



# CONVEYOR COMPONENTS COMPANY

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## MODEL HS HELICALLY SHAPED ROTARY BRUSH

### **CAUTION:**

Before installing or adjusting, shut down and physically lockout the conveyor system.

When replacing brush strips, do not over-tighten BR-22 clip assemblies on the bristle strips. Recommended torque setting range is 5 ft-lbs minimum, 10 ft-lbs maximum.

As an added safety measure, before installation, please verify that all bristle clip assemblies are properly tightened and have not come loose in transit.

### Features:

- \* Helical shape insures smooth brush/belt contact. Noisy and irritating beating action is eliminated.
- \* Even the tackiest materials will not load due to the open face construction.
- \* Brush replacement costs are the lowest in the industry since only the brush strips need to be replaced.
- \* Two set screws in each hub securely lock the brush to the shaft, eliminating the need for keyways.

### Hubs:

The number of hubs furnished is determined by the width of the brush ordered, since they are spaced equally on a shaft not more than 8" apart. Example: a 24" brush has four hubs.

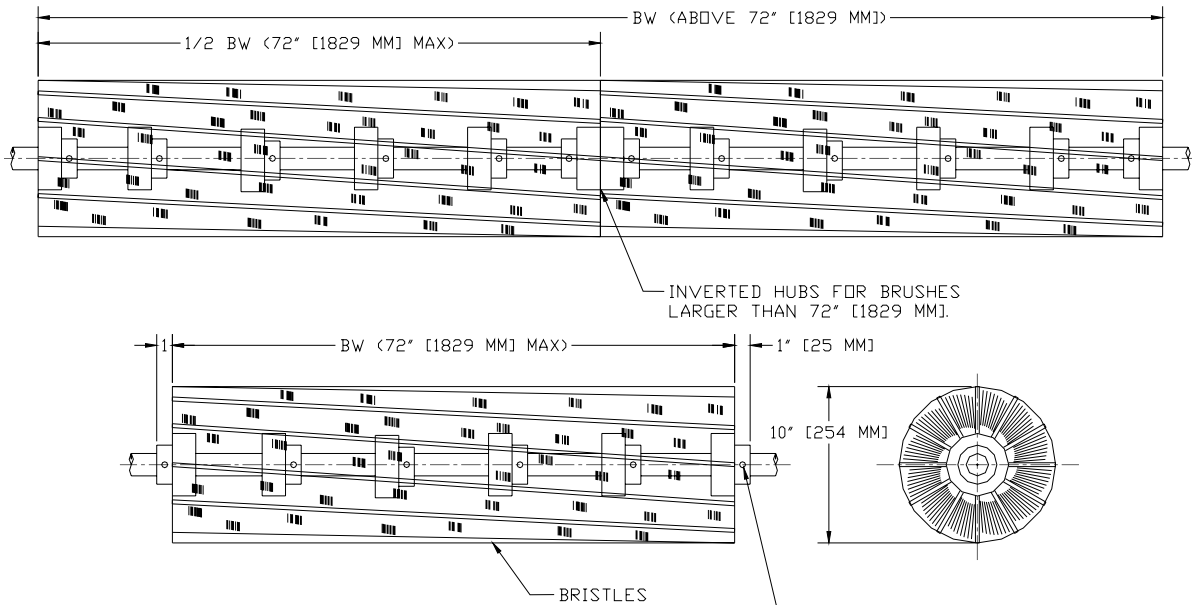
The hubs are powder coated gray iron with a 4" OD. Standard bore sizes available are 1-7/16" and 1-15/16", with other sizes available by special order. Each hub is fastened to the shaft by two 5/32" socket-head cup-point set screws.

### Brush Strips:

For standard brushes, twelve brush strips with a 3" overall bristle length are furnished. The strips are easily and quickly attached to the hubs with wedge blocks forming a brush with an OD of 10". The strips are pre-helixed at 30° per foot. The helix automatically determines the position of the hub on the shaft. When the bristles have worn, only the brush strips are replaced, as the hubs are reusable. A 1/4" hex (Allen) wrench is required to replace the brush strips.

Standard bristle material is nylon with polypropylene and oil tempered wire bristles also available. Nylon is recommended since it has better over-all wear characteristics than polypropylene. The nylon and polypropylene bristles are available from stock in 0.014", 0.028", and 0.040" diameters. Oil tempered wire is available from stock in 0.010" diameter. Other bristle sizes, trim lengths, and types are available on special order. If on-belt temperatures exceed 200° F, the oil tempered wire bristle is recommended.

Figure 1: Model HS brush dimensions



HUB ASSEMBLIES INCLUDING SET SCREWS.  
 # BR-2A: 1 7/16 HUB ASSEMBLY.  
 # BR-2B: 1 15/16 HUB ASSEMBLY.

*BELT WIDTH UP TO AND INCLUDING; 'BW'	HUB QTY	HUB BORE SIZE
6 [152 MM]	2	1 7/16 [36 MM]
8 [203 MM]	2	1 7/16 [36 MM]
12 [305 MM]	3	1 7/16 [36 MM]
16 [406 MM]	3	1 7/16 [36 MM]
18 [457 MM]	3	1 7/16 [36 MM]
20 [508 MM]	4	1 7/16 [36 MM]
24 [610 MM]	4	1 7/16 [36 MM]
30 [762 MM]	5	1 7/16 [36 MM]
36 [914 MM]	6	1 7/16 [36 MM]
42 [1067 MM]	6	1 7/16 [36 MM]
48 [1219 MM]	7	1 15/16 [49 MM]
54 [1372 MM]	8	1 15/16 [49 MM]
60 [1524 MM]	9	1 15/16 [49 MM]
72 [1829 MM]	10	1 15/16 [49 MM]
**84 [2134 MM]	12	1 15/16 [49 MM]
96 [2438 MM]	14	1 15/16 [49 MM]
108 [2743 MM]	16	1 15/16 [49 MM]

NOTES:  
 BRISTLES ARE AVAILABLE IN  
 NYLON: 0.014", 0.028", & 0.040" DIA.  
 POLYPROPYLENE: 0.014", 0.028", & 0.040" DIA.  
 OIL TEMPERED WIRE: 0.010" DIA.  
 12 BRISTLE STRIPS REQD PER BRUSH / SET.  
 \*ROUND UP FOR IN-BETWEEN SIZES.  
 I.E: A 25" [635 MM] BRUSH = 5 HUBS.  
 \*\*UNITS ABOVE 72" [1829 MM] ARE MADE WITH 2 SMALLER BRUSHES AND INVERTED HUBS.  
 BW/2=BRUSH USED TWICE.  
 I.E: AN 84" [2134 MM] BRUSH IS MADE OF TWO 42" [1067 MM] BRUSHES WITH HUBS FOR A 1 15/16" [49 MM] DIA. SHAFT (12 HUBS TOTAL).