



ANSI STANDARD TOOLHOLDERS

SYMBOL	STYLE	SHANK
A	0° side cutting	Straight
B	15° side cutting	Straight
C	0° end cutting	Straight
D	45° side cutting	Straight
E	30° side cutting	Straight
F	0° end cutting	Offset
G	0° side cutting	Offset
J	-3° side cutting	Offset
K	15° end cutting	Offset
L	5° side & end cutting	Offset
M	40° side cutting	Straight
N	27° side cutting	Straight
R	15° side cutting	Offset
S	45° side cutting	Offset
T	30° side cutting	Offset
U	-3° end cutting	Offset
V	17.5° side cutting	Straight
W	30° end cutting	Offset
X	50° side cutting	Straight

Equal sided inserts	
SYMBOL	IC (in.)
2	1/4
2.5	5/16
3	3/8
4	1/2
5	5/8
6	3/4
7	7/8
8	1
9	1-1/8
10	1-1/4

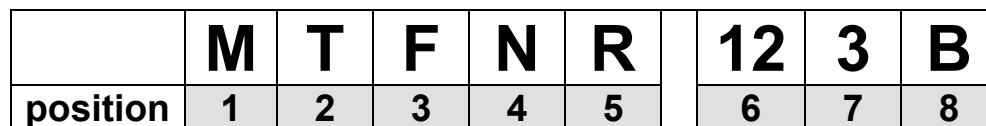
Rectangles & parallelograms	
1 st digit (width) in 1/8" increments	
2 nd digit (length) in 1/4" increments	

SYMBOL	METHOD
C	Clamp only
D	Double insert
M	Clamp and lock pin
S	Screw lock only

1 – INSERT HOLDING METHOD

SYMBOL	HAND
N	Neutral
L	Left
R	Right

5 – HAND



2 – INSERT SHAPE	
SYMBOL	SHAPE
A	85° Parallelogram
B	82° Parallelogram
C	80° Diamond
D	55° Diamond
E	75° Diamond
H	Hexagon
K	55° Parallelogram
L	Rectangle
M	86° Diamond
O	Octagon
P	Pentagon
R	Round
S	Square
T	Triangle
V	35° Diamond
W	80° Trigon

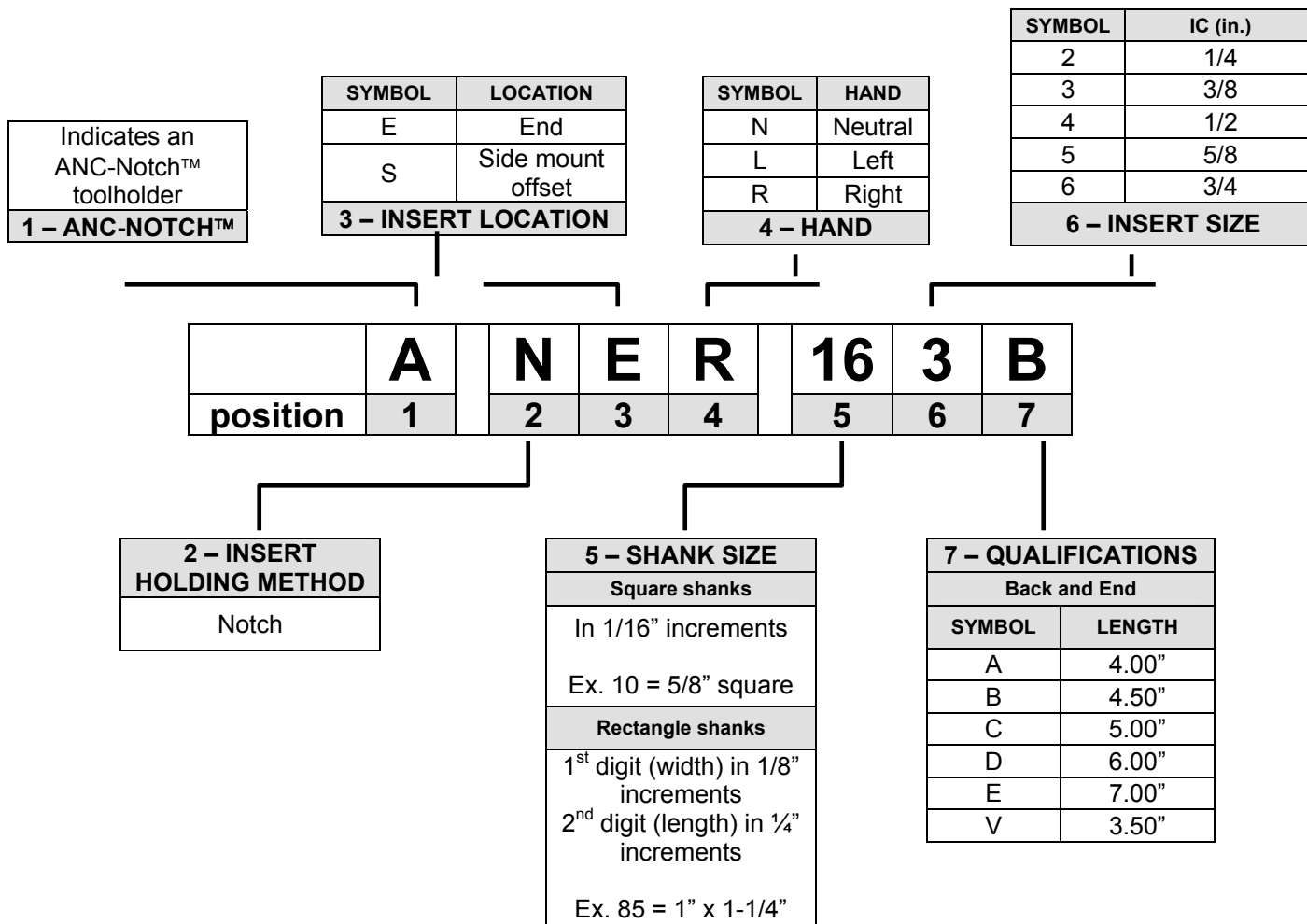
4 – RELIEF ANGLE	
SYMBOL	ANGLE
A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	(0°)
O	Neutral (0°)
P	11°

6 – SHANK SIZE
Square shanks
In 1/16" increments
Ex. 10 = 5/8" square
Ex. 16 = 1" square
Rectangle shanks
1 st digit (width) in 1/8" increments
2 nd digit (length) in 1/4" increments
Ex. 66 = 3/4" x 1-1/2"
Ex. 86 = 1" x 1-1/2"

8 – QUALIFICATIONS	
Back and End	
SYMBOL	LENGTH
A	4.00"
B	4.50"
C	5.00"
D	6.00"
E	7.00"
F	8.00"
G	5.50"
Front and End	
SYMBOL	LENGTH
M	4.00"
N	4.50"
P	5.00"
R	6.00"
S	7.00"
T	8.00"



ANC-NOTCH™ TOOLHOLDERS





Boring Bar Identification System

ANSI STANDARD BORING BARS

A two-digit number which indicates the bar diameter in 1/16" increments

Ex. 08 = 1/2" diameter
Ex. 16 = 1" diameter

2 – BAR DIAMETER

SYMBOL	METHOD
C	Clamp only
P	Lock pin only
M	Clamp and lock pin
S	Screw lock only

4 – INSERT HOLDING METHOD

SYMBOL	STYLE
F	0° end cutting
J	-3° side cutting
K	15° end cutting
L	-5° side & end cutting
Q	-17.5° end cutting
S	45° side cutting
U	-3° end cutting
W	-30° end cutting
Y	5° end cutting

6 – BORING BAR STYLE

Equal sided inserts	
SYMBOL	IC (in.)
2	1/4
2.5	5/16
3	3/8
4	1/2
5	5/8
6	3/4
7	7/8
8	1
9	1-1/8
10	1-1/4

Rectangles & parallelograms
1st digit (width) in 1/8" increments
2nd digit (length) in 1/4" increments

9 – INSERT SIZE

	S	20	S		C	C	L	P	R		4
position	1	2	3		4	5	6	7	8		9

1 – BORING BAR TYPE

SYMBOL	TYPE
A	Solid steel with coolant hole
B	Solid steel with anti-vibration device
C	Carbide with fixed steel head
D	Solid steel with anti-vibration device and coolant hole
E	Carbide with fixed steel head and coolant hole
F	Carbide with fixed steel head and anti-vibration device
G	Carbide with fixed steel head, anti-vibration device and coolant hole
H	Heavy metal
J	Heavy metal with coolant hole
S	Solid steel

3 – BORING BAR LENGTH

SYMBOL	LENGTH (in.)
F	3.00
G	3.50
H	4.00
J	4.50
K	5.00
L	5.50
M	6.00
N	6.50
P	6.75
Q	7.00
R	8.00
S	10.00
T	12.00
U	14.00
V	16.00
W	18.00
Y	20.00
Z	Special

5 – INSERT SHAPE

SYMBOL	SHAPE
A	85° Parallelogram
B	82° Parallelogram
C	80° Diamond
D	55° Diamond
E	75° Diamond
H	Hexagon
K	55° Parallelogram
L	Rectangle
M	86° Diamond
O	Octagon
P	Pentagon
R	Round
S	Square
T	Triangle
V	35° Diamond
W	80° Trigon

8 – HAND

SYMBOL	HAND
L	Left
R	Right

7 – RELIEF ANGLE

SYMBOL	ANGLE
A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	(0°)
P	11°



ANC-NOTCH™ BORING BARS

SYMBOL	TYPE
A	Steel with coolant
S	Steel
C	Carbide
E	Carbide with coolant
1 – BAR TYPE	

SYMBOL	LOCATION
E	End mount
4 – INSERT LOCATION	

SYMBOL	HAND
L	Left
R	Right
5 – HAND	

	A	32	N	E	R	3
position	1	2	3	4	5	6

2 – BAR SIZE
A two-digit number which indicates the bar diameter in 1/16" increments Ex. 32 = 2" bar diameter

3 – INSERT HOLDING METHOD
Notch

6 – INSERT SIZE	
SYMBOL	IC (in.)
2	1/4
3	3/8
4	1/2
5	5/8
6	3/4