

Shock Absorption Stoppers

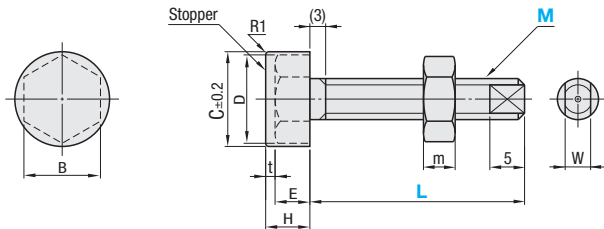
Bolts / Hex Socket Head Cap Screws with Low Elastic Rubber Head

Bolts with Low Elastic Rubber Head



Type	Stopper	Screw	Hex Nut
	Material	Hardness	Material
UNST	Low Elastic Rubber (Hanenaito® RGP-60L)	Shore A57	304 Stainless Steel

Hanenaito® is a registered trademark of Naigai Rubber Industry Co., Ltd.



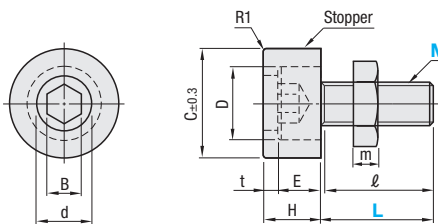
Part Number	Type	M (Coarse)	L	t	C	D	B	H	E	Shock Absorption Amount (kgf-cm)	Withstand Load (kgf)	m	W	Unit Price
UNST	3	10	15	20	4	8	6.15	5.5	6	2	0.045	2.2	1.8	2
	4	10	15	20	4.2	10	7.7	7	7	2.8	0.069	3.4	2.4	3
	5		20	30	4.5	12	8.8	8	8	3.5	0.112	5.4	3.2	4
	6		20	30	5	15	11.1	10	9	4	0.207	9.4	3.6	4.5
	8		30	40	5.7	18	14.4	13	11	5.3	0.350	14.2	5	6.5
	10		30	40	5.6	21	17.8	16	12	6.4	0.517	23.4	6	8

Hex Socket Head Cap Screws with Low Elastic Rubber Head



Type	Stopper	Screw	Hex Nut
	Material	Hardness	Material
UNSTH	Low Elastic Rubber (Hanenaito® RGP-60L)	Shore A57	304 Stainless Steel

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Part Number	Type	M (Coarse)	L	t	C	D	d	B	H	E	Shock Absorption Amount (kgf-cm)	Withstand Load (kgf)	m	l	Unit Price
UNSTH	4	10	15	20	4.2	11	7	5	3	8.2	4	0.055	2.4	3.2	Full Thread(22)
	5		15	20	4.5	13	8.5	7	4	9.5	5	0.072	3.0	4	Full Thread
	6		15	20	5	18	10	8	5	11	6	0.197	7.4	5	Full Thread(26)
	8		25	30	5.7	20	13	9	6	13.7	8	0.272	8.8	6.5	Full Thread
	10		30	40	5.6	25	16	12	8	15.6	10	0.444	14.4	8	Full Thread(34)
			30	40											

l dimension for *marked L dimension is in ().

Part Number	-	L
UNST8	-	40
UNSTH4	-	20



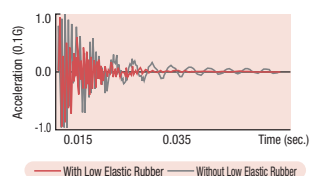
Configure Online



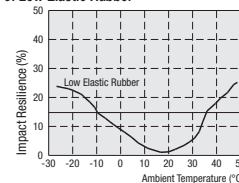
Configure Online

Material with Excellent Shock Absorption

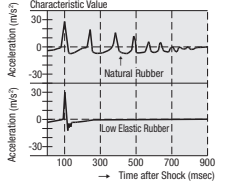
Low Elastic Rubber
It is used as a cushioning material for pallet damper, conveyor machine, precision instrument etc, because of its good elongation and shock absorption. Also it is used as vibration absorption materials for various precision instruments because of its excellent vibration absorption.



Impact Resilience Variation by Temperature of Low Elastic Rubber



Shock Absorption of Low Elastic Rubber

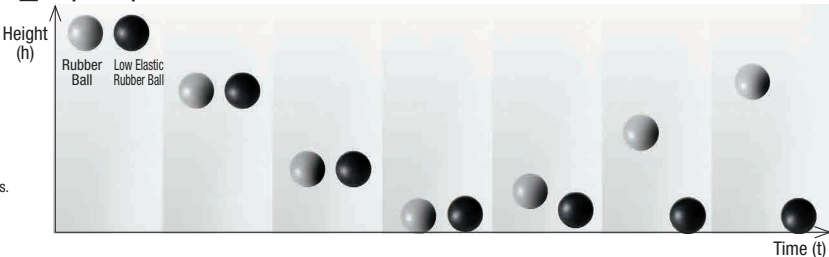


Properties

Item	Unit	Low Elastic Rubber
Hardness	(JIS-A)	57
Tensile Strength	(MPa)	8.3
(Same as above)	(kgf/cm²)	85
Elongation	(%)	810
Impact Resilience	(%)	2
Compression Set	70°Cx22hr (%)	16
Specific Gravity		1.35

Above data are standard values, not guaranteed values.

Drop Comparison of Rubber Ball and Low Elastic Rubber Ball



Washers, Stoppers with Plates

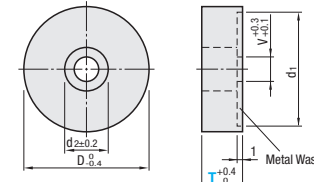
Urethane Type / Low Elastic Rubber Type

Urethane Type Washers

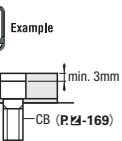


Urethane is baked on a 304 Stainless Steel plate.

Type	Urethane	Washer
	Material	Hardness
UPWH	Ether Polyurethane (Black)	Shore A90



Part Number	Type	No.	T	D	d1	d2	V	Unit Price
UPWH	3	7	15	14	6	3		
	4	8	20	19	8	4		
	5	9	25	24	9.5	5		
	6	10	30	29	11	6		
	8	12	40	39	14	8		
	10	14	50	49	17	10		
		15						
		20						
		25						
		30						

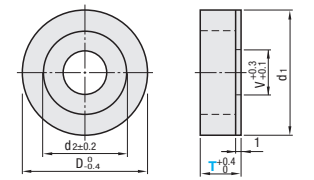


Urethane Type Washers for Extra Low Head Screws

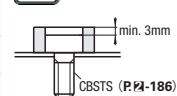


Urethane is baked on a 304 Stainless Steel plate.

Type	Urethane	Washer
	Material	Hardness
USWH	Ether Polyurethane (Black)	Shore A90



Part Number	Type	No.	T	D	d1	d2	V	Unit Price
USWH	3	4	11	10	7	3.5		
	4	4	13	12	9	4.5		
	5	4	14	13	10	6		
	6	4	15	14	11	7		
		7						
		7						

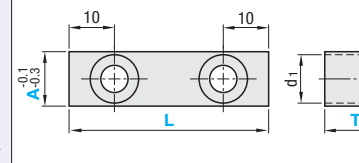


Urethane Type Stoppers with Plates



Urethane is baked on a 304 Stainless Steel plate.

Type	Urethane	Plate
	Material	Hardness
UPPL	Ether Polyurethane (Black)	Shore A90



Part Number	Type	A	T	L	d	d1	Unit Price
UPPL	12	6	30	3.5	6.5		
	15	8	50				
	19	10	75	4.5	8.0		

Price Configure Online



Part Number	-	T	-	L
UPWH4	-	8	-	
USWH3	-	7	-	
UPPL12	-	6	-	30



Days to Ship Configure Online

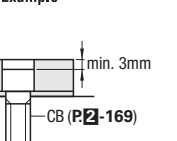
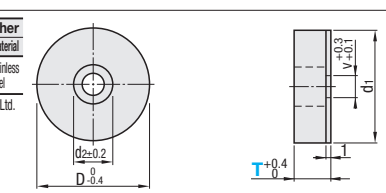
Low Elastic Rubber Stoppers with Washers



Rubber is baked on a 304 Stainless Steel plate.

Type	Rubber	Washer
	Material	Hardness
TUPWH	Low Elastic Rubber (Hanenaito® GP-60L)	Shore A57

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Part Number	Type	No.	T	D	d1	d2	V	Shock Absorption Amount (kgf-cm)	Withstand Load (kgf)	Unit Price
TUPWH	3	7	15	14	6	3		0.112	4.2	
	4	8	20	19	8	4		0.161	3.6	
	5	9	25	24	9.5	5		0.261	8.0	
	6	10	30	29	11	6		0.474	6.8	
	8	12	40	39	14	8		0.523	14.0	
								0.919	21.4	
								2.018	16.4	
								2.221	41.6	

Low Elastic Rubber Stoppers with Plates

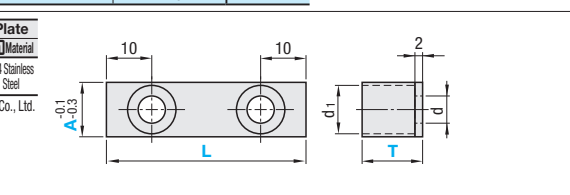


Rubber is baked on a 304 Stainless Steel plate.

Type	Rubber	Plate
	Material	Hardness
TUPPL	Low Elastic Rubber (Hanenaito® GP-60L)	Shore A57

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* Use low head bolts.
For features of the Low Elastic Rubber GP-60L P.1459



Part Number	Type	A	T	L	d	d1	Shock Absorption Amount (kgf-cm)	Withstand Load (kgf)	Unit Price
TUPPL	12	6	30	3.5	6.5		0.217	6.6	
			50				0.577	17.6	
			30				0.324	6.0	
			50				0.786	14.6	
	15	10	30	3.5	6.5		0.408	7.4	
			50				1.024	19.0	
			50				1.234	23.0	
	19	10	75	4.5	8.0		2.51	47.0	



Part Number	-	T	-	L
TUPWH6	-	10	-	
TUPPL12	-	6	-	30

Days to Ship Configure Online



Price Configure Online