

Synchra™

Synchra 200 - 700 Series
10 - 1500 hp



THE SYNCHRONOUS SOLUTION FOR MISSION CRITICAL EQUIPMENT

The Synchra™ Series from MagnaDrive™ harnesses the power of a no-contact, magnet-to-magnet synchronous connection. Compact and tough, the interior sequence of our patented design uses Neodymium-Iron-Boron magnets—the strongest permanent magnets in the world. The Synchra Series maximizes torque while eliminating any magnetic slip, resulting in consistent performance for vital equipment, with zero RPM's lost.

HIGHLIGHTS

- No Physical Connection Between Motor and Load
- Up to 80% Vibration Reduction
- 1/4" Misalignment Tolerance
- Synchronous RPM Transfer - No RPM Slip
- Safe, Reliable Over Torque Protection of Critical Equipment
- Automatic Re-Set
- Compact Design
- No Maintenance Required
- Eliminates Vibration Transfer Between Motor and Load
- Lowest Total Cost of Ownership
- Accepts Significant Misalignment
- Simple Installation & Operation
- Increases Seal & Bearing Life

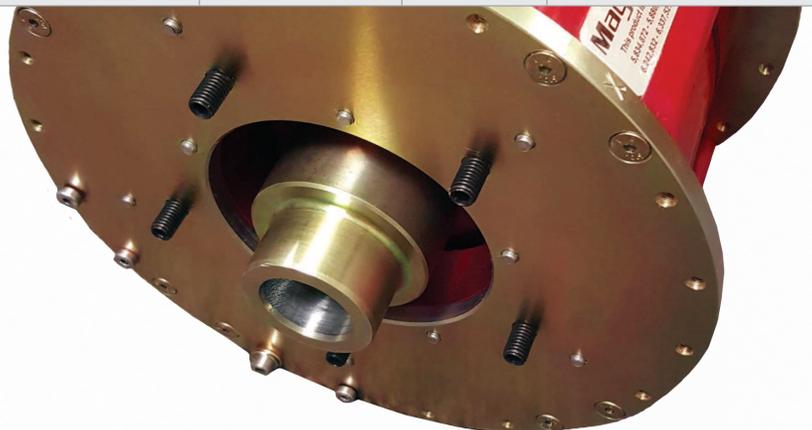
APPLICATIONS

Ideal for industrial, wastewater and oil & gas applications that are subject to:

- Moderate to Severe Misalignment
- Load Seizures
- Pulsating Loads
- Thermal Expansion
- Shock Loading
- Tight Space Constraints

Synchra Series Torque Rating

Model	Torque (Ft-lb)	Motor RPM Limit	HP Rating 1.4 Service Factor
Synchra-200	Up to 100	3600	25 HP @ 1800 RPM 50 @ 3600 RPM
Synchra-300	Up to 650	3600	150HP @ 1800 RPM 300 @ 3600 RPM
Synchra-400	Up to 1500	1800	375 HP @ 1800 RPM 750 @ 3600 RPM
Synchra-500	Up to 2500	1800	600 @ 1800 RPM
Synchra-600	Up to 3950	1800	1000 @ 1800 RPM
Synchra-700	Up to 6900	1800	1500 @ 1800 RPM



MagnaDrive Synchra Series Sizing

1800 Motor Speed (RPM)

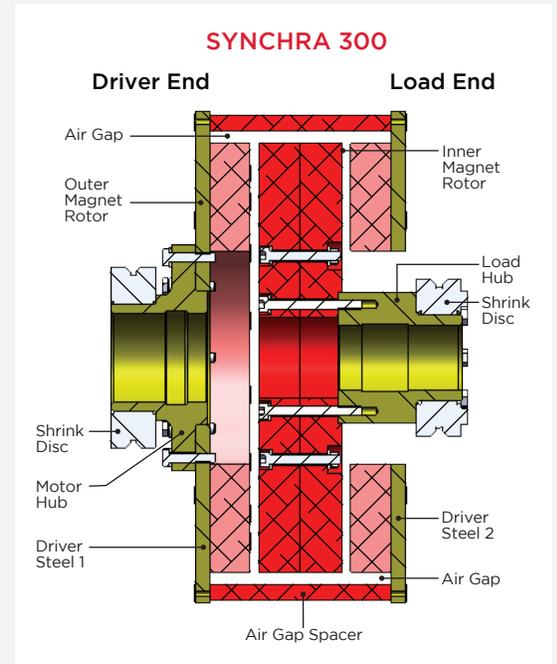
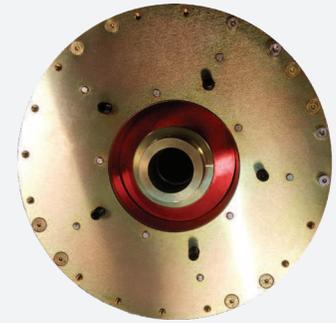
Motor HP	Service Factor					
	1.2	1.4	1.6	1.8	2.0	2.5
10	S-200	S-200	S-200	S-200	S-200	S-200
15	S-200	S-200	S-200	S-200	S-200	S-300
20	S-200	S-200	S-200	S-200	S-300	S-300
25	S-200	S-200	S-300	S-300	S-300	S-300
30	S-200	S-300	S-300	S-300	S-300	S-300
40	S-300	S-300	S-300	S-300	S-300	S-300
50	S-300	S-300	S-300	S-300	S-300	S-300
60	S-300	S-300	S-300	S-300	S-300	S-300
75	S-300	S-300	S-300	S-300	S-300	S-300
100	S-300	S-300	S-300	S-300	S-300	S-300
125	S-300	S-300	S-300	S-300	S-300	S-400
150	S-300	S-300	S-300	S-300	S-400	S-400
200	S-300	S-400	S-400	S-400	S-400	S-400
250	S-400	S-400	S-400	S-400	S-400	S-500
300	S-400	S-400	S-400	S-400	S-500	S-500
350	S-400	S-400	S-400	S-500	S-500	S-500
400	S-400	S-400	S-500	S-500	S-500	S-500
450	S-400	S-500	S-500	S-500	S-500	S-500
500	S-500	S-500	S-500	S-600	S-600	S-600
600	S-600	S-600	S-600	S-600	S-600	S-700
700	S-600	S-600	S-600	S-600	S-600	S-700
800	S-600	S-600	S-600	S-700	S-700	S-700
900	S-700	S-700	S-700	S-700	S-700	-
1000	S-700	S-700	S-700	S-700	S-700	-
1250	S-700	S-700	S-700	-	-	-
1500	S-700	S-700	-	-	-	-

1200 Motor Speed (RPM)

10	S-200	S-200	S-200	S-200	S-200	S-300
15	S-200	S-200	S-300	S-300	S-300	S-300
20	S-300	S-300	S-300	S-300	S-300	S-300
25	S-300	S-300	S-300	S-300	S-300	S-300
30	S-300	S-300	S-300	S-300	S-300	S-300
40	S-300	S-300	S-300	S-300	S-300	S-300
50	S-300	S-300	S-300	S-300	S-300	S-300
60	S-300	S-300	S-300	S-300	S-300	S-300
75	S-300	S-300	S-300	S-300	S-300	S-400
100	S-300	S-300	S-300	S-300	S-400	S-400
125	S-300	S-300	S-400	S-400	S-400	S-400
150	S-300	S-400	S-400	S-400	S-400	S-400
200	S-300	S-400	S-400	S-400	S-400	S-400
250	S-400	S-400	S-500	S-500	S-500	S-500
300	S-400	S-500	S-500	S-500	S-500	S-500
350	S-500	S-500	S-500	S-500	S-500	S-500
400	S-500	S-500	S-600	S-600	S-600	S-600
450	S-500	S-600	S-600	S-600	S-600	S-700
500	S-600	S-600	S-600	S-600	S-700	S-700
600	S-600	S-600	S-700	S-700	S-700	-
700	S-600	S-700	S-700	S-700	S-700	-
800	S-700	S-700	S-700	-	-	-
900	S-700	S-700	-	-	-	-
1000	S-700	S-700	-	-	-	-

THE MAGNADRIE ADVANTAGE

MagnaDrive is the world leader in magnetic power transfer. Our couplings and Adjustable Speed Drives transfer torque across an air gap, eliminating the physical connection between motor and load. Friction-free power transfer reduces harmful vibration, increases misalignment tolerance, minimizes wear and tear on equipment, and increases motor and equipment life, creating a lower total cost of ownership than standard couplings and a lifetime of unwavering performance.



Synchra Service Factor Guidelines

Synchra Peak Torque	in-lb
S-200	1239
S-300	9558
S-400	19607
S-500	29411
S-600	49018
S-700	73528
Centrifugal Pump	1.3
Fan/Blower	1.3
Blower; Rotary/Lobe/Vane	1.5
Centrifugal Pump, Ansi	1.5
Belt Conveyor, Uniform Load	1.6
Bucket Elevator	1.6
Fan, Id (Induced Draft)	1.6
Belt Conveyor, Non-Uniform Load	1.8
Mixer	1.8
Barker Drum / Pulper Drum	2.0
Rotary Kiln	2.0
Reciprocating Compressor	2.0
Ball/Rod Mill	2.5
Reciprocating Conveyor	2.5
Crusher	2.5
Air Pre-Heater	2.5

MagnaDrive
CORPORATION

MAGNADRIE.COM P (425) 463-4700

14660 NE N Woodinville Way, Ste 100
Woodinville, WA 98072