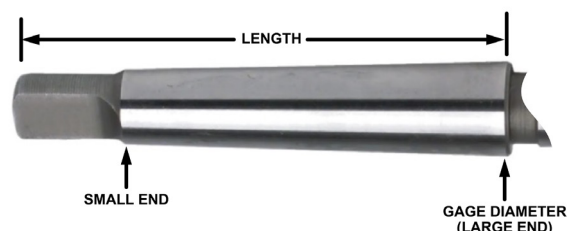
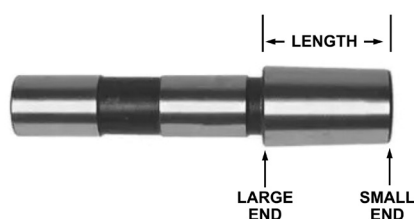


MORSE TAPER SPECIFICATIONS:



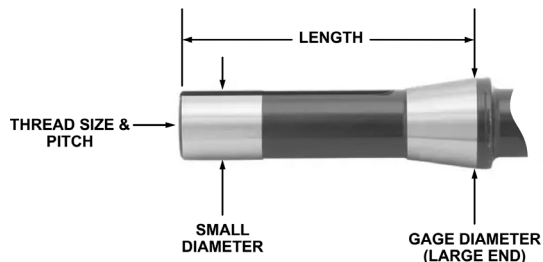
Taper	Large End Diameter	Small End Diameter	Length	Taper/ Foot	Taper/ Inch	Angle From Center
#0	0.3561"	0.2520"	2.00"	.6246"	.0521"	1.4908"
#1	0.4750	0.3690	2.13	.5986	.0499	1.4287
#2	0.7000	0.5720	2.56	.5994	.0500	1.4307
#3	0.9380	0.7780	3.19	.6024	.0502	1.4377
#4	1.2310	1.0200	4.06	.6233	.0519	1.4876
#4-1/2	1.5000	1.2660	4.50	.6240	.0520	1.4894
#5	1.7480	1.4750	5.19	.6315	.0526	1.5073
#6	2.4940	2.1160	7.25	.6257	.0521	1.4933
#7	3.2700	2.7500	10.00	.6240	.0520	1.4894

JACOBS TAPER SPECIFICATIONS:



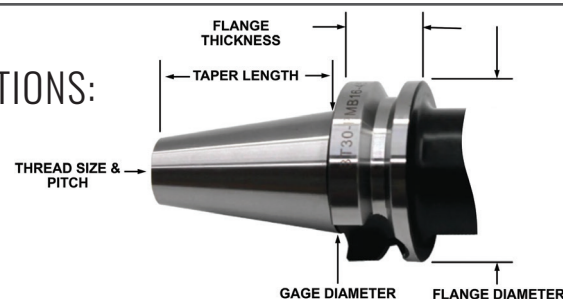
Taper	Large End Diameter	Small End Diameter	Length	Taper/ Foot	Taper/ Inch	Angle From Center
#0	0.2500"	0.2284"	0.44"	.5915"	.0493"	1.4117"
#1	0.3840	0.3334	0.66	.9251	.0771	2.2074
#2	0.5590	0.4876	0.88	.9786	.0816	2.3350
#2 Short	0.5488	0.4876	0.75	.9786	.0816	2.3350
#3	0.8110	0.7461	1.22	.6390	.0532	1.5251
#4	1.1240	1.0372	1.66	.6289	.0524	1.5009
#5	1.4130	1.3161	1.88	.6201	.0517	1.4801
#6	0.6760	0.6241	1.00	.6229	.0519	1.4868
#33	0.6240	0.5605	1.00	.7619	.0635	1.8184

R8 TAPER SPECIFICATIONS:



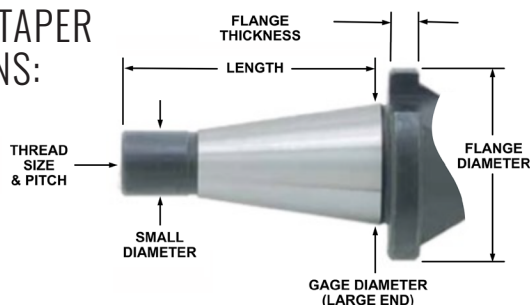
Taper	Gage Diameter	Small Diameter	Length	Thread Size & Pitch
R8	1.250"	0.949"	4.00"	7/16"-20

BT TAPER SPECIFICATIONS:



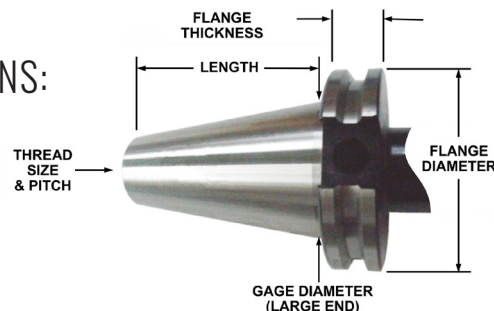
Taper	Gage Diameter	Flange Diameter	Taper Length	Flange Thickness	Thread Size & Pitch
BT30	1.250"	1.811"	1.906"	0.866"	M12 x 1.75
BT40	1.750"	2.480"	2.575"	1.063"	M16 x 2.0
BT50	2.750"	3.937"	4.008"	1.496"	M24 x 3.0

NMTB SHANK TAPER SPECIFICATIONS:



Taper	Gage Diameter	Small Diameter	Flange Diameter	Taper Length	Flange Thickness	Thread Size & Pitch
30	1.250"	0.673"	1.812"	2.690"	0.444"	1/2"-13
40	1.750"	0.984"	2.500"	3.690"	0.313"	5/8"-11
50	2.750"	1.545"	3.500"	5.000"	0.453"	1"-8

CAT TAPER SPECIFICATIONS:



Taper	Gage Diameter	Flange Diameter	Taper Length	Flange Thickness	Thread Size & Pitch
CAT30	1.250"	1.812"	1.875"	0.750"	1/2"-13
CAT40	1.750"	2.500"	2.687"	0.750"	5/8"-11
CAT50	2.750"	3.875"	4.0"	0.750"	1"-8