

TAPS, MILLS, AND THREAD GAGES

MATERIAL

HSS High Speed Steel	MF Metric Fine Screw Thread Series	ANPT Aeronautical National Form Taper Pipe Thread
HSS EX 3% Vanadium High Speed Steel	UNC Unified Coarse Thread Series	BSPT British Standard Taper Pipe Thread
HSS V M7 High Speed Steel	UNF Unified Fine Thread Series	BSPP British Standard Pipe (Parallel) Thread
MG CARBIDE Micrograin Carbide	UNS Unified Thread - Special	
HSS PM Powder Metal High Speed Steel	NPS Dryseal American Ntl Standard Straight Pipe	

THREAD FORM

NC American National Coarse Thread Series	NPT American Ntl Standard Tapered Pipe Thread
NF American National Fine Thread Series	NPSF Dryseal American Ntl Std Internal Straight Pipe
M Metric Screw Thread Series	NPTF Dryseal American National Standard Taper Pipe Thread
	NPSM American Ntl Std Straight Pipe Thread For Free Fitting Mechanical Joints

USCTI DIMENSION TABLE

302 Standard Tap Dimensions
302A Short Thread Length Tap Dimensions
303 Standard Tap Dimensions Short Length (over 1")
303A Extension Tap Dimensions
311 Pipe Tap Dimensions
337 Standard Metric Tap Dimensions

COATING

AITIN Aluminum Titanium Nitride
TIN Titanium Nitride
BLACK OXIDE Black Oxide
NITRIDE & OXIDE Nitride & Oxide

END MILLS

MATERIAL

HSS High Speed Steel
COBALT Cobalt
HSS PM Power Metal High Speed Steel
MG CARBIDE Micrograin Carbide

FLUTES

2 FLUTE 2 FLUTE
3 FLUTE 3 FLUTE
4 FLUTE 4 FLUTE
5 FLUTE 5 FLUTE

6 FLUTE 6 FLUTE

8 FLUTE 8 FLUTE

HELIX

20° HELIX 20° HELIX

30° HELIX 30° HELIX

40° HELIX 45° HELIX

45° HELIX 45° HELIX

NATIONAL AEROSPACE SPECIFICATION

NAS 986 NAS 986

END TYPE

SINGLE END Single End
DOUBLE END Double End
CC Center Cutting
BALL Ball Nose

COATING

AITIN Aluminum Titanium Nitride
TIN Titanium Nitride

DRILLS

MATERIAL

HSS High Speed Steel
COBALT Cobalt
CARBIDE TIPPED Carbide Tipped
MG CARBIDE Micrograin Carbide

COATING

TiN COATED Titanium Coated

AITIN Aluminum Titanium Nitride

TiN POINT Titanium Nitride Point

DRILL POINT

90° 90° Point

118° 118° Point

118° SPLIT 118° Split Point

118° BLEND 118° Blend Thinned Point

120° 120° Point

130° 130° Point

135° SPLIT 135° Split Point

140° 140° Point

NATIONAL AEROSPACE SPECIFICATION

NAS 907 NAS 907

TREATMENT

BRIGHT Bright

BRIGHT BLACK Bright & Black Oxide

BRONZE OXIDE Bronze Oxide

BLACK OXIDE Black Oxide