

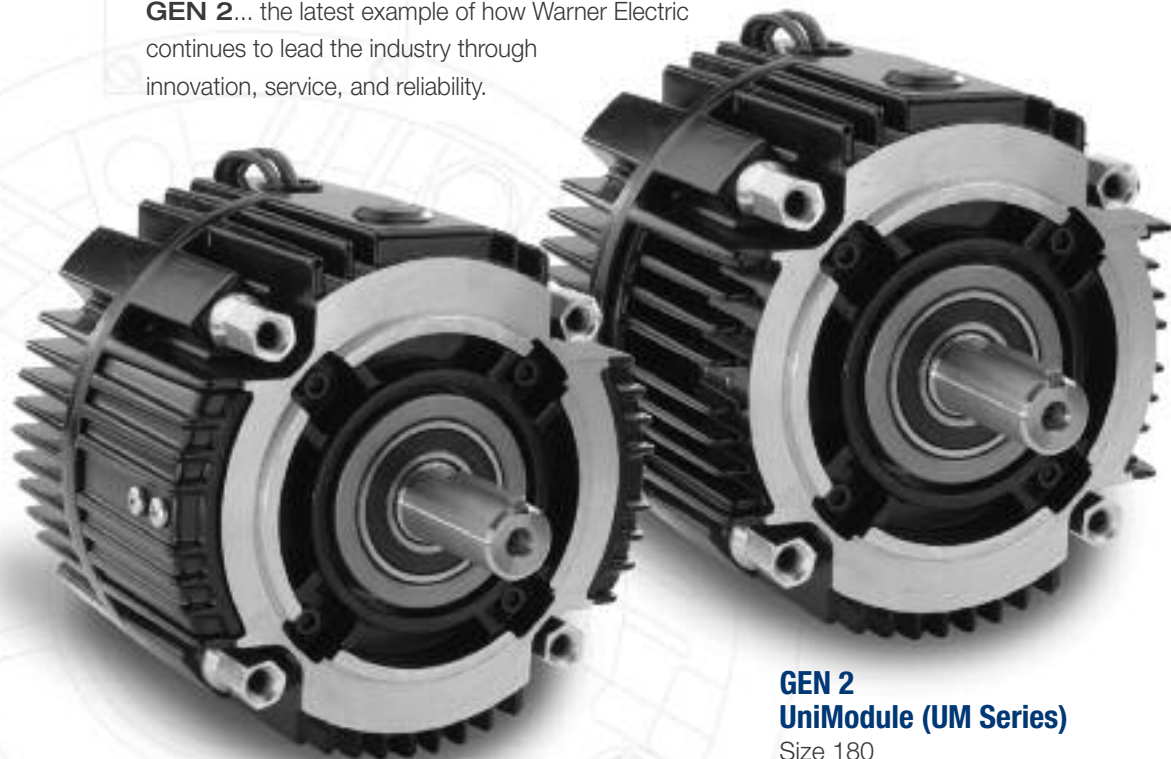
## The next evolution in Module Brake Technology is available today from Warner Electric

Warner Electric designed and patented the first electromagnetic clutch/brake more than 70 years ago and has pioneered most significant advances in the field since then including the introduction of the single piece UniModule in 1989.

Today, new technologies in the areas of design, materials and manufacturing have helped us develop our new **GEN 2** clutches and brakes which incorporate several changes that affect unit appearance and performance without affecting unit fit or wiring requirements.

Many models within our Packaged Clutch and Brake product offering are now available in the new **GEN 2** design. These units contain many shared parts while still meeting our high manufacturing standards and performance characteristics.

**GEN 2**... the latest example of how Warner Electric continues to lead the industry through innovation, service, and reliability.



**GEN 2  
Enclosed UniModule (EUM Series)**  
Size 180

With optional Cover Kit  
(containing 2 covers and 4 screws) which converts a  
UniModule to an enclosed (non-washdown) design

**GEN 2  
UniModule (UM Series)**  
Size 180

With open housing vents  
(standard)

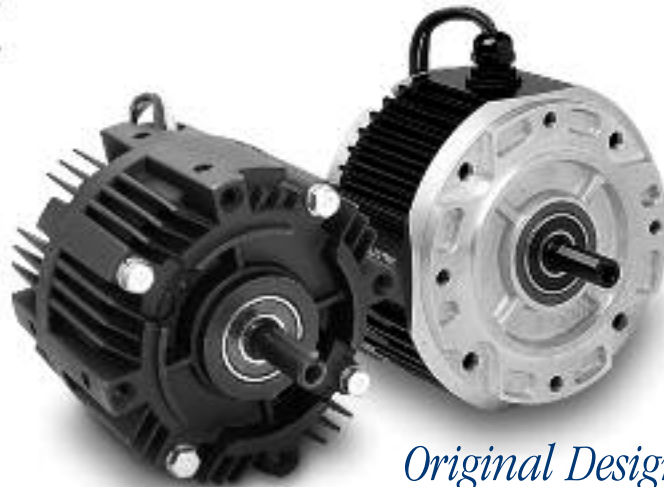
# GEN 2 Clutches and Brakes

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## GEN 2 units are direct replacements for original models

- Wiring and cycling are not affected by the new design
- Conduit box positions directly vertical on the top of the unit instead of 15° or 60° off of vertical
- Rotor set screw access is improved for easier installation
- Use of integrated mounting bolts make installation easier and faster

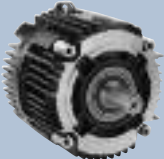













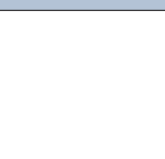
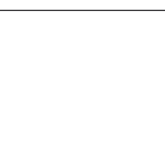
*GEN 2 Design*



*Original Design*

# GEN 2 Clutches and Brakes

Only 50, 100, and 180 sizes of the models listed below will be converted to the new GEN 2 design. 210 and 215 sizes will continue to be offered only in the original design and will not be converted.

Pages	C-face Compatible Units	GEN 2 Models		Original Design Models	
			Sizes		Sizes
12–23	<b>UniModules</b> (UM Series)  <b>Enclosed UniModules</b> (EUM Series)		50 100 180		210 215
24–39	<b>Electro Modules</b> (EM Series)  <b>Enclosed Option</b>		50 100 180		210
40–41	<b>Smooth-Start Modules</b>		50 100 180		210 215
42–48	<b>UniModules – Ceramic Faced</b> (UM-C Series)		50 100 180		210
<b>Electrically Released Units</b>					
117–120	<b>Spring Set Brake Modules</b> (EM/ERS Series)		50 180		210
144–150	<b>UniModules</b> (UM-FBC Series)		50 100 180		210 215
151–158	<b>Enclosed UniModules</b> (EUM-FBB, MBFB Series)		50 100 180		210 215
159–169	<b>Electro Modules</b> (EM-FBB, FBC, MBFB Series)  <b>Enclosed Option</b>		50 100 180		210 215
<b>Enclosed UniModules - Washdown</b> (EUM-W Series)					

# GEN 2 Clutches and Brakes

Ordering  
GEN 2 models is easy...

Selected models (50,100, and 180 sizes)  
highlighted in blue tint throughout this catalog  
have been converted to the new GEN 2 design

## Part Numbers

(Blue shaded areas indicate GEN 2 design)

Model No.	Voltage D.C.	GEN 2 Part No.	Original Part
<b>1020 Motor Clutch/Brake</b>			
UM-50-1020	6	5370-273-201	5370-273-016
UM-50-1020	24	5370-273-203	5370-273-018
UM-50-1020	90	5370-273-204	5370-273-017
UM-100-1020	6	5370-273-206	5370-273-026
UM-100-1020	24	5370-273-208	5370-273-028
UM-100-1020	90	5370-273-209	5370-273-027
UM-180-1020	6	5370-273-211	5370-273-006
UM-180-1020	24	5370-273-213	5370-273-008
UM-180-1020	90	5370-273-214	5370-273-007
UM-210-1020	6		5371-273-002
UM-210-1020	24		5371-273-004
UM-210-1020	90		5371-273-003
UM-15-1020	6		5371-273-076
UM-15-1020	24		5371-273-077
UM-15-1020	90		5371-273-078

Only 50, 100, and 180 sizes of the models listed will be converted to the new GEN 2 design. 210 and 215 sizes will continue to be offered in the original design and will not be converted.

Model No.	Voltage D.C.	GEN 2 Part No.	Original Part
<b>3040 Input Clutch Output Clutch</b>			
UM-50-3040	6	5370-271-216	5370-271-009
UM-50-3040	24	5370-271-218	5370-271-011
UM-50-3040	90	5370-271-219	5370-271-010
UM-100-3040	6	5370-271-221	5370-271-029
UM-100-3040	24	5370-271-223	5370-271-031
UM-100-3040	90	5370-271-224	5370-271-030
UM-180-3040	6	5370-271-226	5370-271-019
UM-180-3040	24	5370-271-228	5370-271-021
UM-180-3040	90	5370-271-229	5370-271-020
UM-210-3040	6		5371-271-007
UM-210-3040	24		5371-271-009
UM-210-3040	90		5371-271-008
UM-215-3040	6		5371-271-021
UM-215-3040	24		5371-271-022
UM-215-3040	90		5371-271-023

Model No.	Voltage D.C.	GEN 2 Part No.	Original Part
<b>Motor Clutch Output Clutch</b>			
UM-1040	6	5370-271-201	5370-271-004
UM-1040	24	5370-271-203	5370-271-006
UM-1040	90	5370-271-204	5370-271-005
UM-1040	6	5370-271-206	5370-271-024
UM-1040	24	5370-271-208	5370-271-026
UM-1040	90	5370-271-209	5370-271-025
UM-1040	6	5370-271-211	5370-271-014
UM-1040	24	5370-271-213	5370-271-016
UM-1040	90	5370-271-214	5370-271-015
UM-1040	6		5371-271-002
UM-1040	24		5371-271-004
UM-1040	90		5371-271-003
UM-1040	6		5371-271-026
UM-1040	24		5371-271-027
UM-1040	90		5371-271-028

Model No.	Voltage D.C.	GEN 2 Part No.	Original Part
<b>Clutch/Brake</b>			
UM-6	6	5370-273-216	5370-273-021
UM-24	24	5370-273-218	5370-273-023
UM-90	90	5370-273-219	5370-273-022
UM-6	6	5370-273-221	5370-273-031
UM-24	24	5370-273-223	5370-273-033
UM-90	90	5370-273-224	5370-273-032
UM-6	6	5370-273-226	5370-273-011
UM-24	24	5370-273-228	5370-273-013
UM-90	90	5370-273-229	5370-273-012
UM-6	6		5371-273-007
UM-24	24		5371-273-009
UM-90	90		5371-273-008
UM-6	6		5371-273-043
UM-24	24		5371-273-044
UM-90	90		5371-273-045

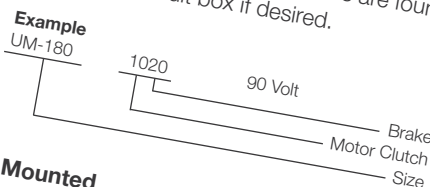
## Accessories

Description	UM Size	Part No.
Conduit Box	All sizes	
Base Mount Kit for 2030, 3040	50/100	5370-101-042
	180	5370-101-004
	210/215	5370-101-002
Motor Mount Kit for 1020, 1040	50/100	5371-101-001
	180	5370-101-078
Cover Kit	210/215	5370-101-079
	50/100/180	5371-101-012
		5370-101-076

## How to Order

### Motor or Reducer Mounted

Simply combine the size number with the configuration of the required UniModule. Specify voltage. See chart for specific part numbers. Power-off brake UniModules are found on page 106. Order optional conduit box if desired.



### Base Mounted

Simply combine the size number with the configuration of the required UniModule. Specify voltage. See chart for specific part numbers. Power-off brake UniModules are found on page 106. Order optional conduit box if desired.

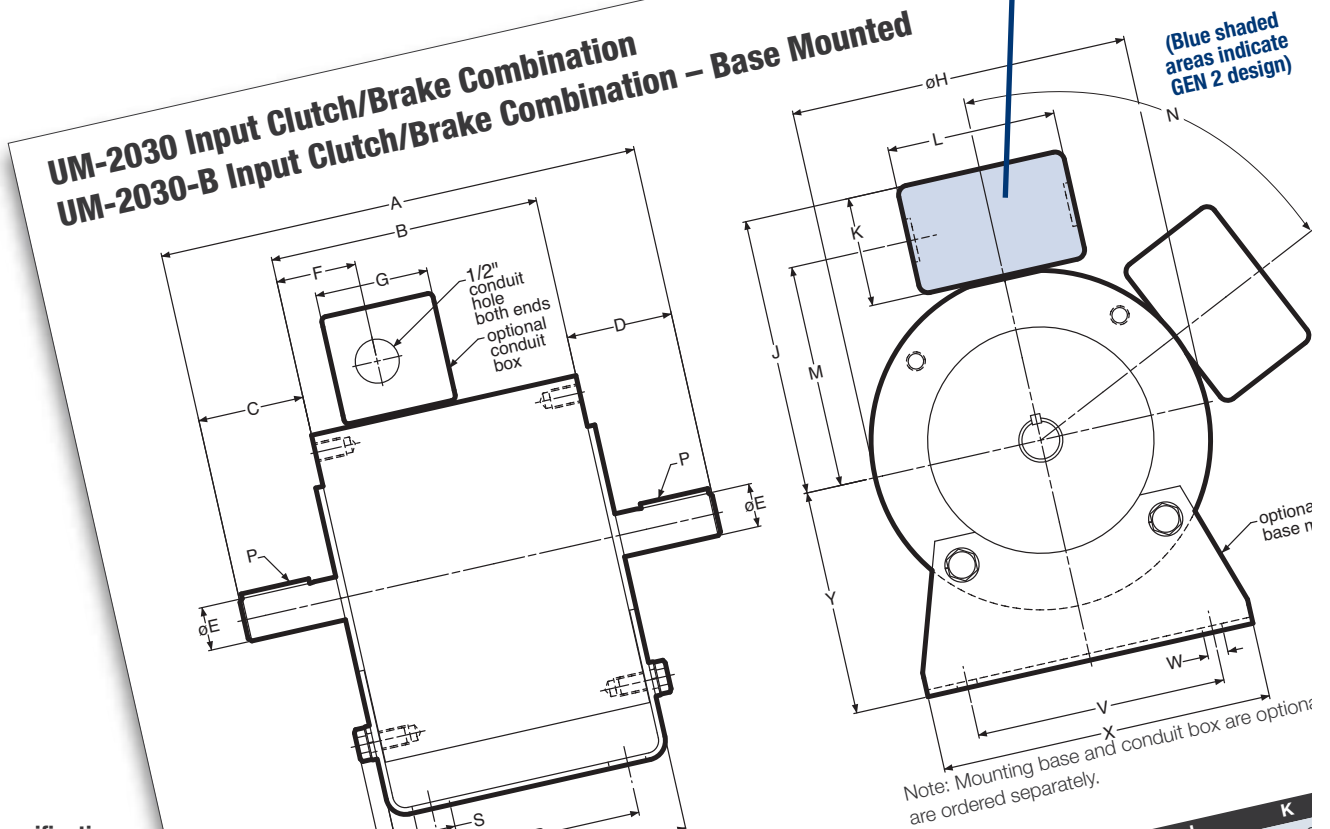
Non tinted, original design models

210 and 215 sizes will continue to be offered only in the original design and will not be converted.

**GEN 2 models share the same specifications with original design models but have different dimensions and a modified conduit box location.**

### New Conduit Box Location

The difference is shown on dimension drawings throughout this catalog. Conduit box positions directly vertical on the top of the unit instead of 15° or 60° off of vertical.



### Same Specifications

All original design unit specifications are the same for the new GEN 2 models.

Note that new GEN 2 simplified dimension drawings on the right show only outline footprints of models with no internal details.

**Dimensions (Blue shaded areas indicate GEN 2 design)**

Size	A	B	C	D	E	F	G	H	J	K
50	9.492	5.390	2.062	2.040	.625	1.600	2.267	6.750	5.516	2.180
100	9.512	5.390	2.061	2.061	.625	1.600	2.267	6.750	5.516	2.180
180	9.632	5.390	2.121	2.121	.875	1.600	2.267	6.750	5.516	2.180
210	12.969	7.719	2.500	2.500	1.125	1.812	2.267	9.250	6.859	2.180
215	12.969	7.719	2.500	2.500	1.375	1.812	2.267	9.250	6.859	2.180

Size	N	P	R	S	T	U	V	W	X
50	0°	3/16 x 3/16	4.000	.800	5.680	.329	5.000	.406	6.000
100	0°	3/16 x 3/16	4.000	.800	5.680	.329	5.000	.406	6.000
180	0°	3/16 x 3/16	4.000	.750	5.680	.329	5.000	.406	6.625
210	65°	1/4 x 1/4	6.000	.750	8.260	.437	7.750	.534	9.000
215	65°	5/16 x 5/16	6.000	.750	8.260	.437	7.750	.534	9.000

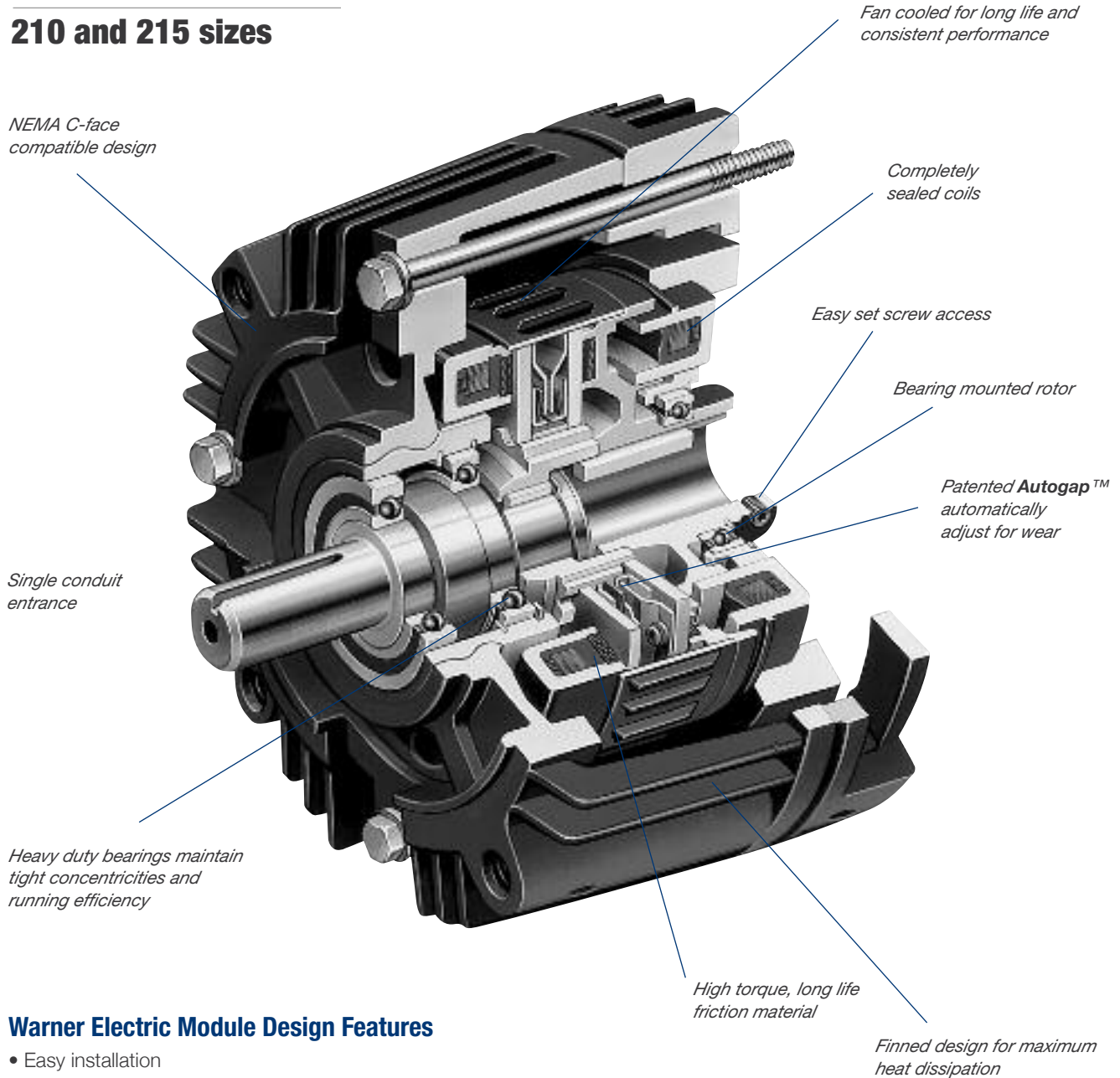
**Specifications (Blue shaded areas indicate GEN 2 design)**

Model Size	Voltage DC	Static Torque lb. ft.	Max. RPM
50	6, 24, 90	16	3600
100	6, 24, 90	30	3600
180	6, 24, 90	30	3600
210	6, 24, 90	30	3600
215	6, 24, 90	95	3600

# Packaged Performance Products

## Original Design

### 210 and 215 sizes

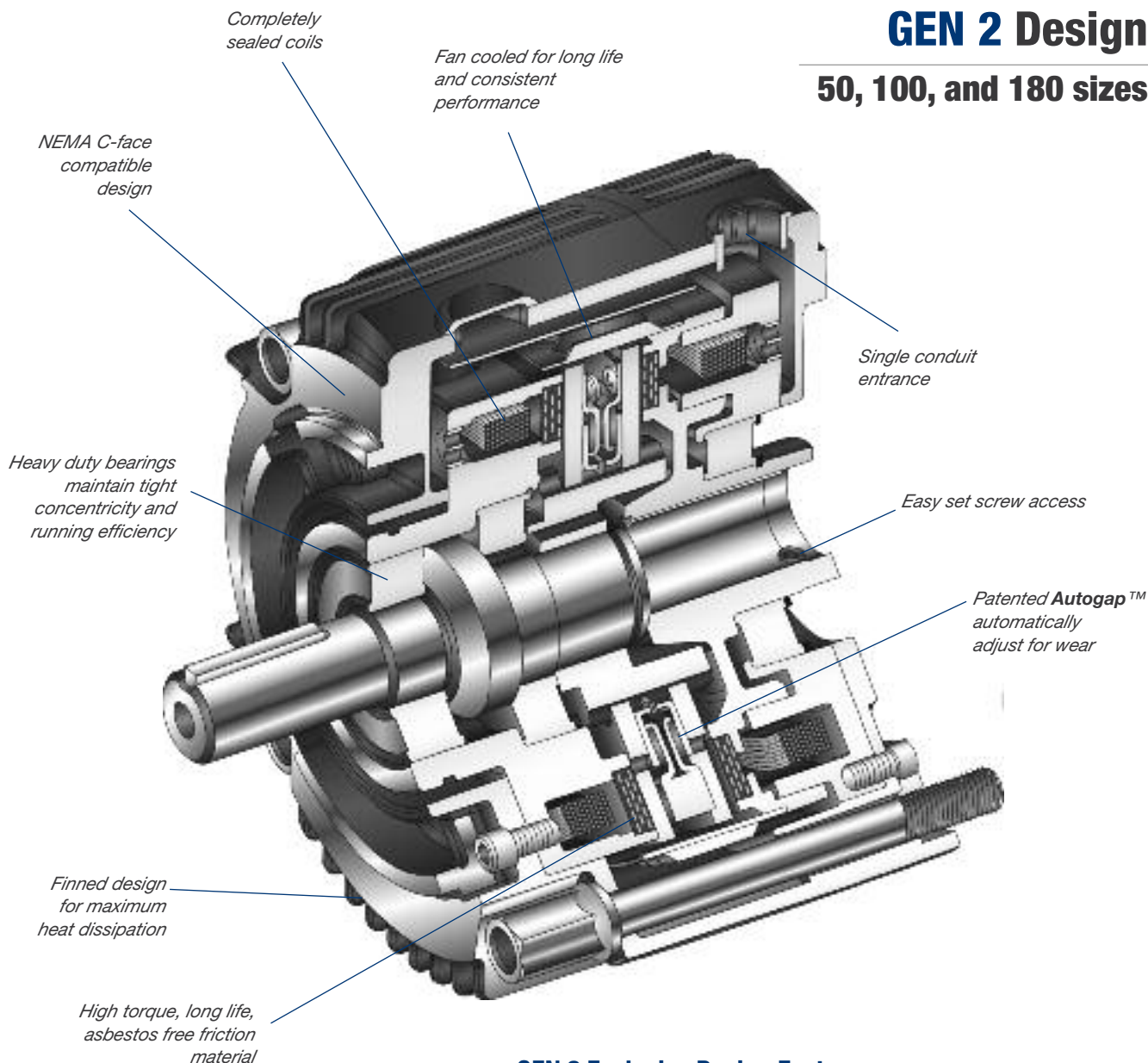


### Warner Electric Module Design Features

- Easy installation
- Available with standard power-on and electrically released power-off brake units
- Fan cooled for high cycle rate operation
- Maintenance Free
- UL listed
- Can be applied with control fitted as standard
- Bearing mounted clutch rotor eases assembly alignment
- Single access hole for all wires

## GEN 2 Design

50, 100, and 180 sizes



### GEN 2 Exclusive Design Features

- Internal component changes make installation easier and faster
- Symmetric housing fin design increases heat dissipation capacity
- Available only in 50, 100, and 180 sizes, NEMA C-face design
- Conduit box relocation simplifies installation. Use of integrated mounting bolts allows for conduit box location directly on the top of the unit
- Available field installed conversion kit creates a totally enclosed clutch/brake package without the need to replace entire unit
- New design allows for more efficient assembly which yields greater availability and shorter lead times
- Improved input to output axis design reduces vibration and improves noise and wear factors
- Heavy-duty models available with increased spline length and higher load capacity bearings.

