

# **Production Enhancement Systems**



## **BEADLEJUICE**

### **Technical Sales Manual for Centralizer Product Lines**

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# Centralizer Product Lines

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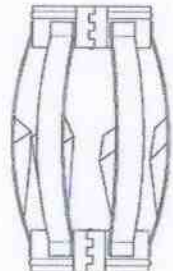
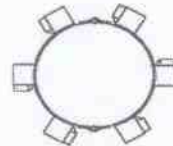
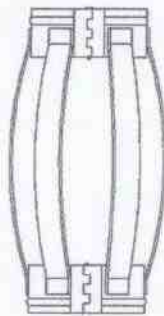
**PES**

## Beadlejuice Standard Bow Centralizers

PES manufactures a wide line of Bow Spring Centralizers as follows:

### BJ 100 Series & BJ 150 Series (Turbo-Fin)

•The **BJ 100** product line includes various configurations of welded bow spring centralizers which are of welded construction. The BJ 100 design utilizes a single curve profile to achieve good restoring force while maintaining low starting and running forces.



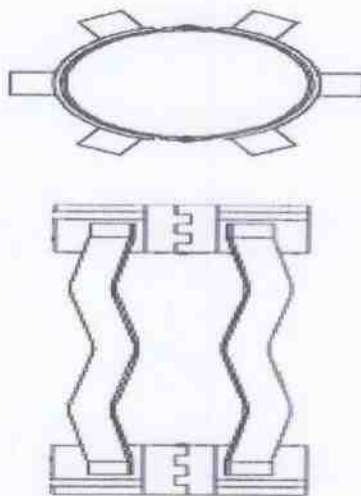
#### SIZES

2-7/8"  
3-1/2"  
4-1/2"  
5"  
5-1/2"  
7"  
7-5/8"  
8-5/8"  
9-5/8"  
10-3/4"  
13-3/8"  
16"  
18-5/8"  
20"  
24"  
26"  
30"

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## Beadlejuice Dual Contact Bow Centralizers

- \* Dual Contact Centralizers have minimal to zero starting and restoring forces.
- \* Dual Contact are made to exact specs due to the almost ridig restoring forces.



### SIZES

4-1/2"

5"

5-1/2"

7"

7-5/8"

8-5/8"

9-5/8"

10-3/4"

13-3/8"

16"

18-5/8"

20"

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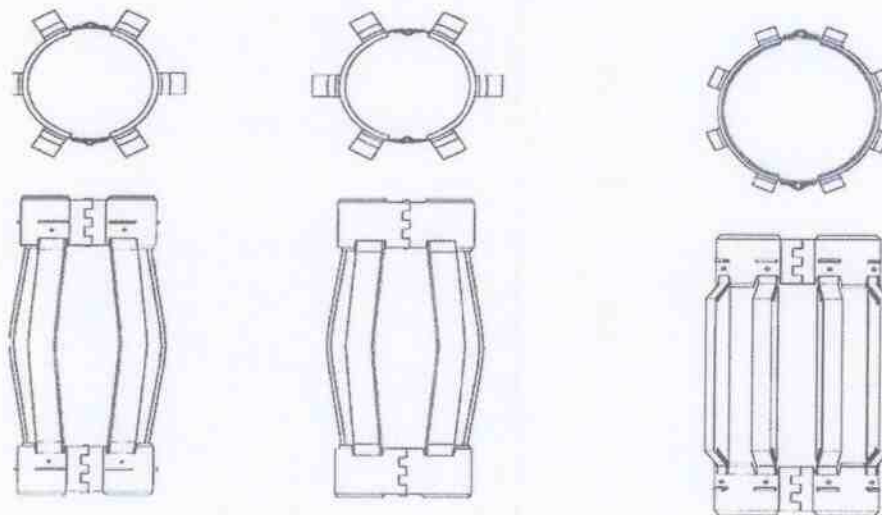
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## PRODUCTION ENHANCEMENT SYSTEMS

### Beadlejuice Non Weld Bow Centralizer

•The **NON-WELD Bow** product line includes various configurations of non-weld bow spring and positive centralizers. Non-weld refers to the attachment of the bows to the collars.

#### Non - Weld Bow Centralizer



#### Assembly/Installation Instructions:

Non-weld centralizers are shipped in halves.

Centralizers designed and tested for hole size combination specified.

#### SIZES

4-1/2"  
5"  
5-1/2"  
7"  
7-5/8"  
8-5/8"  
9-5/8"  
10-3/4"  
13-3/8"  
16"  
18-5/8"  
20"

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## PRODUCTION ENHANCEMENT SYSTEMS



Beadlejuice  
Spiral Vane  
Turbulators

Standard Length is 4-1/2"

PES Part Number	Casing Size	Sleeve I.D.	Sleeve O.D.	# of Vanes	# OF Set Screws	Screws In	Standard Vane Sizes	
							Min Od	Max OD
100.1000	2-7/8"	3.0"	3-3/8"	4	16	Sleeve	3-5/8"	7-5/8"
100.1100	3-1/2"	3-5/8"	3-7/8"	4	16	Vanes	4-1/4"	4-1/2"
100.1200	3-1/2"	3-5/8"	4"	4	16	Sleeve	4-5/8"	9-1/2"
100.1300	4"	4-1/6"	4-1/4"	4	16	Vanes	4-1/2"	4-7/8"
100.1400	4-1/2"	4-5/8"	4-7/8"	4	16	Vanes	5-1/4"	5-5/8"
100.1500	4-1/2"	4-5/8"	5"	4	16	Sleeve	5-3/4"	9-1/2"
100.1600	5"	5-1/8"	5-3/8"	4	16	Vanes	5-5/8"	5-7/8"
100.1700	5"	5-1/8"	5-1/2"	4	16	Sleeve	6"	9-1/2"
100.1800	5-1/2"	5-5/8"	5-7/8"	4	16	Vanes	6-1/8"	6-3/8"
100.1900	5-1/2"	5-5/8"	6"	4	16	Sleeve	6-1/2"	9-1/2"
100.2000	6-5/8"	6-3/4"	7"	6	18	Vanes	7-1/4"	7-5/8"
100.2100	7"	7-1/8"	7-1/2"	6	18	Sleeve	8"	12"
100.2200	7-5/8"	7-3/4"	8"	6	18	Vanes	8-1/4"	8-5/8"
100.2300	7-5/8"	7-3/4"	8-1/4"	6	18	Sleeve	8-7/8"	12"
100.2400	7-3/4"	7-7/8"	8"	6	18	Vanes	8-1/4"	8-5/8"
100.2500	7-3/4"	8"	8-1/2"	6	18	Sleeve	9-1/4"	12"
100.2600	8-5/8"	8-3/4"	9-1/4"	6	18	Sleeve	9-7/8"	12"
100.2700	9-5/8"	9-3/4"	10"	8	24	Vanes	10-1/4"	10-7/8"
100.2800	9-5/8"	9-3/4"	10"	8	24	Sleeve	11"	14-1/4"
100.2900	10-3/4"	11"	11-1/2"	8	24	Sleeve	12-1/4"	21"
100.3000	11-3/4"	12"	12-1/2"	8	24	Sleeve	13-1/4"	21"
100.3100	13-3/8"	13-5/8"	13-7/8"	8	24	Vanes	14-1/4"	14-5/8"
100.3200	13-3/8"	13-5/8"	14"	8	24	Sleeve	14-3/4"	24"
100.3300	16"	16-1/4"	16-5/8"	12	36	Vanes	17-1/2"	25-1/2"
100.3400	20"	20-1/4"	20-5/8"	16	48	Sleeve	21-1/2"	30"
100.3500	24"	24-1/4"	24-5/8"	18	54	Sleeve	25-12"	36"

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# PRODUCTION ENHANCEMENT SYSTEMS



## Beadlejuice Multi-Directional Turbulators

Standard Length is 4-1/2"  
With or Without Set Screws

PES Part Number	Casing Size	Sleeve I.D.	Sleeve O.D.	# of Vanes	# OF Set Screws	Screws In	Standard Vane Sizes	
							Min Od	Max OD
105.1000	2-7/8"	3.0"	3-3/8"	4	16	Sleeve	3-5/8"	7-5/8"
105.1100	3-1/2"	3-5/8"	3-7/8"	4	16	Vanes	4-1/4"	4-1/2"
105.1200	3-1/2"	3-5/8"	4"	4	16	Sleeve	4-5/8"	9-1/2"
105.1300	4"	4-1/8"	4-1/4"	4	16	Vanes	4-1/2"	4-7/8"
105.1400	4-1/2"	4-5/8"	4-7/8"	4	16	Vanes	5-1/4"	5-5/8"
105.1500	4-1/2"	4-5/8"	5"	4	16	Sleeve	5-3/4"	9-1/2"
105.1600	5"	5-1/8"	5-3/8"	4	16	Vanes	5-5/8"	5-7/8"
105.1700	5"	5-1/8"	5-1/2"	4	16	Sleeve	6"	9-1/2"
105.1800	5-1/2"	5-5/8"	5-7/8"	4	16	Vanes	6-1/8"	6-3/8"
105.1900	5-1/2"	5-5/8"	6"	4	16	Sleeve	6-1/2"	9-1/2"
105.2000	6-5/8"	6-3/4"	7"	6	18	Vanes	7-1/4"	7-5/8"
105.2100	7"	7-1/8"	7-1/2"	6	18	Sleeve	8"	12"
105.2200	7-5/8"	7-3/4"	8"	6	18	Vanes	8-1/4"	8-5/8"
105.2300	7-5/8"	7-3/4"	8-1/4"	6	18	Sleeve	8-7/8"	12"
105.2400	7-3/4"	7-7/8"	8"	6	18	Vanes	8-1/4"	8-5/8"
105.2500	7-3/4"	8"	8-1/2"	6	18	Sleeve	9-1/4"	12"
105.2600	8-5/8"	8-3/4"	9-1/4"	6	18	Sleeve	9-7/8"	12"
105.2700	9-5/8"	9-3/4"	10"	8	24	Vanes	10-1/4"	10-7/8"
105.2800	9-5/8"	9-3/4"	10"	8	24	Sleeve	11"	14-1/4"
105.2900	10-3/4"	11"	11-1/2"	8	24	Sleeve	12-1/4"	21"
105.3000	11-3/4"	12"	12-1/2"	8	24	Sleeve	13-1/4"	21"
105.3100	13-3/8"	13-5/8"	13-7/8"	8	24	Vanes	14-1/4"	14-5/8"
105.3200	13-3/8"	13-5/8"	14"	8	24	Sleeve	14-3/4"	24"
105.3300	16"	16-1/4"	16-5/8"	12	36	Vanes	17-1/2"	25-1/2"
105.3400	20"	20-1/4"	20-5/8"	16	48	Sleeve	21-1/2"	30"
105.3500	24"	24-1/4"	24-5/8"	18	54	Sleeve	25-1/2"	36"

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# PRODUCTION ENHANCEMENT SYSTEMS



Beadlejuice  
Spiral Vane  
Rotating Centralizer

Standard Length is 8"

PES Part Number	Casing Size	Sleeve I.D.	Sleeve O.D.	# of Vanes	# OF Set Screws	Screws In	Standard Vane Sizes	
							Min Od	Max OD
110.1000	2-7/8"	3.0"	3-3/8"	4	16	Sleeve	3-5/8"	7-5/8"
110.1100	3-1/2"	3-5/8"	3-7/8"	4	16	Vanes	4-1/4"	4-1/2"
110.1200	3-1/2"	3-5/8"	4"	4	16	Sleeve	4-5/8"	9-1/2"
110.1300	4"	4-1/6"	4-1/4"	4	16	Vanes	4-1/2"	4-7/8"
110.1400	4-1/2"	4-5/8"	4-7/8"	4	16	Vanes	5-1/4"	5-5/8"
110.1500	4-1/2"	4-5/8"	5"	4	16	Sleeve	5-3/4"	9-1/2"
110.1600	5"	5-1/8"	5-3/8"	4	16	Vanes	5-5/8"	5-7/8"
110.1700	5"	5-1/8"	5-1/2"	4	16	Sleeve	6"	9-1/2"
110.1800	5-1/2"	5-5/8"	5-7/8"	4	16	Vanes	6-1/8"	6-3/8"
110.1900	5-1/2"	5-5/8"	6"	4	16	Sleeve	6-1/2"	9-1/2"
110.2000	6-5/8"	6-3/4"	7"	6	18	Vanes	7-1/4"	7-5/8"
110.2100	7"	7-1/8"	7-1/2"	6	18	Sleeve	8"	12"
110.2200	7-5/8"	7-3/4"	8"	6	18	Vanes	8-1/4"	8-5/8"
110.2300	7-5/8"	7-3/4"	8-1/4"	6	18	Sleeve	8-7/8"	12"
110.2400	7-3/4"	7-7/8"	8"	6	18	Vanes	8-1/4"	8-5/8"
110.2500	7-3/4"	8"	8-1/2"	6	18	Sleeve	9-1/4"	12"
110.2600	8-5/8"	8-3/4"	9-1/4"	6	18	Sleeve	9-7/8"	12"
110.2700	9-5/8"	9-3/4"	10"	8	24	Vanes	10-1/4"	10-7/8"
110.2800	9-5/8"	9-3/4"	10"	8	24	Sleeve	11"	14-1/4"
110.2900	10-3/4"	11"	11-1/2"	8	24	Sleeve	12-1/4"	21"
110.3000	11-3/4"	12"	12-1/2"	8	24	Sleeve	13-1/4"	21"
110.3100	13-3/8"	13-5/8"	13-7/8"	8	24	Vanes	14-1/4"	14-5/8"
110.3200	13-3/8"	13-5/8"	14"	8	24	Sleeve	14-3/4"	24"
110.3300	16"	16-1/4"	16-5/8"	12	36	Vanes	17-1/2"	25-1/2"
110.3400	20"	20-1/4"	20-5/8"	16	48	Sleeve	21-1/2"	30"
110.3500	24"	24-1/4"	24-5/8"	18	54	Sleeve	25-12"	36"

**PES**



# PRODUCTION ENHANCEMENT SYSTEMS



Beadlejuice  
Straight Vane  
Centralizer

Standard Length is 8"

PES Part Number	Casing Size	Sleeve I.D.	Sleeve O.D.	# of Vanes	# OF Set Screws	Screws In	Standard Vane Sizes	
							Min Od	Max OD
120.1000	2-7/8"	3.0"	3-3/8"	4	16	Sleeve	3-5/8"	7-5/8"
120.1100	3-1/2"	3-5/8"	3-7/8"	4	16	Vanes	4-1/4"	4-1/2"
120.1200	3-1/2"	3-5/8"	4"	4	16	Sleeve	4-5/8"	9-1/2"
120.1300	4"	4-1/6"	4-1/4"	4	16	Vanes	4-1/2"	4-7/8"
120.1400	4-1/2"	4-5/8"	4-7/8"	4	16	Vanes	5-1/4"	5-5/8"
120.1500	4-1/2"	4-5/8"	5"	4	16	Sleeve	5-3/4"	9-1/2"
120.1600	5"	5-1/8"	5-3/8"	4	16	Vanes	5-5/8"	5-7/8"
120.1700	5"	5-1/8"	5-1/2"	4	16	Sleeve	6"	9-1/2"
120.1800	5-1/2"	5-5/8"	5-7/8"	4	16	Vanes	6-1/8"	6-3/8"
120.1900	5-1/2"	5-5/8"	6"	4	16	Sleeve	6-1/2"	9-1/2"
120.2000	6-5/8"	6-3/4"	7"	6	18	Vanes	7-1/4"	7-5/8"
120.2100	7"	7-1/8"	7-1/2"	6	18	Sleeve	8"	12"
120.2200	7-5/8"	7-3/4"	8"	6	18	Vanes	8-1/4"	8-5/8"
120.2300	7-5/8"	7-3/4"	8-1/4"	6	18	Sleeve	8-7/8"	12"
120.2400	7-3/4"	7-7/8"	8"	6	18	Vanes	8-1/4"	8-5/8"
120.2500	7-3/4"	8"	8-1/2"	6	18	Sleeve	9-1/4"	12"
120.2600	8-5/8"	8-3/4"	9-1/4"	6	18	Sleeve	9-7/8"	12"
120.2700	9-5/8"	9-3/4"	10"	8	24	Vanes	10-1/4"	10-7/8"
120.2800	9-5/8"	9-3/4"	10"	8	24	Sleeve	11"	14-1/4"
120.2900	10-3/4"	11"	11-1/2"	8	24	Sleeve	12-1/4"	21"
120.3000	11-3/4"	12"	12-1/2"	8	24	Sleeve	13-1/4"	21"
120.3100	13-3/8"	13-5/8"	13-7/8"	8	24	Vanes	14-1/4"	14-5/8"
120.3200	13-3/8"	13-5/8"	14"	8	24	Sleeve	14-3/4"	24"
120.3300	16"	16-1/4"	16-5/8"	12	36	Vanes	17-1/2"	25-1/2"
120.3400	20"	20-1/4"	20-5/8"	16	48	Sleeve	21-1/2"	30"
120.3500	24"	24-1/4"	24-5/8"	18	54	Sleeve	25-12"	36"

**PES**

# PRODUCTION ENHANCEMENT SYSTEMS



Beadlejuice  
Straight/Spiral Vane  
Centralizer

Standard Length is 8"

PES Part Number	Casing Size	Sleeve I.D.	Sleeve O.D.	# of Vanes	# OF Set Screws	Screws In	Standard Vane Sizes	
							Min Od	Max OD
130.1000	2-7/8"	3	3-3/8"	4	16	Sleeve	3-3/4"	7-1/2"
130.1100	3-1/2"	3-5/8"	3-7/8"	4	16	Vanes	4-1/4"	4-1/2"
130.1200	3-1/2"	3-5/8"	4"	4	16	Sleeve	4-5/8"	8-1/4"
130.1300	4"	4-1/6"	4-1/4"	4	16	Vanes	4-1/2"	4-7/8"
130.1400	4-1/2"	4-5/8"	4-7/8"	4	16	Vanes	5-3/8"	5-1/2"
130.1500	4-1/2"	4-5/8"	5"	4	16	Sleeve	5-1/2"	9-1/2"
130.1600	5"	5-1/8"	5-3/8"	4	16	Vanes	5-5/8"	6"
130.1700	5"	5-1/8"	5-1/2"	4	16	Sleeve	6-1/8"	9-1/4"
130.1800	5-1/2"	5-5/8"	5-7/8"	4	16	Vanes	6-1/4"	6-1/2"
130.1900	5-1/2"	5-5/8"	6"	4	16	Sleeve	6-1/2"	9-1/2"
130.2000	6-5/8"	6-3/4"	7"	6	18	Vanes	7-1/4"	7-5/8"
130.2100	7"	7-1/8"	7-1/2"	6	18	Sleeve	8"	12"
130.2200	7-5/8"	7-3/4"	8"	6	18	Vanes	8-1/4"	8-5/8"
130.2300	7-5/8"	7-3/4"	8-1/4"	6	18	Sleeve	9-1/4"	12"
130.2400	7-3/4"	7-7/8"	8"	6	18	Vanes	8-1/4"	8-5/8"
130.2500	7-3/4"	8"	8-1/2"	6	18	Sleeve	9-1/2"	12"
130.2600	8-5/8"	8-3/4"	9-1/4"	6	18	Sleeve	10"	12"
130.2700	9-5/8"	9.7	10"	8	24	Vanes	10-1/4"	10-1/2"
130.2800	9-5/8"	9-3/4"	10-1/4"	8	24	Sleeve	11"	14-1/2"
130.2900	10-3/4"	11"	11-1/2"	8	24	Sleeve	12"	14-1/2"
130.3000	11-3/4"	12"	12-1/2"	8	24	Sleeve	13-1/4"	14-1/2"
130.3100	13-3/8"	13-5/8"	13-7/8"	8	24	Vanes	14-1/4"	14-5/8"
130.3200	13-3/8"	13-5/8"	14"	8	24	Sleeve	14-3/4"	17-1/2"
130.3300	16"	16-1/4"	16-5/8"	12	36	Vanes	17-1/2"	21"
130.3400	20"	20-1/4"	20-5/8"	16	48	Sleeve	21-1/2"	27"
130.3500	24"	24-1/4"	24-5/8"	18	54	Sleeve	25-12"	29"

**PES**

## PRODUCTION ENHANCEMENT SYSTEMS



Beadlejuice  
Interlocking  
Centralizer

Standard Length is 4-1/2"

PES Part Number	Casing Size	Sleeve I.D.	Sleeve O.D.	# of Vanes	# OF Set Screws	Screws In	Standard Vane Sizes	
							Min Od	Max OD
140.1000	2-7/8"	3	3-3/8"	4	16	Sleeve	3-3/4"	7-1/2"
140.1100	3-1/2"	3-5/8"	3-7/8"	4	16	Vanes	4-1/4"	4-1/2"
140.1200	3-1/2"	3-5/8"	4"	4	16	Sleeve	4-5/8"	8-1/4"
140.1300	4"	4-1/6"	4-1/4"	4	16	Vanes	4-1/2"	4-7/8"
140.1400	4-1/2"	4-5/8"	4-7/8"	4	16	Vanes	5-3/8"	5-1/2"
140.1500	4-1/2"	4-5/8"	5"	4	16	Sleeve	5-1/2"	9-1/2"
140.1600	5"	5-1/8"	5-3/8"	4	16	Vanes	5-5/8"	6"
140.1700	5"	5-1/8"	5-1/2"	4	16	Sleeve	6-1/8"	9-1/4"
140.1800	5-1/2"	5-5/8"	5-7/8"	4	16	Vanes	6-1/4"	6-1/2"
140.1900	5-1/2"	5-5/8"	6"	4	16	Sleeve	6-1/2"	9-1/2"
140.2000	6-5/8"	6-3/4"	7"	6	18	Vanes	7-1/4"	7-5/8"
140.2100	7"	7-1/8"	7-1/2"	6	18	Sleeve	8"	12"
140.2200	7-5/8"	7-3/4"	8"	6	18	Vanes	8-1/4"	8-5/8"
140.2300	7-5/8"	7-3/4"	8-1/4"	6	18	Sleeve	9-1/4"	12"
140.2400	7-3/4"	7-7/8"	8"	6	18	Vanes	8-1/4"	8-5/8"
140.2500	7-3/4"	8"	8-1/2"	6	18	Sleeve	9-1/2"	12"
140.2600	8-5/8"	8-3/4"	9-1/4"	6	18	Sleeve	10"	12"
140.2700	9-5/8"	9.7	10"	8	24	Vanes	10-1/4"	10-1/2"
140.2800	9-5/8"	9-3/4"	10-1/4"	8	24	Sleeve	11"	14-1/2"
140.2900	10-3/4"	11"	11-1/2"	8	24	Sleeve	12"	14-1/2"
140.3000	11-3/4"	12"	12-1/2"	8	24	Sleeve	13-1/4"	14-1/2"
140.3100	13-3/8"	13-5/8"	13-7/8"	8	24	Vanes	14-1/4"	14-5/8"
140.3200	13-3/8"	13-5/8"	14"	8	24	Sleeve	14-3/4"	17-1/2"
140.3300	16"	16-1/4"	16-5/8"	12	36	Vanes	17-1/2"	21"
140.3400	20"	20-1/4"	20-5/8"	16	48	Sleeve	21-1/2"	27"
140.3500	24"	24-1/4"	24-5/8"	18	54	Sleeve	25-12"	29"

**PES**



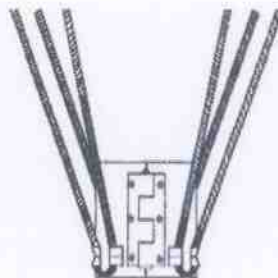
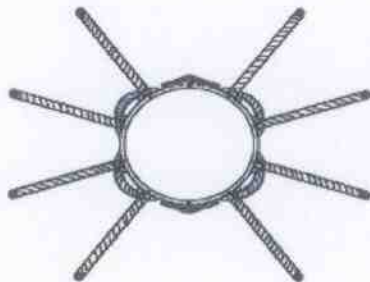
## PRODUCTION ENHANCEMENT SYSTEMS

### Beadlejuice Cable Scratchers

Cable Scratchers utilize cable scratching elements to remove excess filter cake, gelled mud, and bit cuttings from the wellbore. This process helps provide a bonding surface for the cement. Scratchers serve as reinforcement in the cement column.

#### Standard Sizes:

2-3/8"  
2-7/8"  
3-1/2"  
4-1/2"  
5"  
5-1/2"  
7"  
7-5/8"  
8-5/8"  
9-5/8"  
10-3/4"  
13-3/8"  
16"  
20"



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## Beadlejuice Limit Clamps

Limit Clamps fall into 3 primary groups:

**Bolt**

**Bolt with set screws**

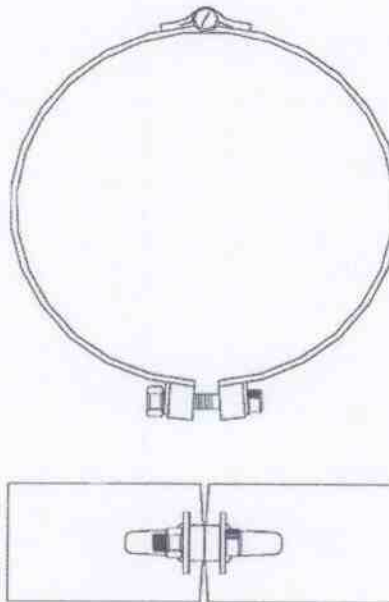
**Slip on with Set Screws**

**Bolt Limit Clamps** are installed by tightening a draw bolt, and are held on by friction against the casing.

### STANDARD SIZES

#### Casing Size

2-3/8"  
2-7/8"  
3-1/2"  
4"  
4-1/2"  
5"  
5-1/2"  
6-5/8"  
7"  
7-5/8"  
8-5/8"  
9-5/8"  
10-3/4"  
11-3/4"  
12-3/4"  
13-3/8"  
16"  
18-5/8"



•Torque bolts or set screws to approximately 25 – 35 ft-lbs.

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## PRODUCTION ENHANCEMENT SYSTEMS

### Beadlejuice Looped Cable Wipers

• **Wipers** use a looped cable design to clean the wellbore as the casing is reciprocated or rotated and removes filter cake, gelled mud, and bit cuttings from the wellbore.

• **Minimum recommended hole size: 1 1/2" over pipe size.**

• **Space Wipers the same as Scratchers, approximately 10 feet apart across the zone.**

**Reciprocating Wipers** use a draw-bolt tightening mechanism to grip the casing; therefore, stop collars are not required.

#### STANDARD SIZES Casing Size PES Part No.

2-3/8"

2-7/8"

3-1/2"

4-1/2"

5"

6-5/8"

7"

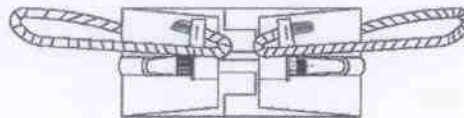
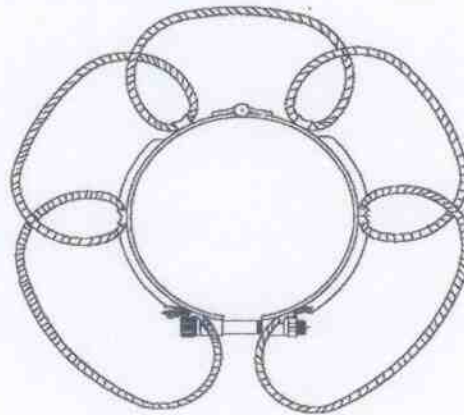
7-5/8"

8-5/8"

9-5/8"

10-3/4"

13-3/8"



**PES**

[www.beadlejuice.com](http://www.beadlejuice.com)

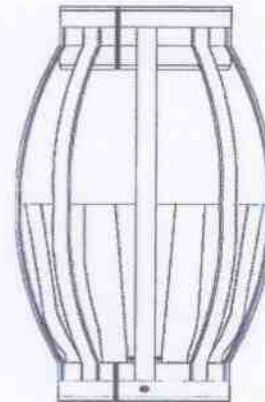
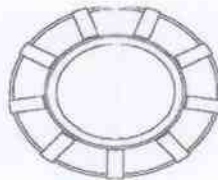
Ph# 337-849-6340 Fax# 337-234-4195

# PRODUCTION ENHANCEMENT SYSTEMS

## Beadlejuice Cement Baskets

**Metal Cement Baskets** are fabricated from high-strength, flexible steel bows mounted on steel slip-on end collars with metal petals spot-welded to one of the collars. The metal petals are shaped for added strength and durability and afford great adaptability to expansion and contraction. This type of construction allows for the cement basket to be pulled from the well if necessary.

Casing Size	Hole Size Range
2 7/8"	6 1/4" - 8 1/2"
4 1/2"	6 1/4" - 8 3/4"
5"	6 3/4" - 8 3/4"
5 1/2"	7 7/8" - 8-3/4"
6 5/8"	8 1/2" - 9 7/8"
7"	8 1/2" - 9 7/8"
7 5/8"	9 7/8"
8 5/8"	11 - 12 1/4"
9-5/8"	12 1/4"
10-3/4"	14 3/4" - 16"
11-3/4"	14 3/4" - 16"
12-3/4"	14 3/4" - 16"
13-3/8"	16 - 17-1/2"
16"	20 - 22"
18-5/8"	22 - 24"
20"	24 - 26"



Cement baskets are usually run:

- above porous or weak formations that may require protection from hydrostatic pressure generated by the cement column.
- to help support a cement column near the well surface while the cement sets.
- in stage-cementing operations.

**PES**

## PRODUCTION ENHANCEMENT SYSTEMS

### Beadlejuice One-Way Cement Baskets

**One Way Cement Baskets** are made of high-strength, flexible steel bows mounted on a steel slip-on ring, containing a heavy-duty canvas liner riveted to the staves. This basket style is designed to go into the hole in one direction only. Pulling up on this cement basket will cause damage. PES recommendations are to allow the basket to move freely on the pipe to compensate for the upward movement of the pipe as the slips are pulled. If using a stop collar to restrict the basket from moving down at the point where the bottom of the cement column is needed, locate another stop collar or casing collar 3' to 5' above the basket.

#### STANDARD PRODUCT SIZES

Casing Size	Hole Size Range
4-1/2"	6"
5-1/2"	7-7/8" - 9-7/8"
7"	8-1/2" - 9-7/8"
8-5/8"	11" - 12-1/4"
9-5/8"	12-1/4" - 14-3/4"
10-3/4"	14-3/4" - 16"
11-3/4"	14-3/4" - 16"
13-3/8"	16" - 17-1/2"



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## PRODUCTION ENHANCEMENT SYSTEMS



Beadlejuice  
Solid Stop Rings w/  
1 Row Of Set Screws

PES Part Number	Casing Size	Sleeve I.D.
150.1000	2-7/8"	3
150.1100	3-1/2"	3-5/8"
150.1200	3-1/2"	3-5/8"
150.1300	4"	4-1/6"
150.1400	4-1/2"	4-5/8"
150.1500	4-1/2"	4-5/8"
150.1600	5"	5-1/8"
150.1700	5"	5-1/8"
150.1800	5-1/2"	5-5/8"
150.1900	5-1/2"	5-5/8"
150.2000	6-5/8"	6-3/4"
150.2100	7"	7-1/8"
150.2200	7-5/8"	7-3/4"
150.2300	7-5/8"	7-3/4"
150.2400	7-3/4"	7-7/8"
150.2500	7-3/4"	8"
150.2600	8-5/8"	8-3/4"
150.2700	9-5/8"	9.7
150.2800	9-5/8"	9-3/4"
150.2900	10-3/4"	11"
150.3000	11-3/4"	12"
150.3100	13-3/8"	13-5/8"
150.3100	13-3/8"	13-5/8"
150.3200	16"	16-1/4"
150.3300	20"	20-1/4"
150.3400	24"	24-1/4"

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## PRODUCTION ENHANCEMENT SYSTEMS



Beadlejuice  
Heavy Duty Stop Ring  
Multi Rows Of Set Screws

PES Part Number	Casing Size	Sleeve I.D.
155.1000	2-7/8"	3
155.1100	3-1/2"	3-5/8"
155.1200	3-1/2"	3-5/8"
155.1300	4"	4-1/6"
155.1400	4-1/2"	4-5/8"
155.1500	4-1/2"	4-5/8"
155.1600	5"	5-1/8"
155.1700	5"	5-1/8"
155.1800	5-1/2"	5-5/8"
155.1900	5-1/2"	5-5/8"
155.2000	6-5/8"	6-3/4"
155.2100	7"	7-1/8"
155.2200	7-5/8"	7-3/4"
155.2300	7-5/8"	7-3/4"
155.2400	7-3/4"	7-7/8"
155.2500	7-3/4"	8"
155.2600	8-5/8"	8-3/4"
155.2700	9-5/8"	9.7
155.2800	9-5/8"	9-3/4"
155.2900	10-3/4"	11"
155.3000	11-3/4"	12"
155.3100	13-3/8"	13-5/8"
155.3200	13-3/8"	13-5/8"
155.3300	16"	16-1/4"
155.3400	20"	20-1/4"
155.3500	24"	24-1/4"

**PES**