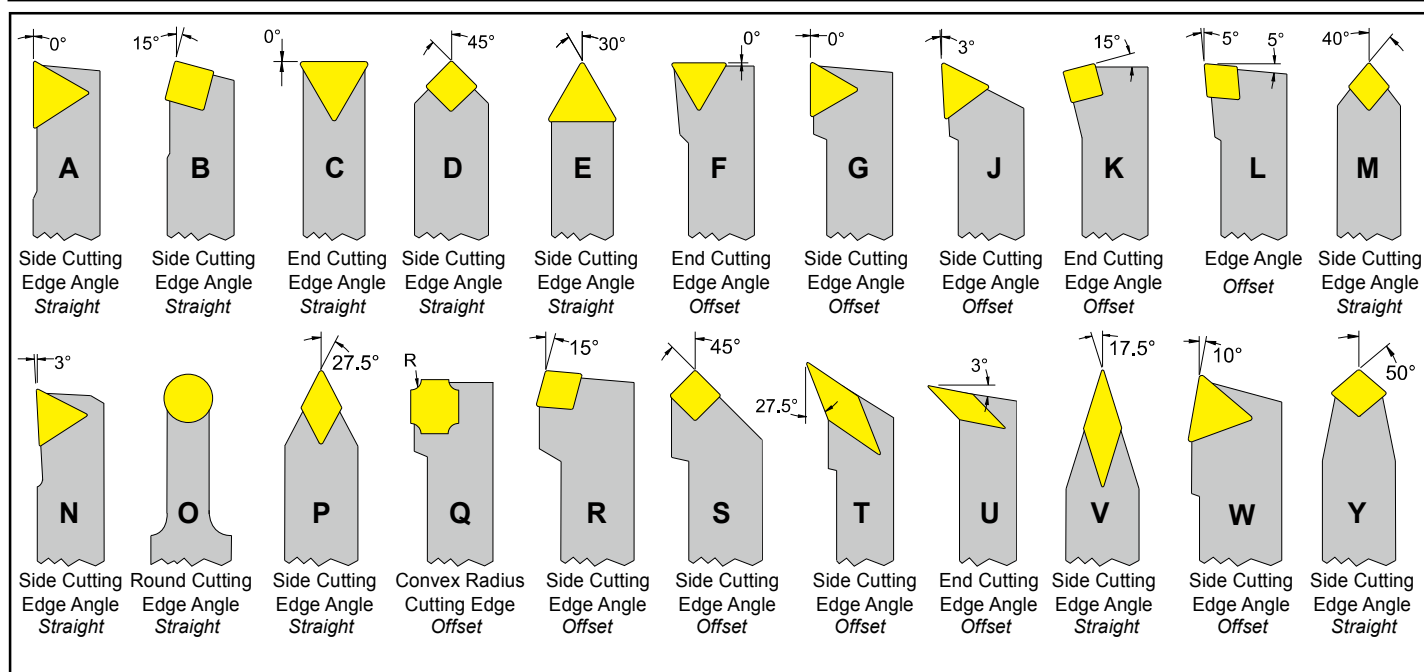


1 2 4 5

M C L N R

3

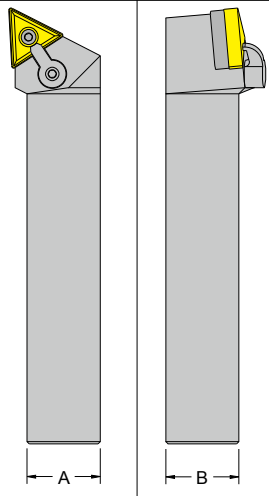
3. Tool Style



Expressed in 1/16" Increments

EX: 16 units (16 x 1/16") = 1" square

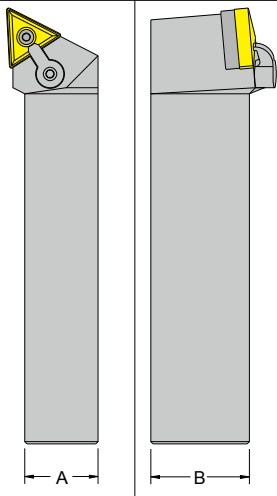
1/2" square and below
will start with a 0. EX: 1/2" = 08



6. Square Size

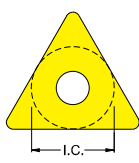
"A" expressed in 1/8" Increments
"B" expressed in 1/4" Increments

EX: 64 (6 x 1/8") & (4 x 1/4") = 3/4" x 1"



7. Rectangle Size

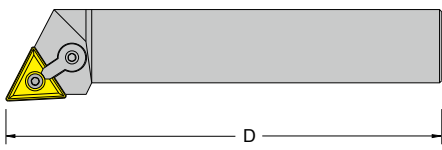
Insert I.C.
(Inscribed Circle):
Measures surface in 1/8" or 1/32"
increments, **1 unit = 1/8"**
EX: 4 units (4 x 1/8") = 1/2"



Note: Old A.N.S.I. standards may apply for
I.C.s under 1/4" (if > 1/4" I.C., 1 unit = 1/32")

8. Insert Size I.C.

J - 3 - 1/2"
A - 4.0"
B - 4 - 1/2"
C - 5.0"
D - 6.0"
E - 7.0"
F - 8.0"



9. Length

7 7

6 **1 6**

6 **25 25**

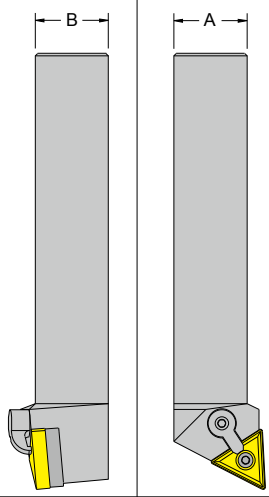
8 9

4 D Inch

8 9

M 16 Metric

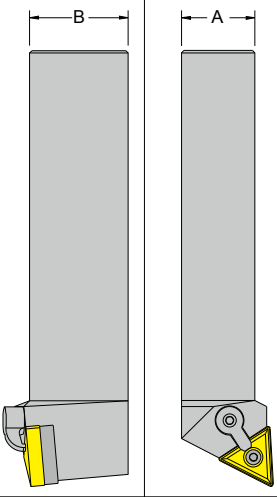
6. Square Size



Expressed in 1mm Increments

EX: 2525 = 25mm square

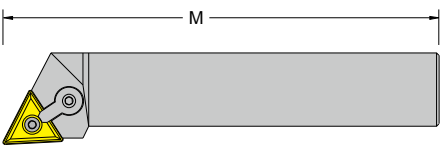
7. Rectangle Size



Expressed in 1mm Increments

EX: 3225 = 32mm height x 25mm width

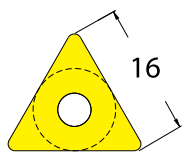
9. Length



D - 60mm
E - 70mm
F - 80mm
H - 100mm
K - 125mm
M - 150mm
P - 170mm

9. Insert Size

Cutting Edge Length
shown in 1mm increments



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