MOTORS—M. G. SETS—TRANSFORMERS

ENGINEERED AND REBUILT BY EXPERTS IN OUR OWN PLANT

SYNCHRONOUS MOTORS

Qu.	H.P.	Make	P.F.	Volts	R.P.M.
1	5000	G.E.	100	2300	90
1	3500	Whse.	80	4600/2400	720
1	2100	G.E.	100	2300	360
1	1750	G.E.	100	2300	3600
1	750	G.E.	80	2300	450
1	600	G.E.	100	440	900
1	700	G.E.	80	2300	720
1	240	G.E.	100	2300	514
1	200	Whse.	80	440	1200
1	187	G.E.	80	440	720
1	150	G.E.	100	2300	900
1	150	G.E.	100	440	900
1	150	Whse.	80	220/440	450
1	125	G.E.	80	4000/2300	1200
1	125	El. Mchy.	100	4600/2400	900
1	125	G.E.	80	2300	900
1	100	Whse.	80	440	1200
1	100	Ideal	80	440	900
1	100	G.E.	80	440	600

With these we can supply—Manual, Semi or full magnetic reduced or full voltage control.

SQUIRREL CAGE MOTORS

3-Phase — 60 Cycle

Qu.	H.P.	Make	Type	Volts	R.P.M.
1	400	Cont.	NZ-600	2300	1200
1	400	G.E.	I-K	2300	514
1	400	G.E.	KT-412	2300	450
1	300	Whse.	CS-800	2300	1780
1	300	Whse.	CS-873-C	2300	1200
1	200	Al.Ch.	ARY	440	600
1	125	Al.Ch.	AR	2200	1780
1	125	Al.Ch.	AR	2300	514
1	125	G.W.	125-Q	440	450
1	100	Whse.	CS-663-C	440	1780
1	100	Al.Ch.	AR	440	720
1	100	Whse.	CS-038	2200	514
1	100	F.M.	II-241	440	160
1	75	Al.Ch.	AR	2200	1705
1	75	G.E.	I-K	440	600
1	75	Al.Ch.	M-Alt	2200	720

Special—1 (new) G.E. Vertical KF-474, 2200 Volt 880 R.P.M., enclosed, hollow shaft

MOTOR GENERATOR SETS

Qu.	KW	Make	RPM	Volts DC	Volts AC
1 (3-U)	2400	Whse.	720	600	4600/2400
1	1500	G.E.	600	600	4160/2300
1	1000	Whse.	514	600	11,000/6600
1	1000	G.E.	514	600	11,000/6600
1	750	Whse.	900	600	4160/2300
1	500	G.W.	720	275	2300/440
1 (3-U)	500	Whse.	1200	125/250	440
1	400	G.W.	1200	125/250	440
1	250	Whse.	1200	125/250	2300/440
1	200	Whse.	1200	275	4000/2300
1	200	Whse.	1200	125/250	4000/2300
1	185	G.E.	720	600	2300/4401
1	150	Whse.	1200	125/250	440
1	100	Delco	1800	125/250	440/220
1	100	Ridgway	1800	275	4000/2300
1	100	G.W.	1200	125	440/220
1	85	G.W.	1200	250	440/2203
1	75	Al. Ch.	900	250	2300
1	75	Whse.	900	240	2300
1	35	Ideal	1750	125	440/220
1	25	Al. Ch.	1200	250	440/220
1	20	Al. Ch.	1200	250	440/220
1	15	Al. Ch.	1200	250	440/220

We can furnish any of these sets with D. C. panels, A.C. starting equipment, exciter sets and other accessories.

> Motor Generator Sets of modern design, complete with control—still on their original foundations—available for immediate shipment.
> (3)—G. E. 1300-KW, 250-VDC, 514 R.P.M., cpd., interpole, pole face windings, 2100-HP syn. motors, .8-PF, 13,200-V, 3-ph, 60-cy. will reconnect to 6600-V, or 4160-V.

TRANSFORMERS (Power)

Outdoor—Oil Cooled

Qu.	KVA	Make	Type	Phase	Voltage
3	250	Packard	A	1	13200-2300
3	150	Packard	A	1	2300-230/460

3—833-KVA Westinghouse O.I.S.C. transformers, type B, one phase, 60 cycle, still on original foundation, primary 66,000 Volts with (4) 2½% taps below secondary 2300/4160-Y. Can ship immediately from location.

SLIP RING MOTORS—CONSTANT DUTY

3-Phase — 60 cycle

Qu.	H.P.	Make	Type	Volts	R.P.M.
1	1800	G.E.	MT 498	2300	251
1	1200	G.E.	MT 28	2300	277
1	1000	Al.Ch.	ANY	2300	238
1	800	G.E.	MT	2300	450
1	800	G.E.	MT 20	2300	450
1	500	Al.Ch.	ANY	2200	514
1	500	G.E.	I-16-M	2200	450
1	400	G.E.	MT 412	2200	450
1	250	Whse.	CW 837	440	1200
1	150	Al.Ch.	ANY	440	720
1	150	G.E.	MT 414	2200	900
1	125	Whse.	CW 870	2300	900
1	100	Whse.	CW 786	440	1200
1	100	F.M.	B to C	440	900
1	100	G.E.	I-13A-M	2300	514

DIRECT CURRENT MOTORS

Qu.	H.P.	Make	Type	R.P.M.
1***	3000	Whse.	Encl. (Rev.)	600
1***	2400	Whse.	Encl. (Rev.)	600
4***	1500	Whse.	Encl. (Rev.)	600
4***	1500	Whse.	Encl. (Rev.)	600
4***	800	Whse.	Encl. (Rev.)	600
10**	700	Whse.	Mill	225/775
1**	350	G. E.	CD-189	1140
1**	300	G. E.	MPC-6	325/975
1**	300/250	El. Dy.	Size 22	400/1200
1**	300	Whse.	Mill	300/1200
1**	300/250	G. E.	MPC	300/900
1**	150	G. E.	MPC	100
1***	125	Whse.	SK-190	900
1**	90/100	G. E.	MPC	325/1175
2	125	Whse.	SK-184	575/850
1	75	G. E.	CD-133	500/1000
1	60	El. Dy.	35-S	150/600
1	50	G. E.	RF-16	400/900
1	50	Whse.	SK	250/1000

All above are 230-VDC except where marked ***
***—Pedestal bearing mill type 525/600-VDC
**—Pedestal Bearing 230-VDC

T. B. MAC CABE COMPANY

4314 CLARISSA STREET — Phone DAvenport 4-8300 — PHILADELPHIA 40, PENNA.

NEW MOTORS! • STOCK SHIPMENT

ALL BALLBEARING

General Electric, Louis Allis, Reliance, Westinghouse.
NEMA FRAME

Discounts from 60% to 65% Off on items listed below.

TEFC & EXPLOSION-PROOF 3/60/220-440

Quan.	HP	Speed	Make	Frame
1	75	3600	G.E.	504
4	60**	3600	Rel.	445
3	60**	3600	G.E.	445
1	60	3600	Wes.	445
1	50**	3600	G.E.	444
3	40**	3600	Rel.	405
1	40**	3600	G.E.	405
1	30*	3600	L.A.	405
3	30**	3600	G.E.	404
3	20**	3600	L.A.	324
1	15*	1800	L.A.	326
1	15*	1800	L.A.	364
1	10*	3600	L.A.	286
1	10**	3600	L.A.	256
3	10*	1800	L.A.	324
3	5**	3600	L.A.	225
3	5*	1800	L.A.	254
1	5*	900	L.A.	324
1	3*	1800	L.A.	225
1	3*	1200	L.A.	224
1	3*	1200	L.A.	225
1	1½*	1200	L.A.	224
10	1*	3600	L.A.	187
1	¾*	1800	G.E.	63A

1/60/115-230

Quan.	HP	Speed	Make	Frame
1	3*	1800	L.A.	254
1	1½*	1800	L.A.	225
1	1*	1800	L.A.	224

* 1-D Label—** 2-G Label

OPEN DRIP-PROOF—3/60/220-440

Quan.	HP	Speed	Make	Frame
1	100	3600	G.E.	448S
11	40	3600	Rel.	404S
1	30	3600	G.E.	365
1	25	3600	G.E.	364S
2	15	3600	L.A.	324
1	10	3600	L.A.	284
1	10	1800	L.A.	324
1	7½	1800	L.A.	284
1	7½	1800	L.A.	284
7	7½	900	L.A.	326
1	5	3600	L.A.	254
1	5	1800	L.A.	254
3	5	1200	L.A.	254
3	5	900	L.A.	324
7	5	1170	Rel.D.	225
3	3	1800	L.A.	225
1	3	1200	L.A.	254
1	2	1800	L.A.	224
10	2	1200	L.A.	225
1	1½	1800	L.A.	204
1	1½	1200	G.E.	224
1	1½	1200	L.A.	224
1	1	3600	Rel.	203
2	1	1200	L.A.	204

3/60/220 GEARMOTORS

3—5/3.3/3.3/1.08 HP, 56/36/27/19 RPM, Whse. Frame PD224, Parallel shaft output.
35 ¾ 12.8 G.E. 63A Parallel shaft—220/440 V

10,000 OTHER MOTORS IN STOCK—FHP THRU 1000 HP, NEW AND REBUILT.

BENSON-WILIMZIG, INC.

1708 North 9th Street — Garfield 4290 — St. Louis 6, Missouri
PHONE — WIRE — OR WRITE

New and Used Equipment Available for
POWER PLANTS, SUBSTATIONS, TRANSMISSION LINES AND CONSTRUCTION
Send for new list to
EBASCO SERVICES INCORPORATED
APPARATUS EXCHANGE — Two Rector St., New York 6, N. Y.

FOR SALE

(6) OIL FIRED B&W BOILERS

Cross Drum Sinuous Headed straight tube type. Heating surface 11417 sq. ft.—1141.7 HP—210 P.S.I.G. design pressure—200 P.S.I.G. working pressure—75,000 lbs./hr. capacity—steam temp., saturated—1024 cu. ft. furnace volume—200° feed water temperature.

(6) 300 KW TURBO GENERATOR SETS

120/240 volts DC—Joshua-Hendy turbine—250 lb. W.P. condensing. Suitable for pressures to 440 lbs. at 740°TT. Geared to 1200 RPM. 300 KW Westinghouse 120/240 volt 1250 amp. stabilized shunt generator. With switchgear. Built 1945. Excellent condition.

(4) 100 KW GM 3-268A 440/60/3 AC generator sets.

(1) 100 KW LORIMER 440/60/3 AC generator set.

(1) 100 KW FAIRBANKS-MORSE opposed 440/60/3 AC generator set.

THE BOSTON METALS CO.

313 E. Baltimore Street
Baltimore 2, Md.
Curtis 7-5050

DIESEL GENERATOR SETS

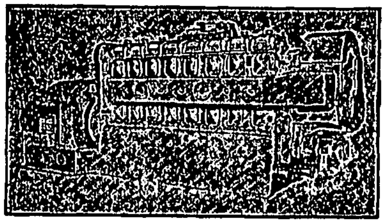
100 KW General Motors Model 3-268A, A.C. & D.C. units. Rebuilt.
50 KW Int'l Harvester eng. 4 Cyl., 3/60/120/208 V. Rebuilt.

Other sizes in stock, AC & DC Units.
ALJON ELECTRIC DIESEL CO.
104 Pacific St., Brooklyn 38, N. Y.
STerling 3-6515

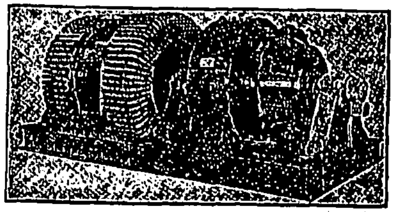
"THE O'BRIEN STORY"

KNOWLEDGE . . . FACILITIES . . . CAPITAL . . . EXPERIENCE . . . these are the requisites around which The O'Brien Story is built. With over 37 years of experience and know how in Manufacturing, Rebuilding, Reconditioning and Distributing Industrial Machinery of all types The O'Brien Machinery Company has expanded until today we are, in addition to being Philadelphia's leading Machinery dealers and exporters, one of the nation's outstanding Machinery houses. Our facilities consist of over 100,000 sq. ft. of fully equipped shops and warehousing space manned by our complete staff of graduate mechanical and electrical engineers, competent buying and selling personnel, trained electricians and skilled machinists. Our representation is both national and international, and our service facilities are linked from coast to coast. The name O'Brien in the machinery industry stands for quality and integrity which is the keynote of our success. "Know the integrity of your dealer and you will know the quality of your machinery."

Read More About "The O'Brien Story," in the next issue of Power.



375 KVA GM DIESEL GENERATOR SET



500 KW WEST. MOTOR GENERATOR SET

MOTOR GENERATOR SETS

1500 KW G.E. 250 Volt 3/60/2300/360 RPM
1—1000 KW West. 250 volt Flat Compound 300 RPM 1440 H.P. West. Syn. Mtr. .8 P.F. 3/25 cycle 2300 V. A.C. & D.C. Panels
1—500 KW Westinghouse 250 Volt 900 RPM with 720 H.P. West. Syn. Motors 3/60/6600/13200 volt. Serial #2213047 (year 1926) See actual photo above.
1—500 KW Crocker Wheeler CCD, 250 volt 720 RPM with 750 KVA Cr. Wh. Syn. Motor 3/60/2300 V. A.C. & D.C. Panels.
1—300 KW West. 3 wire 125/250 Volt 1200 RPM Generator (1938 year). Can furnish with suitable motor. Advise Requirement.
200 KW Elliott 250 Volt 1200 RPM 3/60/Any Voltage.
3—150 KW G.E. Type MPC—250 Volt 1200 RPM 3/60/2300/200 H.P. Syn. Motor Drive A.C. & D.C. Panels
100 KW Electro Dynamic 200 V. 3/60/220/1200 D. Brg. Sq. Cg. Sep. Excited.
1—100 KW Al. Ch. 250 V. 1200 RPM 150 H.P. Syn. Mtr. 3/60 or 3/60 any voltage.
1—100 KW G.E.—C.D.—125 Volt D.C. 150 HP GE Syn. Mtr., 3/60/220/440/1200 RPM.
1—75 KW Burke 250 V. 900 RPM 115 H.P. Burke—Syn. M.D. 3 or 3 ph. any voltage.
3—60 KW GE 600 Volt DC, 75 HP. 3/60/440/1200 RPM.
Smaller Sizes and Types—Advise Requirements

> 1—New O'Brien "Red-Line" 750 KVA OISC Transformer 13,200/13,800 v. pri., 480 v., sec., 3 ph.
> 3—333 KVA New O'Brien Red Line O.I.S.C. Transformers 4160 V primary 480 V secondary ea. single phase 60 cyc.

OISC TRANSFORMERS

Qu.	KVA	Make	Pri. V.	Sec. V.	Phase
3	1000	GE	13200	2300	1
1	1000	Penna.	13200	480	1
1	1100	West.	4160	440	3
3	750	West.	2300	220	1
3	500	GE	13200	2300	1
3	333	(New)	2400	480	1
3	333	GE	13200	2300	1
3	250	West.	13200	2300	1
3	200	GE	7200	120/240	1

OISC TRANSFORMERS (Con't)

Qu.	KVA	Make	Pri. V.	Sec. V.	Phase
3	100	GE	13200	2300	1
3	200	Mol.	2300	220/440	1
3	200	GE	13200	2300	1
3	200	GE	7200	2300	1
3	150	GE	33000	220/440	1
3	150	Niag.	2400	240/480	1
3	100	West.	11000	480	1
3	100	GE	7200	120/240	1
2	100	GE	2300	115/230	1
3	75	Mol.	2300	115/230	1

DIESEL & GASOLINE GENERATOR SETS

1—1250 KVA Nordberg 3/60/2300/360 RPM 1940
6—875 KVA G.E.—Busch Sulzer 3/60/2300/275 RPM. Complete Plant, 1940
1—375 KVA GM 8-268A, 3/60/480/1200 RPM
1—250 KVA G.M. Twin 6-71, 3/60/220/440/1200 RPM Rad. Cooled.
1—187 KVA G.M. Twin 6-71 Portable, 3/60/220/440 New
1—125 KVA Hercules. 3/60/230/440/1500 Hrs.
1—66 KVA Climax Gasoline, 3/60/220/1200.
2—45 KVA Chry. New 6 Cyl. 3/60/220/440.
1—200 KW G.M. Twin 6-71, 240 D.C. Rad. Cooled Elec. Start.

ELECTRIC MOTORS

Qu.	HP	Make	Type	Volts	Speed
1	1000	G.E.	K	2300	1800
1	1000	West.	CW	2300	450
1	600	West.	CS	2200	600
1	500	AC	ARX	2300	1800
1	500	West.	CS	6600/2300	514
1	450	A.C.	ANY	2300	600
2	400	G.E.	IK	2300	1800
1	400	West.	CW	440	514
1	400	G.E.	Syn.	2300	450
1	350	G.E.	MT18	2300	400
1	250	G.E.	IM	2300	450
1	200	G.E.	IM	440	600
1	125	West.	Syn. 3 brg. 550		600

> **EXCEPTIONAL DELIVERY**
> New O'Brien mfrd. Red Line dry type Transformers to 150 KVA single phase. 300 KVA, 3 phase—4160 V. Pri—& Phase Changers to 100 KVA.

ELECTRIC MOTORS (Con't)

Qu.	HP	Make	Type	Volts	Speed
2	100	G.E.	KT352	220/440	1200
2	100	G.E.	Syn.	440	900
1	100	G.E.	KT548	440	1800
1	50	West.	CS	440	3600
1	50	West.	CS	440	1200

TURBO GENERATORS

1—1250 KVA DeLaval Non-Cond. 3/60/2300. New 1940 240 psi 50 lb. B.P.
1—750 KVA G.E.-Moore 3/60/2300/3600 RPM Non-Cond. 150 PSI 25 lb. B.P. New 1938.
1—500 KVA West. Non-Cond. 3/60/220/440, 150 PSI 10 lb. B.P.
1—200 KVA Moore Non-Condensing 3/60/480, 195 PSI, 100° F, 100# BP. Year 1936.
1—187 KVA West. Non-Cond. New 1930 3/60/440 110 psi 10 lb. B.P.
1—94 KVA Worthington Non-Cond. 3/60/220 140 psi 6 lb. B.P.
1—75 KW G.E. Non-Cond. D.C. 125 volt.

PLATING, ANODIZING SET

1250 amps 15 V. 900 rpm Columbia 30 HP Sq. Cage Motor 3/60/220 Direct Drive Complete on base with DC Panel.

AIR COMPRESSORS

1—12,000 CFM I.R. Turbo 2.25 lb., direct 250 H.P., 440/3/60/3600.
1—5650 CFM I.R. PRE-2, 43/25½x30, 100 lb. direct 930 HP Syn. 1 P.F. 2300/60/3.
1—4690 CFM I.R. PRE-2 43/24x27 100 lb. direct 804 HP Syn. .8 PF 2300/60/3.
1—1600 CFM Sullivan WJ 3 Angle Cpd. 100 psi 22/13x16 belt.
1—978 CFM Sullivan 18x13x8, 45 psi.
1—900 CFM CP 100 lb. 9CP Portable Diesel Compressor, Pneu. Tires.
1—868 CFM Sullivan 17x10x12, 100 psi.
1—625 CFM Ing. Rand 16x12, 100 psi.
1—216 CFM Penna 5A, 70 psi—V-Belt
1—365 CFM Chi. NSB, 12x10, 100 psi.
1—271 CFM Schramm 7½x5x4, 100 psi

BOILERS

4—500 HP Cleaver Brooks Package 200 lb.
1—300 HP Cleaver Brooks Package 150 lb.
1—450 HP Keeler CP 160 lb. Oil
1—300 HP Keeler CP 300 lb. Oil
1—150 HP Union Univ. Stoker 150 lb.
1— 00 HP Ames Package 125 lb.

"Everything from a Pulley to a Powerhouse"

THE O'BRIEN MACHINERY CO.

SINCE 1913

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