

WINNARD

MARCH 2024

PAGE 1 OF 3

SOLID BRAKE DISC SPECIAL OFFER

Due to market demand we have developed SOLID versions of a number of brake disc applications. These design upgrades provide a more durable brake which are more resistant to heat crazing and cracking.

BO1002S

Specification

(A) DIAMETER:	430
(B) THICKNESS:	45
(B) MIN THICKNESS:	37
(C) REGISTER:	203
(D) HEIGHT:	131
(E) PCD:	235
(F) STUD HOLES:	10xM16
WEIGHT	40.50 kg



OEM: 0.8213.5830, 0004200172, 0004200272, 0004210312, 050131449, 050131522, 0501315228, 050131695, 0501316953, 0707000036, 082135830, 11015508, 1137179, 1525365, 20234110, 221414, 222475, 234110, 36.50803-0000, 4200172, 42541277, 501314498, 501315228, 501316953, 501316958, 82133300, 82135830, 82850005890, 8285472000, B221412, II310251, II371910061, II376530061, K021958

BP1026S

Specification

(A) DIAMETER:	377
(B) THICKNESS:	45
(B) MIN THICKNESS:	37
(C) REGISTER:	230
(D) HEIGHT:	160
(E) PCD:	275
(F) STUD HOLES:	8x23
EXTRA HOLES	5T for ABS*
WEIGHT	35.50 kg



OEM: 03.088.34.01.0, 03.088.34.01.7, 03.088.34.03.0, 03.088.34.03.7, 03.088.34.15.7, 03.088.34.16.7, 0308834010, 0308834017, 0308834030, 0308834037, 0308834157, 0308834167, 0308834167, 0908834167, 125669203, 42550442 * ABS RINGS AVAILABLE

DA1058S

Specification

(A) DIAMETER:	430
(B) THICKNESS:	45
(B) MIN THICKNESS:	37
(C) REGISTER:	217
(D) HEIGHT:	45
(E) PCD:	233
(F) STUD HOLES:	10x8.5
WEIGHT	33.60 kg



OEM: 1387439, 1640560, 1640561, 1690788, 1726138, 1739542, 1783346, 1812563, 1812582, K034248K50, K034249K50

MD1023S

Specification

(A) DIAMETER:	430
(B) THICKNESS:	45
(B) MIN THICKNESS:	37
(C) REGISTER:	131
(D) HEIGHT:	130
(E) PCD:	168
(F) STUD HOLES:	1 2 x 1 9
WEIGHT	45.40 kg



OEM: 28050090, 81.50803-0023, 81.50803-0038, 81.50803-0040, 81.50803-0046, 81.50803.0023, 81.50803.0038, 81.50803.0040, 81.50803.0046, 81.50803.3023, 81508030023, 81508030038, 81508030040, 81508030046, 81508033023, N508030038, N508030040

MD1025S

Specification

(A) DIAMETER:	432
(B) THICKNESS:	45
(B) MIN THICKNESS:	37
(C) REGISTER:	208
(D) HEIGHT:	135
(E) PCD:	235
(F) STUD HOLES:	10xM16
WEIGHT	46.7 kg



OEM: 81.50803.0021, 81.50803.0041, 81.50803.0047, 81.50803.3041, 81508030021, 81508030041, 81508030047, 81508033041

MNE1065S

Specification

(A) DIAMETER:	430
(B) THICKNESS:	45
(B) MIN THICKNESS:	37
(C) REGISTER:	211
(D) HEIGHT:	132.5
(E) PCD:	238
(F) STUD HOLES:	10xM14
WEIGHT	40.4 kg



OEM: 1137415, 1149978, 30138351, A6954230512, A9424210312, A9424210912, A9424211012, A9424211112, A9424211212, A9424212112, A9424212512, A9424212612, A9424230012, A9424230112, CF104132, CF104493, II49978, K075758

WINNARD

MARCH 2024

PAGE 2 OF 3

MNE1120S

Specification

(A) DIAMETER:	430
(B) THICKNESS:	45
(B) MIN THICKNESS:	37
(C) REGISTER:	131
(D) HEIGHT:	131
(E) PCD:	168
(F) STUD HOLES:	10x21
WEIGHT	40.2 kg



OEM: - SOLID VERSION, 0004213512, 960 421 0312, 960 421 0412, 9604210312, 9604210412, A9604210312, A9604210412, JAE0111000412, K119842

RN1041S

Specification

(A) DIAMETER:	434
(B) THICKNESS:	45
(B) MIN THICKNESS:	37
(C) REGISTER:	131
(D) HEIGHT:	97
(E) PCD:	165
(F) STUD HOLES:	10x17
WEIGHT	42 kg



OEM: 35010422593, 500055596, 5001672150, 5006172150, 5010216437, 5010422363, 5010422593, 5010423363, 5010423393, 68323662, 7482194787, 82196750, Z001637

SAU1018S

Specification

(A) DIAMETER:	430
(B) THICKNESS:	45
(B) MIN THICKNESS:	37
(C) REGISTER:	131
(D) HEIGHT:	130
(E) PCD:	168
(F) STUD HOLES:	12x19
WEIGHT	33.0 kg



OEM: 015733, 017347, 04.079.0005.00, 04.079.0005.01, 04.079.0005.02, 04.079.0006.00, 04079000500, 04079000501, 04079000502, 04079000600, 1009863, 4079000500, 4079000501

SAU1031S

Specification

(A) DIAMETER:	430
(B) THICKNESS:	45
(B) MIN THICKNESS:	37
(C) REGISTER:	164
(D) HEIGHT:	48
(E) PCD:	190
(F) STUD HOLES:	10x13.5
WEIGHT	35.3 kg



OEM: - SOLID VERSION, 04.079.0013.00, 04.079.0013.01, 04.079.0013.02, 04.079.0013.03, 04.079.0013.53, 04079001300, 04079001301, 04079001302, 04079001303, 2004079001300, 2004079001301, 2004079001302, 2004079001303, 204079001303

SC1023S

Specification

(A) DIAMETER:	430
(B) THICKNESS:	45
(B) MIN THICKNESS:	37
(C) REGISTER:	208
(D) HEIGHT:	131
(E) PCD:	237
(F) STUD HOLES:	10xM16
WEIGHT	38.0 kg



OEM: 1367735, 1386686, 1402272, 1852817

ABS RING DESIGN UPGRADES DE1053+2 & RO1028+2

WINNARD

BRAKE DISC DESIGN UPDATE

NEW BOLT ON MILLED STEEL ABS RING

We are always looking at ways to improve the performance and operation longevity of our products and we are pleased to announce an upgraded option for a limited number of Winnard references.

We know from market experience that, despite rust preventative coatings, cast ABS teeth located on the base of the Brake Disc can suffer from decay causing ABS sensor faults. This usually results in premature replacement of the Brake Disc. Therefore, Winnard is re-designing this old technology and upgrading the design to include a milled steel ABS ring.

This design upgrade will reduce the level of decay to the ABS ring, removing the need to replace the disc due ABS corrosion. We will also be offering the ABS Ring separately should any damage occur during distribution or operation.

The part numbers available with this upgrade are:

DE1053+2

OEM X REF:
102983, 1132919F, 11363013, 1136279F, 657304-22, 657304-22, 657304-22, 657304-22, 657304-22, 657304-22

Vehicle Applications:
Alexander Dennis PSV Panther 2001 → Current
Alexander Dennis PSV Trident 2 2001 → Current
Alexander Dennis PSV Trident 2 2001 → Current
Dennis Elite 2 2001 → Current
Dennis Phoenix 2 2001 → Current
Preston Passenger & Panther 2001 → Current
Van Hool PSV T 9 2001 → Current

RO1028+2

OEM X REF:
68323625, 120015200086, 5021170653, 6832362504

Vehicle Applications:
Daimler Chassis Atego City Bus 1999 → Current
Meritor - D Euro - DMX axle code 2000 → Current
Meritor - D Euro 2 2000 → Current
Meritor - D LE Euro 2000 → Current
Meritor - D Euro 2000 → Current
Meritor - Euro 2 - EMX axle code 2000 → Current
Meritor - EX225 2000 → Current

Manufacturers part numbers and names are used for reference purposes only and does not imply that their parts will be supplied.
Thos. Winnard & Sons Ltd Mangham Road, Rotherham, South Yorkshire, England S62 6EF T: +44 (0)1709 712000 www.winnard.co.uk

Login to the Winnard web site for further information: www.winnard.co.uk



WINNARD

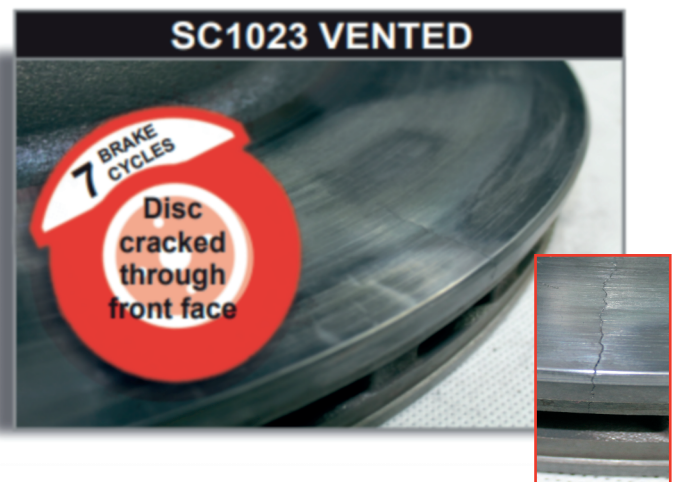
MARCH 2024

PAGE 3 OF 3

HAVING PROBLEMS WITH CRACKING BRAKE DISCS?

WINNARD COULD HAVE THE SOLUTION

Extensive ECE R90 testing has proven that a solid version of a previously vented design can reduce and even prevent the premature replacement of a brake disc due to heat crazing and cracking with no operational disadvantages.



WHAT IS A BRAKING CYCLE ?

Each cycle consists of the following procedures, it is designed to test the disc to destruction.



"Bedding-in" procedure

1. Conditioned braking
2. High-speed braking
3. Conditioned braking
4. High-speed braking
5. Conditioned braking
6. Continuous braking (1)
7. Conditioned braking
8. Continuous braking (2)
9. Repeat test stages 1 to 8:

100 Brake applications

10 Brake applications from 60 to 30 km/h

2 Brake applications from 130 to 80 km/h

See test stage 1. Conditioned braking

See test stage 2. High speed braking

See test stage 1. Conditioned braking

5 Brake applications at a constant speed of: 85 km/h

See test stage 1. Conditioned braking

5 Brake applications at a constant speed of: 85 km/h

9 or 14 times (whichever is applicable)

WINNARD SC1023 SOLID vs SC1023 VENTED PERFORMANCE SUMMARY

1. Same Dynamic Friction Performance
2. Similar operating temperatures
3. Increased brake pad life
4. Improved resistance to thermal cracking
5. Lasts up to 4 times longer
6. Reduces operational costs

