

TALONGRIP™ PENETRATION TESTING

On 6061 Aluminum



PENETRATION BY ROTATION

6" Vise		4" Vise	
Total Penetration* (in)	Rotation (deg)	Total Penetration* (in)	Rotation (deg)
0.005	12.9	0.005	18.0
0.01	25.7	0.01	36.0
0.015	38.6	0.015	54.0
0.02	51.4	0.02	72.0
0.025	64.3	0.025	90.0
0.03**	77.1	0.03	108.0
0.035	90.0	0.035	126.0
0.04	102.9	0.04	144.0
0.045	115.7	0.045	162.0
0.05	128.6	0.05	180.0
0.055	141.4	0.055	198.0
0.06	154.3	0.06	216.0
0.065	167.1	0.065	234.0
0.07	180.0	0.07	252.0
0.075	192.9	0.075	270.0
0.08	205.7	0.08	288.0
0.085	218.6	0.085	306.0
0.09	231.4	0.09	324.0
0.095	244.3	0.095	342.0
0.1	257.1	0.1	360.0

PENETRATION BY TORQUE

4" Vise					
1 TalonGrip™ per Jaw		2 TalonGrips™ per Jaw		Long Length Gripper	
Total Penetration* (in)	Torque (ft-lbs)	Total Penetration* (in)	Torque (ft-lbs)	Total Penetration* (in)	Torque (ft-lbs)
0.010	6.6	0.010	10.5	0.010	14
0.015	7.8	0.015	12.7	0.015	19
0.020	9.1	0.020	14.9	0.020	25
0.025	10	0.025	17.1	0.025	30
0.030**	11.3	0.030**	18.7	0.030**	36
0.035	11.7	0.035	20.4	0.035	41
0.040	13.6	0.040	22.6	0.040	44
6" Vise					
1 TalonGrip™ per Jaw		2 TalonGrips™ per Jaw			
Total Penetration* (in)	Torque (ft-lbs)	Total Penetration* (in)	Torque (ft-lbs)		
0.010	8.2	0.010	14.5		
0.015	10.1	0.015	18.3		
0.020	11.3	0.020	23.1		
0.025	12	0.025	26.2		
0.030**	13.5	0.030**	29.3		
0.035	14.5	0.035	31.1		
0.040	19.5	0.040	37		
0.045	21.8	0.045	49.6		
0.05	24.6	0.050	50.5		

*Total penetration - penetration per grip will be half value

**Recommended Penetration

