

QUICK SELECTIONS

**R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT**



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.

.25 HP Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
405	16.12	37	216	4.32	2	11	A	56C	PBQ7172-4.32-M5-B1	P7172002.B1
275	10.94	55	250	6.36	2	11	A	56C	PBQ7172-6.36-M5-B1	P7172004.B1
241	9.59	63	260	7.26	2	11	A	56C	PBQ7172-7.26-M5-B1	P7172005.B1
222	8.84	68	266	7.89	2	11	A	56C	PBQ7172-7.89-M5-B1	P7172006.B1
174	9.18	87	284	10.04	2	11	A	56C	PBQ7172-10.04-M5-B1	P7172008.B1
150	7.91	101	293	11.64	2	11	A	56C	PBQ7172-11.64-M5-B1	P7172009.B1
132	6.96	115	305	13.26	2	11	A	56C	PBQ7172-13.26-M5-B1	P7172010.B1
114	6.01	133	321	15.37	2	11	A	56C	PBQ7172-15.37-M5-B1	P7172011.B1
108	5.70	140	335	16.20	2	11	A	56C	PBQ7172-16.20-M5-B1	P7172012.B1
93.0	4.91	163	350	18.80	2	11	A	56C	PBQ7172-18.80-M5-B1	P7172013.B1
81.0	4.27	187	374	21.54	2	11	A	56C	PBQ7172-21.54-M5-B1	P7172014.B1
79.0	4.17	191	375	22.26	2	11	A	56C	PBQ7172-22.26-M5-B1	P7172015.B1
67.0	3.53	226	420	26.30	2	11	A	56C	PBQ7172-26.30-M5-B1	P7172016.B1
60.0	3.17	252	435	29.40	2	11	A	56C	PBQ7172-29.40-M5-B1	P7172017.B1
52.0	2.83	282	459	33.50	3	12	A	56C	PBQ7173-33.50-M5-B1	P7173001.B1
49.0	2.53	315	470	35.90	2	11	A	56C	PBQ7172-35.90-M5-B1	P7172018.B1
49.0	3.68	315	658	35.90	2	11	A	56C	PBQ7272-35.90-M5-B1	P7272018.B1
46.0	2.43	329	478	38.37	2	11	A	56C	PBQ7172-38.37-M5-B1	P7172019.B1
40.0	2.11	378	495	43.69	3	12	A	56C	PBQ7173-43.69-M5-B1	P7173003.B1
40.0	3.14	378	674	43.69	3	12	A	56C	PBQ7273-43.69-M5-B1	P7273003.B1
37.0	1.95	409	507	46.80	2	11	A	56C	PBQ7172-46.80-M5-B1	P7172020.B1
37.0	2.61	409	674	46.80	2	11	A	56C	PBQ7272-46.80-M5-B1	P7272020.B1
35.0	1.85	432	510	50.64	3	12	A	56C	PBQ7173-50.64-M5-B1	P7173004.B1
35.0	2.84	419	674	50.64	3	12	A	56C	PBQ7273-50.64-M5-B1	P7273004.B1
35.0	2.69	419	674	50.67	2	11	A	56C	PBQ7272-50.67-M5-B1	P7272021.B1
33.0	2.62	444	674	54.30	3	12	A	56C	PBQ7273-54.30-M5-B1	P7273005.B1
33.0	1.74	458	520	54.30	3	12	A	56C	PBQ7173-54.30-M5-B1	P7173005.B1

Helical - Inline Gear Reducers

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8172017 – 102868



STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

MOTOR SELECTIONS



1/4 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TENV	56C	102868	22
General Purpose, C Face	208-230/460 3-PH	TENV	56C	101648	24
CR Rated DC Motor	90 VDC	TEFC	56C	098002	81
SCR Rated DC Motor	90 VDC	TEFC	56C	098003	81



QUICK SELECTIONS

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1750 RPM INPUT**



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.25 HP con't Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
32.0	5.23	458	1041	54.73	3	24	A	56C	PBQ7473-54.73-M5-B1	P7473004.B1
31.0	5.07	473	1050	57.13	3	24	A	56C	PBQ7473-57.13-M5-B1	P7473005.B1
29.0	1.58	505	525	61.22	3	12	A	56C	PBQ7173-61.22-M5-B1	P7173006.B1
29.0	2.32	513	674	61.22	3	12	A	56C	PBQ7273-61.22-M5-B1	P7273006.B1
28.0	7.98	517	4120	61.69	3	64	C	56C	RBQ8473-61.69-M5-B1	R8473003
28.0	2.04	523	674	61.80	2	11	A	56C	PBQ7272-62.97-M5-B1	P7272022.B1
26.0	4.25	564	1075	66.22	3	24	A	56C	PBQ7473-66.22-M5-B1	P7473006.B1
25.0	1.36	586	540	70.95	3	12	A	56C	PBQ7173-70.95-M5-B1	P7173008.B1
25.0	1.15	586	674	70.95	3	12	A	56C	PBQ7273-70.95-M5-B1	P7273008.B1
24.0	3.04	608	1150	72.63	3	36	C	56C	RBQ8273-72.63-M5-B1	R8273002
24.0	1.83	611	674	73.33	3	12	A	56C	PBQ7273-73.33-M5-B1	P7273009.B1
23.0	1.82	637	674	74.50	3	12	A	56C	PBQ7273-74.50-M5-B1	P7273010.B1
23.0	6.53	634	1600	75.71	3	64	C	56C	RBQ8473-75.71-M5-00	R8473004
22.0	2.79	663	1150	79.17	3	36	C	56C	RBQ8273-79.17-M5-00	R8273003
21.0	3.43	698	1091	82.30	3	24	A	56C	PBQ7473-82.30-M5-B1	P7473009.B1
21.0	5.83	710	1600	84.76	3	64	C	56C	RBQ8473-84.76-M5-00	R8473005
20.0	1.59	733	674	86.80	3	12	A	56C	PBQ7273-86.80-M5-B1	P7273011.B1
19.0	5.36	773	1600	92.29	3	64	C	56C	RBQ8473-92.29-M5-00	R8473006
19.0	2.38	777	1150	92.74	3	36	C	56C	RBQ8273-92.74-M5-00	R8273004
19.0	3.11	771	1102	92.78	3	24	A	56C	PBQ7473-92.78-M5-B1	P7473011.B1
18.0	1.46	814	674	96.85	3	12	A	56C	PBQ7273-96.85-M5-B1	P7273012.B1
17.0	2.19	844	1150	100.76	3	36	C	56C	RBQ8273-100.76-M5-00	R8273005
17.0	4.84	856	1600	102.22	3	64	C	56C	RBQ8473-102.22-M5-00	R8473007
17.0	1.36	862	674	102.80	3	12	A	56C	PBQ7273-102.80-M5-B1	P7273013.B1
17.0	2.78	862	1112	104.68	3	24	A	56C	PBQ7473-104.68-M5-B1	P7473012.B1
16.0	5.79	927	1700	110.67	3	95	C	56C	RBQ8673-110.67-M5-00	R8673007
15.0	4.30	963	1600	115.03	3	64	C	56C	RBQ8473-115.03-M5-00	R8473008
15.0	1.92	964	1150	115.15	3	36	C	56C	RBQ8273-115.15-M5-00	R8273006

Helical - In-line Gear Reducers

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8172017 – 102868



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MOTOR SELECTIONS



1/4 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TENV	56C	102868	22
General Purpose, C Face	208-230/460 3-PH	TENV	56C	101648	24
CR Rated DC Motor	90 VDC	TEFC	56C	098002	81
SCR Rated DC Motor	90 VDC	TEFC	56C	098003	81

QUICK SELECTIONS
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1750 RPM INPUT



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.25 HP con't Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
15.0	1.85	977	1124	117.22	3	24	A	56C	PBQ7473-117.22-M5-B1	P7473013.B1
14.0	1.82	1016	1150	121.28	3	36	C	56C	RBQ8273-121.28-M5-00	R8273007
14.0	2.29	1047	1130	126.65	3	24	A	56C	PBQ7473-126.65-M5-B1	P7473014.B1
14.0	5.04	1065	1700	127.22	3	95	C	56C	RBQ8673-127.22-M5-00	R8673008
13.0	1.66	1115	1150	133.14	3	36	C	56C	RBQ8273-133.14-M5-00	R8273008
13.0	1.61	1127	1136	135.74	3	24	A	56C	PBQ7473-135.74-M5-B1	P7473015.B1
13.0	3.56	1162	1600	138.73	3	64	C	56C	RBQ8473-138.73-M5-B1	R8473009
12.0	1.96	1221	1150	145.68	3	24	A	56C	PBQ7473-145.68-M5-B1	P7473016.B1
12.0	2.76	1221	1475	145.68	3	29	A	56C	PBQ7573-145.68-M5-B1	P7573038.B1
12.0	3.31	1250	1600	149.23	3	64	C	56C	RBQ8473-149.23-M5-B1	R8473010
11.0	1.43	1292	1150	154.35	3	36	C	56C	RBQ8273-154.35-M5-00	R8273009
11.0	2.53	1332	1492	157.40	3	29	A	56C	PBQ7573-157.40-M5-B1	P7573039.B1
11.0	3.10	1335	1600	159.46	3	64	C	56C	RBQ8473-159.46-M5-00	R8473011
11.0	1.80	1332	1186	164.23	3	24	A	56C	PBQ7473-164.23-M5-B1	P7473018.B1
9.4	1.54	1559	1186	185.29	3	24	A	56C	PBQ7473-185.29-M5-B1	P7473019.B1
9.4	2.16	1559	1498	185.29	3	29	A	56C	PBQ7573-185.29-M5-B1	P7573041.B1
9.2	3.36	1600	1700	191.13	3	95	C	56C	RBQ8673-191.13-M5-00	R8673011
8.6	1.41	1704	1186	204.12	3	24	A	56C	PBQ7473-204.12-M5-B1	P7473020.B1
8.6	1.98	1704	1502	204.12	3	29	A	56C	PBQ7573-204.12-M5-B1	P7573042.B1
7.8	1.79	1879	1510	224.18	3	29	A	56C	PBQ7573-224.18-M5-B1	P7573043.B1
7.6	3.79	1917	2240	228.92	3	120	C	56C	RBQ8773-228.92-M5-00	R8773018
7.4	3.69	1968	2240	235.09	3	120	C	56C	RBQ8773-235.09-M5-00	R8773019
6.3	1.45	2326	1510	278.62	3	29	A	56C	PBQ7573-278.62-M5-B1	P7573044.B1
6.2	3.06	2374	2240	283.56	3	120	C	56C	RBQ8773-283.56-M5-00	R8773021
6.2	5.77	2374	3800	283.57	3	173	C	56C	RBQ8873-283.57-M5-00	R8873023
5.4	5.07	2704	3800	322.95	3	173	C	56C	RBQ8873-322.95-M5-00	R8873024

Helical - Inline Gear Reducers

- ♦ Weight does not include oil.
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STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8172017 – 102868

MOTOR SELECTIONS



1/4 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TENV	56C	102868	22
General Purpose, C Face	208-230/460 3-PH	TENV	56C	101648	24
CR Rated DC Motor	90 VDC	TEFC	56C	098002	81
SCR Rated DC Motor	90 VDC	TEFC	56C	098003	81



QUICK SELECTIONS

**R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT**



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Helical - In-line Gear Reducers

.33 HP Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
503	15.03	40	204	3.48	2	11	A	56C	PBQ7172-3.48-M5-B1	P7172001.B1
405	12.10	50	216	4.32	2	11	A	56C	PBQ7172-4.32-M5-B1	P7172002.B1
318	9.50	63	230	5.50	2	11	A	56C	PBQ7172-5.50-M5-B1	P7172003.B1
275	8.22	73	250	6.36	2	11	A	56C	PBQ7172-6.36-M5-B1	P7172004.B1
241	7.20	84	260	7.26	2	11	A	56C	PBQ7172-7.26-M5-B1	P7172005.B1
222	6.63	91	266	7.89	2	11	A	56C	PBQ7172-7.89-M5-B1	P7172006.B1
174	6.89	116	284	10.04	2	11	A	56C	PBQ7172-10.04-M5-B1	P7172008.B1
150	5.94	134	293	11.64	2	11	A	56C	PBQ7172-11.64-M5-B1	P7172009.B1
132	5.23	153	305	13.26	2	11	A	56C	PBQ7172-13.26-M5-B1	P7172010.B1
114	4.52	177	321	15.37	2	11	A	56C	PBQ7172-15.37-M5-B1	P7172011.B1
108	4.28	187	335	16.20	2	11	A	56C	PBQ7172-16.20-M5-B1	P7172012.B1
93.0	3.68	217	350	18.80	2	11	A	56C	PBQ7172-18.80-M5-B1	P7172013.B1
81.0	3.21	249	374	21.54	2	11	A	56C	PBQ7172-21.54-M5-B1	P7172014.B1
79.0	3.13	255	375	22.26	2	11	A	56C	PBQ7172-22.26-M5-B1	P7172015.B1
67.0	2.65	301	420	26.30	2	11	A	56C	PBQ7172-26.30-M5-B1	P7172016.B1
60.0	2.38	336	435	29.40	2	11	A	56C	PBQ7172-29.40-M5-B1	P7172017.B1
52.0	2.06	387	459	33.50	3	12	A	56C	PBQ7173-33.50-M5-B1	P7173001.B1
52.0	3.07	387	645	33.50	3	12	A	56C	PBQ7273-33.50-M5-B1	P7273001.B1
49.0	1.94	411	470	35.90	2	11	A	56C	PBQ7172-35.90-M5-B1	P7172018.B1
46.0	2.55	438	663	38.34	3	12	A	56C	PBQ7273-38.34-M5-B1	P7273002.B1
46.0	1.82	438	478	38.37	2	11	A	56C	PBQ7172-38.37-M5-B1	P7172019.B1
40.0	1.58	504	495	43.69	3	12	A	56C	PBQ7173-43.69-M5-B1	P7173003.B1
40.0	2.36	504	674	43.69	3	12	A	56C	PBQ7273-43.69-M5-B1	P7273003.B1
37.0	1.47	545	507	46.80	2	11	A	56C	PBQ7172-46.80-M5-B1	P7172020.B1
37.0	1.96	545	674	46.80	2	11	A	56C	PBQ7272-46.80-M5-B1	P7272020.B1
35.0	3.05	581	1150	50.47	2	30	C	56C	RBQ8272-50.47-M5-B1	R8272046
35.0	1.39	576	510	50.64	3	12	A	56C	PBQ7173-50.64-M5-B1	P7173004.B1
35.0	1.96	576	674	50.67	2	11	A	56C	PBQ7272-50.67-M5-B1	P7272021.B1

- ♦ Weight does not include oil.
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How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8172001 – 102867

MOTOR SELECTIONS



1/3 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TENV	56C	102867	22
General Purpose, C Face	208-230/460 3-PH	TEFC	56C	101769	24
WATTS-AVER® Premium Efficiency Motor	208-230/460	TEFC	56C	102696	18, 24
SCR Rated DC Motor	90 VDC	TEFC	56C	098004	81
SCR Rated DC Motor	180 VDC	TEFC	56C	098005	81

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.33 HP con't Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
33.0	1.90	611	674	54.30	3	12	A	56C	PBQ7273-54.30-M5-B1	P7273005.B1
33.0	1.31	611	520	54.30	3	12	A	56C	PBQ7173-54.30-M5-B1	P7173005.B1
32.0	3.81	630	1041	54.73	3	24	A	56C	PBQ7473-54.73-M5-B1	P7473004.B1
31.0	3.69	650	1050	57.13	3	24	A	56C	PBQ7473-57.13-M5-B1	P7473005.B1
29.0	2.65	697	1150	60.54	3	36	C	56C	RBQ8273-60.54-M5-B1	R8273001
29.0	1.13	705	525	61.22	3	12	A	56C	PBQ7173-61.22-M5-B1	P7173006.B1
29.0	1.69	705	674	61.22	3	12	A	56C	PBQ7273-61.22-M5-B1	P7273006.B1
28.0	5.80	710	4120	61.69	3	64	C	56C	RBQ8473-61.69-M5-B1	R8473003
28.0	1.48	720	674	61.80	2	11	A	56C	PBQ7272-62.97-M5-B1	P7272022.B1
26.0	3.09	775	1075	66.22	3	24	A	56C	PBQ7473-66.22-M5-B1	P7473006.B1
25.0	0.99	806	540	70.95	3	12	A	56C	PBQ7173-70.95-M5-B1	P7173008.B1
24.0	2.21	836	1150	72.63	3	36	C	56C	RBQ8273-72.63-M5-B1	R8273002
24.0	1.33	839	674	73.33	3	12	A	56C	PBQ7273-73.33-M5-B1	P7273009.B1
23.0	1.33	876	674	74.50	3	12	A	56C	PBQ7273-74.50-M5-B1	P7273010.B1
23.0	4.75	872	1600	75.71	3	64	C	56C	RBQ8473-75.71-M5-00	R8473004
22.0	2.03	911	1150	79.17	3	36	C	56C	RBQ8273-79.17-M5-00	R8273003
21.0	2.50	959	1091	82.30	3	24	A	56C	PBQ7473-82.30-M5-B1	P7473009.B1
21.0	4.24	976	1600	84.76	3	64	C	56C	RBQ8473-84.76-M5-00	R8473005
20.0	1.15	1007	674	86.80	3	12	A	56C	PBQ7273-86.80-M5-B1	P7273011.B1
19.0	3.90	1063	1600	92.29	3	64	C	56C	RBQ8473-92.29-M5-00	R8473006
19.0	1.73	1068	1150	92.74	3	36	C	56C	RBQ8273-92.74-M5-00	R8273004
19.0	2.26	1060	1102	92.78	3	24	A	56C	PBQ7473-92.78-M5-B1	P7473011.B1
18.0	1.06	1119	674	96.85	3	12	A	56C	PBQ7273-96.85-M5-B1	P7273012.B1
17.0	1.59	1160	1150	100.76	3	36	C	56C	RBQ8273-100.76-M5-00	R8273005
17.0	3.52	1177	1600	102.22	3	64	C	56C	RBQ8473-102.22-M5-00	R8473007
17.0	0.99	1185	674	102.80	3	12	A	56C	PBQ7273-102.80-M5-B1	P7273013.B1
17.0	2.02	1185	1112	104.68	3	24	A	56C	PBQ7473-104.68-M5-B1	P7473012.B1
16.0	4.21	1274	1700	110.67	3	95	C	56C	RBQ8673-110.67-M5-00	R8673007

Helical - Inline Gear Reducers

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.



STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

MOTOR SELECTIONS



1/3 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TENV	56C	102867	22
General Purpose, C Face	208-230/460 3-PH	TEFC	56C	101769	24
WATSAVER® Premium Efficiency Motor	208-230/460	TEFC	56C	102696	18, 24
SCR Rated DC Motor	90 VDC	TEFC	56C	098004	81
SCR Rated DC Motor	180 VDC	TEFC	56C	098005	81

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:

R8172001 – 102867



QUICK SELECTIONS

R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



.33 HP con't Gear Reducer Quick Selections

Helical - In-line Gear Reducers

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
15.0	3.13	1324	1600	115.03	3	64	C	56C	RBQ8473-115.03-M5-00	R8473008
15.0	1.40	1326	1150	115.15	3	36	C	56C	RBQ8273-115.15-M5-00	R8273006
15.0	1.85	1343	1124	117.22	3	24	A	56C	PBQ7473-117.22-M5-B1	P7473013.B1
14.0	1.32	1396	1150	121.28	3	36	C	56C	RBQ8273-121.28-M5-00	R8273007
14.0	1.66	1439	1130	126.65	3	24	A	56C	PBQ7473-126.65-M5-B1	P7473014.B1
14.0	3.67	1465	1700	127.22	3	95	C	56C	RBQ8673-127.22-M5-00	R8673008
13.0	1.21	1533	1150	133.14	3	36	C	56C	RBQ8273-133.14-M5-00	R8273008
13.0	1.61	1550	1136	135.74	3	24	A	56C	PBQ7473-135.74-M5-B1	P7473015.B1
13.0	2.59	1597	1600	138.73	3	64	C	56C	RBQ8473-138.73-M5-B1	R8473009
12.0	1.43	1679	1150	145.68	3	24	A	56C	PBQ7473-145.68-M5-B1	P7473016.B1
12.0	2.01	1679	1475	145.68	3	29	A	56C	PBQ7573-145.68-M5-B1	P7573038.B1
12.0	2.41	1718	1600	149.23	3	64	C	56C	RBQ8473-149.23-M5-B1	R8473010
11.0	1.04	1777	1150	154.35	3	36	C	56C	RBQ8273-154.35-M5-00	R8273009
11.0	1.84	1832	1492	157.40	3	29	A	56C	PBQ7573-157.40-M5-B1	P7573039.B1
11.0	2.26	1836	1600	159.46	3	64	C	56C	RBQ8473-159.46-M5-00	R8473011
11.0	1.31	1832	1186	164.23	3	24	A	56C	PBQ7473-164.23-M5-B1	P7473018.B1
9.4	1.12	2143	1186	185.29	3	24	A	56C	PBQ7473-185.29-M5-B1	P7473019.B1
9.4	1.57	2143	1498	185.29	3	29	A	56C	PBQ7573-185.29-M5-B1	P7573041.B1
9.2	2.44	2200	1700	191.13	3	95	C	56C	RBQ8673-191.13-M5-00	R8673011
8.6	1.02	2343	1186	204.12	3	24	A	56C	PBQ7473-204.12-M5-B1	P7473020.B1
8.6	1.44	2343	1502	204.12	3	29	A	56C	PBQ7573-204.12-M5-B1	P7573042.B1
7.8	1.31	2583	1510	224.18	3	29	A	56C	PBQ7573-224.18-M5-B1	P7573043.B1
7.6	2.75	2636	2240	228.92	3	120	C	56C	RBQ8773-228.92-M5-00	R8773018
7.4	2.68	2707	2240	235.09	3	120	C	56C	RBQ8773-235.09-M5-00	R8773019
6.3	1.05	3198	1510	278.62	3	29	A	56C	PBQ7573-278.62-M5-B1	P7573044.B1
6.2	2.22	3265	2240	283.56	3	120	C	56C	RBQ8773-283.56-M5-00	R8773021
6.2	4.20	3265	3800	283.57	3	173	C	56C	RBQ8873-283.57-M5-00	R8873023
5.4	3.68	3718	3800	322.95	3	173	C	56C	RBQ8873-322.95-M5-00	R8873024

♦ Weight does not include oil.

▼ Service Factor is based on maximum torque rating of reducer.

● Overhung load is calculated at centerline of output shaft.

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:

R8172001 – 102867



STOCK GEAR+MOTOR™

Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

MOTOR SELECTIONS



1/3 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TENV	56C	102867	22
General Purpose, C Face	208-230/460 3-PH	TEFC	56C	101769	24
WATSAVER® Premium Efficiency Motor	208-230/460	TEFC	56C	102696	18, 24
SCR Rated DC Motor	90 VDC	TEFC	56C	098004	81
SCR Rated DC Motor	180 VDC	TEFC	56C	098005	81

QUICK SELECTIONS
R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



.50 HP Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
503	10.01	60	204	3.48	2	11	A	56C	PBQ7172-3.48-M5-B1	P7172001.B1
405	8.06	75	216	4.32	2	11	A	56C	PBQ7172-4.32-M5-B1	P7172002.B1
318	6.33	95	230	5.50	2	11	A	56C	PBQ7172-5.50-M5-B1	P7172003.B1
275	5.47	110	250	6.36	2	11	A	56C	PBQ7172-6.36-M5-B1	P7172004.B1
241	4.80	126	260	7.26	2	11	A	56C	PBQ7172-7.26-M5-B1	P7172005.B1
222	4.42	136	266	7.89	2	11	A	56C	PBQ7172-7.89-M5-B1	P7172006.B1
174	4.59	174	284	10.04	2	11	A	56C	PBQ7172-10.04-M5-B1	P7172008.B1
150	3.96	202	293	11.64	2	11	A	56C	PBQ7172-11.64-M5-B1	P7172009.B1
132	3.48	229	305	13.26	2	11	A	56C	PBQ7172-13.26-M5-B1	P7172010.B1
114	3.01	265	321	15.37	2	11	A	56C	PBQ7172-15.37-M5-B1	P7172011.B1
108	2.85	280	335	16.20	2	11	A	56C	PBQ7172-16.20-M5-B1	P7172012.B1
93	2.45	325	350	18.80	2	11	A	56C	PBQ7172-18.80-M5-B1	P7172013.B1
81	2.14	373	374	21.54	2	11	A	56C	PBQ7172-21.54-M5-B1	P7172014.B1
79	2.08	383	375	22.26	2	11	A	56C	PBQ7172-22.26-M5-B1	P7172015.B1
67	1.77	452	420	26.30	2	11	A	56C	PBQ7172-26.30-M5-B1	P7172016.B1
67	2.56	452	615	26.30	2	11	A	56C	PBQ7272-26.30-M5-B1	P7272016.B1
60	1.58	504	435	29.40	2	11	A	56C	PBQ7172-29.40-M5-B1	P7172017.B1
60	2.36	504	629	29.40	2	11	A	56C	PBQ7272-29.40-M5-B1	P7272017.B1
52	1.37	582	459	33.50	3	12	A	56C	PBQ7173-33.50-M5-B1	P7173001.B1
52	2.04	582	645	33.50	3	12	A	56C	PBQ7273-33.50-M5-B1	P7273001.B1
49	1.29	617	470	35.90	2	11	A	56C	PBQ7172-35.90-M5-B1	P7172018.B1
48	2.91	632	1150	36.56	2	30	C	56C	RBQ8272-36.56-M5-00	R8272021
46	1.12	658	420	37.85	2	18	C	56C	RBQ8172-37.85-M5-00	R8172020
46	1.71	658	663	38.37	2	11	A	56C	PBQ7272-38.37-M5-B1	P7272019.B1
44	3.60	688	988	39.79	3	24	A	56C	PBQ7473-39.79-M5-B1	P7473002.B1
43	2.90	704	988	40.50	2	23	A	56C	PBQ7472-40.50-M5-B1	P7472016.B1
40	1.06	756	495	43.69	3	12	A	56C	PBQ7173-43.69-M5-B1	P7173003.B1
40	1.57	756	674	43.69	3	12	A	56C	PBQ7273-43.69-M5-B1	P7273003.B1

Helical - Inline Gear Reducers

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.



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MOTOR SELECTIONS



1/2 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TEFC	56C	102862	22
General Purpose, C Face	208-230/460 3-PH	TEFC	56C	102860	24
WATTSaver® Premium Efficiency Motor	208-230/460 3-PH	TEFC	56C	101780	18, 24
575 Volt Motor	575 3-PH	TENV	56C	110176	66
SCR Rated DC Motor	90 VDC	TEFC	56C	098000	81
SCR Rated DC Motor	180 VDC	TEFC	56C	098008	81

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8172001 – 102862



QUICK SELECTIONS

**R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT**



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



Helical - In-line Gear Reducers

.50 HP con't Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
40	2.43	762	1150	44.10	2	30	C	56C	RBQ8272-44.10-M5-00	R8272022
37	1.30	818	674	46.80	2	11	A	56C	PBQ7272-46.80-M5-B1	P7272020.B1
37	2.93	818	1028	47.22	3	24	A	56C	PBQ7473-47.22-M5-B1	P7473003.B1
36	2.86	840	1028	49.00	2	23	A	56C	PBQ7472-49.00-M5-B1	P7472018.B1
35.0	2.03	872	1150	50.47	2	30	C	56C	RBQ8272-50.47-M5-00	R8272023
35.0	1.30	864	674	50.67	2	11	A	56C	PBQ7272-50.67-M5-B1	P7272021.B1
33.0	1.27	917	674	53.40	3	12	A	56C	PBQ7273-53.40-M5-B1	P7273005.B1
32.0	2.62	916	1041	54.73	3	24	A	56C	PBQ7473-54.73-M5-00	P7473004.B1
31.0	2.53	945	1050	57.13	3	24	A	56C	PBQ7473-57.13-M5-00	P7473005.B1
31.0	4.41	934	4120	55.79	3	64	C	56C	RBQ8473-55.79-M5-00	R8473001
29.0	2.18	1011	1050	60.90	2	23	A	56C	PBQ7472-60.90-M5-00	P7472019.B1
29.0	1.82	1014	1150	60.54	3	30	C	56C	RBQ8273-60.54-M5-00	R8273001
29.0	1.18	1011	674	61.22	3	12	A	56C	PBQ7273-61.22-M5-00	P7273006.B1
28.0	3.99	1033	1600	61.69	3	64	C	56C	RBQ8473-61.69-M5-00	R8473002
28.0	1.11	1047	674	62.00	3	12	A	56C	PBQ7273-62.00-M5-00	P7273007.B1
26.0	2.13	1127	1075	66.22	3	24	A	56C	PBQ7472-66.22-M5-00	P7473006.B1
26.0	3.62	1139	1600	68.00	3	64	C	56C	RBQ8473-68.00-M5-00	R8473003
25.0	1.01	1172	674	70.95	3	12	A	56C	PBQ7273-70.95-M5-00	P7273008.B1
25.0	2.04	1172	1079	71.01	3	24	A	56C	PBQ7473-71.01-M5-00	P7473007.B1
24.0	1.52	1216	1150	72.63	3	30	C	56C	RBQ8273-72.63-M5-00	R8273002
23.0	3.27	1268	1600	75.71	3	64	C	56C	RBQ8473-75.71-M5-00	R8473004
23.0	1.88	1274	1091	76.69	3	24	A	56C	PBQ7473-76.69-M5-00	P7473008.B1
23.0	2.65	1274	1414	76.69	3	29	A	56C	PBQ7573-76.69-M5-00	P7573030.B1
22.0	1.40	1326	1150	79.17	3	30	C	56C	RBQ8273-79.19-M5-00	R8273003
21.0	1.72	1396	1091	82.30	3	24	A	56C	PBQ7473-82.30-M5-00	P7473009.B1
21.0	2.42	1396	1422	82.30	3	29	A	56C	PBQ7573-82.30-M5-00	P7573031.B1
21.0	2.92	1419	1600	84.76	3	64	C	56C	RBQ8473-84.76-M5-00	R8473005
19.0	2.68	1546	1600	92.29	3	64	C	56C	RBQ8473-92.29-M5-00	R8473006
19.0	1.19	1553	1150	92.74	3	30	C	56C	RBQ8273-92.74-M5-00	R8273004
19.0	1.55	1542	1102	92.78	3	24	A	56C	PBQ7473-92.78-M5-00	P7473011.B1

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8172001 – 102862



STOCK GEAR+MOTOR™
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MOTOR SELECTIONS



1/2 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TEFC	56C	102862	22
General Purpose, C Face	208-230/460 3-PH	TEFC	56C	102860	24
WATTSaver® Premium Efficiency Motor	208-230/460 3-PH	TEFC	56C	101780	18, 24
575 Volt Motor	575 3-PH	TENV	56C	110176	66
SCR Rated DC Motor	90 VDC	TEFC	56C	098000	81
SCR Rated DC Motor	180 VDC	TEFC	56C	098008	81

QUICK SELECTIONS

**R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT**



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



.50 HP con't Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight † (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
17.0	1.10	1687	1150	100.76	3	30	C	56C	RBQ8273-100.76-M5-00	R8273005
17.0	2.42	1712	1600	102.22	3	64	C	56C	RBQ8473-102.22-M5-00	R8473007
17.0	1.39	1724	1112	104.68	3	24	A	56C	PBQ7473-104.68-M5-00	P7473012.B1
16.0	2.90	1853	1700	110.67	3	95	C	56C	RBQ8673-110.67-M5-00	R8673007
15.0	2.15	1926	1600	115.03	3	64	C	56C	RBQ8473-115.03-M5-00	R8473008
15.0	1.23	1954	1124	117.22	3	24	A	56C	PBQ7473-117.22-M5-00	P7473013.B1
15.0	1.73	1954	1461	117.22	3	29	A	56C	PBQ7573-117.22-M5-00	P7573035.B1
14.0	1.14	2093	1130	126.65	3	24	A	56C	PBQ7473-126.65-M5-00	P7473014.B1
14.0	1.61	2093	1468	126.65	3	29	A	56C	PBQ7573-126.65-M5-00	P7573036.B1
14.0	2.52	2131	1700	127.22	3	95	C	56C	RBQ8673-127.22-M5-00	R8673008
13.0	1.06	2254	1136	135.74	3	24	A	56C	PBQ7473-135.74-M5-00	P7473015.B1
13.0	1.50	2254	1472	135.74	3	29	A	56C	PBQ7573-135.74-M5-00	P7573037.B1
13.0	2.33	2309	1700	137.88	3	95	C	56C	RBQ8673-137.88-M5-00	R8673009
13.0	1.78	2323	1600	138.73	3	64	C	56C	RBQ8473-138.73-M5-00	R8473009
12.0	1.66	2499	1600	149.23	3	64	C	56C	RBQ8473-149.23-M5-00	R8473010
12.0	1.38	2442	1475	145.68	3	29	A	56C	PBQ7573-145.68-M5-00	P7573038.B1
11.0	1.27	2664	1492	157.40	3	29	A	56C	PBQ7573-157.40-M5-00	P7573039.B1
11.0	1.55	2670	1600	159.46	3	64	C	56C	RBQ8473-159.46-M5-00	R8473011
11.0	1.98	2706	1700	161.57	3	95	C	56C	RBQ8673-161.57-M5-00	R8673010
11.0	1.27	2664	1492	164.23	3	29	A	56C	PBQ7573-164.23-M5-00	P7573040.B1
9.4	1.08	3118	1498	185.29	3	29	A	56C	PBQ7573-185.29-M5-00	P7573041.B1
9.2	2.28	3178	2240	189.79	3	120	C	56C	RBQ8773-189.79-M5-00	R8773017
9.2	1.68	3201	1700	191.13	3	95	C	56C	RBQ8673-191.13-M5-00	R8673011
7.6	1.89	3834	2240	228.92	3	120	C	56C	RBQ8773-228.92-M5-00	R8773018
7.4	1.84	3937	2240	235.09	3	120	C	56C	RBQ8873-235.09-M5-00	R8773019
6.7	1.65	4387	2240	261.99	3	120	C	56C	RBQ8773-261.99-M5-00	R8773020
6.7	3.14	4366	3800	260.72	3	173	C	56C	RBQ8873-260.72-M5-00	R8873022
6.2	1.53	4749	2240	283.56	3	120	C	56C	RBQ8773-283.56-M5-00	R8773021
6.2	2.88	4749	3800	283.57	3	173	C	56C	RBQ8873-283.57-M5-00	R8873023
5.4	2.53	5408	3800	322.95	3	173	C	56C	RBQ8873-322.95-M5-00	R8873024

Helical - Inline Gear Reducers

- ◆ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8172001 – 102862



STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

MOTOR SELECTIONS



1/2 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TEFC	56C	102862	22
General Purpose, C Face	208-230/460 3-PH	TEFC	56C	102860	24
WATTS AVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	56C	101780	18, 24
575 Volt Motor	575 3-PH	TENV	56C	110176	66
SCR Rated DC Motor	90 VDC	TEFC	56C	098000	81
SCR Rated DC Motor	180 VDC	TEFC	56C	098008	81



QUICK SELECTIONS

R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



.75 HP Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
503	6.67	90	204	3.48	2	11	A	56C	PBQ7172-3.48-M5-B1	P7172001.B1
405	5.37	112	216	4.32	2	11	A	56C	PBQ7172-4.32-M5-B1	P7172002.B1
318	4.22	143	230	5.50	2	11	A	56C	PBQ7172-5.50-M5-B1	P7172003.B1
275	3.65	165	250	6.36	2	11	A	56C	PBQ7172-6.36-M5-B1	P7172004.B1
241	3.20	188	260	7.26	2	11	A	56C	PBQ7172-7.26-M5-B1	P7172005.B1
222	2.95	204	266	7.89	2	11	A	56C	PBQ7172-7.89-M5-B1	P7172006.B1
174	3.06	261	284	10.04	2	11	A	56C	PBQ7172-10.04-M5-B1	P7172008.B1
150	2.64	303	293	11.64	2	11	A	56C	PBQ7172-11.64-M5-B1	P7172009.B1
150	3.93	303	445	11.64	2	11	A	56C	PBQ7272-11.64-M5-B1	P7272009.B1
132	2.32	344	305	13.26	2	11	A	56C	PBQ7172-13.26-M5-B1	P7172010.B1
132	3.46	344	476	13.26	2	11	A	56C	PBQ7272-13.26-M5-B1	P7272010.B1
114	2.00	398	321	15.37	2	11	A	56C	PBQ7172-15.37-M5-B1	P7172011.B1
114	2.99	398	508	15.37	2	11	A	56C	PBQ7272-15.37-M5-B1	P7272011.B1
108	1.90	420	335	16.20	2	11	A	56C	PBQ7172-16.20-M5-B1	P7172012.B1
108	2.76	420	520	16.20	2	11	A	56C	PBQ7272-16.20-M5-B1	P7272012.B1
93	1.64	488	350	18.80	2	11	A	56C	PBQ7172-18.80-M5-B1	P7172013.B1
93	2.37	488	535	18.80	2	11	A	56C	PBQ7272-18.80-M5-B1	P7272013.B1
81	1.42	560	374	21.54	2	11	A	56C	PBQ7172-21.54-M5-B1	P7172014.B1
81	2.12	560	562	21.54	2	11	A	56C	PBQ7272-21.54-M5-B1	P7272014.B1
79	1.39	574	375	22.26	2	11	A	56C	PBQ7172-22.26-M5-B1	P7172015.B1
79	2.07	574	562	22.26	2	11	A	56C	PBQ7272-22.26-M5-B1	P7272015.B1
70	2.82	649	1150	25.04	2	30	C	56C	RBQ8372-25.04-M5-00	R8372019
67	1.18	677	420	26.30	2	11	A	56C	PBQ7172-26.30-M5-B1	P7172016.B1
67	1.71	677	615	26.30	2	11	A	56C	PBQ7272-26.30-M5-B1	P7272016.B1
61	2.48	747	1150	28.79	2	30	C	56C	RBQ8372-28.79-M5-00	R8372020
60	1.06	756	435	29.40	2	11	A	56C	PBQ7172-29.40-M5-00	P7172017.B1
60	1.57	756	629	29.40	2	11	A	56C	PBQ7272-29.40-M5-B1	P7272017.B1
60	3.31	756	900	29.41	2	23	A	56C	PBQ7472-29.41-M5-B1	P7472014.B1
59	5.30	768	4070	29.62	2	51	C	56C	RBQ8472-29.62-M5-00	R8472016
54	4.85	843	4090	32.50	2	51	C	56C	RBQ8472-32.50-M5-00	R8472017
52	1.36	873	645	33.50	3	12	A	56C	PBQ7273-33.50-M5-00	P7273001.B1
52	2.75	873	918	34.01	3	24	A	56C	PBQ7473-34.01-M5-B1	P7473001.B1

Helical - In-line Gear Reducers

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.



STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

MOTOR SELECTIONS



3/4 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TEFC	56C	110057	22
General Purpose, C Face	208-230/460 3-PH	TEFC	56C	110047	24
WATTSAVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	56C	114213	18, 24
575 Volt Motor	575 3-PH	TEFC	56C	110177	66
SCR Rated DC Motor	90 VDC	TEFC	56C	098032	81
SCR Rated DC Motor	180 VDC	TEFC	56C	098069	81

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:

R8172001 – 110057

QUICK SELECTIONS

**R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT**



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



.75 HP con't Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
49	2.70	926	922	35.58	2	23	A	56C	PBQ7472-35.58-M5-B1	P7472015.B1
49	1.25	926	660	35.90	2	11	A	56C	PBQ7272-35.90-M5-B1	P7272018.B1
46	1.13	986	663	38.34	3	12	A	56C	PBQ7273-38.34-M5-B1	P7273002.B1
46	1.14	986	663	38.37	2	11	A	56C	PBQ7272-38.37-M5-B1	P7272019.B1
44	2.32	1031	988	39.79	3	24	A	56C	PBQ7473-39.79-M5-B1	P7473002.B1
43	2.28	1055	988	40.50	2	23	A	56C	PBQ7472-40.50-M5-B1	P7472016.B1
40	1.05	1134	674	43.69	3	12	A	56C	PBQ7273-43.69-M5-B1	P7273003.B1
40.0	2.03	1134	1012	44.23	2	23	A	56C	PBQ7472-44.23-M5-B1	P7472017.B1
39.0	3.52	1167	1600	45.00	2	51	C	56C	RBQ8472-45.00-M5-00	R8472019
37.0	1.95	1226	1028	47.22	3	24	A	56C	PBQ7473-47.22-M5-B1	P7473003.B1
36.0	1.91	1261	1028	49.00	2	23	A	56C	PBQ7472-49.00-M5-B1	P7472018.B1
36.0	2.20	1261	1330	49.00	2	28	A	56C	PBQ7572-49.00-M5-B1	P7572037.B1
35.0	1.35	1309	1150	50.47	2	30	C	56C	RBQ8372-50.47-M5-00	R8372023
34.0	3.10	1329	1600	51.25	2	51	C	56C	RBQ8472-51.25-M5-00	R8472020
32.0	1.69	1418	1041	54.73	3	24	A	56C	PBQ7473-54.73-M5-B1	P7473004.B1
32.0	2.38	1418	1354	54.73	3	29	A	56C	PBQ7573-54.73-M5-B1	P7573026.B1
31.0	2.85	1447	1600	55.79	3	64	C	56C	RBQ8473-55.79-M5-00	R8473001
31.0	1.64	1464	1050	57.13	3	24	A	56C	PBQ7473-57.13-M5-B1	P7473005.B1
31.0	2.30	1464	1354	57.13	3	29	A	56C	PBQ7573-57.13-M5-B1	P7573027.B1
29.0	1.18	1570	1150	60.54	3	30	C	56C	RBQ8373-60.54-M5-00	R8373013
29.0	1.41	1565	1050	60.90	2	23	A	56C	PBQ7472-60.90-M5-B1	P7472019.B1
29.0	1.79	1565	1367	60.90	2	28	A	56C	PBQ7572-60.90-M5-B1	P7572038.B1
28.0	2.58	1600	1600	61.69	3	64	C	56C	RBQ8473-61.69-M5-00	R8473002
26.0	1.37	1745	1075	66.22	3	24	A	56C	PBQ7473-66.22-M5-B1	P7473006.B1
26.0	1.93	1745	1519	66.22	3	29	A	56C	PBQ7573-66.22-M5-B1	P7573028.B1
26.0	2.34	1763	1600	68.00	3	64	C	56C	RBQ8473-68.00-M5-00	R8473003
25.0	1.32	1815	1079	71.01	3	24	A	56C	PBQ7473-71.01-M5-B1	P7473007.B1
25.0	1.86	1815	1398	71.01	3	29	A	56C	PBQ7573-71.01-M5-B1	P7573029.B1
23.0	2.11	1963	1600	75.71	3	64	C	56C	RBQ8473-75.71-M5-00	R8473004
23.0	1.21	1973	1091	76.69	3	24	A	56C	PBQ7473-76.69-M5-B1	P7473008.B1
23.0	1.71	1973	1414	76.69	3	29	A	56C	PBQ7573-76.69-M5-B1	P7573030.B1
21.0	1.25	2161	1091	82.30	3	24	A	56C	PBQ7473-82.30-M5-B1	P7473009.B1

Helical - Inline Gear Reducers

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8172001 – 110057



STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

MOTOR SELECTIONS



3/4 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TEFC	56C	110057	22
General Purpose, C Face	208-230/460 3-PH	TEFC	56C	110047	24
WATTS AVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	56C	114213	18, 24
575 Volt Motor	575 3-PH	TEFC	56C	110177	66
SCR Rated DC Motor	90 VDC	TEFC	56C	098032	81
SCR Rated DC Motor	180 VDC	TEFC	56C	098069	81



QUICK SELECTIONS

**R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT**



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.

.75 HP con't Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
21.0	1.56	2161	1422	82.30	3	29	A	56C	PBQ7573-82.30-M5-B1	P7573031.B1
21.0	1.88	2198	1600	84.76	3	64	C	56C	RBQ8473-84.76-M5-00	R8473005
19.0	2.26	2380	5370	91.77	3	95	C	56C	RBQ8673-91.77-M5-00	R8673036
19.0	1.00	2388	1102	92.78	3	24	A	56C	PBQ7473-92.78-M5-B1	P7473011.B1
19.0	1.73	2393	1600	92.29	3	64	C	56C	RBQ8473-92.29-M5-00	R8473006
17.0	1.56	2651	1600	102.22	3	64	C	56C	RBQ8473-102.22-M5-00	R8473007
17.0	1.26	2669	1454	104.68	3	29	A	56C	PBQ7573-104.68-M5-B1	P7573034.B1
16.0	1.88	2862	1700	110.37	3	95	C	56C	RBQ8673-110.37-M5-00	R8673037
15.0	1.39	2983	1600	115.03	3	64	C	56C	RBQ8473-115.03-M5-00	R8473008
15.0	1.11	3025	1461	117.22	3	29	A	56C	PBQ7573-117.22-M5-B1	P7573035.B1
14.0	1.63	3299	1700	127.22	3	95	C	56C	RBQ8673-127.22-M5-00	R8673038
14.0	1.04	3241	1468	126.65	3	29	A	56C	PBQ7573-126.65-M5-B1	P7573036.B1
13.0	1.50	3575	1700	137.88	3	95	C	56C	RBQ8673-137.88-M5-00	R8673039
13.0	1.15	3597	1600	138.73	3	64	C	56C	RBQ8473-138.73-M5-00	R8473009
12.0	1.07	3870	1600	149.23	3	64	C	56C	RBQ8473-149.23-M5-00	R8473010
11.0	1.00	4135	1600	159.46	3	64	C	56C	RBQ8473-159.46-M5-00	R8473011
11.0	1.28	4190	1700	161.57	3	95	C	56C	RBQ8673-161.57-M5-00	R8673040
9.0	1.48	4921	7260	189.79	3	120	C	56C	RBQ8773-189.79-M5-00	R8773017
9.0	1.08	4956	1700	191.13	3	95	C	56C	RBQ8673-191.13-M5-00	R8673041
8.0	1.22	5936	2240	228.92	3	120	C	56C	RBQ8773-228.92-M5-00	R8773018
7.0	1.19	6096	2240	235.09	3	120	C	56C	RBQ8773-235.09-M5-00	R8773019
7.0	2.03	6761	3800	260.72	3	173	C	56C	RBQ8873-260.72-M5-00	R8873094
6.0	1.86	7353	3800	283.57	3	173	C	56C	RBQ8873-283.57-M5-00	R8873095
6.0	1.70	8044	3800	310.23	3	243	C	143-5TC	RBQ8874-310.23-M7-00	R8874016
5.0	1.64	8374	3800	322.95	3	173	C	56C	RBQ8873-322.95-M5-00	R8873096
5.0	1.50	9109	3800	351.29	3	243	C	143-5TC	RBQ8874-351.29-M7-00	R8874017
4.0	1.32	10380	3800	400.30	3	243	C	143-5TC	RBQ8874-400.30-M7-00	R8874018
4.0	1.19	11543	3800	445.16	3	243	C	143-5TC	RBQ8874-445.16-M7-00	R8874019

Helical - In-line Gear Reducers

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.



STOCK GEAR+MOTOR™
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MOTOR SELECTIONS



3/4 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TEFC	56C	110057	22
General Purpose, C Face	208-230/460 3-PH	TEFC	56C	110047	24
WATTS-AVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	56C	114213	18, 24
575 Volt Motor	575 3-PH	TEFC	56C	110177	66
SCR Rated DC Motor	90 VDC	TEFC	56C	098032	81
SCR Rated DC Motor	180 VDC	TEFC	56C	098069	81

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:

R8172001 – 110057



QUICK SELECTIONS

**R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT**



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.

1 HP Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
503	5.02	120	204	3.48	2	11	A	56C	PBQ7172-3.48-M5-B1	P7172001.B1
405	4.04	149	216	4.32	2	11	A	56C	PBQ7172-4.32-M5-B1	P7172002.B1
318	3.17	190	230	5.50	2	11	A	56C	PBQ7172-5.50-M5-B1	P7172003.B1
275	2.73	220	250	6.36	2	11	A	56C	PBQ7172-6.36-M5-B1	P7172004.B1
275	2.73	220	376	6.36	2	11	A	56C	PBQ7272-6.36-M5-B1	P7272004.B1
241	2.40	251	260	7.26	2	11	A	56C	PBQ7172-7.26-M5-B1	P7172005.B1
241	4.24	251	391	7.26	2	11	A	56C	PBQ7272-7.26-M5-B1	P7272005.B1
222	2.21	273	266	7.89	2	11	A	56C	PBQ7172-7.89-M5-B1	P7172006.B1
222	3.70	273	400	7.89	2	11	A	56C	PBQ7272-7.89-M5-B1	P7272006.B1
194	2.56	312	277	9.02	2	11	A	56C	PBQ7172-9.02-M5-B1	P7172007.B1
194	3.41	312	412	9.02	2	11	A	56C	PBQ7272-9.02-M5-B1	P7272007.B1
174	2.30	348	284	10.04	2	11	A	56C	PBQ7172-10.04-M5-B1	P7172008.B1
174	3.42	348	420	10.04	2	11	A	56C	PBQ7272-10.04-M5-B1	P7272008.B1
157	4.73	385	1150	11.14	2	30	C	56C	RBQ8372-11.14-M5-00	R8372014
150	1.98	403	293	11.64	2	11	A	56C	PBQ7172-11.64-M5-B1	P7172009.B1
150	2.95	403	445	11.64	2	11	A	56C	PBQ7272-11.64-M5-B1	P7272009.B1
137	4.13	440	1150	12.74	2	30	C	56C	RBQ8372-12.74-M5-00	R8372015
132	1.74	458	305	13.26	2	11	A	56C	PBQ7172-13.26-M5-B1	P7172010.B1
132	2.60	458	474	13.26	2	11	A	56C	PBQ7272-13.26-M5-B1	P7272010.B1
128	3.85	473	1150	13.67	2	30	C	56C	RBQ8372-13.67-M5-00	R8372016
127	8.22	475	1470	13.75	2	51	C	56C	RBQ8472-13.75-M5-00	R8472009
114	1.50	531	321	15.37	2	11	A	56C	PBQ7172-15.37-M5-B1	P7172011.B1
114	2.24	531	510	15.37	2	11	A	56C	PBQ7272-15.37-M5-B1	P7272011.B1
107	7.04	568	1560	16.43	2	51	C	56C	RBQ8472-16.43-M5-00	R8472010
106	1.40	571	335	16.48	2	11	A	56C	PBQ7172-16.48-M5-B1	P7172012.B1
106	2.03	571	520	16.48	2	11	A	56C	PBQ7272-16.48-M5-B1	P7272012.B1
105	4.36	576	711	16.62	2	23	A	56C	PBQ7472-16.62-M5-B1	P7472011.B1
105	3.16	576	1150	16.66	2	30	C	56C	RBQ8372-16.66-M5-00	R8372017
100	6.63	605	1600	17.50	2	51	C	56C	RBQ8472-17.50-M5-00	R8472011
92	1.21	658	350	19.11	2	11	A	56C	PBQ7172-19.11-M5-B1	P7172013.B1
92	1.75	658	535	19.11	2	11	A	56C	PBQ7272-19.11-M5-B1	P7272013.B1
88	5.83	691	1600	20.00	2	51	C	56C	RBQ8472-20.00-M5-00	R8472012
87	3.60	695	780	20.10	2	23	A	56C	PBQ7472-20.10-M5-B1	P7472012.B1
84	2.53	718	1150	20.77	2	30	C	56C	RBQ8372-20.77-M5-00	R8372018
82	5.44	742	1600	21.47	2	51	C	56C	RBQ8572-21.47-M5-00	R8572013
81	1.07	747	374	21.54	2	11	A	56C	PBQ7172-21.54-M5-B1	P7172014.B1

Helical - Inline Gear Reducers

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8172001 – 110098



STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

MOTOR SELECTIONS



1 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TEFC	56C	110058	22
General Purpose, C Face	208-230/460 3-PH	TEFC	56C	110048	24
WATTS-AVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	56C	1144638	18, 24
575 Volt Motor	575 3-PH	TEFC	56C	110204	66
SCR Rated DC Motor	90 VDC	TEFC	56C	108022	81
SCR Rated DC Motor	180 VDC	TEFC	56C	108023	81



QUICK SELECTIONS

**R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT**



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.

Helical - In-line Gear Reducers

1 HP con't Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
81	1.60	747	562	21.54	2	11	A	56C	PBQ7272-21.54-M5-B1	P7272014.B1
79	1.04	766	375	22.26	2	11	A	56C	PBQ7172-22.26-M5-B1	P7172015.B1
79	1.55	766	562	22.26	2	11	A	56C	PBQ7272-22.26-M5-B1	P7272015.B1
70	2.10	866	1150	25.04	2	30	C	56C	RBQ8372-25.04-M5-00	R8372019
70	2.66	864	877	24.98	2	23	A	56C	PBQ7472-24.98-M5-B1	P7472013.B1
70	4.69	864	1600	25.00	2	51	C	56C	RBQ8472-25.00-M5-00	R8472014
65	1.25	931	615	26.77	2	11	A	56C	PBQ7272-26.77-M5-B1	P7272016.B1
64	4.33	938	1600	27.14	2	51	C	56C	RBQ8472-27.14-M5-00	R8472015
61	1.84	995	1150	28.79	2	30	C	56C	RBQ8372-28.79-M5-00	R8372020
60	1.17	1008	629	29.40	2	11	A	56C	PBQ7272-29.40-M5-B1	P7272017.B1
60	2.48	1008	900	29.41	2	23	A	56C	PBQ7472-29.41-M5-B1	P7472014.B1
59	3.97	1024	1600	29.62	2	51	C	56C	RBQ8472-29.62-M5-00	R8472016
54	1.42	1124	1600	32.50	2	51	C	56C	RBQ8472-32.50-M5-00	R8472017
52	1.06	1164	645	33.50	3	12	A	56C	PBQ7273-33.50-M5-B1	P7273001.B1
52	2.10	1164	918	34.01	3	24	A	56C	PBQ7473-34.01-M5-B1	P7473001.B1
52	2.96	1164	1060	34.01	3	29	A	56C	PBQ7573-34.01-M5-B1	P7573023.B1
49	2.03	1235	922	35.58	2	23	A	56C	PBQ7472-35.58-M5-B1	P7472015.B1
49	3.30	1242	1600	35.91	2	51	C	56C	RBQ8472-35.91-M5-00	R8472018
48	1.46	1264	1150	36.56	2	30	C	56C	RBQ8372-36.56-M5-00	R8372021
44	1.80	1375	988	39.79	3	24	A	56C	PBQ7473-39.79-M5-B1	P7473002.B1
44	2.53	1375	1192	39.79	3	29	A	56C	PBQ7573-39.79-M5-B1	P7573024.B1
43	1.72	1407	988	40.50	2	23	A	56C	PBQ7472-40.50-M5-B1	P7472016.B1
43	1.82	1407	1192	40.50	2	28	A	56C	PBQ7572-40.50-M5-B1	P7572035.B1
40	1.50	1513	1012	44.23	2	23	A	56C	PBQ7472-44.23-M5-B1	P7472017.B1
40	1.21	1525	1150	44.10	2	30	C	56C	RBQ8372-44.10-M5-00	R8372022
40	1.83	1513	1304	44.23	2	28	A	56C	PBQ7572-44.23-M5-B1	P7572036.B1
39	2.64	1556	1600	45.00	2	51	C	56C	RBQ8472-45.00-M5-00	R8472019
37	1.51	1635	1028	47.22	3	24	A	56C	PBQ7473-47.22-M5-B1	P7473003.B1
37	2.13	1635	1323	47.22	3	29	A	56C	PBQ7573-47.22-M5-B1	P7573025.B1
36	1.42	1681	1028	49.00	2	23	A	56C	PBQ7472-49-B1-M5-B1	P7472018.B1
36	1.64	1681	1330	49.00	2	28	A	56C	PBQ7572-49.00-M5-B1	P7572037.B1
35.0	1.01	1745	1150	50.47	2	30	C	56C	RBQ8372-50.47-M5-00	R8372023
34.0	2.33	1772	1600	51.25	2	51	C	56C	RBQ8472-51.25-M5-00	R8472020
32.0	1.31	1891	1041	54.73	3	24	A	56C	PBQ7473-54.73-M5-B1	P7473004.B1
32.0	1.84	1891	1354	54.73	3	29	A	56C	PBQ7573-54.73-M5-B1	P7573026.B1
31.0	2.14	1929	1600	55.79	3	64	C	56C	RBQ8473-55.79-M5-00	R8473001

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.



STOCK GEAR+MOTOR™
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How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8172001 – 110098

MOTOR SELECTIONS



1 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TEFC	56C	110058	22
General Purpose, C Face	208-230/460 3-PH	TEFC	56C	110048	24
WATTSaver® Premium Efficiency Motor	208-230/460 3-PH	TEFC	56C	1144638	18, 24
575 Volt Motor	575 3-PH	TEFC	56C	110204	66
SCR Rated DC Motor	90 VDC	TEFC	56C	108022	81
SCR Rated DC Motor	180 VDC	TEFC	56C	108023	81

QUICK SELECTIONS

**R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT**



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.

1 HP con't Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
31.0	1.25	1952	1050	57.13	3	24	A	56C	PBQ7473-57.13-M5-B1	P7473005.B1
31.0	1.76	1952	1354	57.13	3	29	A	56C	PBQ7573-57.13-M5-B1	P7573027.B1
29.0	1.04	2086	1050	60.90	2	23	A	56C	PBQ7472-60.90-M5-B1	P7472019.B1
29.0	1.33	2086	1367	60.90	2	28	A	56C	PBQ7572-60.90-M5-B1	P7572038.B1
28.0	1.93	2133	1600	61.69	3	64	C	56C	RBQ8473-61.69-M5-00	R8473002
26.0	1.08	2327	1075	66.22	3	24	A	56C	PBQ7473-66.22-M5-B1	P7473006.B1
26.0	1.75	2351	1600	68.00	3	64	C	56C	RBQ8473-68.00-M5-00	R8473003
26.0	1.52	2327	1398	66.22	3	29	A	56C	PBQ7573-66.22-M5-B1	P7573028.B1
25.0	1.01	2420	1079	71.01	3	24	A	56C	PBQ7473-71.01-M5-B1	P7473007.B1
25.0	1.42	2420	1398	71.01	3	29	A	56C	PBQ7573-71.01-M5-B1	P7573029.B1
23.0	1.58	2618	1600	75.71	3	64	C	56C	RBQ8473-75.71-M5-00	R8473004
23.0	1.31	2631	1414	76.69	3	29	A	56C	PBQ7573-76.69-M5-B1	P7573030.B1
21.0	1.84	2925	1700	84.59	3	95	C	56C	RBQ8673-84.59-M5-00	R8673005
21.0	1.41	2930	1600	84.76	3	64	C	56C	RBQ8473-84.76-M5-00	R8473005
21.0	1.22	2881	1422	82.30	3	29	A	56C	PBQ7573-82.30-M5-B1	P7573031.B1
20.0	2.43	2990	2240	86.48	3	120	C	56C	RBQ8773-86.48-M5-00	R8773009
20.0	2.39	3039	2240	87.89	3	120	C	56C	RBQ8673-87.89-M5-00	R8673010
19.0	1.30	3191	1600	92.29	3	64	C	56C	RBQ8473-92.29-M5-00	R8473006
19.0	1.09	3184	1430	92.78	3	29	A	56C	PBQ7573-92.78-M5-B1	P7573033.B1
17.0	1.17	3534	1600	102.22	3	64	C	56C	RBQ8473-102.22-M5-00	R8473007
16.0	1.96	3704	2240	107.12	3	120	C	56C	RBQ8773-107.12-M5-00	R8773011
16.0	1.40	3826	1700	110.67	3	95	C	56C	RBQ8673-110.67-M5-00	R8673007
15.0	1.04	3977	1600	115.03	3	64	C	56C	RBQ8473-115.03-M5-00	R8473008
14.0	1.22	4398	1700	127.22	3	95	C	56C	RBQ8573-127.22-M5-00	R8673008
13.0	1.62	4495	2240	130.00	3	120	C	56C	RBQ8773-130.00-M5-00	R8773012
13.0	1.57	4617	2240	133.53	3	120	C	56C	RBQ8773-133.53-M5-00	R8773013
12.0	1.41	5166	2240	149.43	3	120	C	56C	RBQ8773-149.43-M5-00	R8773014
11.0	1.30	5568	2240	161.04	3	120	C	56C	RBQ8773-161.04-M5-00	R8773015
9.0	1.13	6400	2240	185.10	3	120	C	56C	RBQ8773-185.10-M5-00	R8773016
9.0	1.93	7081	2240	204.80	3	173	C	56C	RBQ8873-204.80-M5-00	R8873019
8.0	1.75	7823	3800	226.28	3	173	C	56C	RBQ8873-226.28-M5-00	R8873020
8.0	1.73	7915	3800	228.92	3	173	C	56C	RBQ8873-228.92-M5-00	R8873021
7.0	1.52	9014	3800	260.72	3	173	C	56C	RBQ8873-260.72-M5-00	R8873022
6.0	1.40	9804	3800	283.57	3	173	C	56C	RBQ8873-283.57-M5-00	R8873023
6.0	1.28	10726	3800	310.23	4	243	C	56C	RBQ8874-310.23-M5-00	R8874016
5.0	1.23	11166	2240	322.95	3	173	C	56C	RBQ8873-322.95-M5-00	R8773024
5.0	1.13	12145	3800	351.29	4	243	C	56C	RBQ8874-351.29-M5-00	R8874017

Helical - Inline Gear Reducers

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.



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Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

MOTOR SELECTIONS



1 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TEFC	56C	110058	22
General Purpose, C Face	208-230/460 3-PH	TEFC	56C	110048	24
WATTS AVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	56C	1144638	18, 24
575 Volt Motor	575 3-PH	TEFC	56C	110204	66
SCR Rated DC Motor	90 VDC	TEFC	56C	108022	81
SCR Rated DC Motor	180 VDC	TEFC	56C	108023	81

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:

R8172001 – 110098



QUICK SELECTIONS

**R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT**



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.

1.5 HP Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
503	3.34	180	204	3.48	2	11	A	143-5TC	PBQ7172-3.48-M7-B1	P7172023.B1
405	2.69	224	216	4.32	2	11	A	143-5TC	PBQ7172-4.32-M7-B1	P7172024.B1
405	3.46	224	289	4.32	2	11	A	143-5TC	PBQ7272-4.32-M7-B1	P7272024.B1
366	5.16	248	1150	4.78	2	30	C	56C	RBQ8372-4.78-M5-00	R8372006
320	4.51	284	1150	5.47	2	30	C	56C	RBQ8372-5.47-M5-00	R8372007
318	2.11	285	230	5.50	2	11	A	143-5TC	PBQ7172-5.50-M7-B1	P7172025.B1
318	3.11	285	350	5.50	2	11	A	143-5TC	PBQ7272-5.50-M7-B1	P7272025.B1
298	4.20	304	1150	5.87	2	30	C	56C	RBQ8372-5.87-M5-00	R8372008
285	4.53	318	1150	6.13	2	30	C	56C	RBQ8372-6.13-M5-00	R8372009
275	1.82	330	250	6.36	2	11	A	56C	PBQ7172-6.36-M5-B1	P7172004.B1
275	2.88	330	376	6.36	2	11	A	143-5TC	PBQ7272-6.36-M7-B1	P7272026.B1
255	4.10	356	1150	6.86	2	30	C	56C	RBQ8372-6.86-M5-00	R8372010
241	1.60	377	260	7.26	2	11	A	56C	PBQ7172-7.26-M5-B1	P7172005.B1
241	2.83	377	391	7.26	2	11	A	143-5TC	PBQ7272-7.26-M7-B1	P7272027.B1
232	5.88	391	568	7.54	2	23	A	143-5TC	PBQ7472-7.63-M7-B1	P7472025.B1
227	3.71	399	1150	7.70	2	30	C	56C	RBQ8372-7.70-M5-00	R8372011
222	1.47	409	266	7.89	2	11	A	56C	PBQ7172-7.89-M5-B1	P7172006.B1
222	2.47	409	400	7.89	2	11	A	143-5TC	PBQ7272-7.89-M7-B1	P7272028.B1
220	5.82	413	579	7.96	2	23	A	143-5TC	PBQ7472-7.96-M7-B1	P7472026.B1
202	3.45	450	1150	8.67	2	30	C	56C	RBQ8372-8.67-M5-00	R8372012.B1
194	1.71	468	277	9.02	2	11	A	56C	PBQ7172-9.02-M5-B1	P7172007.B1
194	2.27	468	412	9.02	2	11	A	143-5TC	PBQ7272-9.02-M7-B1	P7272029.B1
193	7.34	470	1290	9.06	2	51	C	143-5TC	RBQ8472-9.06-M7-00	R8472027
185	5.11	491	615	9.45	2	23	A	143-5TC	PBQ7472-9.45-M7-B1	P7472027.B1
179	3.17	508	1150	9.80	2	30	C	56C	RBQ8372-9.80-M5-00	R8372013
174	1.53	522	284	10.04	2	11	A	56C	PBQ7172-10.04-M5-B1	P7172008.B1
174	2.28	522	420	10.04	2	11	A	143-5TC	PBQ7272-10.04-M7-B1	P7272030.B1
166	6.75	546	1340	10.52	2	51	C	143-5TC	RBQ8472-10.52-M7-00	R8472028
157	2.94	578	1150	11.14	2	30	C	56C	RBQ8372-11.14-M5-00	R8372014
153	4.39	593	658	11.43	2	23	A	143-5TC	PBQ7472-11.43-M7-B1	P7472028.B1
150	1.32	605	293	11.64	2	11	A	56C	PBQ7172-11.64-M5-B1	P7172009.B1
150	1.97	605	445	11.64	2	11	A	56C	PBQ7272-11.64-M5-B1	P7272009.B1
137	2.63	661	1150	12.74	2	30	C	56C	RBQ8372-12.74-M5-00	R8372015
132	1.16	688	305	13.26	2	11	A	56C	PBQ7172-13.26-M5-B1	P7172010.B1
132	1.73	688	476	13.26	2	11	A	56C	PBQ7272-13.26-M5-B1	P7272010.B1
128	2.51	709	1150	13.67	2	30	C	56C	RBQ8372-13.67-M5-00	R8372016

Helical - In-line Gear Reducers

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.



STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8172001 – 110420

MOTOR SELECTIONS



1.5 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TEFC	56C	110420	22
General Purpose, C Face	208-230/460 3-PH	TEFC	140TC	120037	24
WATTSaver® Premium Efficiency Motor	208-230/460 3-PH	TEFC	56C	116743	18, 24
575 Volt Motor	575 3-PH	TEFC	56C	111444	66
SCR Rated DC Motor	180 VDC	TEFC	56C	108092	81



QUICK SELECTIONS

**R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT**



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.

1.5 HP con't Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
127	5.48	713	1470	13.75	2	51	C	143-5TC	RBQ8472-13.75-M7-00	R8472029
123	3.12	738	693	14.21	2	23	A	143-5TC	PBQ7472-14.21-M7-B1	P7472029.B1
114	1.00	796	321	15.37	2	11	A	56C	PBQ7172-15.37-M5-B1	P7172011.B1
114	1.49	796	508	15.37	2	11	A	56C	PBQ7272-15.37-M5-B1	P7272011.B1
107	4.69	852	1560	16.43	2	51	C	143-5TC	RBQ8472-16.43-M7-00	R8472030
106	1.35	856	520	16.48	2	11	A	56C	PBQ7272-16.48-M5-B1	P7272012.B1
105	2.08	864	1150	16.66	2	30	C	56C	RBQ8372-16.66-M5-00	R8372017
105	2.91	864	711	16.62	2	23	A	143-5TC	PBQ7472-16.62-M7-B1	P7472030.B1
100	4.42	908	1600	17.50	2	51	C	56C	RBQ8472-17.50-M5-00	R8472011
92	1.17	986	535	19.11	2	11	A	56C	PBQ7272-19.11-M5-B1	P7272013.B1
88	3.89	1037	1600	20.00	2	51	C	143-5TC	RBQ8472-20.00-M7-00	R8472032
87	2.40	1043	780	20.10	2	23	A	143-5TC	PBQ7472-20.10-M7-B1	P7472031.B1
87	3.65	1043	900	20.10	2	28	A	143-5TC	PBQ7572-20.10-M7-B1	P7572069.B1
84	1.68	1077	1150	20.77	2	30	C	56C	RBQ8372-20.77-M5-00	R8372018
82	3.63	1113	1600	21.47	2	51	C	143-5TC	RBQ8472-21.47-M7-00	R8472033
81	1.07	1120	562	21.54	2	11	A	56C	PBQ7272-21.54-M5-B1	P7272014.B1
70	1.40	1299	1150	25.04	2	30	C	56C	RBQ8372-25.04-M5-00	R8372019
70	1.77	1297	877	24.98	2	23	A	143-5TC	PBQ7472-24.98-M7-B1	P7472032.B1
70	2.93	1297	944	24.98	2	28	A	143-5TC	PBQ7572-24.98-M7-B1	P7572070.B1
64	2.88	1407	1600	27.14	2	51	C	143-5TC	RBQ8472-27.14-M7-00	R8472035
61	1.23	1493	1150	28.79	2	30	C	56C	RBQ8372-28.79-M5-00	R8372020
60	1.65	1513	900	29.41	2	23	A	56C	PBQ7472-29.41-M5-B1	P7472014.B1
60	1.97	1513	1012	29.41	2	28	A	143-5TC	PBQ7572-29.41-M7-B1	P7572071.B1
59	2.65	1536	1600	29.62	2	51	C	143-5TC	RBQ8472-29.62-M7-00	R8472036
54	2.43	1685	1600	32.50	2	51	C	143-5TC	RBQ8472-32.50-M7-00	R8472037
52	1.40	1745	918	34.01	3	24	A	56C	PBQ7473-34.01-M5-B1	P7473001.B1
52	1.97	1745	1060	34.01	3	29	A	143-5TC	PBQ7573-34.01-M7-B1	P7573067.B1
49	1.62	1852	1079	35.58	2	28	A	143-5TC	PBQ7572-35.58-M7-B1	P7572034.B1
49	2.20	1862	1600	35.91	2	51	C	143-5TC	RBQ8472-35.91-M7-00	R8472038
44	1.20	2063	988	39.79	3	24	A	56C	PBQ7473-39.79-M5-B1	P7473002.B1
44	1.69	2063	1192	39.79	3	29	A	143-5TC	PBQ7573-39.79-M7-B1	P7573024.B1
43.0	1.15	2111	988	40.50	2	23	A	56C	PBQ7472-40.50-M5-B1	P7472016.B1
43.0	1.22	2111	1192	40.50	2	28	A	56C	PBQ7572-40.50-M5-B1	P7572035.B1
40.0	1.00	2269	1012	44.23	2	23	A	56C	PBQ7472-44.23-M5-B1	P7472017.B1
40.0	1.22	2269	1304	44.23	2	28	A	56C	PBQ7572-44.23-M5-B1	P7572036.B1
39.0	1.76	2334	1600	45.00	2	51	C	143-5TC	RBQ8472-45.00-M7-00	R8472039

Helical - Inline Gear Reducers

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8172001 – 110420



STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

MOTOR SELECTIONS



1.5 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TEFC	56C	110420	22
General Purpose, C Face	208-230/460 3-PH	TEFC	140TC	120037	24
WATTS AVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	56C	116743	18, 24
575 Volt Motor	575 3-PH	TEFC	56C	111444	66
SCR Rated DC Motor	180 VDC	TEFC	56C	108092	81



QUICK SELECTIONS

**R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT**



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



1.5 HP con't Gear Reducer Quick Selections

Helical - In-line Gear Reducers

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
37.0	1.01	2453	1028	47.22	3	24	A	56C	PBQ7473-47.22-M5-B1	P7473003.B1
37.0	1.42	2453	1330	47.22	3	29	A	56C	PBQ7573-47.22-M5-B1	P7573025.B1
36.0	1.09	2521	1330	49.00	2	28	A	56C	PBQ7572-49.00-M5-B1	P7572037.B1
34.0	1.55	2658	1600	51.25	2	51	C	143-5TC	RBQ8472-51.25-M7-00	R8472040
32.0	1.23	2836	1354	54.73	3	29	A	56C	PBQ7573-54.73-M5-B1	P7573026.B1
31.0	1.42	2893	1600	55.79	3	64	C	56C	RBQ8473-55.79-M5-00	R8473001
31.0	1.17	2928	1354	57.13	3	29	A	56C	PBQ7573-57.13-M5-B1	P7573027.B1
29.0	1.71	3132	1700	60.40	3	95	C	143-5TC	RBQ8673-60.4-M7-00	R8673017
28.0	1.29	3199	1600	61.69	3	64	C	56C	RBQ8473-61.69-M5-00	R8473002
27.0	1.59	3375	1700	65.07	3	95	C	143-5TC	RBQ8673-65.07-M7-00	R8673018
26.0	1.01	3491	1398	66.22	3	29	A	56C	PBQ7573-66.22-M5-B1	P7573028.B1
26.0	1.17	3527	1600	68.00	3	64	C	56C	RBQ8473-68.00-M5-00	R8473003
24.0	1.40	3835	1700	73.94	3	95	C	56C	RBQ8673-73.94-M5-00	R8673004
23.0	1.05	3926	1600	75.71	3	64	C	56C	RBQ8473-75.71-M5-00	R8473004
21.0	1.71	4248	2240	81.92	3	120	C	143-5TC	RBQ8773-81.92-M7-00	R8773030
20.0	1.62	4485	2240	86.48	3	120	C	143-5TC	RBQ8773-87.89-M7-00	R8773031
20.0	1.59	4558	2240	87.89	3	120	C	143-5TC	RBQ8773-87.89-M7-00	R8773032
16.0	1.31	5555	2240	107.12	3	120	C	56C	RBQ8773-107.12-M5-00	R8773011
13.0	1.08	6742	2240	130.00	3	120	C	56C	RBQ8773-130.00-M5-00	R8773012
13.0	1.05	6925	2240	133.53	3	120	C	56C	RBQ8773-133.53-M5-00	R8773013
12.0	1.75	7813	3800	150.66	3	173	C	143-5TC	RBQ8873-150.66-M7-00	R8873037
11.0	1.68	8170	3800	157.54	3	173	C	143-5TC	RBQ8873-157.54-M7-00	R8873038
11.0	1.60	8574	3800	165.33	3	173	C	143-5TC	RBQ8873-165.33-M7-00	R8873039
10.0	1.54	8870	3800	171.04	3	173	C	143-5TC	RBQ8873-171.04-M7-00	R8873040
10.0	1.45	9474	3800	182.68	3	173	C	56C	RBQ8873-182.68-M5-00	R8873017
9.0	1.42	9678	3800	186.62	3	173	C	56C	RBQ8873-186.62-M5-00	R8873018
9.0	1.29	10621	3800	204.80	3	173	C	56C	RBQ8873-204.80-M5-00	R8873019
8.0	1.17	11735	3800	226.28	3	173	C	56C	RBQ8873-226.28-M5-00	R8873020
8.0	1.15	11872	3800	228.92	3	173	C	56C	RBQ8873-228.92-M5-00	R8873021
7.0	2.19	12157	4460	234.41	3	318	C	143-5TC	RBQ8973-234.41-M7-00	R8973035
7.0	1.01	13521	4460	260.72	3	173	C	56C	RBQ8873-260.72-M5-00	R8873022
6.0	1.81	14660	4460	282.68	3	318	C	143-5TC	RBQ8973-282.68-M7-00	R8973037
6.0	1.63	16287	4460	314.06	3	318	C	143-5TC	RBQ8973-314.06-M7-00	R8973038

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.



STOCK GEAR+MOTOR™
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How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8172001 – 110420

MOTOR SELECTIONS



1.5 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TEFC	56C	110420	22
General Purpose, C Face	208-230/460 3-PH	TEFC	140TC	120037	24
WATSAVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	56C	116743	18, 24
575 Volt Motor	575 3-PH	TEFC	56C	111444	66
SCR Rated DC Motor	180 VDC	TEFC	56C	108092	81

QUICK SELECTIONS

**R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT**



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



2 HP Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
503	2.50	241	204	3.48	2	11	A	143-5TC	PBQ7172-3.48-M7-B1	P7172023.B1
503	2.94	241	268	3.48	2	11	A	143-5TC	PBQ7272-3.48-M7-B1	P7272023.B1
405	2.01	299	216	4.32	2	11	A	143-5TC	PBQ7172-4.32-M7-B1	P7172024.B1
405	2.60	299	289	4.32	2	11	A	143-5TC	PBQ7272-4.32-M7-B1	P7272024.B1
366	3.87	331	1150	4.78	2	30	C	143-5TC	RBQ8372-4.78-M7-00	R8372029
320	3.38	378	1150	5.47	2	30	C	143-5TC	RBQ8372-5.47-M7-00	R8372030
318	1.58	381	230	5.50	2	11	A	143-5TC	PBQ7172-5.50-M7-B1	P7172025.B1
318	2.34	381	350	5.50	2	11	A	143-5TC	PBQ7272-5.50-M7-B1	P7272025.B1
298	3.15	406	1150	5.87	2	30	C	143-5TC	RBQ8372-5.87-M7-00	R8372031
293	7.88	414	1080	5.98	2	51	C	143-5TC	RBQ8472-5.98-M7-00	R8472025
288	5.25	420	522	6.07	2	23	A	143-5TC	PBQ7472-6.07-M7-00	P7472023.B1
285	3.40	424	1150	6.13	2	30	C	143-5TC	RBQ8372-6.13-M7-00	R8372032
275	1.37	440	250	6.36	2	11	A	143-5TC	PBQ7172-6.36-M7-B1	P7172026.B1
275	2.16	440	376	6.36	2	11	A	143-5TC	PBQ7272-6.36-M7-B1	P7272026.B1
257	5.11	471	540	6.81	2	23	A	143-5TC	PBQ7472-6.81-M7-B1	P7472024.B1
255	3.08	474	1150	6.86	2	30	C	143-5TC	RBQ8372-6.86-M7-00	R8372033
244	6.75	495	3340	7.16	2	51	C	143-5TC	RBQ8472-7.16-M7-00	R8472026
241	1.20	502	260	7.26	2	11	A	143-5TC	PBQ7172-7.26-M7-B1	P7172027.B1
241	2.12	502	391	7.26	2	11	A	143-5TC	PBQ7272-7.26-M7-B1	P7272027.B1
232	4.41	522	568	7.54	2	23	A	143-5TC	PBQ7472-7.54-M7-B1	P7472025.B1
227	2.78	532	1150	7.70	2	30	C	143-5TC	RBQ8372-7.70-M7-00	R8372034
222	1.10	545	266	7.89	2	11	A	143-5TC	PBQ7172-7.89-M7-B1	P7172028.B1
222	1.85	545	400	7.89	2	11	A	143-5TC	PBQ7272-7.89-M7-B1	P7272028.B1
220	4.37	550	579	7.96	2	23	A	143-5TC	PBQ7472-7.96-M7-B1	P7472026.B1
202	2.59	600	1150	8.67	2	30	C	143-5TC	RBQ8372-8.22-M7-00	R8372035
194	1.28	624	277	9.02	2	11	A	143-5TC	PBQ7172-9.02-M7-B1	P7172029.B1
194	1.71	624	412	9.02	2	11	A	143-5TC	PBQ7272-9.02-M7-B1	P7272029.B1
193	5.51	626	1290	9.06	2	51	C	143-5TC	RBQ8472-9.06-M7-00	R8472027
185	3.83	654	615	9.45	2	23	A	143-5TC	PBQ7472-9.45-M7-B1	P7472027.B1
179	2.38	678	1150	9.80	2	30	C	143-5TC	RBQ8372-9.80-M7-00	R8372036
174	1.15	695	284	10.04	2	11	A	143-5TC	PBQ7172-10.04-M7-B1	P7172030.B1
174	1.71	695	420	10.04	2	11	A	143-5TC	PBQ7272-10.04-M7-B1	P7272030.B1
166	5.06	727	1340	10.52	2	51	C	143-5TC	RBQ8472-10.52-M7-00	R8472028
157	2.21	770	1150	11.14	2	30	C	143-5TC	RBQ8372-11.14-M7-00	R8372037

Helical - Inline Gear Reducers

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.



STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

MOTOR SELECTIONS



2 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TEFC	56C	112136	22
General Purpose, C Face	208-230/460 3-PH	TEFC	140TC	120038	25
575 Volt Motor	575 3-PH	TEFC	145TC	120178	66
WATSAVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	145TC	121065	18, 25
SCR Rated DC Motor	180 VDC	TEFC	145TC	128010	81

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8372029 – 112136



QUICK SELECTIONS

R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



Helical - In-line Gear Reducers

2 HP con't Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
503	2.50	241	204	3.48	2	11	A	143-5TC	PBQ7172-3.48-M7-B1	P7172023.B1
503	2.94	241	268	3.48	2	11	A	143-5TC	PBQ7272-3.48-M7-B1	P7272023.B1
405	2.01	299	216	4.32	2	11	A	143-5TC	PBQ7172-4.32-M7-B1	P7172024.B1
405	2.60	299	289	4.32	2	11	A	143-5TC	PBQ7272-4.32-M7-B1	P7272024.B1
366	3.87	331	1150	4.78	2	30	C	143-5TC	RBQ8372-4.78-M7-00	R8372029
320	3.38	378	1150	5.47	2	30	C	143-5TC	RBQ8372-5.47-M7-00	R8372030
318	1.58	381	230	5.50	2	11	A	143-5TC	PBQ7172-5.50-M7-B1	P7172025.B1
318	2.34	381	350	5.50	2	11	A	143-5TC	PBQ7272-5.50-M7-B1	P7272025.B1
298	3.15	406	1150	5.87	2	30	C	143-5TC	RBQ8372-5.87-M7-00	R8372031
293	7.88	414	1080	5.98	2	51	C	143-5TC	RBQ8472-5.98-M7-00	R8472025
288	5.25	420	522	6.07	2	23	A	143-5TC	PBQ7472-6.07-M7-00	P7472023.B1
285	3.40	424	1150	6.13	2	30	C	143-5TC	RBQ8372-6.13-M7-00	R8372032
275	1.37	440	250	6.36	2	11	A	143-5TC	PBQ7172-6.36-M7-B1	P7172026.B1
275	2.16	440	376	6.36	2	11	A	143-5TC	PBQ7272-6.36-M7-B1	P7272026.B1
257	5.11	471	540	6.81	2	23	A	143-5TC	PBQ7472-6.81-M7-B1	P7472024.B1
255	3.08	474	1150	6.86	2	30	C	143-5TC	RBQ8372-6.86-M7-00	R8372033
244	6.75	495	3340	7.16	2	51	C	143-5TC	RBQ8472-7.16-M7-00	R8472026
241	1.20	502	260	7.26	2	11	A	143-5TC	PBQ7172-7.26-M7-B1	P7172027.B1
241	2.12	502	391	7.26	2	11	A	143-5TC	PBQ7272-7.26-M7-B1	P7272027.B1
232	4.41	522	568	7.54	2	23	A	143-5TC	PBQ7472-7.54-M7-B1	P7472025.B1
227	2.78	532	1150	7.70	2	30	C	143-5TC	RBQ8372-7.70-M7-00	R8372034
222	1.10	545	266	7.89	2	11	A	143-5TC	PBQ7172-7.89-M7-B1	P7172028.B1
222	1.85	545	400	7.89	2	11	A	143-5TC	PBQ7272-7.89-M7-B1	P7272028.B1
220	4.37	550	579	7.96	2	23	A	143-5TC	PBQ7472-7.96-M7-B1	P7472026.B1
202	2.59	600	1150	8.67	2	30	C	143-5TC	RBQ8372-8.22-M7-00	R8372035
194	1.28	624	277	9.02	2	11	A	143-5TC	PBQ7172-9.02-M7-B1	P7172029.B1
194	1.71	624	412	9.02	2	11	A	143-5TC	PBQ7272-9.02-M7-B1	P7272029.B1
193	5.51	626	1290	9.06	2	51	C	143-5TC	RBQ8472-9.06-M7-00	R8472027
185	3.83	654	615	9.45	2	23	A	143-5TC	PBQ7472-9.45-M7-B1	P7472027.B1
179	2.38	678	1150	9.80	2	30	C	143-5TC	RBQ8372-9.80-M7-00	R8372036
174	1.15	695	284	10.04	2	11	A	143-5TC	PBQ7172-10.04-M7-B1	P7172030.B1
174	1.71	695	420	10.04	2	11	A	143-5TC	PBQ7272-10.04-M7-B1	P7272030.B1
166	5.06	727	1340	10.52	2	51	C	143-5TC	RBQ8472-10.52-M7-00	R8472028
157	2.21	770	1150	11.14	2	30	C	143-5TC	RBQ8372-11.14-M7-00	R8372037

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8372029 – 112136



STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

MOTOR SELECTIONS



2 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TEFC	56C	112136	22
General Purpose, C Face	208-230/460 3-PH	TEFC	140TC	120038	25
575 Volt Motor	575 3-PH	TEFC	145TC	120178	66
WATTSaver® Premium Efficiency Motor	208-230/460 3-PH	TEFC	145TC	121065	18, 25
SCR Rated DC Motor	180 VDC	TEFC	145TC	128010	81

QUICK SELECTIONS

**R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT**



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



2 HP con't Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
153	3.29	791	658	11.43	2	23	A	143-5TC	PBQ7472-11.43-M7-B1	P7472028.B1
150	1.47	807	445	11.64	2	11	A	143-5TC	PBQ7272-11.64-M7-B1	P7272031.B1
137	1.98	881	1150	12.74	2	30	C	143-5TC	RBQ8372-12.74-M7-00	R8372038
132	1.30	917	476	13.26	2	11	A	143-5TC	PBQ7272-13.26-M7-B1	P7272032.B1
128	1.88	945	1150	13.67	2	30	C	143-5TC	RBQ8372-13.67-M7-00	R8372039
127	4.11	951	1470	13.75	2	51	C	143-5TC	RBQ8472-13.75-M7-00	R8472029
123	2.34	984	693	14.21	2	23	A	143-5TC	PBQ7472-14.21-M7-B1	P7472029.B1
123	3.87	984	850	14.21	2	28	A	143-5TC	PBQ7572-14.21-M7-B1	P7572067.B1
114	1.12	1061	508	15.37	2	11	A	143-5TC	PBQ7272-15.37-M7-B1	P7272033.B1
107	3.52	1136	1560	16.43	2	51	C	143-5TC	RBQ8472-16.43-M7-00	R8472030
106	1.02	1142	520	16.48	2	11	A	143-5TC	PBQ7272-16.48-M7-B1	P7272034.B1
105	2.18	1152	711	16.62	2	23	A	143-5TC	PBQ7472-16.62-M7-B1	P7472030.B1
105	1.56	1152	1150	16.66	2	30	C	143-5TC	RBQ8372-16.62-M7-00	R8372040
88	2.91	1383	1600	20.00	2	51	C	143-5TC	RBQ8472-20.00-M7-00	R8472032
87	1.80	1391	780	20.10	2	23	A	143-5TC	PBQ7472-20.10-M7-B1	P7472031.B1
87	2.74	1391	900	20.10	2	28	A	143-5TC	PBQ7572-20.10-M7-B1	P7572069.B1
84	1.26	1436	1150	20.77	2	30	C	143-5TC	RBQ8372-20.77-M7-00	R8372041
70	1.33	1729	877	24.98	2	23	A	143-5TC	PBQ7472-24.98-M7-B1	P7472032.B1
70	2.20	1729	944	24.98	2	28	A	143-5TC	PBQ7572-24.98-M7-B1	P7572070.B1
70	1.05	1731	1150	25.04	2	30	C	143-5TC	RBQ8372-25.04-M7-00	R8372042
64	2.16	1877	1600	27.14	2	51	C	143-5TC	RBQ8472-27.14-M7-00	R8472035
60	1.24	2017	900	29.41	2	23	A	143-5TC	PBQ7472-29.41-M7-B1	P7472033.B1
60	1.48	2017	1012	29.41	2	28	A	143-5TC	PBQ7572-29.41-M7-B1	P7572071.B1
59	1.99	2048	1600	29.62	2	51	C	143-5TC	RBQ8472-29.62-M7-00	R8472036
54	1.82	2247	1600	32.50	2	51	C	143-5TC	RBQ8472-32.50-M7-00	R8472037
52	1.05	2327	918	34.01	3	24	A	143-5TC	PBQ7473-34.01-M7-B1	P7473023.B1
52.0	1.48	2327	1060	34.01	3	29	A	143-5TC	PBQ7573-34.01-M7-B1	P7573067.B1
49.0	1.01	2470	922	35.58	2	23	A	143-5TC	PBQ7472-35.58-M7-B1	P7472034.B1
49.0	1.65	2483	1600	35.91	2	51	C	143-5TC	RBQ8472-35.91-M7-00	R8472038
44.0	1.27	2750	1192	39.79	3	29	A	143-5TC	PBQ7573-39.79-M7-B1	P7573068.B1
39.0	1.32	3112	1600	45.00	2	51	C	56C	RBQ8472-45.00-M5-00	R8472039
38.0	1.67	3207	1700	46.38	2	80	C	143-5TC	RBQ8672-46.38-M7-00	R8672047
37.0	1.07	3270	1330	47.22	3	29	A	143-5TC	PBQ7573-47.22-M7-B1	P7573069.B1
34.0	2.06	3518	2240	50.87	3	120	C	143-5TC	RBQ8773-50.87-M7-00	R8773023

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.



STOCK GEAR+MOTOR™

Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8372029 – 112136

MOTOR SELECTIONS

2 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TEFC	56C	112136	22
General Purpose, C Face	208-230/460 3-PH	TEFC	140TC	120038	25
575 Volt Motor	575 3-PH	TEFC	145TC	120178	66
WATTS AVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	145TC	121065	18, 25
SCR Rated DC Motor	180 VDC	TEFC	145TC	128010	81





QUICK SELECTIONS
R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



2 HP con't Gear Reducer Quick Selections

Helical - In-line Gear Reducers

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
34.0	1.16	3544	1600	51.25	2	51	C	56C	RBQ8472-51.25-M7-00	R8472040
34.0	1.50	3566	1700	51.57	2	80	C	56C	RBQ8672-51.57-M5-00	R8672024
31.0	1.88	3854	2240	55.74	3	120	C	143-5TC	RBQ8773-55.74-M5-00	R8773024
31.0	1.07	3858	1600	55.79	3	64	C	56C	RBQ8473-55.79-M5-00	R8473001
31.0	1.34	3893	1700	56.30	3	95	C	56C	RBQ8673-56.30-M5-00	R8673031
30.0	1.82	3997	2240	57.81	3	120	C	143-5TC	RBQ8773-57.81-M7-00	R8773025
29.0	1.29	4152	1700	60.04	3	95	C	56C	RBQ8673-60.04-M5-00	R8673032
28.0	1.67	4357	2240	63.01	3	120	C	143-5TC	RBQ8773-63.01-M7-00	R8773026
26.0	1.59	4573	2240	66.13	3	120	C	143-5TC	RBQ8773-66.13-M7-00	R8773027
26.0	2.99	4582	3800	66.27	3	173	C	143-5TC	RBQ8873-66.27-M7-00	R8873027
25.0	2.83	4837	3800	69.95	3	173	C	143-5TC	RBQ8873-69.95-M7-00	R8873028
25.0	1.48	4906	2240	70.95	3	120	C	56C	RBQ8773-70.95-M5-00	R8773028
24.0	1.47	4952	2240	71.61	3	120	C	56C	RBQ8773-71.61-M5-00	R8773029
21.0	1.28	5665	2240	81.92	3	120	C	56C	RBQ8773-81.92-M5-00	R8773030
21.0	2.37	5779	3800	83.58	3	173	C	143-5TC	RBQ8873-83.58-M7-00	R8873029
20.0	1.21	5980	2240	86.48	3	120	C	56C	RBQ8773-86.48-M5-00	R8773031
20.0	2.29	5992	3800	86.65	3	173	C	143-5TC	RBQ8773-86.65-M7-00	R8873030
20.0	1.18	6156	2240	89.03	3	173	C	143-5TC	RBQ8773-89.03-M7-00	R8773031
17.0	1.91	7159	3800	103.53	3	173	C	143-5TC	RBQ8873-103.53-M7-00	R8873032
13.0	1.46	9356	3800	135.30	3	173	C	56C	RBQ8873-135.3-M5-00	R8873011
12.0	1.32	10418	3800	150.66	3	173	C	56C	RBQ8873-150.66-M5-00	R8873013
11.0	1.26	10893	3800	157.54	3	173	C	56C	RBQ8873-157.54-M5-00	R8873014
11.0	2.39	11109	4460	160.66	3	318	C	143-5TC	RBQ8973-160.66-M7-00	R8973031
11.0	1.20	11432	3800	165.33	3	173	C	56C	RBQ8873-165.33-M5-00	R8873015
10.0	1.16	11827	3800	171.04	3	173	C	56C	RBQ8873-171.04-M5-00	R8873016
10.0	1.08	12632	3800	182.68	3	173	C	56C	RBQ8873-182.68-M5-00	R8873017
9.0	2.08	12798	4460	185.09	3	318	C	143-5TC	RBQ8973-185.09-M7-00	R8973032
9.0	1.06	12904	3800	186.62	3	173	C	56C	RBQ8873-186.62-M5-00	R8873018
9.0	1.93	13761	4460	199.01	3	318	C	143-5TC	RBQ8973-199.01-M7-00	R8973033
8.0	1.72	15435	4460	223.22	3	318	C	143-5TC	RBQ8973-223.22-M7-00	R8973034
7.0	1.64	16209	4460	234.41	3	318	C	143-5TC	RBQ8973-234.41-M7-00	R8973035
7.0	1.55	17149	4460	248.00	3	318	C	143-5TC	RBQ8973-248.00-M7-00	R8973036
6.0	1.36	19547	4460	282.68	3	318	C	56C	RBQ8973-282.68-M5-00	R8973037
6.0	1.22	21716	4460	314.06	3	318	C	56C	RBQ8973-314.06-M5-00	R8973038

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.



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How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
 R8372029 – 112136

MOTOR SELECTIONS



2 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	115/208-230 1-PH	TEFC	56C	112136	22
General Purpose, C Face	208-230/460 3-PH	TEFC	140TC	120038	25
575 Volt Motor	575 3-PH	TEFC	145TC	120178	66
WATSAVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	145TC	121065	18, 25
SCR Rated DC Motor	180 VDC	TEFC	145TC	128010	81

QUICK SELECTIONS
R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



3 HP Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
529	3.20	343	1150	3.31	2	30	C	143-5TC	RBQ8372-3.31-M7-00	R8372026
503	1.67	361	204	3.48	2	11	A	143-5TC	PBQ7172-3.48-M7-B1	P7172023.B1
503	1.96	361	268	3.48	2	11	A	143-5TC	PBQ7272-3.48-M7-B1	P7272023.B1
485	3.93	374	450	3.61	2	25	A	182-4TC	PBQ7472-3.61-M9-B1	P7472039.B1
470	3.03	386	1150	3.72	2	30	C	143-5TC	RBQ8372-3.72-M7-00	R8372027
416	2.93	437	1150	4.21	2	30	C	143-5TC	RBQ8372-3.87-M7-00	R8372028
414	4.09	438	474	4.23	2	25	A	182-4TC	PBQ7472-4.23-M9-B1	P7472040.B1
405	1.34	448	216	4.32	2	11	A	143-5TC	PBQ7172-4.32-M7-B1	P7172024.B1
405	1.73	448	289	4.32	2	11	A	143-5TC	PBQ7272-4.32-M7-B1	P7272024.B1
366	2.58	496	1150	4.78	2	30	C	143-5TC	RBQ8372-4.78-M7-00	R8372029
349	4.23	520	491	5.01	2	25	A	182-4TC	PBQ7472-5.01-M9-B1	P7472041.B1
320	2.26	567	1150	5.47	2	30	C	143-5TC	RBQ8372-5.47-M7-00	R8372030
318	1.56	571	350	5.50	2	11	A	143-5TC	PBQ7272-5.50-M7-B1	P7272025.B1
298	2.40	609	1150	5.87	2	30	C	143-5TC	RBQ8372-5.87-M7-00	R8372031
293	5.26	620	1080	5.98	2	51	C	182-4TC	RBQ8472-5.98-M9-00	R8472045
289	3.50	628	522	6.07	2	25	A	182-4TC	PBQ7472-6.07-M9-B1	P7472042.B1
285	2.26	636	1150	6.13	2	30	C	143-5TC	RBQ8372-6.13-M7-00	R8372032
275	1.44	660	376	6.36	2	11	A	143-5TC	PBQ7272-6.36-M7-B1	P7272026.B1
257	3.41	706	540	6.81	2	25	A	182-4TC	PBQ7472-6.81-M9-B1	P7472043.B1
257	4.05	706	646	6.81	2	30	A	182-4TC	PBQ7572-6.81-M9-B1	P7572100.B1
255	2.05	712	1150	6.86	2	30	C	143-5TC	RBQ8372-6.86-M7-00	R8372033
241	1.41	753	391	7.26	2	11	A	143-5TC	PBQ7272-7.26-M7-B1	P7272027.B1
232	2.94	782	568	7.54	2	25	A	182-4TC	PBQ7472-7.54-M9-B1	P7472044.B1
227	1.85	799	1150	7.70	2	30	C	143-5TC	RBQ8372-7.70-M7-00	R8372034
222	1.23	818	400	7.89	2	11	A	143-5TC	PBQ7272-7.89-M7-B1	P7272028.B1
220	2.91	825	579	7.96	2	25	A	182-4TC	PBQ7472-7.96-M9-B1	P7472045.B1
220	3.85	825	663	7.96	2	30	A	182-4TC	PBQ7572-7.96-M9-B1	P7572102.B1
202	1.79	899	1150	8.67	2	30	C	143-5TC	RBQ8372-8.67-M7-00	R8372035
194	1.14	936	412	9.02	2	11	A	143-5TC	PBQ7272-9.02-M7-B1	P7272029.B1
193	3.67	940	1290	9.06	2	51	C	182-4TC	RBQ8472-9.06-M9-00	R8472047
185	2.55	981	615	9.45	2	25	A	182-4TC	PBQ7472-9.45-M9-B1	P7472046.B1
185	3.06	981	674	9.45	2	30	A	182-4TC	PBQ7572-9.45-M9-B1	P7572103.B1

Helical - Inline Gear Reducers

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.



STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8372026 – 131491

MOTOR SELECTIONS



3 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	208-230/460 3-PH	TEFC	182TC	131491	25
WATTSaver® Premium Efficiency Motor	208-230/460 3-PH	TEFC	182TC	131503	18, 25
575 Volt Motor	575 3-PH	TEFC	182TC	131498	66



QUICK SELECTIONS

R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



3 HP con't

Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
179	1.67	1016	1150	9.80	2	30	C	143-5TC	RBQ8372-9.80-M7-00	R8372036
174	1.14	1043	420	10.04	2	11	A	143-5TC	PBQ7272-10.04-M7-B1	P7272030.B1
166	3.37	1091	1340	10.52	2	51	C	182-4TC	RBQ8472-10.52-M9-00	R8472048
157	1.47	1155	1150	11.14	2	30	C	143-5TC	RBQ8372-11.14-M7-00	R8372037
153	2.19	1186	658	11.43	2	25	A	182-4TC	PBQ7472-11.43-M9-B1	P7472047.B1
137	1.32	1321	1150	12.74	2	30	C	143-5TC	RBQ8372-12.74-M7-00	R8372038
128	1.26	1418	1150	13.67	2	30	C	143-5TC	RBQ8372-13.67-M7-00	R8372039
127	2.74	1426	1470	13.75	2	51	C	182-4TC	RBQ8472-13.75-M9-00	R8472049
123	1.56	1476	693	14.21	2	25	A	182-4TC	PBQ7472-14.21-M9-B1	P7472048.B1
123	2.58	1476	850	14.21	2	30	A	182-4TC	PBQ7572-14.21-M9-B1	P7572105.B1
107	2.35	1704	1600	16.43	2	51	C	182-4TC	RBQ8472-16.43-M9-00	R8472050
105	1.04	1728	1150	16.66	2	30	C	143-5TC	RBQ8372-16.66-M7-00	R8372040
105	1.45	1729	711	16.62	2	25	A	182-4TC	PBQ7472-16.62-M9-B1	P7472049.B1
105	2.20	1729	872	16.62	2	30	A	182-4TC	PBQ7572-16.62-M9-B1	P7572106.B1
100	2.21	1815	1600	17.50	2	51	C	182-4TC	RBQ8472-17.50-M9-00	R8472051
88	1.94	2074	1600	20.00	2	51	C	182-4TC	RBQ8472-20.00-M9-00	R8472052
87	1.20	2086	780	20.10	2	23	A	143-5TC	PBQ7472-20.10-M7-B1	P7472031.B1
87	1.82	2086	900	20.10	2	30	A	182-4TC	PBQ7572-20.10-M9-B1	P7572107.B1
82	1.81	2227	1600	21.47	2	51	C	182-4TC	RBQ8472-21.47-M9-00	R8472053
70	1.56	2593	1600	25.00	2	51	C	182-4TC	RBQ8472-25.00-M9-00	R8472054
70	1.47	2593	944	24.98	2	28	A	143-5TC	PBQ7572-24.98-M7-B1	P7572070.B1
67	1.94	2716	1700	26.19	2	95	C	182-4TC	RBQ8672-26.19-M9-00	R8672068
64	1.44	2815	1600	27.14	2	51	C	143-5TC	RBQ8472-27.14-M7-00	R8472035
59.	1.32	3072	1600	29.62	2	51	C	143-5TC	RBQ8472-29.62-M7-00	R8472036
56	2.22	3268	2240	31.51	2	116	C	182-4TC	RBQ8772-31.51-M9-00	R8772066
54	1.21	3371	1600	32.50	2	51	C	143-5TC	RBQ8472-32.50-M7-00	R8472037
54	1.57	3374	1700	32.53	2	95	C	182-4TC	RBQ8672-32.53-M9-00	R8672069
49	1.10	3725	1600	35.91	2	51	C	143-5TC	RBQ8472-35.91-M7-00	R8472038
39	1.56	4642	2240	44.75	2	116	C	182-4TC	RBQ8772-44.75-M9-00	R8772068
38	1.11	4811	1700	46.38	2	80	C	143-5TC	RBQ8672-46.38-M7-00	R8672071
35.0	1.41	5157	2240	49.72	2	101	C	143-5TC	RBQ8772-49.72-M7-00	R8772069
35.0	2.60	5157	3800	49.72	2	191	C	182-4TC	RBQ8872-49.72-M9-00	R8872066

♦ Weight does not include oil.

▼ Service Factor is based on maximum torque rating of reducer.

● Overhung load is calculated at centerline of output shaft.



STOCK GEAR+MOTOR™

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MOTOR SELECTIONS



3 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	208-230/460 3-PH	TEFC	182TC	131491	25
WATTS-AVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	182TC	131503	18, 25
575 Volt Motor	575 3-PH	TEFC	182TC	131498	66

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:

R8372026 – 131491

QUICK SELECTIONS

**R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT**



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



3 HP con't Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
34.0	1.38	5276	2240	50.87	3	120	C	143-5TC	RBQ8773-50.87-M7-00	R8773023
34.0	1.00	5349	1700	51.57	2	80	C	143-5TC	RBQ8672-51.57-M7-00	R8672072
33.0	2.47	5549	3800	53.50	3	193	C	182-4TC	RBQ8873-53.50-M9-00	R8873049
31.0	1.26	5781	2240	55.74	3	120	C	143-5TC	RBQ8773-55.74-M7-00	R8773024
30.0	1.21	5996	2240	57.81	3	120	C	143-5TC	RBQ8773-57.81-M7-00	R8773025
28.0	1.11	6535	2240	63.01	3	120	C	143-5TC	RBQ8773-63.01-M7-00	R8773026
26.0	1.06	6859	2240	66.13	3	120	C	143-5TC	RBQ8773-66.13-M7-00	R8773027
26.0	1.99	6874	3800	66.27	3	193	C	182-4TC	RBQ8873-66.27-M9-00	R8873051
25.0	1.89	7255	3800	69.95	3	193	C	182-4TC	RBQ8873-69.95-M9-00	R8873052
25.0	3.64	7304	4460	70.42	3	360	C	182-4TC	RBQ8973-70.42-M9-00	R8973042
22.0	3.20	8323	4460	80.24	3	360	C	182-4TC	RBQ8973-80.24-M9-00	R8973043
21.0	1.58	8669	3800	83.58	3	193	C	182-4TC	RBQ8873-83.58-M9-00	R8873053
20.0	1.52	8987	3800	86.65	3	193	C	182-4TC	RBQ8873-86.65-M9-00	R8873054
20.0	2.88	9232	4460	89.01	3	360	C	182-4TC	RBQ8973-89.01-M9-00	R8973044
17.0	1.28	10738	3800	103.53	3	173	C	143-5TC	RBQ8873-103.53-M7-00	R8873032
17.0	2.44	10915	4460	105.23	3	360	C	182-4TC	RBQ8973-105.23-M9-00	R8973045
16.0	1.20	11438	3800	110.28	3	173	C	143-5TC	RBQ8873-110.28-M7-00	R8873033
14.0	1.05	13072	3800	126.03	3	173	C	143-5TC	RBQ8873-126.03-M7-00	R8873034
14.0	2.02	13159	4460	126.87	3	360	C	182-4TC	RBQ8973-126.87-M9-00	R8973047
13.0	1.92	13822	4460	133.26	3	360	C	182-4TC	RBQ8973-133.26-M9-00	R8973048
11.0	1.63	16300	4460	157.15	3	360	C	182-4TC	RBQ8973-157.15-M9-00	R8973049
11.0	1.60	16664	4460	160.66	3	360	C	182-4TC	RBQ8973-160.66-M9-00	R8973050
9.0	1.39	19198	4460	185.09	3	318	C	143-5TC	RBQ8973-185.09-M7-00	R8973032
9.0	1.29	20642	4460	199.01	3	318	C	143-5TC	RBQ8973-199.01-M7-00	R8973033
8.0	1.77	21564	6500	207.90	3	428	C	182-4TC	RBQ81073-207.9-M9-00	R81073050
8.0	1.15	23153	4460	223.22	3	318	C	143-5TC	RBQ8973-223.22-M7-00	R8973034
7.0	1.09	24313	4460	234.41	3	318	C	143-5TC	RBQ8973-234.41-M7-00	R8973035
7.0	1.43	26714	6500	257.56	3	428	C	182-4TC	RBQ81073-257.56-M9-00	R81073051
6.0	1.28	29680	6500	286.15	3	428	C	182-4TC	RBQ81073-286.15-M9-00	R81073052
6.0	1.24	30630	6500	295.31	3	428	C	182-4TC	RBQ81073-295.31-M9-00	R81073053
5.0	1.12	34030	6500	328.09	3	428	C	182-4TC	RBQ81073-328.09-M9-00	R81073054

Helical - Inline Gear Reducers

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8372026 – 131491



STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

MOTOR SELECTIONS



3 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	208-230/460 3-PH	TEFC	182TC	131491	25
WATTSAVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	182TC	131503	18, 25
575 Volt Motor	575 3-PH	TEFC	182TC	131498	66



QUICK SELECTIONS

**R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT**

This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



5 HP

Gear Reducer Quick Selections

Helical - In-line Gear Reducers

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight* (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
665	2.24	455	530	2.63	2	35	C	182-4TC	RBQ8372-2.63-M9-00	R8372047
593	2.08	510	550	2.95	2	35	C	182-4TC	RBQ8372-2.95-M9-00	R8372048
568	3.31	532	1010	3.08	2	66	C	182-4TC	RBQ8472-3.08-M9-00	R8472042
529	1.92	572	570	3.31	2	35	C	182-4TC	RBQ8372-3.31-M9-00	R8372049
485	2.36	624	450	3.61	2	25	A	182-4TC	PBQ7472-3.61-M9-B1	P7472039.B1
470	1.82	643	580	3.72	2	35	C	182-4TC	RBQ8372-3.72-M9-00	R8372050
449	2.79	674	1090	3.90	2	66	C	182-4TC	RBQ8472-3.90-M9-00	R8472043
416	1.76	728	590	4.21	2	35	C	182-4TC	RBQ8372-4.21-M9-00	R8372051
414	2.45	731	474	4.23	2	25	A	182-4TC	PBQ7472-4.23-M9-B1	P7472040.B1
387	2.52	781	1140	4.52	2	66	C	182-4TC	RBQ8472-4.52-M9-00	R8472044
366	1.55	826	620	4.78	2	35	C	182-4TC	RBQ8372-4.78-M9-00	R8372052
349	2.65	867	491	5.01	2	25	A	182-4TC	PBQ7472-5.01-M9-B1	P7472041.B1
349	2.65	867	603	5.01	2	30	A	182-4TC	PBQ7572-5.01-M9-B1	P7572098.B1
320	1.35	946	650	5.47	2	35	C	182-4TC	RBQ8372-5.47-M9-00	R8372053
298	1.26	1015	680	5.87	2	35	C	182-4TC	RBQ8372-5.87-M9-00	R8372054
293	3.15	1034	1080	5.98	2	66	C	182-4TC	RBQ8472-5.98-M9-00	R8472045
289	2.10	1047	522	6.07	2	25	A	182-4TC	PBQ7472-6.07-M9-B1	P7472042.B1
289	2.65	1047	629	6.07	2	30	A	182-4TC	PBQ7572-6.07-M9-B1	P7572099.B1
285	1.36	1060	710	6.13	2	35	C	182-4TC	RBQ8372-6.13-M9-00	R8372055
257	2.04	1177	540	6.81	2	25	A	182-4TC	PBQ7472-6.81-M9-B1	P7472043.B1
257	2.43	1177	646	6.81	2	30	A	182-4TC	PBQ7572-6.81-M9-B1	P7572100.B1
255	1.23	1186	740	6.86	2	35	C	182-4TC	RBQ8372-6.86-M9-00	R8372056
244	2.70	1238	1180	7.16	2	61	C	182-4TC	RBQ8472-7.16-M9-00	R8472046
232	1.76	1304	568	7.54	2	25	A	182-4TC	PBQ7472-7.54-M9-B1	P7472044.B1
232	2.39	1304	658	7.54	2	30	A	182-4TC	PBQ7572-7.54-M9-B1	P7572101.B1
227	1.11	1331	770	7.70	2	35	C	182-4TC	RBQ8372-7.70-M9-00	R8372057
220	1.75	1375	579	7.96	2	25	A	182-4TC	PBQ7472-7.96-M9-B1	P7472045.B1
220	2.31	1375	663	7.96	2	30	A	182-4TC	PBQ7572-7.96-M9-B1	P7572102.B1
202	1.03	1499	790	8.67	2	35	C	182-4TC	RBQ8372-8.67-M9-00	R8372058
193	2.20	1566	1290	9.06	2	66	C	182-4TC	RBQ8472-9.06-M9-00	R8472047
193	3.73	1571	1710	9.09	2	116	C	182-4TC	RBQ8772-9.09-M9-00	R8772059
185	1.53	1635	615	9.45	2	25	A	182-4TC	PBQ7472-9.45-M9-B1	P7472046.B1
185	1.84	1635	674	9.45	2	30	C	182-4TC	PBQ7572-9.45-M9-B1	P7572103.B1
166	2.02	1819	1340	10.52	2	66	C	182-4TC	RBQ8472-10.52-M9-00	R8472048
156	2.40	1945	1700	11.25	2	95	C	182-4TC	RBQ8672-11.25-M9-00	R8672063
153	1.32	1977	658	11.43	2	25	A	182-4TC	PBQ7472-11.43-M9-B1	P7472047.B1
153	1.74	1977	778	11.43	2	30	A	182-4TC	PBQ7572-11.43-M9-B1	P7572104.B1
138	2.90	2197	1830	12.71	2	116	C	182-4TC	RBQ8772-12.71-M9-00	R8772062
136	2.16	2227	1700	12.88	2	95	C	182-4TC	RBQ8672-12.88-M9-00	R8672064
127	1.64	2377	1470	13.75	2	66	C	182-4TC	RBQ8472-13.75-M9-00	R8472049
123	1.55	2460	850	14.21	2	30	A	182-4TC	PBQ7572-14.21-M9-B1	P7572105.B1
112	1.86	2698	1700	15.61	2	95	C	182-4TC	RBQ8672-15.61-M9-00	R8672065

- ◆ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.



STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

MOTOR SELECTIONS



5 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	208-230/460 3-PH	TEFC	184TC	131492	25
WATTS-AVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	184TC	131501	18, 25
575 Volt Motor	575 3-PH	TEFC	184TC	131499	66

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:

R8372047 – 131492

QUICK SELECTIONS

**R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT**



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.

5 HP con't Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
107	1.41	2840	1560	16.43	2	51	C	143-5TC	RBQ8472-16.43-M7-00	R8472030
105	1.32	2881	872	16.62	2	30	A	182-4TC	PBQ7572-16.62-M9-B1	P7572106.B1
100	1.33	3025	1600	17.50	2	51	C	143-5TC	RBQ8472-17.50-M7-00	R8472031
98	2.24	3086	2030	17.85	2	116	C	182-4TC	RBQ8772-17.85-M9-00	R8772063
96	1.59	3155	1700	18.25	2	95	C	182-4TC	RBQ8672-18.25-M9-00	R8672066
88	1.17	3457	1600	20.00	2	51	C	143-5TC	RBQ8472-20.00-M7-00	R8472032
87	1.09	3477	900	20.10	2	30	A	182-4TC	PBQ7572-20.10-M9-B1	P7572107.B1
83	1.99	3648	2150	21.10	2	116	C	182-4TC	RBQ8772-21.10-M9-00	R8772064
83	3.64	3648	2750	21.10	2	191	C	182-4TC	RBQ8872-21.10-M9-00	R8872062
82	1.09	3711	1600	21.47	2	51	C	143-5TC	RBQ8472-21.47-M7-00	R8472033
81	1.39	3743	1700	21.65	2	95	C	182-4TC	RBQ8672-21.65-M9-00	R8672067
69	3.02	4398	3000	25.44	2	191	C	182-4TC	RBQ8872-25.44-M9-00	R8872063
69	1.65	4398	2150	25.44	2	116	C	182-4TC	RBQ8772-25.44-M9-00	R8772065
67	1.16	4527	1700	26.19	2	80	C	143-5TC	RBQ8672-26.19-M7-00	R8672044
56	1.33	5447	2200	31.51	2	116	C	143-5TC	RBQ8772-31.51-M7-00	R8772043
56	2.44	5447	3400	31.51	2	191	C	182-4TC	RBQ8872-31.51-M9-00	R8872064
47	1.13	6415	2240	37.11	2	116	C	143-5TC	RBQ8772-37.11-M7-00	R8772044
39	1.73	7736	3800	44.75	2	191	C	182-4TC	RBQ8872-44.75-M9-00	R8872065
35.0	1.56	8595	3800	49.72	2	191	C	182-4TC	RBQ8872-49.72-M9-00	R8872066
33.0	1.48	9248	3800	53.50	3	173	C	143-5TC	RBQ8873-53.50-M7-00	R8873025
31.0	1.39	9873	3800	57.11	3	173	C	143-5TC	RBQ8873-57.11-M7-00	R8873026
30.0	2.68	9924	4460	57.41	3	360	C	182-4TC	RBQ8973-57.41-M9-00	R8973039
28.0	2.47	10751	4460	62.19	3	360	C	182-4TC	RBQ8973-62.19-M9-00	R8973040
28.0	2.43	10955	4460	63.37	3	360	C	182-4TC	RBQ8973-63.37-M9-00	R8973041
26.0	1.20	11456	3800	66.27	3	173	C	143-5TC	RBQ8873-66.27-M7-00	R8873027
26.0	2.02	11593	4460	67.06	2	305	C	182-4TC	RBQ8972-67.06-M9-00	R8972021
25.0	1.13	12092	3800	69.95	3	173	C	143-5TC	RBQ8873-69.95-M7-00	R8873028
22.0	1.92	13871	4460	80.24	3	360	C	182-4TC	RBQ8973-80.24-M9-00	R8973043
20.0	1.73	15387	4460	89.01	3	360	C	182-4TC	RBQ8973-89.01-M9-00	R8973044
17.0	2.15	17754	6500	102.70	3	428	C	182-4TC	RBQ81073-102.70-M9-00	R81073043
17.0	1.46	18191	4460	105.23	3	318	C	143-5TC	RBQ8973-105.23-M7-00	R8973026
16.0	1.37	19486	4460	112.72	3	318	C	143-5TC	RBQ8973-112.72-M7-00	R8973027
15.0	1.87	20357	6500	117.76	3	428	C	182-4TC	RBQ81073-117.76-M9-00	R81073044
14.0	1.82	20991	6500	121.43	3	428	C	182-4TC	RBQ81073-121.43-M9-00	R81073045
14.0	1.21	21932	4460	126.87	3	318	C	143-5TC	RBQ8973-126.87-M7-00	R8973028
13.0	1.15	23036	4460	133.26	3	318	C	143-5TC	RBQ8973-133.26-M7-00	R8973029
13.0	1.58	24068	6500	139.23	3	428	C	182-4TC	RBQ81073-139.23-M9-00	R81073046
12.0	1.51	25306	6500	146.39	3	428	C	182-4TC	RBQ81073-146.39-M9-00	R81073047
10.0	1.31	29016	6500	167.85	3	428	C	182-4TC	RBQ81073-167.85-M9-00	R81073048
10.0	1.22	31345	6500	181.32	3	428	C	182-4TC	RBQ81073-181.32-M9-00	R81073049
8.00	1.06	35939	6500	207.90	3	428	C	182-4TC	RBQ81073-207.90-M9-00	R81073050

Helical - Inline Gear Reducers

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.



STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

MOTOR SELECTIONS



5 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	208-230/460 3-PH	TEFC	184TC	131492	25
WATTSaver® Premium Efficiency Motor	208-230/460 3-PH	TEFC	184TC	131501	18, 25
575 Volt Motor	575 3-PH	TEFC	184TC	131499	66

How To Create a GEAR+MOTOR Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:

R8372047 – 131492



QUICK SELECTIONS
R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



Helical - In-line Gear Reducers

7.5 HP Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
665	1.50	682	530	2.63	2	35	C	182-4TC	RBQ8327-2.45-M9-00	R8372047
593	1.39	765	550	2.95	2	35	C	182-4TC	RBQ8327-2.95-M9-00	R8372048
568	2.20	799	1010	3.08	2	61	C	182-4TC	RBQ8472-3.08-M9-00	R8472042
529	1.28	858	570	3.31	2	35	C	182-4TC	RBQ8372-3.31-M9-00	R8372049
485	1.57	936	450	3.61	2	25	A	182-4TC	PBQ7472-3.61-M9-B1	P7472039.B1
485	1.76	936	534	3.61	2	30	A	182-4TC	PBQ7572-3.61-M5-B1	P7572096.B1
470	1.21	965	580	3.72	2	35	C	182-4TC	RBQ8372-3.72-M9-00	R8372050
449	1.86	1011	1090	3.90	2	66	C	182-4TC	RBQ8472-3.90-M9-00	R8472043
416	1.17	1092	590	4.21	2	35	C	182-4TC	RBQ8372-4.21-M9-00	R8372051
414	1.64	1096	474	4.23	2	25	A	182-4TC	PBQ7472-4.23-M9-B1	P7472040.B1
414	1.76	1096	566	4.23	2	30	A	182-4TC	PBQ7572-4.23-M9-B1	P7572097.B1
387	1.68	1172	1140	4.52	2	66	C	182-4TC	RBQ8472-4.52-M9-00	R8472044
366	1.03	1239	620	4.78	2	35	C	182-4TC	RBQ8372-4.78-M9-00	R8372052
349	1.69	1300	491	5.01	2	25	A	182-4TC	PBQ7472-5.01-M9-B1	P7472041.B1
349	1.76	1300	603	5.01	2	30	A	182-4TC	PBQ7572-5.01-M9-B1	P7572098.B1
293	2.10	1551	1080	5.98	2	66	C	182-4TC	RBQ8572-5.98-M9-00	R8572045
289	1.40	1570	522	6.07	2	25	A	182-4TC	PBQ7472-6.07-M9-B1	P7472042.B1
289	1.76	1570	629	6.07	2	30	A	182-4TC	PBQ7572-6.07-M9-B1	P7572099.B1
257	1.36	1766	540	6.81	2	25	A	182-4TC	PBQ7472-6.81-M9-B1	P7472043.B1
257	1.62	1766	646	6.81	2	30	A	182-4TC	PBQ7572-6.81-M9-B1	P7572100.B1
244	1.80	1857	1180	7.16	2	66	C	182-4TC	RBQ8472-7.16-M9-00	R8472046
232	1.18	1956	568	7.54	2	25	A	182-4TC	PBQ7472-7.54-M9-B1	P7472044.B1
232	1.60	1956	658	7.54	2	30	A	182-4TC	PBQ7572-7.54-M9-B1	P7572101.B1
220	1.16	2063	579	7.96	2	25	A	182-4TC	PBQ7472-7.96-M9-B1	P7472045.B1
220	1.54	2063	663	7.96	2	30	A	182-4TC	PBQ7572-7.96-M9-B1	P7572102.B1
217	2.00	2087	1700	8.05	2	95	C	182-4TC	RBQ8672-8.05-M9-00	R8672060
216	2.71	2098	1710	8.09	2	116	C	182-4TC	RBQ8772-8.09-M9-00	R8772058
193	1.47	2349	1290	9.06	2	66	C	182-4TC	RBQ8472-9.06-M9-00	R8472047
192	1.82	2360	1700	9.10	2	95	C	182-4TC	RBQ8672-9.10-M9-00	R8672061
185	1.02	2453	615	9.45	2	25	A	182-4TC	PBQ7472-9.45-M9-B1	P7472046.B1
185	1.22	2453	674	9.45	2	30	A	182-4TC	PBQ7572-9.45-M9-B1	P7572103.B1
178	2.35	2554	1710	9.85	2	116	C	182-4TC	RBQ8772-9.85-M9-00	R8772060
177	1.73	2565	1700	9.89	2	95	C	182-4TC	RBQ8672-9.89-M9-00	R8672062
166	1.35	2728	1340	10.52	2	66	C	182-4TC	RBQ8472-10.52-M9-00	R8472048

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.



STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

MOTOR SELECTIONS



7.5 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	208-230/460 3-PH	TEFC	184TC	131606	25
WATSAVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	213TC	140486	18, 25

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8372047 – 131492



QUICK SELECTIONS
R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



7.5 HP con't Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
157	2.09	2891	1780	11.15	2	116	C	182-4TC	RBQ8772-11.15-M9-00	R8772061
156	1.60	2917	1700	11.25	2	95	C	182-4TC	RBQ8672-11.25-M9-00	R8672063
153	1.16	2966	778	11.43	2	30	A	182-4TC	PBQ7572-11.43-M9-B1	P7572104.B1
138	1.93	3296	1830	12.71	2	116	C	182-4TC	RBQ8772-12.71-M9-00	R8772062
136	1.44	3340	1700	12.88	2	95	C	182-4TC	RBQ8672-12.88-M9-00	R8672064
127	1.10	3565	1470	13.75	2	66	C	182-4TC	RBQ8472-13.75-M9-00	R8472049
123	1.03	3689	850	14.21	2	30	A	182-4TC	PBQ7572-14.21-M9-B1	P7572105.B1
112	1.24	4048	1700	15.61	2	95	C	182-4TC	RBQ8672-15.61-M9-00	R8672065
98	1.49	4629	2030	17.85	2	116	C	182-4TC	RBQ8772-17.85-M9-00	R8772063
98	2.85	4629	2500	17.85	2	191	C	182-4TC	RBQ8872-17.85-M9-00	R8872061
96	1.10	4732	1700	18.25	2	95	C	182-4TC	RBQ8672-18.25-M9-00	R8672066
83	1.33	5471	2120	21.10	2	116	C	182-4TC	RBQ8772-21.10-M9-00	R8772064
83	2.42	5471	2750	21.10	2	191	C	182-4TC	RBQ8872-21.10-M9-00	R8872062
69	2.02	6597	3000	25.44	2	191	C	182-4TC	RBQ8872-25.44-M9-00	R8872063
69	1.10	6597	2150	25.44	2	116	C	182-4TC	RBQ8772-25.44-M9-00	R8772065
56	1.63	8171	3400	31.51	2	191	C	182-4TC	RBQ8872-31.51-M9-00	R8872064
46	2.34	9929	3370	38.29	2	305	C	182-4TC	RBQ8972-38.29-M9-00	R8972018
39	1.15	11604	3800	44.75	2	191	C	182-4TC	RBQ8872-44.75-M9-00	R8872065
39	2.00	11650	3370	44.93	2	305	C	182-4TC	RBQ8972-44.93-M9-00	R8972019
35.0	1.04	12893	3800	49.72	2	191	C	182-4TC	RBQ8872-49.72-M9-00	R8872066
30.0	1.79	14887	4460	57.41	3	360	C	182-4TC	RBQ8973-57.41-M9-00	R8973039
29.0	1.51	15522	3370	59.86	2	305	C	182-4TC	RBQ8972-59.86-M9-00	R8972020
28.0	1.65	16126	4460	62.19	3	360	C	182-4TC	RBQ8973-62.19-M9-00	R8973040
28.0	1.62	16432	4460	63.37	3	360	C	182-4TC	RBQ8973-63.37-M9-00	R8973041
26.0	1.35	17389	3370	67.06	2	305	C	182-4TC	RBQ8972-67.06-M9-00	R8972021
24.0	2.01	18960	6300	73.12	3	428	C	182-4TC	RBQ81073-73.12-M9-00	R81073041
22.0	1.28	20806	4460	80.24	3	360	C	182-4TC	RBQ8973-80.24-M9-00	R8973043
21.0	1.75	21740	6500	83.84	3	428	C	182-4TC	RBQ81073-83.84-M9-00	R81073042
20.0	1.15	23081	4460	89.01	3	360	C	182-4TC	RBQ8973-89.01-M9-00	R8973044
17.0	1.43	26630	6500	102.70	3	428	C	182-4TC	RBQ81073-102.7-M9-00	R81073043
15.0	1.25	30536	6500	117.76	3	428	C	182-4TC	RBQ81073-117.76-M9-00	R81073044
14.0	1.21	31487	6500	121.43	3	428	C	182-4TC	RBQ81073-121.43-M9-00	R81073045
13.0	1.06	36103	6500	139.23	3	428	C	182-4TC	RBQ81073-139.23-M9-00	R81073046
12.0	1.00	37959	6500	146.39	3	428	C	182-4TC	RBQ81073-146.39-M9-00	R81073047

Helical - Inline Gear Reducers

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.



STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8372047 – 131492

MOTOR SELECTIONS



7.5 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	208-230/460 3-PH	TEFC	184TC	131606	25
WATTSaver® Premium Efficiency Motor	208-230/460 3-PH	TEFC	213TC	140486	18, 25



QUICK SELECTIONS

R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT

This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



10 HP

Gear Reducer Quick Selections

Helical - In-line Gear Reducers

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
646	2.52	937	1270	2.71	2	95	C	213-5 TC	RBQ8672-2.71-M11-00	R8672074
574	2.35	1054	1310	3.05	2	95	C	213-5 TC	RBQ8672-3.05-M11-00	R8672075
530	2.26	1141	1330	3.30	2	95	C	213-5 TC	RBQ8672-3.30-M11-00	R8672076
469	2.09	1290	1370	3.73	2	95	C	213-5 TC	RBQ8672-3.73-M11-00	R8672077
432	1.97	1400	1420	4.05	2	95	C	213-5 TC	RBQ8672-4.05-M11-00	R8672078
380	1.80	1594	1470	4.61	2	95	C	213-5 TC	RBQ8672-4.61-M11-00	R8672079
331	1.63	1825	1540	5.28	2	95	C	213-5 TC	RBQ8672-5.28-M11-00	R8672080
298	1.81	2033	1550	5.88	2	95	C	213-5 TC	RBQ8672-5.88-M11-00	R8672081
265	1.64	2285	1640	6.61	2	95	C	213-5 TC	RBQ8672-6.61-M11-00	R8672082
235	1.53	2572	1690	7.44	2	95	C	213-5 TC	RBQ8672-7.44-M11-00	R8672083
217	1.50	2783	1700	8.05	2	95	C	213-5 TC	RBQ8672-8.05-M11-00	R8672084
216	2.03	2797	1685	8.09	2	116	C	213-5 TC	RBQ8772-8.09-M11-00	R8772081
193	1.86	3143	1710	9.09	2	116	C	213-5 TC	RBQ8772-9.09-M11-00	R8772082
192	1.37	3146	1700	9.10	2	95	C	213-5 TC	RBQ8672-9.10-M11-00	R8672085
178	1.76	3406	1710	9.85	2	116	C	213-5 TC	RBQ8772-9.85-M11-00	R8772083
177	1.30	3419	1700	9.89	2	95	C	213-5 TC	RBQ8672-9.89-M11-00	R8672086
164	3.15	3696	2200	10.69	2	191	C	213-5 TC	RBQ8872-10.69-M11-00	R8872081
156	1.20	3890	1700	11.25	2	95	C	213-5 TC	RBQ8672-11.25-M11-00	R8672087
138	2.77	4394	2350	12.71	2	191	C	213-5 TC	RBQ8872-12.71-M11-00	R8872082
138	1.45	4394	1830	12.71	2	116	C	213-5 TC	RBQ8772-12.71-M11-00	R8772085
136	1.08	4453	1700	12.88	2	95	C	213-5 TC	RBQ8672-12.88-M11-00	R8672088
98	1.12	6171	2030	17.85	2	116	C	213-5 TC	RBQ8772-17.85-M11-00	R8772086
98	2.14	6171	2500	17.85	2	191	C	213-5 TC	RBQ8872-17.85-M11-00	R8872083
83	1.00	7295	2120	21.10	2	116	C	213-5 TC	RBQ8772-21.10-M11-00	R8772087
83	1.82	7295	2750	21.10	2	191	C	213-5 TC	RBQ8872-21.10-M11-00	R8872084
69	1.51	8796	3000	25.44	2	191	C	213-5 TC	RBQ8872-25.44-M11-00	R8872085
56	1.22	10894	3400	31.51	2	191	C	213-5 TC	RBQ8872-31.51-M11-00	R8872086
46	1.75	13238	3370	38.29	2	305	C	213-5 TC	RBQ8972-38.29-M11-00	R8972039
39	1.50	15534	3370	44.93	2	305	C	213-5 TC	RBQ8972-44.93-M11-00	R8972040
30.0	1.34	19849	4460	57.41	3	370	C	213-5 TC	RBQ8973-57.41-M11-00	R8973058
32.0	2.02	18815	5550	54.42	3	428	C	213-5 TC	RBQ81073-54.42-M11-00	R81073063
29.0	1.13	20696	3370	59.86	2	305	C	213-5 TC	RBQ8972-59.86-M11-00	R8972041
29.0	1.84	20734	5750	59.97	3	428	C	213-5 TC	RBQ81073-59.97-M11-00	R81073064
28.0	1.79	21266	6000	61.51	3	428	C	213-5 TC	RBQ81073-61.51-M11-00	R81073065
28.0	1.24	21501	4460	62.19	3	370	C	213-5 TC	RBQ8973-62.19-M11-00	R8973059
28.0	1.77	21574	6000	62.40	3	428	C	213-5 TC	RBQ81073-62.40-M11-00	R81073066
28.0	1.21	21909	4460	63.37	3	370	C	213-5 TC	RBQ8973-63.37-M11-00	R8973060
26.0	1.01	23185	3370	67.06	2	305	C	213-5 TC	RBQ8972-67.06-M11-00	R8972042
25.0	1.56	24381	6300	70.52	3	428	C	213-5 TC	RBQ81073-70.52-M11-00	R81073067
24.0	1.51	25280	6300	73.12	3	428	C	213-5 TC	RBQ81073-73.12-M11-00	R81073068
21.0	1.31	28987	6500	83.84	3	428	C	213-5 TC	RBQ81073-83.84-M11-00	R81073069
17.0	1.07	35507	6500	102.70	3	428	C	213-5 TC	RBQ81073-102.70-M11-00	R81073070

♦ Weight does not include oil.

▼ Service Factor is based on maximum torque rating of reducer.

● Overhung load is calculated at centerline of output shaft.



STOCK GEAR+MOTOR™

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MOTOR SELECTIONS



10 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	208-230/460 3-PH	TEFC	215TC	140109	25
WATSAVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	215TC	140484	18, 25

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:

R8372074 – 140109



QUICK SELECTIONS

**R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT**



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



15 HP Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
732	1.90	1239	1280	2.39	2	116	C	254-5TC	RBQ8772-2.39-M13-00	R8772093
655	1.90	1385	1340	2.67	2	116	C	254-5TC	RBQ8772-2.67-M13-00	R8772094
585	1.81	1551	1350	2.99	2	116	C	254-5TC	RBQ8772-2.99-M13-00	R8772095
543	1.70	1670	1350	3.22	2	116	C	254-5TC	RBQ8772-3.22-M13-00	R8772096
483	1.53	1877	1450	3.62	2	116	C	254-5TC	RBQ8772-3.62-M13-00	R8772097
446	1.46	2033	1550	3.92	2	116	C	254-5TC	RBQ8772-3.92-M13-00	R8772098
394	1.33	2303	1620	4.44	2	116	C	254-5TC	RBQ8772-4.44-M13-00	R8772099
346	1.22	2624	1640	5.06	2	116	C	254-5TC	RBQ8772-5.06-M13-00	R8772100
291	1.68	3117	1685	6.01	2	116	C	254-5TC	RBQ8772-6.01-M13-00	R8772101
261	1.55	3480	1685	6.71	2	116	C	254-5TC	RBQ8772-6.71-M13-00	R8772102
233	1.43	3890	1685	7.50	2	116	C	254-5TC	RBQ8772-7.50-M13-00	R8772103
216	1.35	4196	1685	8.09	2	116	C	254-5TC	RBQ8772-8.09-M13-00	R8772104
193	1.24	4714	1710	9.09	2	116	C	254-5TC	RBQ8772-9.09-M13-00	R8772105
178	1.17	5108	1710	9.85	2	116	C	254-5TC	RBQ8772-9.85-M13-00	R8772106
164	2.10	5544	2200	10.69	2	191	C	254-5TC	RBQ8872-10.69-M13-00	R8872103
157	1.05	5782	1780	11.15	2	116	C	254-5TC	RBQ8772-11.15-M13-00	R8772107
138	1.85	6591	2350	12.71	2	191	C	254-5TC	RBQ8872-12.71-M13-00	R8872104
98	1.43	9257	2500	17.85	2	191	C	254-5TC	RBQ8872-17.85-M13-00	R8872105
83	1.21	10943	2750	21.10	2	191	C	254-5TC	RBQ8872-21.10-M13-00	R8872106
71	1.96	12732	3370	24.55	2	305	C	254-5TC	RBQ8972-24.55-M13-00	R8972057
69	1.01	13193	3000	25.44	2	191	C	254-5TC	RBQ8872-25.44-M13-00	R8872107
64	1.62	14262	3370	27.50	2	305	C	254-5TC	RBQ8972-27.50-M13-00	R8972058
56	1.43	16129	3370	31.10	2	305	C	254-5TC	RBQ8972-31.10-M13-00	R8972059
51	2.13	17923	4500	34.56	3	473	C	254-5TC	RBQ81073-34.56-M13-00	R81073082
46	1.17	19857	3370	38.29	2	305	C	254-5TC	RBQ8972-38.29-M13-00	R8972060
45	1.90	20013	4570	38.59	3	473	C	254-5TC	RBQ81073-38.59-M13-00	R8107308
44	1.85	20552	4850	39.63	3	473	C	254-5TC	RBQ81073-39.63-M13-00	R81073084
41	1.70	22378	5000	43.15	3	473	C	254-5TC	RBQ81073-43.15-M13-00	R81073085
39	1.00	23301	3370	44.93	2	305	C	254-5TC	RBQ8972-44.93-M13-00	R8972061
38	1.58	24141	5100	46.55	3	473	C	254-5TC	RBQ81073-46.55-M13-00	R81073086
35	1.49	25655	5300	49.47	3	473	C	254-5TC	RBQ81073-49.47-M13-00	R81073087
33	1.40	27123	5450	52.30	3	473	C	254-5TC	RBQ81073-52.30-M13-00	R81073088
33	1.38	27678	5500	53.37	3	473	C	254-5TC	RBQ81073-53.37-M13-00	R81073089
32.0	1.35	28223	5550	54.42	3	473	C	254-5TC	RBQ81073-54.42-M13-00	R81073090
29.0	1.23	31101	5750	59.97	3	473	C	254-5TC	RBQ81073-59.97-M13-00	R81073091
28.0	1.19	31899	6000	61.51	3	473	C	254-5TC	RBQ81073-61.51-M13-00	R81073092
28.0	1.18	32361	6000	62.40	3	473	C	254-5TC	RBQ81073-62.40-M13-00	R81073093
25.0	1.04	36572	6300	70.52	3	473	C	254-5TC	RBQ81073-70.52-M13-00	R81073094
24.0	1.00	37920	6300	73.12	3	473	C	254-5TC	RBQ81073-73.12-M13-00	R81073095

Helical - Inline Gear Reducers

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.



STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

MOTOR SELECTIONS



15 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	208-230/460 3-PH	TEFC	254TC	151350	25
WATTSaver® Premium Efficiency Motor	208-230/460 3-PH	TEFC	254TC	171587	18, 27

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8772093 – 151350



QUICK SELECTIONS

**R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT**



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



Helical - In-line Gear Reducers

20 HP Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
732	1.43	1653	1280	2.39	2	116	C	254-5TC	RBQ8772-2.39-M13-00	R8772093
655	1.42	1846	1340	2.67	2	116	C	254-5TC	RBQ8772-2.67-M13-00	R8772094
585	1.36	2068	1350	2.99	2	116	C	254-5TC	RBQ8772-2.99-M13-00	R8772095
543	1.28	2227	1350	3.22	2	116	C	254-5TC	RBQ8772-3.22-M13-00	R8772096
483	1.15	2503	1450	3.62	2	116	C	254-5TC	RBQ8772-3.62-M13-00	R8772097
464	2.02	2607	1850	3.77	2	191	C	254-5TC	RBQ8872-3.77-M13-00	R8872094
446	1.09	2711	1550	3.92	2	116	C	254-5TC	RBQ8772-3.92-M13-00	R8772098
411	1.86	2946	1860	4.26	2	191	C	254-5TC	RBQ8872-4.26-M13-00	R8872095
394	1.00	3070	1620	4.44	2	116	C	254-5TC	RBQ8772-4.44-M13-00	R8772099
346	1.64	3499	1880	5.06	2	191	C	254-5TC	RBQ8872-5.06-M13-00	R8872096
291	2.27	4156	1900	6.01	2	191	C	254-5TC	RBQ8872-6.01-M13-00	R8872097
261	2.13	4640	1980	6.71	2	191	C	254-5TC	RBQ8872-6.71-M13-00	R8872098
233	2.00	5186	2080	7.50	2	191	C	254-5TC	RBQ8872-7.50-M13-00	R8872099
216	1.90	5594	2100	8.09	2	191	C	254-5TC	RBQ8872-8.09-M13-00	R8872100
193	1.77	6286	2140	9.09	2	191	C	254-5TC	RBQ8872-9.09-M13-00	R8872101
185	1.71	6541	2150	9.46	2	191	C	254-5TC	RBQ8872-10.69-M13-00	R8872102
164	1.58	7392	2200	10.69	2	191	C	254-5TC	RBQ8872-10.69-M13-00	R8872103
138	1.39	8789	2350	12.71	2	191	C	254-5TC	RBQ8872-12.71-M13-00	R8872104
124	2.08	9798	3370	14.17	2	305	C	254-5TC	RBQ8872-14.17-M13-00	R8972054
98	1.07	12343	2500	17.85	2	191	C	254-5TC	RBQ8872-17.85-M13-00	R8872105
96	1.75	12619	3370	18.25	2	305	C	254-5TC	RBQ8972-18.25-M13-00	R8972055
87	1.67	13850	3370	20.03	2	305	C	254-5TC	RBQ8972-20.03-M13-00	R8972056
71	1.47	16976	3370	24.55	2	305	C	254-5TC	RBQ8972-24.55-M13-00	R8972057
70	2.20	17294	3900	25.01	2	443	C	254-5TC	RBQ81072-25.01-M13-00	R81072054
64	1.21	19016	3370	27.50	2	305	C	254-5TC	RBQ8972-27.50-M13-00	R8972058
62	1.94	19589	4200	28.33	2	443	C	254-5TC	RBQ81072-28.33-M13-00	R81072055
56	1.07	21505	3370	31.10	2	305	C	254-5TC	RBQ8972-31.10-M13-00	R8972059
54	1.70	22459	4350	32.48	2	443	C	254-5TC	RBQ81072-32.48-M13-00	R81072056
50	1.58	24181	4550	34.97	2	443	C	254-5TC	RBQ81072-34.97-M13-00	R81072057
51	1.59	23897	4550	34.56	3	473	C	254-5TC	RBQ81073-34.56-M13-00	R81073082
45	1.43	26684	4570	38.59	3	473	C	254-5TC	RBQ81073-38.59-M13-00	R81073083
44	1.39	27403	4850	39.63	3	473	C	254-5TC	RBQ81073-39.63-M13-00	R81073084
41	1.28	29837	5000	43.15	3	473	C	254-5TC	RBQ81073-43.15-M13-00	R81073085
38	1.18	32188	5100	46.55	3	473	C	254-5TC	RBQ81073-46.55-M13-00	R81073086
35	1.11	34207	5300	49.47	3	473	C	254-5TC	RBQ81073-49.47-M13-00	R81073087
33	1.05	36164	5450	52.30	3	473	C	254-5TC	RBQ81073-52.30-M13-00	R81073088
33	1.03	36904	5500	53.37	3	473	C	254-5TC	RBQ81073-53.37-M13-00	R81073089
32	1.01	37630	5550	54.42	3	473	C	254-5TC	RBQ81073-54.42-M13-00	R81073090

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.



STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

MOTOR SELECTIONS



20 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	208-230/460 3-PH	TEFC	256TC	151352	25
WATSAVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	256TC	171589	18, 27

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:

R8772093 – 151352

QUICK SELECTIONS

**R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT**



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.

25 HP Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
781	4.13	1936	3370	2.24	2	320	C	284-6TC	RBQ8972-2.24-M15-00	R8972064
774	5.00	1953	2725	2.26	2	443	C	284-6TC	RBQ81072-2.26-M15-00	R81072058
732	2.15	2066	1820	2.39	2	199	C	284-6TC	RBQ8872-2.39-M15-00	R8872111
692	3.85	2187	3370	2.53	2	320	C	284-6TC	RBQ8972-2.53-M15-00	R8972065
655	2.02	2308	1830	2.67	2	199	C	284-6TC	RBQ8872-2.67-M15-00	R8872112
585	1.89	2584	1840	2.99	2	199	C	284-6TC	RBQ8872-2.99-M15-00	R8872113
556	3.39	2723	3370	3.15	2	320	C	284-6TC	RBQ8972-3.15-M15-00	R8972066
543	1.02	2783	1350	3.22	2	116	C	254-5TC	RBQ8772-3.22-M13-00	R8772096
543	1.80	2783	1840	3.22	2	199	C	284-6TC	RBQ8872-3.22-M15-00	R8872114
486	3.12	3112	3370	3.60	2	320	C	284-6TC	RBQ8872-3.60-M15-00	R8972067
483	1.67	3129	1840	3.62	2	199	C	284-6TC	RBQ8872-3.62-M15-00	R8872115
464	1.62	3259	1850	3.77	2	199	C	284-6TC	RBQ8872-3.77-M15-00	R8872116
411	1.49	3682	1860	4.26	2	199	C	284-6TC	RBQ8872-4.26-M15-00	R8872117
380	2.64	3976	3370	4.60	2	320	C	284-6TC	RBQ8972-4.60-M15-00	R8972068
346	1.31	4374	1880	5.06	2	199	C	284-6TC	RBQ8872-5.06-M15-00	R8872118
326	2.27	4633	3370	5.36	2	320	C	284-6TC	RBQ8972-5.36-M15-00	R8972069
296	3.22	5117	3370	5.92	2	320	C	284-6TC	RBQ8972-5.92-M15-00	R8972070
291	1.82	5195	1900	6.01	2	199	C	284-6TC	RBQ8872-6.01-M15-00	R8872119
262	3.03	5782	3370	6.69	2	320	C	284-6TC	RBQ8972-6.69-M15-00	R8972071
261	1.71	5800	1980	6.71	2	199	C	284-6TC	RBQ8872-6.71-M15-00	R8872120
233	1.60	6483	2080	7.50	2	199	C	284-6TC	RBQ8872-7.50-M15-00	R8872121
216	1.52	6993	2100	8.09	2	199	C	284-6TC	RBQ8872-8.09-M15-00	R8872122
210	2.50	7209	3370	8.34	2	320	C	284-6TC	RBQ8972-8.34-M15-00	R8972072
193	1.41	7857	2140	9.09	2	199	C	284-6TC	RBQ8872-9.09-M15-00	R8872123
185	1.37	8177	2150	9.46	2	199	C	284-6TC	RBQ8872-9.46-M15-00	R8872124
184	2.21	8229	3370	9.52	2	320	C	284-6TC	RBQ8972-9.52-M15-00	R8972073
164	1.26	9240	2200	10.69	2	199	C	284-6TC	RBQ8872-10.69-M15-00	R8872125
144	1.83	10519	3370	12.17	2	320	C	284-6TC	RBQ8972-12.17-M15-00	R8972074
138	1.11	10986	2350	12.71	2	191	C	284-6TC	RBQ8872-12.71-M15-00	R8872126
124	1.67	12248	3370	14.17	2	320	C	284-6TC	RBQ8972-14.17-M15-00	R8972075
97	2.43	15662	3350	18.12	2	443	C	284-6TC	RBQ81072-18.12-M15-00	R81072070
96	1.40	15774	3370	18.25	2	320	C	284-6TC	RBQ8972-18.25-M15-00	R8972076
87	1.33	17313	3370	20.03	2	320	C	284-6TC	RBQ8972-20.03-M15-00	R8972077
87	2.20	17321	3500	20.04	2	443	C	284-6TC	RBQ81072-20.04-M15-00	R81072071
78	1.98	19275	3700	22.30	2	443	C	284-6TC	RBQ81072-22.30-M15-00	R81072072
70	1.76	21617	3900	25.01	2	443	C	284-6TC	RBQ81072-25.01-M15-00	R81072073
62	1.56	24487	4200	28.33	2	443	C	284-6TC	RBQ81072-28.33-M15-00	R81072074
54	1.36	28074	4350	32.48	2	443	C	284-6TC	RBQ81072-32.48-M15-00	R81072075
50	1.26	30226	4550	34.97	2	443	C	284-6TC	RBQ81072-34.97-M15-00	R81072076
51	1.28	29872	4550	34.56	3	473	C	284-6TC	RBQ81073-34.56-M15-00	R81073109
45	1.14	33355	4570	38.59	3	473	C	254-5TC	RBQ81073-38.59-M13-00	R81073083
44	1.11	34254	4850	39.63	3	473	C	254-5TC	RBQ81073-39.63-M13-00	R81073084
41	1.02	37296	5000	43.15	3	473	C	254-5TC	RBQ81073-43.15-M13-00	R81073085

Helical - Inline Gear Reducers

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.



STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8972064 – 151507

MOTOR SELECTIONS



25 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	208-230/460 3-PH	TEFC	284TC	151507	25
WATTS AVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	284TC	171591	18, 27



QUICK SELECTIONS

R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



30 HP

Gear Reducer Quick Selections

Helical - In-line Gear Reducers

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
781	3.44	2323	3370	2.24	2	320	C	286TC	RBQ8972-2.24-M15-00	R8972064
774	4.17	2344	2725	2.26	2	443	C	286TC	RBQ81072-2.26-M15-00	R81072058
732	1.80	2479	1820	2.39	2	199	C	286TC	RBQ8872-2.39-M15-00	R8872111
692	3.21	2624	3370	2.53	2	320	C	286TC	RBQ8972-2.53-M15-00	R8972065
655	1.68	2769	1830	2.67	2	199	C	286TC	RBQ8872-2.67-M15-00	R8872112
585	1.57	3101	1840	2.99	2	199	C	286TC	RBQ8872-2.99-M15-00	R8872113
556	2.83	3267	3370	3.15	2	320	C	286TC	RBQ8972-3.15-M15-00	R8972066
543	1.50	3340	1840	3.22	2	199	C	286TC	RBQ8872-3.22-M15-00	R8872114
486	2.60	3734	3370	3.60	2	320	C	286TC	RBQ8972-3.60-M15-00	R8972067
483	1.39	3755	1840	3.62	2	199	C	286TC	RBQ8872-3.62-M15-00	R8872115
464	1.35	3910	1850	3.77	2	199	C	286TC	RBQ8872-3.77-M15-00	R8872116
411	1.24	4419	1860	4.26	2	199	C	286TC	RBQ8872-4.26-M15-00	R8872117
380	2.20	4771	3370	4.60	2	320	C	286TC	RBQ8972-4.60-M15-00	R8972068
346	1.10	5248	1880	5.06	2	199	C	286TC	RBQ8872-5.06-M15-00	R8872118
326	1.89	5559	3370	5.36	2	320	C	286TC	RBQ8972-5.36-M15-00	R8972069
296	2.69	6140	3370	5.92	2	320	C	286TC	RBQ8872-5.92-M15-00	R8972070
291	1.52	6234	1900	6.01	2	199	C	286TC	RBQ8872-6.01-M15-00	R8872119
262	2.52	6939	3370	6.69	2	320	C	286TC	RBQ8972-6.69-M15-00	R8972071
261	1.42	6960	1980	6.71	2	199	C	286TC	RBQ8872-6.71-M15-00	R8872120
233	1.33	7779	2080	7.50	2	199	C	286TC	RBQ8872-7.50-M15-00	R8872121
216	1.27	8391	2100	8.09	2	199	C	286TC	RBQ8872-8.09-M15-00	R8872122
210	2.08	8650	3370	8.34	2	320	C	286TC	RBQ8972-8.34-M15-00	R8972072
193	1.18	9428	2140	9.09	2	199	C	286TC	RBQ8872-9.09-M15-00	R8872123
185	1.14	9812	2150	9.46	2	199	C	286TC	RBQ8872-9.46-M15-00	R8872124
184	1.84	9874	3370	9.52	2	320	C	286TC	RBQ8972-9.52-M15-00	R8972073
164	1.05	11088	2200	10.69	2	199	C	286TC	RBQ8872-10.69-M15-00	R8872125
144	1.52	12623	3370	12.17	2	320	C	286TC	RBQ8972-12.17-M15-00	R8972074
124	1.39	14697	3370	14.17	2	320	C	286TC	RBQ8972-14.17-M15-00	R8972075
97	2.03	18794	3350	18.12	2	443	C	286TC	RBQ81072-18.12-M15-00	R81072070
96	1.17	18929	3370	18.25	2	320	C	286TC	RBQ8972-18.25-M15-00	R8972076
87	1.11	20775	3370	20.03	2	320	C	286TC	RBQ8972-20.03-M15-00	R8972077
87	1.83	20786	3500	20.04	2	443	C	286TC	RBQ81072-20.04-M15-00	R81072071
78	1.65	23130	3700	22.30	2	443	C	286TC	RBQ81072-22.30-M15-00	R81072072
70	1.47	25941	3900	25.01	2	443	C	286TC	RBQ81072-25.01-M15-00	R81072073
62	1.30	29384	4200	28.33	2	443	C	286TC	RBQ81072-28.33-M15-00	R81072074
54	1.13	33689	4350	32.48	2	443	C	286TC	RBQ81072-32.48-M15-00	R81072075
50	1.05	36271	4550	34.97	2	443	C	286TC	RBQ81072-34.97-M15-00	R81072076
51	1.06	35846	4550	34.56	3	473	C	286TC	RBQ81073-34.56-M15-00	R81073109

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.



STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R8972064 – 151505

MOTOR SELECTIONS



30 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	208-230/460 3-PH	TEFC	286TC	151508	25
WATSAVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	286TC	171592	18, 27

QUICK SELECTIONS

**R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT**



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



40 HP Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
774	3.13	3125	2725	2.26	2	473	C	324-5TC	RBQ81072-2.26-M17-00	R81072096
591	3.12	4094	2745	2.96	2	473	C	324-5TC	RBQ81072-2.96-M17-00	R81072098
461	3.13	5241	2755	3.79	2	473	C	324-5TC	RBQ81072-3.79-M17-00	R81072099
322	2.57	7509	2700	5.43	2	473	C	324-5TC	RBQ81072-5.43-M17-00	R81072101
255	2.77	9487	2785	6.86	2	473	C	324-5TC	RBQ81072-6.86-M17-00	R81072103
222	2.58	10856	2790	7.85	2	473	C	324-5TC	RBQ81072-7.85-M17-00	R81072104
173	2.51	13940	2800	10.08	2	473	C	324-5TC	RBQ81072-10.08-M17-00	R81072105
143	2.26	16886	2810	12.21	2	473	C	324-5TC	RBQ81072-12.21-M17-00	R81072106
121	1.91	19928	3050	14.41	2	473	C	324-5TC	RBQ81072-14.41-M17-00	R81072107
96	1.52	25059	3350	18.12	2	473	C	324-5TC	RBQ81072-18.12-M17-00	R81072108
87	1.37	27714	3500	20.04	2	473	C	324-5TC	RBQ81072-20.04-M17-00	R81072109
78	1.24	30840	3700	22.30	2	473	C	324-5TC	RBQ81072-22.30-M17-00	R81072110
70	1.10	34588	3900	25.01	2	473	C	324-5TC	RBQ81072-25.01-M17-00	R81072111

Helical - Inline Gear Reducers

50 HP Gear Reducer Quick Selections

774	2.50	3907	2725	2.26	2	488	C	364-5TC	RBQ81072-2.26-M19-00	R81072096
591	2.50	5117	2745	2.96	2	488	C	364-5TC	RBQ81072-2.96-M19-00	R81072098
461	2.50	6552	2755	3.79	2	473	C	324-5TC	RBQ81072-3.79-M19-00	R81072099
322	2.06	9387	2700	5.43	2	473	C	324-5TC	RBQ81072-5.43-M19-00	R81072101
254	2.21	11911	2785	6.89	2	473	C	324-5TC	RBQ81072-6.89-M19-00	R81072103
222	2.06	13570	2790	7.85	2	473	C	324-5TC	RBQ81072-7.85-M19-00	R81072104
173	2.01	17425	2800	10.08	2	473	C	324-5TC	RBQ81072-10.08-M19-00	R81072105
143	1.81	21107	2810	12.21	2	473	C	324-5TC	RBQ81072-12.21-M19-00	R81072106
121	1.53	24910	3050	14.41	2	473	C	324-5TC	RBQ81072-14.41-M19-00	R81072107
96	1.22	31324	3350	18.12	2	473	C	324-5TC	RBQ81072-18.12-M19-00	R81072108
87	1.10	34643	3500	20.04	2	473	C	324-5TC	RBQ81072-20.04-M19-00	R81072109

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
R81072096 – 151509



STOCK GEAR+MOTOR™
Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

MOTOR SELECTIONS



40 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	208-230/460 3-PH	TEFC	324TC	151509	25
WATTS AVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	324TC	171593	18, 27

50 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	208-230/460 3-PH	TEFC	326TC	151510	25
WATTS AVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	326TC	171594	18, 27



QUICK SELECTIONS
R SERIES & P SERIES HELICAL-INLINE
1750 RPM INPUT



This Quick Selection is only for motorized reducers with base mount (Aluminum = B1 suffix, Cast Iron = no suffix.) For other reducer configurations refer to Maximum Rating Tables beginning on page 429.



Helical - In-line Gear Reducers

60 HP Gear Reducer Quick Selections

Output Speed (RPM)	Service Factor▼	Output Torque (lb-in)	Overhung Load ● (lbs.)	Ratio	Number of Stages	Reducer Weight ♦ (lbs.)	Aluminum or Cast Iron	Motor Frame	Model Number	Reducer Only Catalog Number
774	2.08	4688	2725	2.26	2	488	C	364-5TC	RBQ81072-2.26-M19-00	R81072096
591	2.08	6140	2745	2.96	2	488	C	364-5TC	RBQ81072-2.96-M19-00	R81072098
461	2.09	7862	2755	3.79	2	488	C	364-5TC	RBQ81072-3.79-M19-00	R81072099
380	2.02	9542	2570	4.60	2	488	C	364-5TC	RBQ81072-4.60-M19-00	R81072100
322	1.71	11264	2700	5.43	2	488	C	364-5TC	RBQ81072-5.43-M19-00	R81072101
291	2.09	12467	2750	6.01	2	488	C	364-5TC	RBQ81072-6.01-M19-00	R81072102
255	1.85	14231	2785	6.86	2	488	C	364-5TC	RBQ81072-6.89-M19-00	R81072103
222	1.72	16284	2790	7.85	2	488	C	364-5TC	RBQ81072-7.85-M19-00	R81072104
173	1.67	20910	2800	10.08	2	488	C	364-5TC	RBQ81072-10.08-M19-00	R81072105
143	1.50	25329	2810	12.21	2	488	C	364-5TC	RBQ81072-12.21-M19-00	R81072106
121	1.27	29892	3050	14.41	2	488	C	364-5TC	RBQ81072-14.41-M19-00	R81072107
96	1.01	37589	3350	18.12	2	488	C	364-5TC	RBQ81072-18.12-M19-00	R81072108

75 HP Gear Reducer Quick Selections

774	1.67	5860	2725	2.26	2	488	C	364-5TC	RBQ81072-2.26-M19-00	R81072096
678	1.67	6690	2735	2.58	2	488	C	364-5TC	RBQ81072-2.58-M19-00	R81072097
591	1.67	7675	2745	2.96	2	488	C	364-5TC	RBQ81072-2.96-M19-00	R81072098
461	1.67	9828	2755	3.79	2	488	C	364-5TC	RBQ81072-3.79-M19-00	R81072099
380	1.62	11928	2570	4.60	2	488	C	364-5TC	RBQ81072-4.60-M19-00	R81072100
322	1.37	14080	2700	5.43	2	488	C	364-5TC	RBQ81072-5.43-M19-00	R81072101
291	1.69	15584	2750	6.01	2	488	C	364-5TC	RBQ81072-6.01-M19-00	R81072102
255	1.48	17788	2785	6.86	2	488	C	364-5TC	RBQ81072-6.89-M19-00	R81072103
222	1.38	20355	2790	7.85	2	488	C	364-5TC	RBQ81072-7.85-M19-00	R81072104
173	1.34	26138	2800	10.08	2	488	C	364-5TC	RBQ81072-10.08-M19-00	R81072105
143	1.20	31661	2810	12.21	2	488	C	364-5TC	RBQ81072-12.21-M19-00	R81072106
121	1.02	37366	3050	14.41	2	488	C	364-5TC	RBQ81072-14.41-M19-00	R81072107

- ♦ Weight does not include oil.
- ▼ Service Factor is based on maximum torque rating of reducer.
- Overhung load is calculated at centerline of output shaft.

How To Create a GEAR+MOTOR™ Part Number

1. Select reducer catalog number
2. Select motor catalog number
3. Order reducer and motor as one line item as shown below

Example:
 R81072096 – 151519



STOCK GEAR+MOTOR™
 Start with a Grove Gear IRONMAN reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

MOTOR SELECTIONS



60 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	208-230/460 3-PH	TEFC	364TC	151519	25
WATSAVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	364TC	171595	18, 27



75 HP LEESON ELECTRIC MOTORS

Motor Type	Voltage	Enclosure	Frame	Catalog Number	LEESON 1050 Catalog Page
General Purpose, C Face	208-230/460 3-PH	TEFC	365TC	G150086	27
WATSAVER® Premium Efficiency Motor	208-230/460 3-PH	TEFC	365TC	171596	18, 27