

CLUTCHES

“Air Champ”

DUAL-FACED FRICTION CLUTCH MODELS DFC-1650 & DFC-2200

The DFC-1650 and DFC-2200 are two models of self contained, dual-faced, air-engaged friction clutches with a bearing mounted plate for mounting pulleys or sprockets. The two models sizes fit shafts up to 3.375", and are designed for shaft-end mounts only.

The DFC Clutches operate with an air-pressurized piston moving axially to compress the friction facing against the inside of a dual-faced rotor, which is splined to a shaft-mounted hub. The rotor is locked with the pilot plate, under friction, to transmit power from the driving shaft to the driven pulley or sprocket.

- ▶ Static Torque capacity up to 66,800 In. Lbs. @ 80 psi
- ▶ Maximum Operating Speed up to 1200 rpm
- ▶ Thermal Horsepower rating of 10.0 @ 900 rpm
- ▶ Heat Sink capacity of 1,460,000 Ft. Lbs.

This clutch is shaft-end mounted to provide design versatility in **2 Models:**

- ▶ **8 Sheaves** provide 4-“5V” or 4-“8V” Groove options
- ▶ **Standard Bore** size of 3.375 inches
- ▶ Lower cost O-ring design
- ▶ Superior friction facing life
- ▶ Excellent bearing life
- ▶ Clutch envelope is within the motor diameter
- ▶ For up to 250 horsepower drives

▶ DFC MODEL CLUTCHES

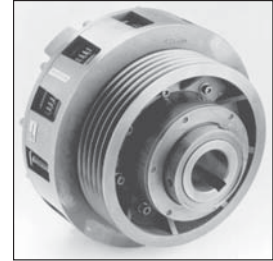
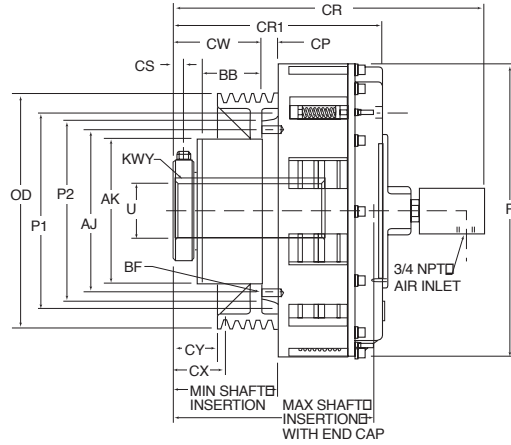
Model	Clutch Style	Product Number	Sheave Diameter	Bore (In)	Shipping Wt. (Lbs)
DFC-1650	Pilot Mount	964149	--	3.375	350
DFC-2200	Pilot Mount	964151	--	3.375	500
DFC-1650	Sheave, 6-“5V”	964152	15.00 OD		
DFC-1650	Sheave, 5-“5V”	964153	15.00 OD		
DFC-1650	Sheave, 4-“5V”	964154	14.00 OD		
DFC-2200	Sheave, 4-“8V”	964155	16.00 OD		
DFC-2200	Sheave, 6-“8V”	964156	16.00 OD		
DFC-2200	Sheave, 6-“8V”	964157	20.00 OD		
DFC-2200	Sheave, 10-“5V”	964158	14.50 OD		
DFC-2200	Sheave, 5-“8V”	964159	16.00 OD		

▶ DFC MODEL CLUTCHES

Model	Static Torque at 80 psi	Maximum RPM	Effective Facing Area	Peak Input Rate (HP)	Heat Sink Capacity (ft lbs.)	HP _t up to
DFC-1650	36,000 in. lbs.	1200	227 in ²	204 HP	870,000	8.0
DFC-2200	66,800 in.lbs.	900	330 in ²	297 HP	1,460,000	10.0

DUAL-FACED FRICTION MODEL CLUTCHES - APPROXIMATE DIMENSIONS (INCHES)

► PILOT MOUNT



MODEL	PRODUCT NUMBER	AJ	AK ±.001	BB	BF		CP	CR	CR1	CS	KKY		DP	P	P1	P2	SHAFT INSERT		U ⁺⁰⁰¹ / ₋₀₀₀
					SIZE	QTY					CW	WD					MIN	MAX	
DFC-1650	964149	10.375	9.248	3.848	.500-13	12	1.10	19.27	13.23	0.62	5.54	0.875	0.437	18.85	11.57	11.38	6.44	12.62	3.375
DFC-2200	964151	11.327	10.200	5.50	.500-13	8	0.40	21.21	14.79	0.62	7.19	0.875	0.437	24.50	12.45	12.45	6.94	14.21	3.375

► SHEAVES (OPTIONAL)

MODEL	PRODUCT NUMBER	GROOVE	QTY	OD	CX	CY
DFC-1650	964152	5V	6	15.00	2.54	2.04
DFC-1650	964153	5V	5	15.00	3.23	2.73
DFC-1650	964154	5V	4	14.00	3.91	3.41

MODEL	PRODUCT NUMBER	GROOVE	QTY	OD	CX	CY
DFC-2200	964155	8V	4	16.00	1.31	0.56
DFC-2200	964156	8V	6	16.00	0.81	0.06
DFC-2200	964157	8V	6	20.00	0.81	0.06
DFC-2200	964158	5V	10	14.50	0.53	0.03
DFC-2200	964159	8V	5	16.00	1.31	0.56