

# X7C2R-21H

Combination Air Engaged Friction Clutch, Spring Engaged Friction Brake, Stop & Start the Shaft  
NEMA 213TC, 215TC Frame Mount



Suitable for pulley output

## Clutch Engagement/Brake Engagement

Air/Spring

## Facing Type

High Coefficient

## Clutch Torque @ 80 PSI (max) – Dynamic

1,032 Pound Inches

## Brake Torque @ Spring Pressure (fixed)

395 Pound Inches

## Brake Release Pressure

20 - 30 PSI

## Maximum RPM

1,750

## Input Bore/Output Shaft

1.375 Inches

## Air Volume New

2.95 Cubic Inches

## Air Volume Worn

4.17 Cubic Inches

## Finish

Aluminum

## Open or Enclosed Construction

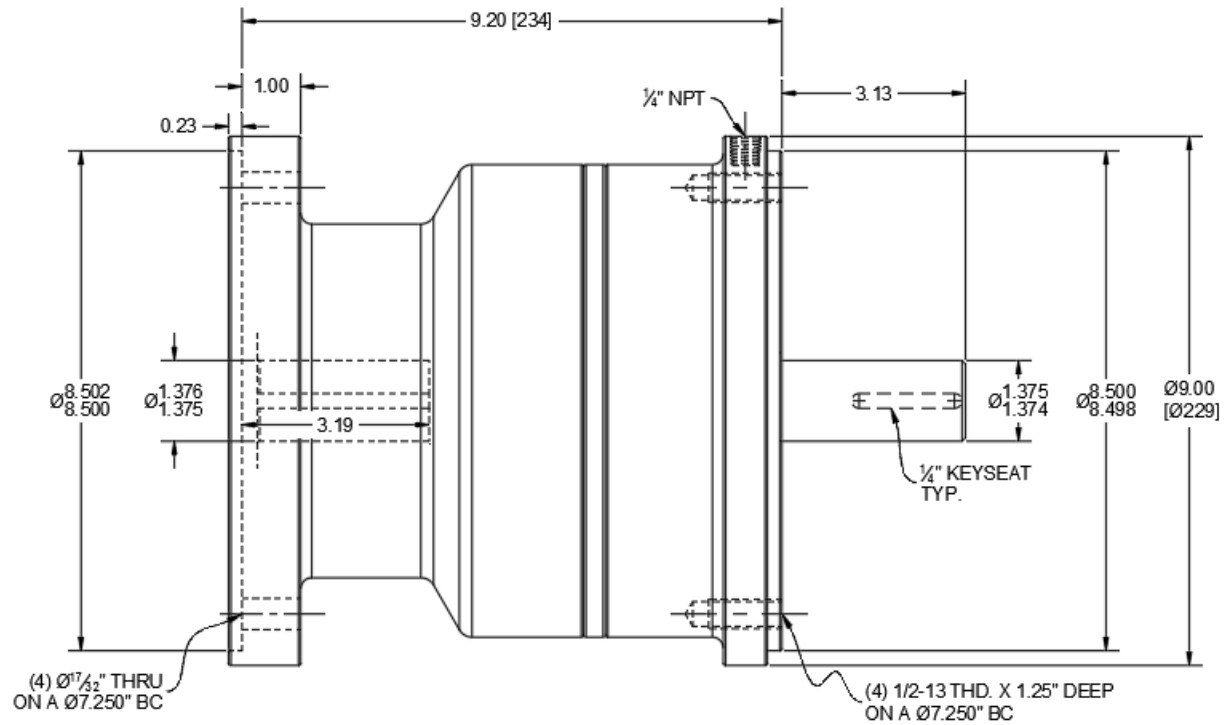
Enclosed

## Overhung Load Capacity

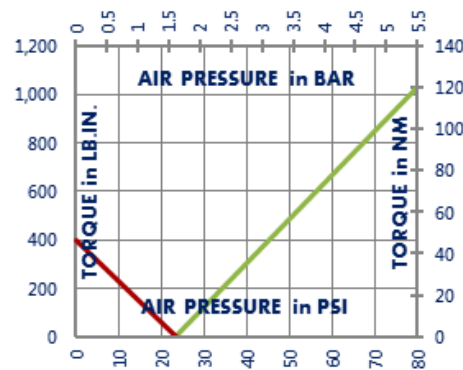
470 Pounds

## Shipping Weight

55 Pounds



## TORQUE vs. AIR PRESSURE



## NEW vs. BURNISHED TORQUE

The torque output of a new friction brake or clutch can be up to 40% less than the published torque rating. To achieve full design torque, a unit must be cycled under load to burnish the friction surfaces. The exact number of cycles varies by application.

When calculating required torque always use a safety factor of 1.5 to 2. It is not recommended to select a product for use at its maximum rated torque for continuous duty.

## PRODUCT SELECTION

Torque capacity is only one factor to consider when making a product selection. Ensure that you will have the right product for the job by contacting our engineering department for application review and selection assistance.

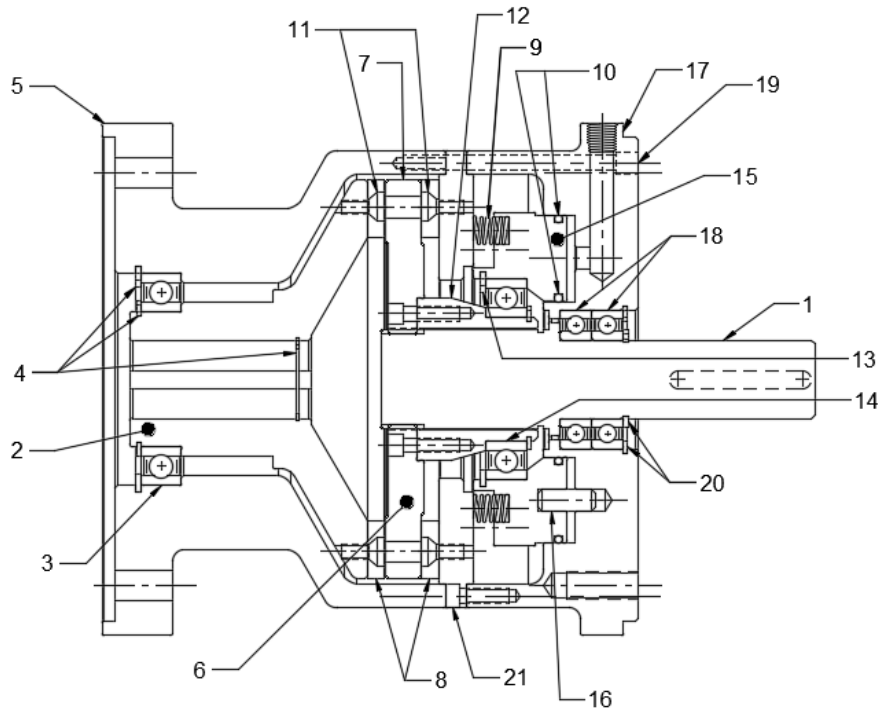


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## Parts Diagram



REF#	DESCRIPTION & PARTS INCLUDED	QUANTITY	KIT NUMBER
	<b>DRIVE HUB KIT</b>		<b>X7C2R-21H-HUBK</b>
1	Drive Hub	1	
	<b>ADAPTER KIT</b>		<b>X7C2R-21H-ADPK</b>
2	Female Hub	1	
3	Bearing	1	
4	Retainer Ring	3	
5	Adapter Female	1	
	<b>DRIVE DISC KIT</b>		<b>X7C2R-18H-DRDK</b>
6	Drive Disc	1	
7	Screw	6	
	<b>REPAIR KIT</b>		<b>X7C2R-21H-RPRK</b>
8	Friction Disc	2	
9	Spring	34	
10	O-Ring	2	
11	Screw	12	
	<b>PISTON KIT</b>		<b>X7C2R-18H-PSTK</b>
12	Cone	1	
13	Retainer Ring	2	
14	Bearing	1	
15	Piston	1	
16	Pin	2	
	<b>CYLINDER KIT</b>		<b>X7C2R-18H-CYLK</b>
17	Adapter Male	1	
18	Bearing	2	
19	Screw	12	
20	Retainer Ring	2	
21	Brake Adapter	1	

### PARTS KITS

The *Repair Kit* contains common wear items for this product. Users are encouraged to stock one or more repair kits considering the number of units installed and the potential downtime if machinery on which the unit is installed is critical equipment. To obtain current pricing and lead time for parts kits, contact customer service.

[orders@machiii.com](mailto:orders@machiii.com)

### ADDITIONAL PRODUCT INFORMATION

For illustrated guides showing how Mach III products work, selection guidelines, product manuals, and installation and use recommendations:

<https://machiii.com/resources/how-our-products-work>

For information about how to order, return policy and warranty information:

<https://machiii.com/resources/how-to-order>



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