

5027-A | AIR APPLIED CALIPER DISC BRAKE

KEY BENEFITS

Bronze & stainless steel construction

Easily changed brake pads

Well matched to Kobelt's standard range of 2" x 4" ventilated discs

Putting you in control.

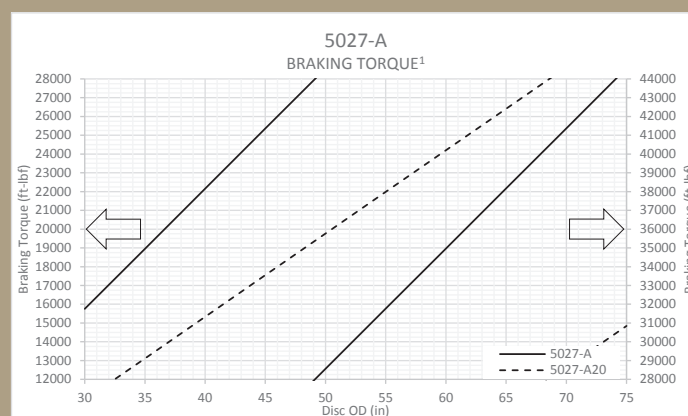
For over three decades, Kobelt has been manufacturing air applied disc brakes using a double diaphragm design for accurate braking control. Constructed of bronze and stainless steel, Kobelt's disc brakes are built to last in the harshest conditions.

Available with several options, these caliper disc brakes are well suited for service braking applications on winches, pleasure craft and other light duty applications.

SPECIFICATIONS

PART NO.	NORMAL FORCE	ACTUATOR VOLUME
5027-A	20,220 lbs [90.0 kN]	86 in ³ [1405 cc]
5027-A20	14,000 lbs [62.3 kN]	52 in ³ [846 cc]

Maximum Pressure:	100 psi	[6.9 bar]
Port Size:	¼ NPT	
Temperature Range:	-40°F...+131°F	-40°C...+55°C
Disc Thickness:	2 in	[51 mm]
Minimum Disc Diameter:	28 in	[711 mm]
Maximum Disc Diameter ² :	75 in	[1905 mm]
Pad Life:	6740 hp-hr	[5028 kw-hr]
Total Pad Area:	106 in ²	[688 cm ²]
Weight:	212 lbs	[96.2 kg]

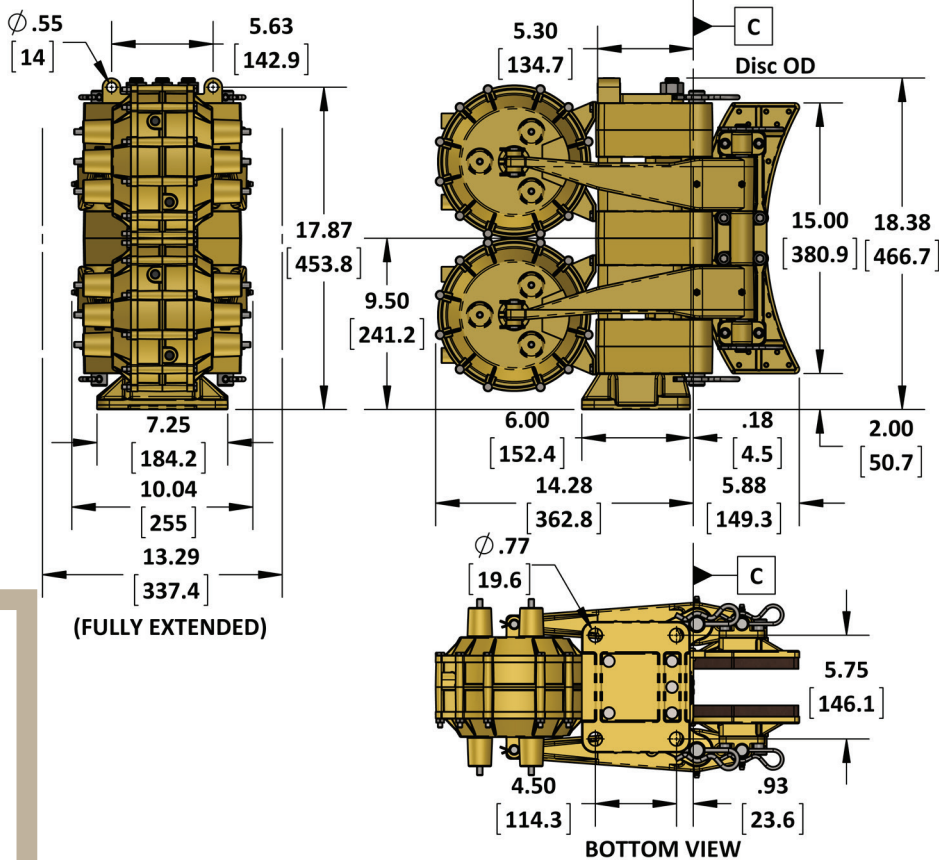


¹ Values in this chart are theoretical and for reference only. They are based on properly bedded and burnished linings acting on a ductile iron rotor at 20°C and manufactured to required specifications.

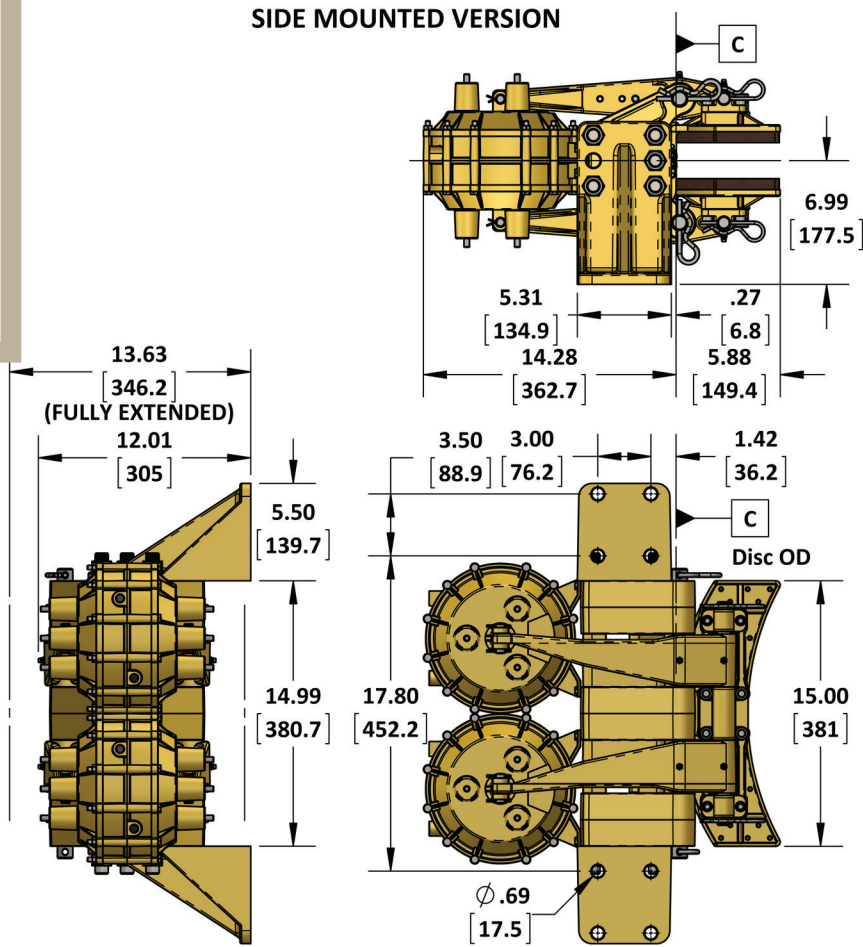
² Requires a minimum 5.12 in [130 mm] wide face.

SPECIFICATIONS

FOOT MOUNTED VERSION



SIDE MOUNTED VERSION



Brake Model Code Key

5027-A [] - [] - []

Friction material
(blank) = standard
N = non-sparking
C = low COF (.12-.15)
E = mid COF (.25-.28)

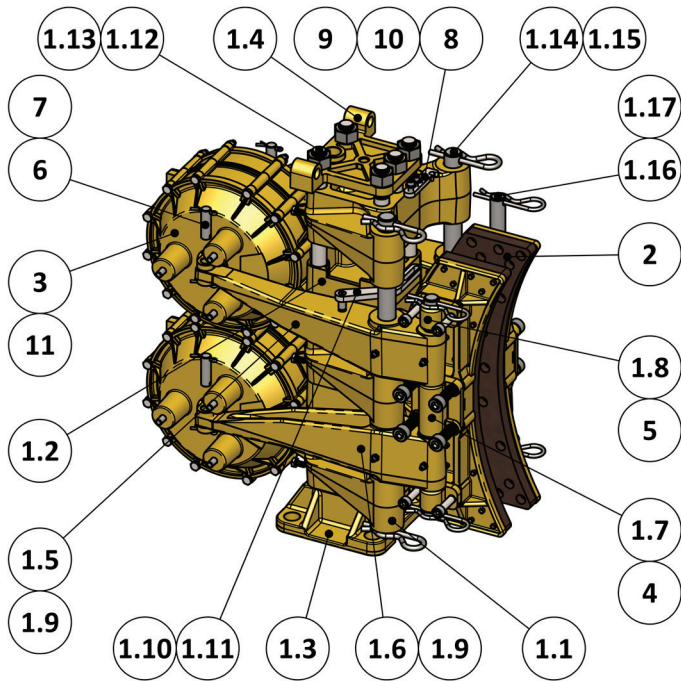
Disc thickness
(blank) = 2.000 in
175 = 1.750 in
150 = 1.500 in
125 = 1.250 in
100 = 1.000 in

Mounting code
(blank) = foot mounted
W = side mounted

Actuator code
(blank) = 30 sq.in.
20 = 20 sq.in.

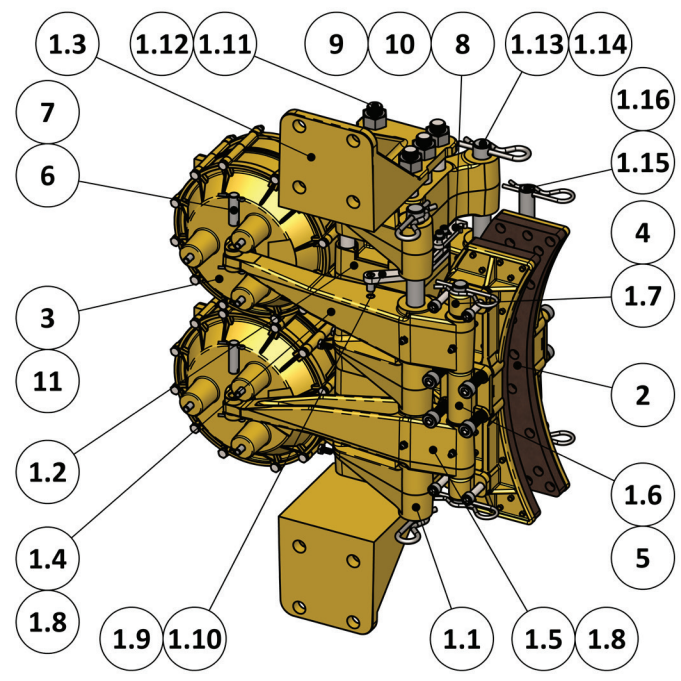
PARTS LISTING

5027-A Caliper Brake



ITEM	QTY.	PART NUMBER	5027-A DESCRIPTION
1	1	5027-SUB	SUB-ASSEMBLY, 5027 CALIPER
1.1	3	5027-0002	SADDLE, 5027 CALIPER
1.2	2	5024-0003	SPACER, 5024 CALIPER
1.3	1	5024-0001	FOOT, 5024 CALIPER
1.4	1	5027-0100	TOP SUPPORT, 5027 CALIPER
1.5	2	5027-0004-L	LEVER ARM, LEFT, 5026 CALIPER
1.6	2	5027-0004-R	LEVER, RIGHT, 5027
1.7	2	5026-0013	PIVOT BLOCK, CENTER, 5026 CALIPER
1.8	4	5026-0014	PIVOT BLOCK, OUTER, 5026 CALIPER
1.9	10	1501-0301	GREASE NIPPLE, 1/4-28
1.10	2	5024-0026	LINK PIN, 5024 - 5026 CALIPERS
1.11	2	5024-0011	BALANCING LINK NO. 1, 5024 CALIPER
1.12	5	5027-0023	TIE ROD, 5026 & 5027 CALIPER
1.13	5	1022-0117	NUT, HEX, 3/4-10 UNC, Gr 18-8
1.14	2	5027-0022	SADDLE PIN, 5027 CALIPER
1.15	4	1039-0470	PIN, HAIRPIN COTTER, 1/4 X 4-1/4, STEEL
1.16	2	5027-0021	SHOE PIN, 5027 CALIPER
1.17	4	1039-0352	HITCH PIN, 5/16 X4, STEEL
2	2	5027-LS	SHOE ASSEMBLY, 5/8" K5, 5027 CALIPER
3	2	6130	AIR APPLIED ACTUATOR, SIZE 30
4	8	1002-1420	SCREW, SKT HD, 1/2-13 UNC X 1-1/4, SS
5	8	1002-1220	SCREW, SKT HD, 3/8-16 UNC X 1-1/4, SS
6	4	6230-0010	CLEVIS PIN, 1/2" DIA
7	8	1026-0516	COTTER PIN, 1/8" X 1", SS
8	2	5024-0012	BALANCE LINK NO. 2, 5024 CALIPER
9	4	1023-0216	FLAT WASHER, 1/4, TYPE B, NARROW
10	4	1002-1010	SCREW, SKT HD, 1/4 UNC X 5/8 LG, 18-8 SS
11	8	1001-1008	SCREW, HEX HD, 1/4-20 UNC X 1/2, SS

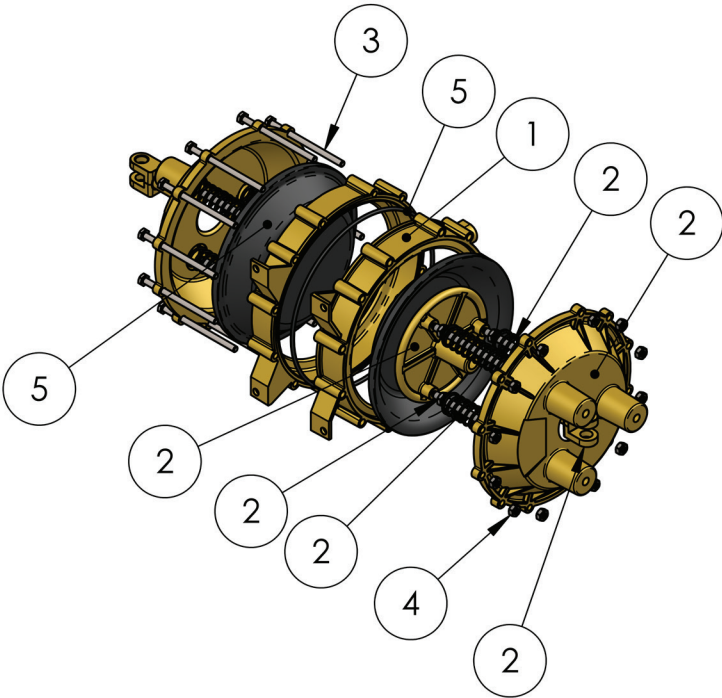
5027-AW Caliper Brake



ITEM	QTY.	PART NUMBER	5027-AW DESCRIPTION
1	1	5027-SUB-SW	SUB-ASSEMBLY, 5027 CALIPER, SIDE MOUNT
1.1	3	5027-0002	SADDLE, 5027 CALIPER
1.2	2	5024-0003	SPACER, 5024 CALIPER
1.3	2	5027-0200	SIDE MOUNT FOOT, 5027 CALIPER
1.4	2	5027-0004-L	LEVER ARM, LEFT, 5026 CALIPER
1.5	2	5027-0004-R	LEVER, RIGHT, 5027
1.6	2	5026-0013	PIVOT BLOCK, CENTER, 5026 CALIPER
1.7	4	5026-0014	PIVOT BLOCK, OUTER, 5026 CALIPER
1.8	8	1501-0301	GREASE NIPPLE, 1/4-28
1.9	2	5024-0026	LINK PIN, 5024 - 5026 CALIPERS
1.10	2	5024-0011	BALANCING LINK NO. 1, 5024 CALIPER
1.11	5	5027-0023	TIE ROD, 5026 & 5027 CALIPER
1.12	10	1022-0117	NUT, HEX, 3/4-10 UNC, Gr 18-8
1.13	2	5027-0022	SADDLE PIN, 5027 CALIPER
1.14	3	1039-0470	PIN, HAIRPIN COTTER, 1/4 X 4-1/4, STEEL
1.15	2	5027-0021	SHOE PIN, 5027 CALIPER
1.16	4	1039-0352	HITCH PIN, 5/16 X4, STEEL
2	2	5027-LS	SHOE ASSEMBLY, 5/8" K5, 5027 CALIPER
3	2	6130	AIR APPLIED ACTUATOR, SIZE 30
4	8	1002-1220	SCREW, SKT HD, 3/8-16 UNC X 1-1/4, SS
5	8	1002-1420	SCREW, SKT HD, 1/2-13 UNC X 1-1/4, SS
6	4	6230-0010	CLEVIS PIN, 1/2" DIA
7	8	1026-0516	COTTER PIN, 1/8" X 1", SS
8	2	5024-0012	BALANCE LINK NO. 2, 5024 CALIPER
9	4	1023-0216	FLAT WASHER, 1/4, TYPE B, NARROW
10	4	1002-1010	SCREW, SKT HD, 1/4 UNC X 5/8 LG, 18-8 SS
11	8	1001-1008	SCREW, HEX HD, 1/4-20 UNC X 1/2, SS

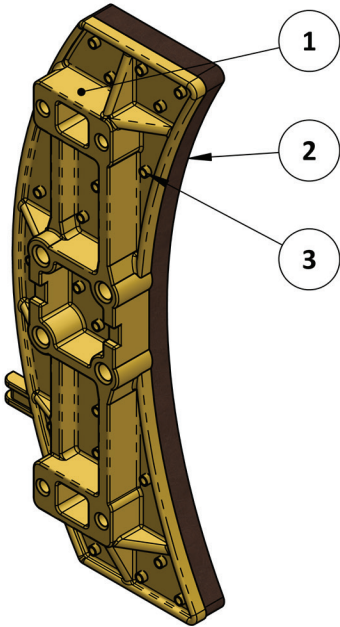
PARTS LISTING

6130 Actuator



ITEM	QTY.	PART NUMBER	6130 DESCRIPTION
1	2	6130-0002	CENTRE HOUSING, 6130 ACTUATOR
2	2	6130-ECA	END CAP ASSEMBLY, 6130 ACTUATOR
3	12	1001-1064	SCREW, HEX HD, 1/4 UNC X 4 LG, GR 18-8
4	12	1022-0110	NUT, HEX, 1/4-20 UNC, SS
5	1	6130-RK	AIR APPLIED ACTUATOR, SIZE 30

5027-LS



ITEM	QTY.	PART NUMBER	5027-LS DESCRIPTION
1	1	5027-0005	SHOE, 5027 CALIPER
2	1	5027-0007	LINING, 5/8" K5, 5027 BRAKE CALIPER
3	29	1033-1007	RIVET, 1/4 X 7/16 (10-7), BRASS

Note: Parts lists are applicable to standard models only.