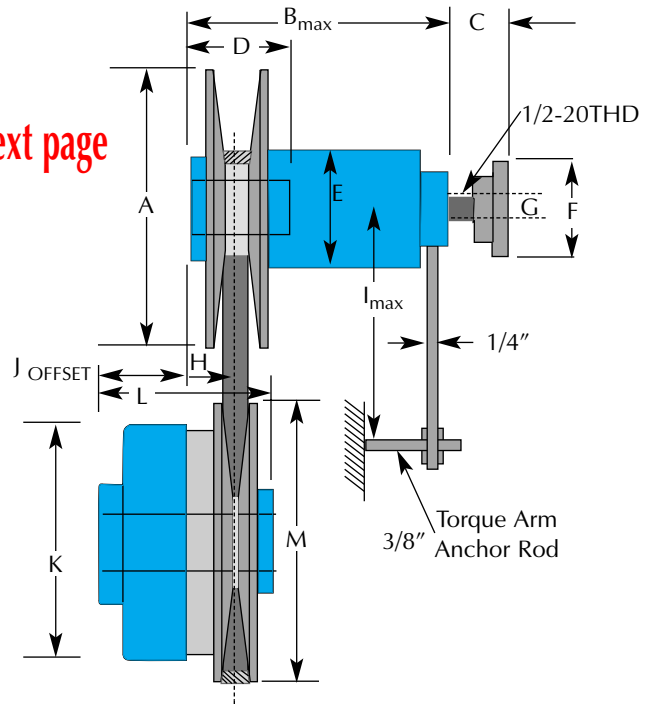


# MCV Series .75–5 hp

Fixed Center Distance Drives

continued on next page

MCV series pulleys are Fixed Center Distance Drive type pulleys. The MCW pulleys use Standard V-Belts and have horsepower rating from .75–5 HP. The automatic pulleys have Hi-Lo's torque-sensing mechanism to control belt tension with load requirement.



## Dimensions • MCV Series

All dimensions are in inches

Pulley Combination	Driver	Driven	A	B	C	D	E	F	G	H	I	J	K	L	M	Stock Bore Sizes	
MCV30	30TBR 40TBR		3.38	4.50	.75	1.63	2.19	2.30	.44	.99	2.25	.93	3.06	2.69	3.38	.5•.625•.75 .5•.625•.75 .5•.625•.75	
												.93	3.06	2.69	4.25		
MCV500	50TBR 57-20TBR 57TBR 66TBR 86TBR		5.00	5.40	1.07	2.05	2.19	2.30	.44	1.01	4.25					.625•.75•.875 .625•.75•.875	
												1.27	4.07	3.07	5.0	.625•.75•.875	
													1.27	4.07	3.07	5.75	.625•.75•.875
													1.77	5.08	3.88	5.75	.75•.875•1•1.125
													1.77	5.08	3.88	6.63	.75•.875•1•1.125
MCV57	57TBR 66TBR 86TBR		5.75	6.50	1.13	3.13	2.88	2.30	.44	1.01	5.75					.75•.875•1•1.125	
												1.38	5.08	3.88	5.75	.75•.875•1•1.125	
												1.38	5.08	3.88	6.63	.75•.875•1•1.125	
												1.38	5.08	3.88	8.63	.75•.875•1•1.125	

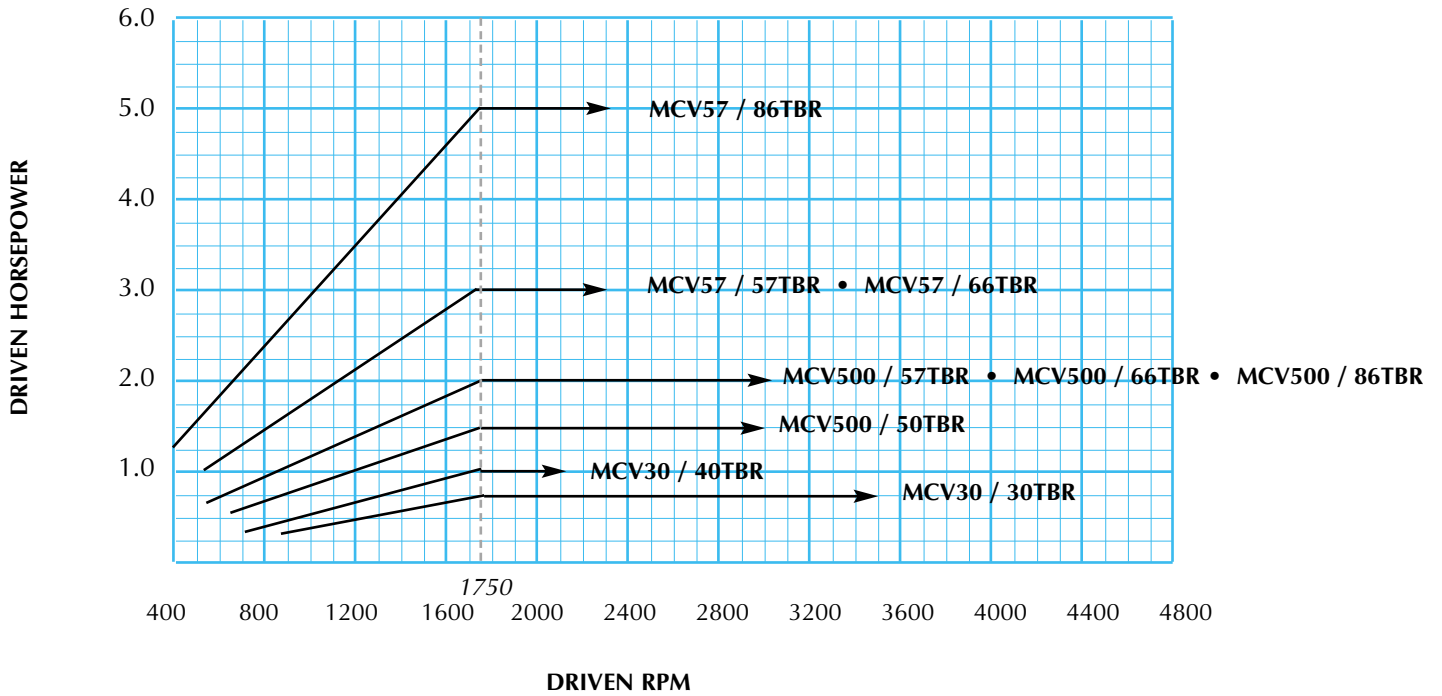
\*Model MCV500 replaces MCV50

## Specifications • MCV Series

All dimensions are in inches

HP Ratings				Driven RPM					Ratio	Pulley Combination		Belt Size	Pitch Diameter				1-1 Ratio
1750 RPM Driven RPM	1750 at Max.	1150 RPM Driven RPM	1150 at Min.	1750 RPM		1150 RPM		Driver		Driven	Min.		Max.	Min.	Max.		
.75	.38	.50	.25	875	3500	578	2310	4.0:1	MCV30	30TBR	A	1.57	3.14	1.57	3.14	2.36	
1.00	.39	.75	.25	687	2106	454	1390	3.1:1	MCV30	40TBR	A	1.57	3.14	2.60	4.00	2.87	
1.50	.55	1.00	.36	647	4625	427	3053	7.1:1	MCV500	50TBR	B	1.72	4.65	1.76	4.65	3.25	
2.00	.64	1.50	.42	557	3014	368	1990	5.4:1	MCV500	57-20TBR	B	1.72	4.65	2.70	5.40	3.70	
2.00	.64	1.50	.42	557	3014	368	1990	5.4:1	MCV500	57TBR	B	1.72	4.65	2.70	5.40	3.70	
2.00	.55	1.50	.36	485	2248	320	1484	4.6:1	MCV500	66TBR	B	1.72	4.65	3.62	6.20	4.14	
2.00	.52	1.50	.34	367	1408	243	929	3.8:1	MCV500	86TBR	B	1.72	4.65	5.78	8.20		
3.00	1.10	2.00	.72	648	4500	428	2970	6.9:1	MCV57	57TBR	B	2.00	5.40	2.10	5.40	3.82	
3.00	.97	2.00	.64	564	3214	373	2121	5.7:1	MCV57	66TBR	B	2.00	5.40	2.94	6.20	4.20	
5.00	1.22	3.00	.80	427	1750	282	1155	4.1:1	MCV57	86TBR	B	2.00	5.40	5.30	8.20	5.35	

**Horsepower Curve • 1750 RPM Driver**



**Pre-Engineered Belt and Center Distance Selection Chart • MCV Series**

**MCV30 Series**

*All dimensions are in inches*

Pulley Combination		A Section Belt Sizes												
Driver	Driven	A21	A23	A26	A29	A31	A33	A35	A37	A39	A42	A46	A48	A51
MCV30	30TBR	7.4	8.4	9.9	11.4	12.4	13.4	14.4	15.4	16.4	17.9	19.9	20.99	22.4
	40TBR	6.6	7.7	9.2	10.7	11.7	12.7	13.7	14.7	15.7	17.2	19.2	20.2	21.7

**MCV500 Series**

Pulley Combination		B Section Belt Sizes												
Driver	Driven	B28	B32	B35	B38	B40	B42	B44	B46	B48	B50	B53	B56	B59
MCV500	50TBR	9.8	11.8	13.3	14.8	15.8	16.8	17.8	18.8	19.8	20.8	22.3	23.8	25.3
	57TBR	9.1	11.1	12.6	14.1	15.1	16.2	17.2	18.2	19.2	20.2	21.7	23.2	24.7
	66TBR	8.3	10.4	11.9	13.4	14.4	15.5	16.5	17.5	18.5	19.5	21.0	22.5	24.0
	86TBR			10.0	11.6	12.6	13.6	14.7	15.7	16.7	17.7	19.2	20.7	22.7

**MCV57 Series**

Pulley Combination		C Section Belt Sizes												
Driver	Driven	B28	B32	B35	B38	B40	B42	B44	B46	B48	B50	B53	B56	B59
MCV57	57TBR	8.9	10.9	12.4	13.9	15.0	16.0	17.0	18.0	19.0	20.0	21.5	23.0	24.5
	66TBR	8.2	10.2	11.7	13.2	14.3	15.3	16.3	17.3	18.3	19.3	20.8	22.3	23.8
	86TBR			9.9	11.4	12.4	13.5	14.5	15.5	16.5	17.5	19.0	20.6	22.1

To determine unlisted Belt Lengths and Center Distances, use these formulas:

$$L=2C+3.14D$$

$$C=\frac{L-3.14D}{2}$$

C=Center Distance  
 D=1.1 Pitch Diameter  
 L=Belt Pitch Length