

# 51103 NSK race type: Flat

## 17x30x9mm Thrust ball

### bearings

Bearing number	51103
Size (mm)	17x30x9
Brand	NSK
Bore diameter (mm)	17
Outer diameter (mm)	30
Width (mm)	9
d	17 mm
D	30 mm
T	9 mm
d1	30 mm
r min.	0.3 mm
D1	18 mm
da min.	25 mm
Da max.	22 mm
ra max.	0.3 mm
Weight	0.025 Kg
Basic dynamic load rating (C)	11.4 kN
Basic static load rating (C0)	19.5 kN
(Grease) Lubrication Speed	6800 r/min
Category	Thrust Ball Bearing
BDI Inventory	0.0
Manufacturer Name	NSK
Minimum Buy Quantity	N/A
Weight / Kilogram	0.02
EAN	0029176026386
Product Group - BDI	800308
Rolling Element	Ball Bearing
Thrust Bearing	Yes
Single or Double Direction	Single Direction
Banded	No
Cage Material	Steel
Precision Class	Non-Precision
Component Description	Roller Assembly Plus Raceways
Other Features	Single Row   With Flat Seat
Long Description	17MM Bore   18MM Bore 2   30MM Outside Diameter   9MM Height   Ball Bearing   Single Direction   Not Banded   Steel Cage   Non-Precision
Inch - Metric	Metric
Category - BDI	Thrust Ball Bearings
UNSPSC	31171552
Harmonized Tariff Code	9402.10.50.00
Non - Keyword String	Bearing Ball Thrust
Manufacturer URL	<a href="http://www.nskamericas.com">http://www.nskamericas.com</a>
Manufacturer Item Number	51103
Weight / LBS	0.05512
Bore 1	0.669 Inch   17 Millimeter
Height	0.354 Inch   9 Millimeter
Outside Diameter	1.181 Inch   30 Millimeter
Bore 2	0.709 Inch   18 Millimeter
Overall Height with Aligning Washer	0 Inch   0 Millimeter
bore diameter:	17 mm
static load capacity:	4400 lbf
outside diameter:	30 mm
dynamic load capacity:	9400 lbf
overall width:	9 mm
operating temperature range:	Maximum of +120 °C
thrust bearing type:	Single-Direction
maximum rpm:	9800 rpm
outside diameter design:	Straight
cage material:	Steel Cage
separable or banded:	Separable
fillet radius:	.3 mm
race type:	Flat
series:	51100
precision rating:	ABEC1, P0
SRI	2.6
hidVobS	51103
LangID	1
D	30
SPEX	0.03
C	11.4
B	9
Cap	<a href="http://service.web2cad.co.jp/pcom/7Maker-NSK_R&amp;Info=nsk_rb/roller_bearings/thrust_bearings/single_direction_tbb/with_flat_seat_asmtab.prj?varset={ORDER=31103}_{SD=17}_{D=30}_{T=9}_{SH=0.3}_{CAN=1400}_{COA=19500}_{CA=1170}_{COA=1990}_{GRE=6800}_{DIL=9800}_{S01=30}_{D1=18}_{S0A=25}_{DA=23}_{SRA=0.3}_{PMSS=0.025}">http://service.web2cad.co.jp/pcom/7Maker-NSK_R&amp;Info=nsk_rb/roller_bearings/thrust_bearings/single_direction_tbb/with_flat_seat_asmtab.prj?varset={ORDER=31103}_{SD=17}_{D=30}_{T=9}_{SH=0.3}_{CAN=1400}_{COA=19500}_{CA=1170}_{COA=1990}_{GRE=6800}_{DIL=9800}_{S01=30}_{D1=18}_{S0A=25}_{DA=23}_{SRA=0.3}_{PMSS=0.025}</a>
NSKtable	ccat_905076
Dil rpm	9800
SRE	2.6
mass	0.025
GMS rpm	6800
ra	0.3
SRIx	0.03
D_a	22
SRIW	0
CD	19.5
SRIW	0
D_1	18
Prod_Type3	TB_SD_WFS
da	25
DA_	4.762

Z	14
yoSi	51103
SDM	23.5
r	0.3
T	9
MSB	211
calcURL	/bearingGuide/html/calculation.jsp