

URETHANE DIE SPRINGS AND PUNCH STRIPPERS



ALL
PRODUCTS
Available In Metric

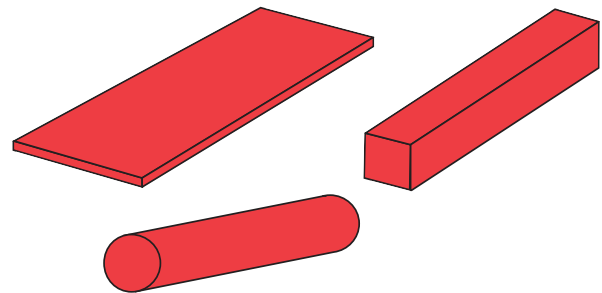
STANDARD 95-A TUBES

I.D.	O.D.	LENGTH	PART #	
3/16	1/16	25"	LUT 1868	
	13/16		MUT 1881	
	15/16		HUT 1893	
1/4	3/4	25"	LUT 2575	
	7/8		MUT 2587	
	1		HUT 2510	
5/16	13/16	25"	LUT 3181	
	15/16		MUT 3193	
	1 1/8		HUT 3111	
3/8	7/8	25"	LUT 3787	
	1		MUT 3710	
	1 1/8		HUT 3711	
1/2	1	25"	LUT 5010	
	1 1/8		MUT 5011	
	1 1/4		HUT 5012	
5/8	1 1/8	25"	LUT 6211	
	1 1/4		MUT 6212	
	1 3/8		HUT 6213	
3/4	1 3/8	25"	LUT 7513	
	1 1/2		MUT 7515	
	1 3/4		HUT 7517	
7/8	1 1/2	25"	LUT 8715	
	1 3/4		MUT 8717	
	2		HUT 8720	
1	1 3/4	25"	LUT 1017	
	2		MUT 1020	
	2 1/2		HUT 1025	
1 1/4	2 1/2	25"	MUT 1225	
1 1/2	2 1/2	25"	MUT 1525	

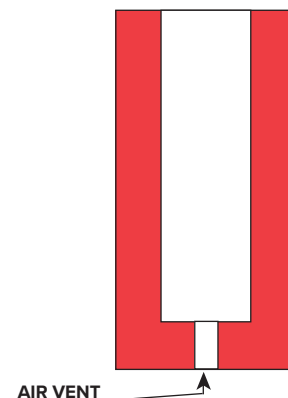
POWERTHANE®

A Product of TOOL MATE

SHEETS • BARS • RODS



Klosed End™



www.toolmatecorp.com

CUT, READY TO USE LENGTHS AND I.D.'S UP TO 4" AVAILABLE

BROCHURE 322

TOOL MATE CORP.

(513) 729-1160 FAX (513) 729-2636
P.O. BOX 53336 CINCINNATI, OHIO 45253

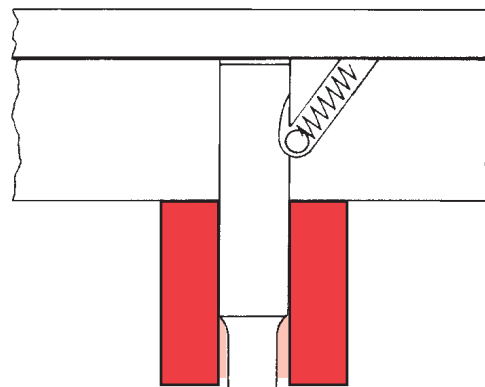
I.D.	O.D.	LENGTH	PART #	LBS. PRESSURE 1/8" DEFLECTION	
3/16	11/16	1	LU 1868-100	300	
		1 1/4	LU 1868-125	250	
		1 1/2	LU 1868-150	225	
		25	LUT 1868		
1/4	3/4	1	LU 2575-100	325	
		1 1/4	LU 2575-125	250	
		1 1/2	LU 2575-150	225	
		1 3/4	LU 2575-175	200	
		25	LUT 2575		
5/16	13/16	1	LU 3181-100	375	
		1 1/4	LU 3181-125	325	
		1 1/2	LI 3181-150	300	
		1 3/4	LU 3181-175	275	
		2	LU 3181-200	250	
3/8	7/8	25	LUT 3181		
		1	LU 3787-100	400	
		1 1/4	LU 3787-125	350	
		1 1/2	LU 3787-150	275	
		1 3/4	LU 3787-175	250	
1/2	1	2	LU 3787-200	225	
		2 1/4	LU 3787-225	215	
		2 1/2	LU 3787-250	200	
		25	LUT 3787		
5/8	1 1/8	1	LU 5010-100	500	
		1 1/4	LU 5010-125	350	
		1 1/2	LU 5010-150	325	
		1 3/4	LU 5010-175	300	
		2	LU 5010-200	275	
3/4	1 3/8	2 1/4	LU 5010-225	250	
		2 1/2	LU 5010-250	225	
		25	LUT 5010		
7/8	1 1/2	1	LU 6211-100	550	
		1 1/4	LU 6211-125	450	
		1 1/2	LU 6211-150	375	
		1 3/4	LU 6211-175	325	
		2	LU 6211-200	300	
1	1 3/4	2 1/4	LU 6211-225	275	
		2 1/2	LU 6211-250	250	
		25	LUT 6211		
1 1/8	1 7/8	1 1/4	LU 7513-125	750	
		1 1/2	LU 7513-150	650	
		1 3/4	LU 7513-175	550	
		2	LU 7513-200	475	
		2 1/4	LU 7513-225	400	
1 1/4	2	2 1/2	LU 7513-250	325	
		2 3/4	LU 7513-275	275	
		3	LU 7513-300	250	
		25	LUT 7513		
1 1/2	2 1/4	1 1/4	LU 8715-125	1100	
		1 1/2	LU 8715-150	950	
		1 3/4	LU 8715-175	875	
		2	LU 8715-200	800	
		2 1/4	LU 8715-225	750	
1 3/4	2 1/2	2 1/2	LU 8715-250	600	
		2 3/4	LU 8715-275	450	
		3	LU 8715-300	375	
		25	LUT 8715		
1 7/8	2 3/4	1 1/4	LU 1017-125	1100	
		1 1/2	LU 1017-150	1000	
		1 3/4	LU 1017-175	800	
		2	LU 1017-200	700	
		2 1/4	LU 1017-225	600	
2	3	2 1/2	LU 1017-250	550	
		2 3/4	LU 1017-275	500	
		3	LU 1017-300	475	
		4	LU 1017-400	400	
		25	LUT 1017		
*1 1/4	2 1/2	25	MUT 1225		
*1 1/2	2 1/2	25	MUT 1525		

Light Pressure

POWERTHANE is available in 3 diameters for each I.D. listed - changing outside diameter changes pressure - the larger the mass deflected the higher the pressure.

POWERTHANE will not mar surface finishes.

POWERTHANE provides an excellent balance of load bearing and memory rate, with a tensile strength of 6800 P.S.I., deflections greater than 25% are not recommended; for optimum life in high speed continuous operations, a 15% deflection is suggested. **Durometer hardness 95 Shore A.**



* Powerthane I.D.'s are wring fit for standard punches, dowels and stripper bolts as approved by American National Standards Institute.

Pressure shown are as free standing when mounted wring fit pressures will be approximately 25% greater.



POWERTHANE'S highest pressures are available with shorter lengths, and greater mass, care should be used to avoid over deflection causing heat build up, shortening wear life.

Pressures are approximate, each additional 1/8" deflection increases pressure 60% up to maximum recommended deflections of 25%.

BROCHURE L322

When ordering specify: Quantity Part # Length
*SEE MEDIUM PRESSURE 8 U4 2 1/4

TOOL MATE CORP.

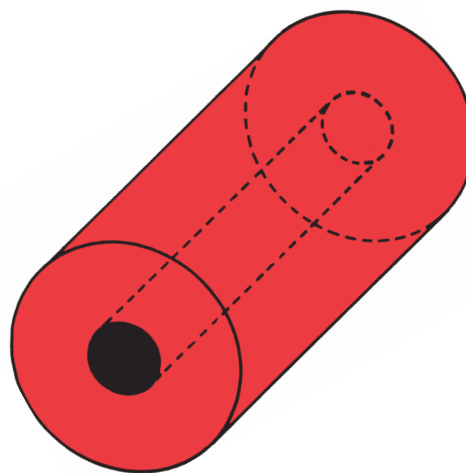
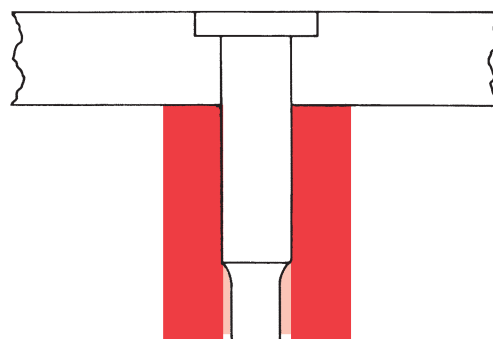
(513) 729-1160 FAX (513) 729-2636
P.O. BOX 53336 CINCINNATI, OHIO 45253

I.D.	O.D.	LENGTH	PART #	LBS. PRESSURE 1/8" DEFLECTION	
3/16	13/16	1	MU 1818-100	425	
		1 1/4	MU 1881-125	375	
		1 1/2	MU 1881-150	325	
		25	MUT 1881		
1/4	7/8	1	MU 2587-100	475	
		1 1/4	MU 2587-125	350	
		1 1/2	MU 2587-150	300	
		1 3/4	MU 2587-175	275	
		25	MUT 2587		
5/16	5/16	1	MU 3193-100	525	
		1 1/4	MU 3193-125	475	
		1 1/2	MU 3193-150	450	
		1 3/4	MU 3193-175	425	
		2	MU 3193-200	400	
		25	MUT 3193		
3/8	1	1	MU 3710-100	575	
		1 1/4	MU 3710-125	475	
		1 1/2	MU 3710-150	400	
		1 3/4	MU 3710-175	325	
		2	MU 3710-200	300	
		2 1/4	MU 3710-225	275	
		2 1/2	MU 3710-250	250	
		25	MUT 3710		
1/2	1 1/8	1	MU 5011-100	675	
		1 1/4	MU 5011-125	600	
		1 1/2	MU 5011-150	475	
		1 3/4	MU 5011-175	425	
		2	MU 5011-200	400	
		2 1/4	MU 5011-225	375	
		2 1/2	MU 5011-250	350	
		25	MUT 5011		
5/8	1 1/4	1	MU 6212-100	800	
		1 1/4	MU 6212-125	650	
		1 1/2	MU 6212-150	525	
		1 3/4	MU 6212-175	425	
		2	MU 6212-200	400	
		2 1/4	MU 6212-225	375	
		2 1/2	MU 6212-250	350	
		25	MUT 6212		
3/4	1 1/2	1 1/4	MU 7515-125	1175	
		1 1/2	MU 7515-150	1000	
		1 3/4	MU 7515-175	850	
		2	MU 7515-200	750	
		2 1/4	MU 7515-225	700	
		2 1/2	MU 7515-250	625	
		2 3/4	MU 7515-275	550	
		3	MU 7515-300	475	
7/8	1 3/4	25	MUT 7515		
		1 1/4	MU 8717-125	1300	
		1 1/2	MU 8717-150	1100	
		1 3/4	MU 8717-175	950	
		2	MU 8717-200	875	
		2 1/4	MU 8717-225	775	
		2 1/2	MU 8717-250	650	
		2 3/4	MU 8717-275	600	
1	2	3	MU 8717-300	475	
		25	MUT 8717		
		1 1/4	MU 1020-125	2400	
		1 1/2	MU 1020-150	2250	
		1 3/4	MU 1020-175	2100	
		2	MU 1020-200	1800	
		2 1/4	MU 1020-225	1500	
		2 1/2	MU 1020-250	1300	
1 1/4	2 1/2	2 3/4	MU 1020-275	1000	
		3	MU 1020-300	800	
		25	MUT 1020		
		1 1/4	MU 1225-125	2500	
		1 1/2	MU 1225-150	2400	
		1 3/4	MU 1225-175	2300	
		2	MU 1225-200	2100	
		2 1/4	MU 1225-225	1900	
1 1/2	2 1/2	2 1/2	MU 1225-250	1600	
		2 3/4	MU 1225-275	1300	
		3	MU 1225-300	1100	
		25	MUT 1225		
		1 1/4	MU 1525-125	1700	
		1 1/2	MU 1525-150	1525	
		1 3/4	MU 1525-175	1300	
		2	MU 1525-200	1175	
1 1/2	2 1/2	2 1/4	MU 1525-225	1050	
		2 1/2	MU 1525-250	975	
		2 3/4	MU 1525-275	925	
		3	MU 1525-300	875	
		25	MUT 1525		

Medium Pressure

POWERTHANE Durometer hardness 95 Shore A.

POWERTHANE®
A PRODUCT OF
TOOL MATE



POWERTHANE tubes are available without delay in 25" lengths – listed cut lengths – special cut lengths.

POWERTHANE is easily sliced to length, for bandsawing a high tension carbon blade with a raker set at a maximum of 1800 ft./mn. is suggested; for lathe cuts use HSS tool bits with 10" positive rake at 800 surface ft./min., to maintain die balance keep ends square, rotating tubes while cutting will facilitate square cuts.

When Ordering Specify Quantity and Part Number.
BROCHURE M322

TOOL MATE CORP.

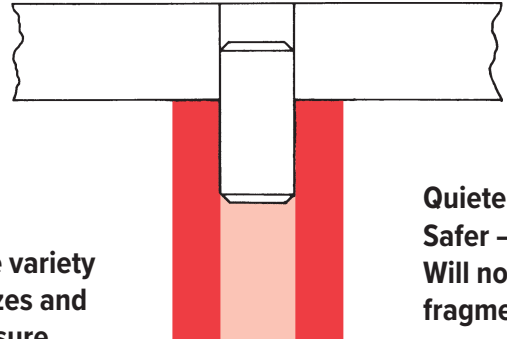
(513) 729-1160 FAX (513) 729-2636
P.O. BOX 53336 CINCINNATI, OHIO 45253

I.D.	O.D.	LENGTH	PART #	LBS. PRESSURE 1/8" DEFLECTION	
3/16	13/16	1	HU 1893-100	775	
		1 1/4	HU 1893-125	650	
		1 1/2	HU 1893-150	525	
		25	HUT 1893		
1/4	1	1	HU 2510-100	700	
		1 1/4	HU 2510-125	550	
		1 1/2	HU 2510-150	400	
		1 3/4	HU 2510-175	350	
		25	HUT 2510		
5/16	1 1/8	1	HU 3111-100	800	
		1 1/4	HU 3111-125	600	
		1 1/2	HU 3111-150	575	
		1 3/4	HU 3111-175	525	
		2	HU 3111-200	475	
		25	HUT 3111		
3/8	1 1/8	1	HU 3711-100	800	
		1 1/4	HU 3711-125	600	
		1 1/2	HU 3711-150	525	
		1 3/4	HU 3711-175	475	
		2	HU 3711-200	425	
		2 1/4	HU 3711-225	375	
		2 1/2	HU 3711-250	325	
		25	HUT 3711		
1/2	1 1/4	1	HU 5012-100	875	
		1 1/4	HU 5012-125	700	
		1 1/2	HU 5012-150	550	
		1 3/4	HU 5012-175	500	
		2	HU 5012-200	475	
		2 1/4	HU 5012-225	450	
		2 1/2	HU 5012-250	400	
		25	HUT 5012		
5/8	1 3/8	1	HU 6213-100	900	
		1 1/4	HU 6213-125	825	
		1 1/2	HU 6213-150	750	
		1 3/4	HU 6213-175	550	
		2	HU 6213-200	500	
		2 1/4	HU 6213-225	450	
		2 1/2	HU 6213-250	425	
		25	HUT 6213		
3/4	1 3/4	1 1/4	HU 7517-125	1400	
		1 1/2	HU 7517-150	1200	
		1 3/4	HU 7517-175	1000	
		2	HU 7517-200	900	
		2 1/4	HU 7517-225	800	
		2 1/2	HU 7517-250	700	
		2 3/4	HU 7517-275	650	
		3	HU 7517-300	600	
		25	HUT 7517		
7/8	2	1 1/4	HU 8720-125	1600	
		1 1/2	HU 8720-150	1300	
		1 3/4	HU 8720-175	1150	
		2	HU 8720-200	1000	
		2 1/4	HU 8720-225	900	
		2 1/2	HU 8720-250	800	
		2 3/4	HU 8720-275	700	
		3	HU 8720-300	600	
		25	HUT 8720		
1	2 1/2	1 1/4	HU 1025-125	2600	
		1 1/2	HU 1025-150	2400	
		1 3/4	HU 1025-175	2250	
		2	HU 1025-200	2000	
		2 1/4	HU 1025-225	1800	
		2 1/2	HU 1025-250	1500	
		2 3/4	HU 1025-275	1200	
		3	HU 1025-300	1000	
		4	HU 1025-400	800	
		25	HUT 1025		
*1 1/4	2 1/2	25	MUT 1225		
*1 1/2	2 1/2	25	MUT 1525		

Heavy Pressure

POWERTHANE is available in 3 diameters for each I.D. listed - changing outside diameter changes pressure - the larger the mass deflected the higher the pressure.

Durometer hardness 95 Shore A.



Wide variety
of sizes and
pressure
available

Absorbs shock

POWERTHANE tubes are available without delay in 25" lengths - listed cut lengths - special cut lengths.

Pressure shown are as free
standing when mounted
wring fit pressures will be
approximately 25% greater.

POWERTHANE highest pressures are available with shorter lengths, and greater mass, care should be used to avoid over deflection causing heat build up, shortening wear life.

Pressures are approximate, each
additional 1/8" deflection increases
pressure 60% up to maximum
recommended deflections of 25%.



BROCHURE H322

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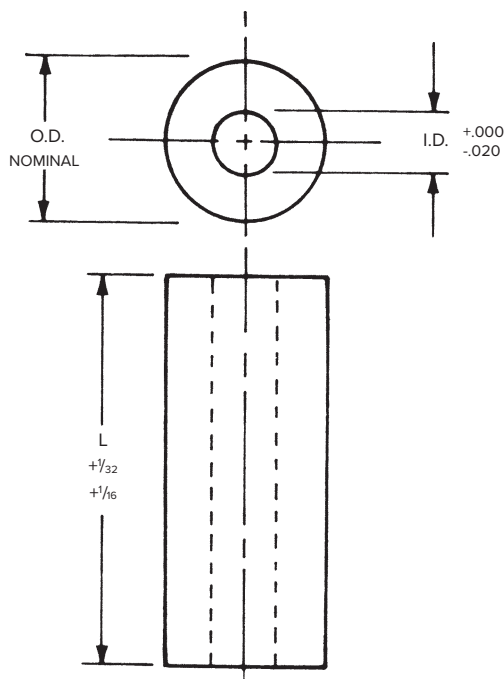
TOOL MATE CORP.

(513) 729-1160 FAX (513) 729-2636
P.O. BOX 53336 CINCINNATI, OHIO 45253

CLEAR URETHANE

PUNCH STRIPPERS DIE SPRINGS

"U" Stripper/Springs are pure **uncolored 90 A durometer** urethane with 30% maximum deflection.



I.D.'s are wring fit for standard punches – dowels-stripper bolts etc.

Pressure shown are as free standing when mounted wring fit pressures will be approximately 25% greater.

Urethane deflects but does not compress, spacing consideration should allow for expansion equal to deflection.

Clear 90 A durometer urethane stripper/springs offer more travel (deflection) 30% maximum – visible quality check.

A PRODUCT OF TOOLMATE

PART #	LENGTH L		I.D.	O.D.	LOAD POUNDS TO DEFLECT			
					1/8	1/4	3/8	1/2
U 1	1 1/4		3/16	11/16	125	230	400	–
	1 1/2				120	225	390	–
	T 25				–	–	–	–
U 2	1 1/4		1/4	3/4	135	250	420	–
	1 1/2				120	240	380	–
	1 3/4				125	230	345	–
	2				115	215	300	–
	2 1/4				110	200	270	–
	T 25				–	–	–	–
U 3	1 1/4		5/16	13/16	160	300	500	–
	1 1/2				150	280	445	–
	1 3/4				140	260	390	–
	2				135	240	350	–
	2 1/4				125	220	310	–
	T 25				–	–	–	–
U 4	1 1/4		3/8	7/8	170	320	510	–
	1 1/2				160	310	475	–
	1 3/4				150	290	440	–
	2				140	260	390	–
	2 1/4				130	225	350	–
	T 25				–	–	–	–
U 5	1 1/4		1/2	1	205	370	550	–
	1 1/2				195	355	520	–
	1 3/4				180	335	480	–
	2				165	305	440	–
	2 1/4				150	270	395	520
	2 1/2				140	240	350	490
U 6	T 25				–	–	–	–
	1 1/4		5/8	1 1/8	240	420	610	–
	1 1/2				235	410	600	–
	1 3/4				230	400	590	–
	2				225	390	575	–
	2 1/4				220	375	550	790
U 7	2 1/2				205	360	525	760
	T 25				–	–	–	–
	1 1/2		3/4	1 3/8	380	675	950	–
	1 3/4				360	645	920	–
	2				340	610	885	–
	2 1/4				320	575	810	1150
	2 1/2				275	525	735	1070
	2 3/4				240	475	670	980
U 8	3				210	410	600	875
	T 25				–	–	–	–
	1 1/2		7/8	1 5/8	480	870	1260	–
	1 3/4				470	850	1240	–
	2				450	825	1210	–
	2 1/4				440	800	1175	1660
	2 1/2				425	770	1120	1600
	2 3/4				410	740	1075	1525
U 9	3				395	705	1025	1430
	T 25				–	–	–	–
	1 1/2		1	1 3/4	570	980	1400	–
	1 3/4				550	970	1385	–
	2				530	955	1370	–
	2 1/4				510	930	1345	1850
	2 1/2				485	900	1315	1800
	2 3/4				465	865	1275	1745
U 9	3				440	820	1235	1675
	T 25				–	–	–	–

When ordering specify: Quantity 8 Part # U4 Length 2 1/4



Prices listed are for standard hardness of 90 Shore A durometer

BROCHURE U322

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TOOL MATE CORP.

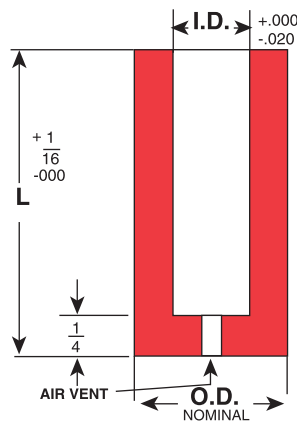
(513) 729-1160 FAX (513) 729-2636
P.O. BOX 53336 CINCINNATI, OHIO 45253

KLOSED END™

PUNCH STRIPPERS

KLOSED END™ urethane strippers are shaped to suit the punch point by closing the die – without the material – the point and the die cavity provide the shearing action to shape the **KLOSED END™**.

SPECIAL SIZES AND METRICS AVAILABLE



**WE SHIP
98%
SAME DAY
FROM STOCK**

KLOSED END™ strippers provide stripping action directly around the punch point, dampening shock and vibration.

POWERTHANE®

POWERTHANE provides an excellent balance of load bearing and memory rate, with a tensile strength of 6800 P.S.I., deflections greater than 25% are not recommended; for optimum life in high speed continuous operations, a 15% deflection is suggested. **Durometer hardness 95 Shore A.**

**ISO 9002:1994
COMPLIANT**



BROCHURE K322



PART #	I.D.	O.D.	LENGTH L	APPROXIMATE PRESSURE AVAILABLE AT DEFLECTION OF		
				1/8	1/4	3/8
K 18-125	3/16	11/16	1 1/4	275	440	—
K 18-150			1 1/2	250	400	—
K 18-175			1 3/4	225	375	—
K 25-125	1/4	3/4	1 1/4	310	500	—
K 25-150			1 1/2	300	490	—
K 25-175			1 3/4	250	400	520
K 25-200			2	240	380	510
K 31-125	5/16	13/16	1 1/4	350	540	—
K 31-150			1 1/2	325	475	—
K 31-175			1 3/4	320	450	720
K 31-200			2	260	390	600
K 31-225			2 1/4	230	370	590
K 37-125	3/8	7/8	1 1/4	470	725	—
K 37-150			1 1/2	420	700	—
K 37-175			1 3/4	390	640	775
K 37-200			2	360	600	725
K 37-225			2 1/4	330	520	680
K 50-125	1/2	1	1 1/4	575	830	—
K 50-150			1 1/2	510	780	—
K 50-175			1 3/4	480	720	940
K 50-200			2	370	560	685
K 50-225			2 1/4	320	520	640
K 50-250			2 1/2	300	480	600
K 62-125	5/8	1 1/8	1 1/4	670	970	—
K 62-150			1 1/2	565	885	—
K 62-175			1 3/4	530	830	1040
K 62-200			2	480	780	980
K 62-225			2 1/4	440	720	900
K 75-175	3/4	1 1/2	1 3/4	560	860	1260
K 75-200			2	450	750	1100
K 75-225			2 1/4	390	690	1050
K 75-250			2 1/2	350	650	1000
K 75-275			2 3/4	340	640	950
K 75-300			3	320	510	820
K 87-175	7/8	1 3/4	1 3/4	1600	2300	3500
K 87-200			2	1350	2050	3000
K 87-225			2 1/4	1325	2025	2700
K 87-250			2 1/2	1000	1700	2100
K 87-275			2 3/4	950	1650	1950
K 87-300			3	850	1450	1850
K 100-175	1	2	1 3/4	2100	3100	3600
K 100-200			2	1750	2700	3500
K 100-225			2 1/4	1550	2400	3300
K 100-250			2 1/2	1350	2100	3100
K 100-275			2 3/4	1100	1900	2900
K 100-300			3	950	1500	2400

TOOL MATE CORP.

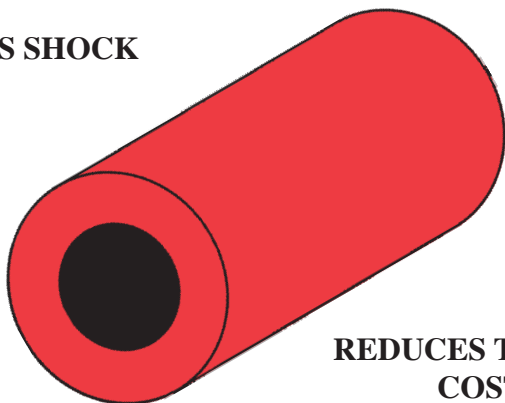
(513) 729-1160 FAX (513) 729-2636
P.O. BOX 53336 CINCINNATI, OHIO 45253

LARGE POWERTHANE®

- PUNCH STRIPPERS
- DIE SPRINGS

POWERTHANE is a select group of polyurethane formulations meeting the high energy storing flexing requirements of the tool and die industry. **Prices listed are for standard hardness 90 shore A durometer** – widely used for most general applications – tensile strength 5700 P.S.I. – maximum recommended deflection 30%.

ABSORBS SHOCK



**REDUCES TOOLING
COSTS**

SPECIAL SIZES & DUROMETERS AVAILABLE

POWERTHANE is easily sliced to length, for bandsawing a high tension carbon blade with a rake set at a maximum of 1800 ft./mn. is suggested; for lathe cuts use HSS tool bits with 10° positive rake at 800 surface ft./mn., to maintain die balance keep ends square, rotating tubes while cutting will facilitate square cuts.

POWERTHANE deflects but does not compress, spacing consideration should allow for expansion equal to deflection.

POWERTHANE's highest pressures are available with shorter lengths, and greater mass, care should be used to avoid over deflection causing heat build up, shortening wear life.



POWERTHANE I.D.'s are wring fit for standard punches, dowels and stripper bolts as approved by ANSI.

www.toolmatecorp.com

PART #	LENGTH L	I.D.	O.D.	LOAD POUNDS TO DEFLECT	
				1/8"	1/4"
P 150	1 1/2	1 1/2	3	2100	3300
	1 3/4			1950	3100
	2			1700	2700
	2 1/4			1500	2400
	2 1/2			1350	2100
	3			1100	1800
P 150	25"			—	—
P 175	1 1/2	1 3/4	3 1/4	2300	3700
	1 3/4			2150	3400
	2			2000	3200
	2 1/4			1800	2900
	2 1/2			1550	2500
	3			1300	2100
P 175	25"			—	—
P 200	1 1/2	2	3 1/2	2400	3900
	1 3/4			2250	3600
	2			2100	3400
	2 1/4			1900	3100
	2 1/2			1650	2700
	3			1400	2300
P 200	25"			—	—
P 225	1 1/2	2 1/4	4	2550	4100
	1 3/4			2400	3900
	2			2250	3600
	2 1/4			2050	3300
	2 1/2			1800	2900
	3			1800	2900
P 225	25"			—	—
P 250	1 1/2	2 1/2	4 1/2	2700	4300
	1 3/4			2600	4100
	2			2450	3900
	2 1/4			2350	3700
	2 1/2			2100	3400
	3			1850	3000
P 250	25"			—	—
P 300	1 1/2	3	5	2700	4300
	1 3/4			2600	4200
	2			2450	4000
	2 1/4			2350	3800
	2 1/2			2100	3400
	3			1850	3000
P 300	25"			—	—
P 400	1 1/2	4	5 1/2	2550	4100
	1 3/4			2400	3800
	2			2250	3600
	2 1/4			2050	3300
	2 1/2			1800	2900
	3			1550	2500
P 400	25"			—	—

Pressures are approximate, each additional 1/8" deflection increases pressure 60% up to maximum recommend deflection of 30%.

**ISO 9002:1994
COMPLIANT**

When ordering specify: Quantity 5 Part # PT 150



BROCHURE P322

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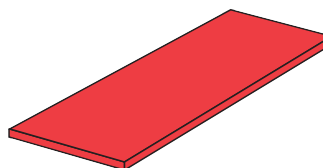
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RODS, SLABS, BARS

A PRODUCT OF
TOOL MATE

POWERTHANE®

SLABS – PADS



SIZE	THICKNESS											
	¼	3/8	½	5/8	¾	1	1 ¼	1 ½	2	2 ½	3	4
6 x 6	●	●	●	●	●	●	●	●	●	●	●	●
6 x 12	●	●	●	●	●	●	●	●	●	●	●	●
6 x 18	●	●	●	●	●	●	●	●	●	●	●	●
6 x 24	●	●	●	●	●	●	●	●	●	●	●	●
12 x 12	●	●	●	●	●	●	●	●	●	●	●	●
12 x 18	●	●	●	●	●	●	●	●	●	●	●	●
12 x 24	●	●	●	●	●	●	●	●	●	●	●	●
18 x 18	●	●	●	●	●	●	●	●	●	●	●	●
18 x 24	●	●	●	●	●	●	●	●	●	●	●	●
24 x 24	●	●	●	●	●	●	●	●	●	●	●	●

Call For A Quote
And Availability

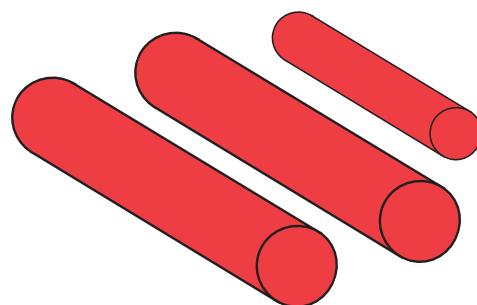
POWERTHANE – PADS – RODS – BARS

Prices listed for standard **90-A durometer** - widely used for most applications - tensile strength 5700 PSI – maximum deflection 30%.

Special sizes and durometers (70-A through 95-A) available.

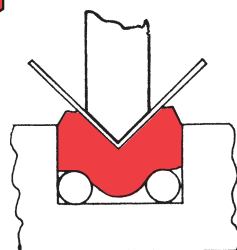
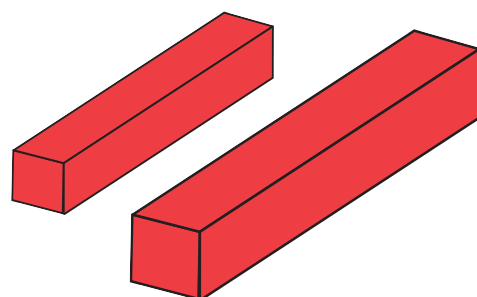
Fax Tool-Free for Quote 1-877-866-5628

www.toolmatecorp.com



ROUND SOLID RODS

DIAMETER	LENGTH	
	12 ½"	25"
3/8"	●	●
1/2"	●	●
5/8"	●	●
3/4"	●	●
7/8"	●	●
1"	●	●
1 1/8"	●	●
1 1/4"	●	●
1 3/8"	●	●
1 1/2"	●	●
1 3/4"	●	●
2"	●	●
2 1/4"	●	●
2 1/2"	●	●
2 3/4"	●	●
3"	●	●
3 1/4"	●	●
3 1/2"	●	●
3 3/4"	●	●
4"	●	●
4 1/4"	●	●
4 1/2"	●	●
5"	●	●
5 1/2"	●	●
6"	●	●



SOLID BARS

SIZE	THICKNESS			
	12"	24"	36"	48"
1 x 1	●	●	●	●
1 x 2	●	●	●	●
1 x 3	●	●	●	●
1 x 4	●	●	●	●
2 x 2	●	●	●	●
2 x 3	●	●	●	●
2 x 4	●	●	●	●
2 x 6	●	●	●	●
3 x 3	●	●	●	●
3 x 4	●	●	●	●
4 x 4	●	●	●	●

BROCHURE 322

TOOL MATE CORP.

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TOOL MATE CORPORATION

POWERTHANE[®] XTRA[™]

URETHANE TUBES & DIE SPRINGS

XTRA STRENGTH ~ XTRA PRESSURE

POWERTHANE[®]

is formulated from a select group of elastomers and is designed to meet the demands of the Tool, Die & Metal forming industries.

Standard hardness, 95-A durometer, provides **xcellent** load bearing and cut, abrasion, tear and wear resistance.

Tensile is 6800 P.S.I.

Optimum deflection is 15%

Maximum deflection is 25%

Special sizes and durometers available, phone/fax for quote

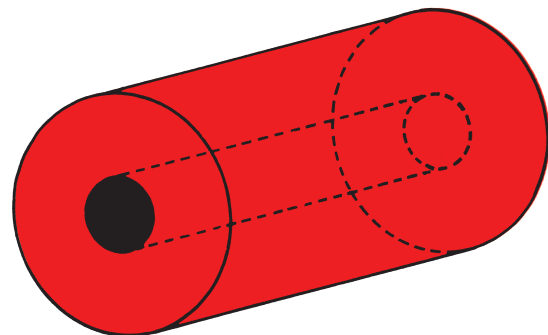
**WE SHIP 98%
SAME DAY FROM
STOCK**

**ISO 9002:1994
COMPLIANT**

BROCHURE X607

PART #	ID	OD	LENGTH	
XHUT 2512	1/4	1 1/4	25"	
XHUT 3113	5/16	1 3/8	25"	
XHUT 3712	3/8	1 1/4	25"	
XHUT 3715	3/8	1 1/2	25"	
XHUT 5015	1/2	1 1/2	25"	
XHUT 5017	1/2	1 3/4	25"	
XHUT 5020	1/2	2"	25"	
XHUT 6215	5/8	1 1/2	25"	
XHUT 6220	5/8	2"	25"	
XHUT 7520	3/4	2"	25"	
XHUT 7525	3/4	2 1/2	25"	
XHUT 8725	7/8	2 1/2	25"	
XHUT 8730	7/8	3"	25"	
XHUT 1030	1"	3"	25"	
XHUT 1035	1"	3 1/2	25"	

Prices listed are for standard hardness of 95 Shore A durometer.



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**PADS, RODS, BARS
AVAILABLE**



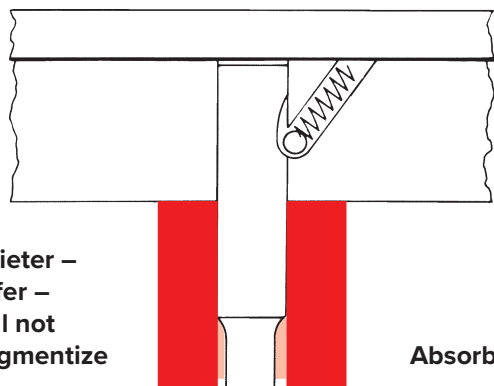
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URETHANE PUNCH STRIPPERS DIE SPRINGS

POWERTHANE provides an excellent balance of load bearing and memory rate, with a tensile strength of 6800 P.S.I., deflections greater than 25% are not recommended, for optimum life in high speed continuous operations, a 15% deflection is suggested. Durometer hardness **95 Shore A**.

*Powerthane I.D.'s are wring fit for standard punches, dowels and stripper bolts.



POWERTHANE'S pressures shown are as free standing when mounted w/ing fit pressures will be approximately 25% greater, each additional 3mm deflection increases pressure 60% up to maximum recommended deflections of 25%.

POWERTHANE deflects but does not compress, spacing consideration should allow for expansion equal to deflection.

CONVERSIONS:

MM to inch x .03937
Inch to MM x 25.4

Solid rods – Sheets – Squares and other tubular sizes available – Price on request.



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**A PRODUCT OF
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POWERTHANE'S ready to use lengths are available at standard price in ranges shown.

Part #	Standard Lengths	I.D.	O.D.	
MP 5	30mm - 45mm	5mm	18mm	
MP 5	46mm - 60mm			
MP 5	61mm - 75mm			
MPT 5	T635mm			
MP 6	30mm - 45mm	6mm	19mm	
MP 6	46mm - 60mm			
MP 6	61mm - 75mm			
MPT 6	T635mm			
MP 8	30mm - 45mm	8mm	21mm	
MP 8	46mm - 60mm			
MP 8	61mm - 75mm			
MPT 8	T635mm			
MP 10	30mm - 45mm	10mm	23mm	
MP 10	46mm - 60mm			
MP 10	61mm - 75mm			
MPT 10	T635mm			
MP 13	30mm - 45mm	13mm	26mm	
MP 13	46mm - 60mm			
MP 13	61mm - 75mm			
MPT 13	T635mm			
MP 16	30mm - 45mm	16mm	30mm	
MP 16	46mm - 60mm			
MP 16	61mm - 75mm			
MPT 16	T635mm			
MP 20	30mm - 45mm	20mm	38mm	
MP 20	46mm - 60mm			
MP 20	61mm - 75mm			
MPT 20	T635mm			
MP 25	30mm - 45mm	25mm	50mm	
MP 25	46mm - 60mm			
MP 25	61mm - 75mm			
MPT 25	T635mm			
MP 32	30mm - 45mm	32mm	60mm	
MP 32	46mm - 60mm			
MP 32	61mm - 75mm			
MPT 32	T635mm			
MP 38	30mm - 45mm	38mm	60mm	
MP 38	46mm - 60mm			
MP 38	61mm - 75mm			
MPT 38	T635mm			

Prices listed are for standard hardness of 95 Shore A durometer.

When ordering specify:	Quantity	Part #	Length
	6	MP 10 x	38mm

Brochure E818



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