

DETERMINING MAXIMUM STARTING TORQUE BASED ON BORE SIZE

The hub bore size and type must be selected so that the starting torque experienced by the wheel does not exceed the maximum torque capability of the hub.

Based on the nominal motor horsepower selected for the application, calculate the fan starting torque at the hub by the following equation:

Starting Targua (lb. ft.) -	Motor Horsepower x 5252	x 7
Starting forque (ib. it.) =		~ 2

Fan RPM

	Direct Drive	Belt Drive					
	Shaded	Split	Cap	Three			
Arrangement	Perm. Split	Phase	Start	Phase			
Z=One wheel on shaft	0.6	1.4	2.2	3.0			
Z=Two wheels on shaft	_	0.8	1.3	1.8			
Z=Three wheels on shaft	—	0.6	0.9	1.2			

After determining the lb./ ft. starting torque, determine

if you can use the standard wheels list this catalog.

TORQUE GUIDE CHART

Indicates Welded Hub

		Maximum Allowable Starting Torque Lb Ft.																	
		Direct Drive								Belt Drive									
		L.	DD	D	D	"A" Belt Drive						"H" Welded Belt Drive							
Bore	Description	9	10	11	12	9	10	12	15	18	20	20	22	25	27	30	33	36	
0.50	(1) Setscrew		8	\rightarrow															
	(2) Setscrews		13	\rightarrow															
0.62	(1) Setscrew			1(10 →														
	(2) Setscrews			16 →															
	(1) Setscrew w/KYWY			106 →															
0.75	(1) Setscrew						12	.5	\rightarrow										
	(2) Setscrews					20		\rightarrow											
	(1) Setscrew w/KYWY					60) →	96	\rightarrow										
1.00	(1) Setscrew							17		\rightarrow									
	(2) Setscrews					26.5				\rightarrow									
	(1) Setscrew w/KYWY					60) →		168	\rightarrow									
1.19	(1) Setscrew						20		\rightarrow										
	(2) Setscrews						31.5 →				\rightarrow								
	(1) Setscrew w/KYWY					60 →			25	0	\rightarrow	200 →							
	(1) Setscrew						32	2	\rightarrow										
1.44	(2) Setscrews					50).5	\rightarrow									
	(1) Setscrew w/KYWY					80	80 → 460			0	\rightarrow			400		\rightarrow			
	(1) Setscrew							37.	37.5 →										
1.69	(2) Setscrews							60 →											
	(1) Setscrew w/KYWY								540 →					850		\rightarrow			
1 94	(2) Setscrews								67.5 →										
1.04	(1) Setscrew w/KYWY								870 →			1000						\rightarrow	
2 19	(2) Setscrews									77	$7 \rightarrow$								
2.10	(1) Setscrew w/KYWY									98	0 →			1	1500			\rightarrow	
2 4 4	(2) Setscrews									86	\rightarrow								
2.77	(1) Setscrew w/KYWY									135	55→				2000			\rightarrow	
2.69	(2) Setscrews									9	5 →								
	(1) Setscrew w/KYWY								1495→ 2500						\rightarrow				
2.25	Clamplok Hub								97									\rightarrow	
3.00	Clamplok Hub								195								\rightarrow		
4.00	Clamplok Hub					245									\rightarrow				
4.50	Clamplok Hub												2	95				\rightarrow	

Specifications are subject to change without notice or obligation