



## Industrial Machinery Drive Quick Fit Taper-lock Cast-iron Universal Belt Pulleys



### V Belt Pulley Technical Specification TAPER LOCK HIC Manufactured UNIVERSAL Brand

Universal V-Belt Pulleys ensures more mileage form V-belt drive(s), in a way, pulley is made from superior quality graded cast iron, with grooves property machined with or without dynamic balancing that saves time in fixing & removal, eliminates re-building or surface, re-boring & key -waying, avoids keeping inventory of pulleys interchangeability on many rotating items easier and possible and conforms to IS: 3142

Designed to have in-built facilities to maximize grips on shaft through wedging action on outer cone surface thus facilitating fixing and removal of bush easily through allen key.

#### Belts Rotation hic V Belts Pulleys



- Taper Lock Dynamically Balanced Dual Duty v belt pulleys A/SPA section 1 to 6 grooves 80~800mm pitch circle dia (pcd) or Outer Diameter ; B/SPB 1 to 6 belt grooves 125~1000 pcd ; C/SPC 2~10 belts run groove 200~1250mm pcd.
- Balanced General Purpose solid vbelt pulleys without taper bush A section 1 to 5 grooves 2~26 inch OD ; B section 1 to 5 grooves 2~40"od ; C section 3~8 belts groove 3~50" OD ; D section 3~12 belts groove 12~56" OD ; E section 5~15 belts groove 16~72" OD.
- Taper Lock Bushes weld on hubs sizes 1008 to 5050 upto 125 mm maximum bore size.
- Chain Sprockets wheels single-double strand with knob 10~50 teeth in sizes 3/8"-1/2"-5/8"-3/4"-1"-1-1/4"-1-1/2" pitch sizes.

Face Width Of Duo Applications Cone Bush Pulleys							
No. of V Belt Grooves							
Belt Section	2	3	4	5	6	7	8
A	35	50	65	80	-	-	-
B	44	63	82	101	120	-	-
C	-	-	111	136	162	187	213

#### Contact For Quote:

HIC INTERNATIONAL CO. (Cast Iron Products Pulley Div.)

D-136, Shankar Road, New Delhi - 110060, India

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**Key personnel :** Mr. Anil Gupta, President



**Industrial Machinery  
Drive Quick Fit  
Taper-lock  
Cast-iron Universal Belt  
Pulleys**



**Taper Lock Pulley Duo-Application QUICK FIT Cone Bush Product Specification**

Industrial Pulley for use with A/SPA Section Belt					Industrial Pulley for use with A/SPA Section Belt					Industrial Pulley for use with A/SPA Section Belt									
Pitch Dia	No. of Grooves	Bush No.	Max Bore	Pulley Type	Pitch Dia	No. of Grooves	Bush No.	Max Bore	Pulley Type	Pitch Dia	No. of Grooves	Bush No.	Max Bore	Pulley Type					
80	2	1215	32	6	90	2	1615	42	3	100	2	1615	42	6					
	3	1215	32	6		3	1615	42	3		3	1615	42	6	6				
	4	1210	32	6		4	1610	42	6		4	1610	42	6	6				
	5	1108	28	6		5	1108	28	6		5	1610	42	6	6				
85	2	1215	32	6	95	2	1615	42	3	106	2	2012	50	6					
	3	1215	32	6		3	1615	42	3		3	1615	42	6	6				
	4	1210	32	6		4	1610	42	6		4	1610	42	6	6				
	5	1108	28	6		5	1610	42	6		5	1610	42	6	6				
Industrial Pulley for use with A/SPA Section Belt					Industrial Pulley for use with A/SPA Section Belt					Industrial Pulley for use with B/SPB Section Belt									
Pitch Dia	No. of Grooves	Bush No.	Max Bore	Pulley Type	Pitch Dia	No. of Grooves	Bush No.	Max Bore	Pulley Type	Pitch Dia	No. of Grooves	Bush No.	Max Bore	Pulley Type					
112	2	1610	42	6	315	2	2517	60	4	180	2	2012	50	6					
	3	2012	50	6		3	3020	75	8		3	2517	60	6	6				
	4	2012	50	6		4	3020	75	7		4	2517	60	3	3				
	5	2012	50	6		5	3535	90	8		5	3020	75	3	3				
118	2	1610	42	6	400	2	2517	60	4	190	2	2517	60	1					
	3	2012	50	6		3	3020	75	4		3	2517	60	6	6				
	4	2012	50	6		4	3020	75	5		4	2517	60	3	3				
	5	2012	50	6		5	3535	90	4		5	3020	75	3	3				
125	2	1610	42	2	Industrial Pulley for use with B/SPB Section Belt					200	2	2517	60	1					
	3	2012	50	2							3	2517	60	2	2	2517	60	2	2
	4	2012	50	2							4	3020	75	2	2	3020	75	2	2
	5	2012	50	2							5	3020	75	2	2	3020	75	2	2
132	2	1610	42	2	Pitch Dia	No. of Grooves	Bush No.	Max Bore	Pulley Type	212	2	2517	60	1					
	3	2012	50	2							3	2517	60	2	2	2517	60	2	2
	4	2517	60	2							4	3020	75	2	2	3020	75	2	2
	5	2517	60	2							5	3020	75	2	2	3020	75	2	2
140	2	2012	50	6	125	2	1610	42	6	224	2	2517	60	1					
	3	2517	60	2		3	1610	42	6		2	2517	60	2	2				
	4	2517	60	2		4	2012	50	3		2	3020	75	2	2				
	5	2517	60	2		5	2012	50	3		2	3020	75	2	2				
					6	2012	50	3		6	3020	75	2	2					

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Industrial Pulley for use with A/SPA Section Belt					Industrial Pulley for use with B/SPB Section Belt					Industrial Pulley for use with B/SPB Section Belt				
150	2	2012	50	6	132	2	1610	42	6	236	2	2517	60	1
	3	2517	60	2		3	1610	42	6		3	2517	60	2
	4	2517	60	2		4	2012	50	3		4	3020	75	2
	5	2517	60	2		5	2012	50	2		5	3020	75	2
					6	2012	50	3	6	3020	75	2		
160	2	2012	50	6	140	2	1610	42	6	250	2	2517	60	8
	3	2517	60	2		3	1610	42	6		3	3020	75	2
	4	2517	60	2		4	2012	50	3		4	3020	75	2
	5	2517	60	2		5	2012	50	2		5	3020	75	2
					6	2517	60	3	6	3020	75	2		
180	2	2012	50	2	150	2	1610	42	6	280	2	2517	60	8
	3	2517	60	2		3	2012	50	6		3	3020	75	7
	4	2517	60	2		4	2012	50	3		4	3020	75	7
	5	3020	75	2		5	2517	60	2		5	3535	90	7
					6	2517	60	2	6	3535	90	7		
200	2	2517	60	8	160	2	2012	50	6	315	2	3020	60	8
	3	2517	60	3		3	2517	60	6		3	3020	75	7
	4	3020	75	2		4	2517	60	3		4	3535	90	8
	5	3020	75	2		5	2517	60	3		5	3535	90	7
					6	2517	60	2	6	3535	90	7		
250	2	2517	60	8	170	2	2012	50	6	355	2	2517	75	4
	3	2517	60	7		3	2517	60	6		3	3020	75	5
	4	3020	75	7		4	2517	60	3		4	3535	90	8
	5	3020	75	7		5	3020	75	3		5	3535	90	7
					6	3020	75	2	6	3535	90	7		
Industrial Pulley for use with B/SPB Section Belt					Industrial Pulley for use with C/SPC Section Belt					Industrial Pulley for use with C/SPC Section Belt				
Pitch Dia	No. of Grooves	Bush No.	Max Bore	Pulley Type	Pitch Dia	No. of Grooves	Bush No.	Max Bore	Pulley Type	Pitch Dia	No. of Grooves	Bush No.	Max Bore	Pulley Type
400	2	3020	75	4	236	4	3535	90	3	425	4	3535	90	5
	3	3535	90	4		5	3535	90	3		5	4040	100	7
	4	3535	90	4		6	3535	90	3		6	4545	110	7
	5	3535	90	5		7	3535	90	3		7	4545	110	7
	6	3535	90	5		8	3535	90	3		8	5050	125	7
500	2	3020	75	4	250	4	3535	90	3	450	4	3535	90	5
	3	3535	90	4		5	3535	90	3		5	4040	100	5
	4	3535	90	4		6	3535	90	3		6	4545	110	7
	5	3535	90	5		7	3535	90	3		7	5050	125	7
	6	4040	100	5	8	3535	90	3	8	5050	125	7		
630	2	3030	75	4	265	4	3535	90	3	475	4	3535	90	5
	3	3535	90	4		5	3535	90	3		5	4040	100	5
	4	3535	90	4		6	3535	90	3		6	4545	110	7
	5	4040	100	4		7	3535	90	3		7	5050	125	7
	6	4040	100	5	8	3535	90	3	8	5050	125	7		

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Industrial Pulley for use with B/SPB Section Belt					Industrial Pulley for use with C/SPC Section Belt					Industrial Pulley for use with C/SPC Section Belt				
<b>800</b>	<b>2</b>	3030	75	4	<b>280</b>	<b>4</b>	3535	90	3	<b>500</b>	<b>4</b>	3535	90	5
	<b>3</b>	3535	90	4		<b>5</b>	3535	90	3		<b>5</b>	4040	100	5
	<b>4</b>	4040	100	4		<b>6</b>	3535	90	3		<b>6</b>	4545	110	5
	<b>5</b>	4040	100	4		<b>7</b>	3535	90	3		<b>7</b>	5050	125	7
	<b>6</b>	4545	110	5		<b>8</b>	3535	90	3		<b>8</b>	5050	125	7
<b>1000</b>	<b>3</b>	4040	100	4	<b>300</b>	<b>4</b>	3535	90	7	<b>530</b>	<b>4</b>	4040	100	5
	<b>4</b>	4040	100	4		<b>5</b>	3535	90	7		<b>5</b>	4545	110	5
	<b>5</b>	4545	110	4		<b>6</b>	3535	90	7		<b>6</b>	5050	125	5
	<b>6</b>	4545	100	5		<b>7</b>	3535	90	7		<b>7</b>	5050	125	7
Industrial Pulley for use with C/SPC Section Belt					<b>315</b>	<b>4</b>	3535	90	7	<b>560</b>	<b>4</b>	4040	100	5
						<b>5</b>	3535	90	7		<b>5</b>	4545	110	5
						<b>6</b>	3535	90	7		<b>6</b>	5050	125	5
						<b>7</b>	3535	90	7		<b>7</b>	5050	125	5
<b>200</b>	<b>4</b>	3020	75	3	<b>335</b>	<b>4</b>	3535	90	7	<b>630</b>	<b>4</b>	4545	110	4
	<b>5</b>	3535	90	3		<b>5</b>	3535	90	7		<b>5</b>	5050	125	5
	<b>6</b>	3535	90	3		<b>6</b>	3535	90	7		<b>6</b>	5050	125	5
	<b>7</b>	3535	90	3		<b>7</b>	3535	90	7		<b>7</b>	5050	125	5
	<b>8</b>	3535	90	3		<b>8</b>	4040	100	3		<b>8</b>	5050	125	5
<b>212</b>	<b>4</b>	3020	75	3	<b>355</b>	<b>4</b>	3535	90	7	<b>800</b>	<b>4</b>	5050	125	4
	<b>5</b>	3535	90	3		<b>5</b>	3535	90	7		<b>5</b>	5050	125	5
	<b>6</b>	3535	90	3		<b>6</b>	3535	90	7		<b>6</b>	5050	125	5
	<b>7</b>	3535	90	3		<b>7</b>	4040	90	7		<b>7</b>	5050	125	5
	<b>8</b>	3535	90	3		<b>8</b>	4040	100	3		<b>8</b>	5050	125	5
<b>224</b>	<b>4</b>	3535	90	3	<b>375</b>	<b>4</b>	3535	90	7	<b>1000</b>	<b>4</b>	5050	125	4
	<b>5</b>	3535	90	3		<b>5</b>	3535	90	7		<b>5</b>	5050	125	5
	<b>6</b>	3535	90	3		<b>6</b>	4040	100	7		<b>6</b>	5050	125	5
	<b>7</b>	3535	90	3		<b>7</b>	4040	100	7		<b>7</b>	5050	125	5
	<b>8</b>	3535	90	3		<b>8</b>	4045	110	7		<b>8</b>	5050	125	5
<b>280</b>	<b>4</b>	3535	90	3	<b>400</b>	<b>4</b>	3535	90	5	<b>1250</b>	<b>4</b>	5050	125	4
	<b>5</b>	3535	90	3		<b>5</b>	3535	90	5		<b>5</b>	5050	125	5
	<b>6</b>	3535	90	3		<b>6</b>	4040	100	7		<b>6</b>	5050	125	5
	<b>7</b>	3535	90	3		<b>7</b>	4545	110	7		<b>7</b>	5050	125	5
	<b>8</b>	3535	90	3		<b>8</b>	4545	110	7		<b>8</b>	5050	125	5



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### Belt Pulley Taper Lock Bush Dimensions In Millimeters

Cone & Bush size	1008	1108	1210	1215	1310	1610	1615	2012	2517	2525	3020	3030	3535	3525	4040	4545	5050
Nominal dia at large end of cone	35.0	38.0	47.5	47.5	51.0	57.0	57.0	70.0	85.5	85.5	108.0	108.0	127.0	127.0	146.0	162.0	177.5
face width	22	22	25	38	25	25	38	32	45	65	51	76	65	89	102	114	127
minimum bore	9	9	11	11	14	14	14	14	16	19	25	35	48	35	40	55	70
maximum bore	25	28	32	32	35	42	42	50	60	80	75	75	90	90	100	110	125



Quick Fit Taper-lock  
Pulley Bush



Universal Weld on Hub  
Pulley Bush

### V Belt PULLEY Standard

v Belt Groove Cross-Section	Pulley pitch Diameter dp (mm)	Groove Angle A Deree $\pm 0.5^\circ$	Minimum Top width of groove g (mm)	Minimum Groove depth below outside diameter hg (mm)	Centre to centre of grooves sg (mm)	Edge of Pulley to first Groove Centre (mm)
SPZ	upto 80 over 80	34 38	9.7 9.9	11.0	12+0.3	8.0+1.0
A	upto 118 over 118	34 38	13.0 13.3	13.8	15+0.3	10.0+2.0 -1.0
SPA	upto 190 over 190	34 38	16.6 16.9	17.5	19+0.4	12.5+2.0 -1.0
B	upto 315 over 315	34 38	22.7 22.9	23.8	25.5+0.5	17+2.0 -1.0
SPB	upto 475 over 475	36 38	32.2 32.6	28.0	37.0+0.6	24.0+3.0 -1.0
C	upto 630 over 630	36 38	38.3 38.6	33.0	44.5+0.7	29+4.0 -1.0
D						
E						

When the pulley are to be used for v-belt sections A, B or C only, dimension hg may be reduced by 20%



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Dynamic Balancing of pulleys undertaken please and our lab Test Certificate is provided

### Vee Belt Pulley Information To Be Supplied With Enquiry or Order

1. Size i.e. pulley pitch dia, whether 75mm or 125mm & so on.
2. No. of grooves i.e. 2, 3 & so on.
3. For V-belt section i.e. A or SPB & so on.
4. Type i.e. general purpose or quick-fit with taper lock bush.
5. Bore size i.e. pilot or some requisite size.
6. Key waying, if at all reqd. (length, width & depth).
7. Quantity in nos. 8. Your detailed drawing, if possible.

Disclaimer: Information's, written and verbal are provided by HIC, relative to its products which it determines to be reliable & no liabilities of whatsoever nature in regards to its uses. The purchaser of UNIVERSAL brand industrial products should determine for itself the suitability of such products.



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## Timing Belt Taper Lock Pulleys Technical Specifications



### Timing Pulley Technical Specification COG DRIVE BELT HIC Manufactured Universal Brand

Universal Timing pulleys ensures longer belt life with virtually no slippage and noiseless having min. back lash, in a way, pulley is made from steel or aluminum material with or without taper lock/bush as per customer's requirement, machined by generating topping cutters, used in engine camshaft, auto timing belt & other industrial pulley applications.



Timing Belt Pulley

### Timing Pulley Transmission DRIVE BELTS Product Specification

- Toothed Drive Belt 'XL' type (extra light duty) pulley
- Cogged Belt 'L' type (light duty) pulley
- Tooth Belt 'H' type (heavy duty) pulley
- Cog Belt 'XH' type (extra heavy duty) pulley
- Toothed Belt 'XXH' type (double extra heavy duty) pulley

### Drive Belt Power Capacity Ratings KW/25mm Belt at 100rpm speed

Engine pulley driver teeth type	10	11	12	13	14	15	16	17	18	19	20	21	22	24	26	28	30	32	36	40	44	48	
XL (1/5' pitch)	.01	.01	.01	.15	.02	.02	.02	.03	.03	.03	.03	.03	.03	.04	.04	.04							
L (3/8' pitch)	.04	.04	.04	.05	.05	.06	.06	.07	.07	.07	.07	.08	.09	.10	.10	.11	.12	.13	.14	.16	.17	.19	
H (1/2' pitch)	-	-	-	-	.19	.20	.21	.22	.24	.25	.26	.28	.29	.31	.34	.37	.40	.43	.48	.53	.58	.63	
XH (7/8' pitch)	-	-	-	-	-	-	-	-	.57	.60	.63	.65	.69	.75	.83	.88	.94	1.0	1.1	1.25	-	-	
XXH (1-1/4' pitch)	-	-	-	-	-	-	-	-	.99	1.0	1.1	1.15	1.22	1.30	1.43	1.5	1.65	1.8	1.95	2.2	-	-	

\* Taper Lock bush system pulley also manufactured.



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## Timing Belt Taper Lock Pulleys Technical Specifications



### Timing Pulley Information To Be Supplied With Enquiry or Order

- Duty type i.e. extra light or heavy & so on.
- Pitch of pulley i.e. 1/5" or 3/8" & so on.
- No. of driver pulley teeth i.e. 10 or 17 & so on.
- Pulley material i.e. steel or aluminum.
- Quantity in nos.

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