



**INFINITY<sup>®</sup> | TOOL MFG.**

# **PDC BITS**

## **PRODUCT BROCHURE**



# Infinity Tool Manufacturing provides a complimentary line of down the hole bits, horizontal directional drilling consumables and various drilling accessories.

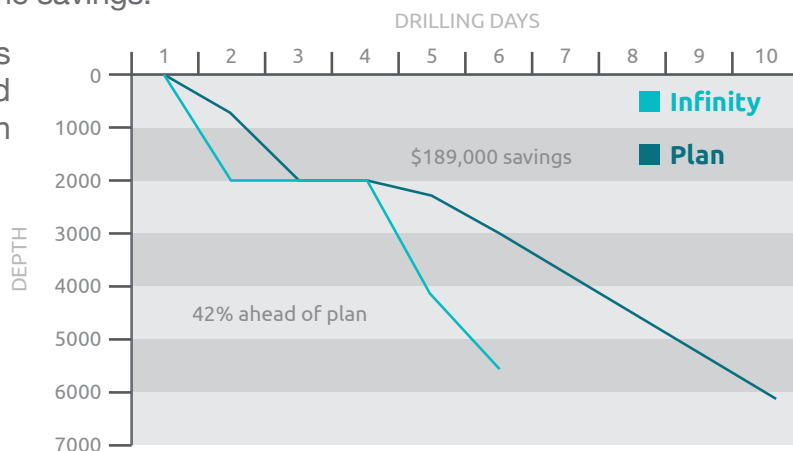
With a facility utilizing state-of-the art machinery along with combined experience of over 50 years in the drilling industry, Infinity takes that extra step in providing a top quality product.

Working through a large dealer network for many of our products, we encourage any distributors interested in our merchandise to contact us.

## Cost savings of utilizing Infinity Tools MFG.

Our customer's expectation was to drill down to kick off point in 8-1/2 days. This was the standard for the area utilizing the major PDC manufacturer's products. We designed and manufactured a PDC bit to our customer's specifications in order to increase ROP and reduce drilling cost. With our innovative forward thinking process we were able to drill down to kick off in 5 days, 12-1/4" with an avg ROP of 153'/hr and the 8-3/4" having an avg ROP of 87'/hr. We exceeded the customer's expectations by 42% on time savings.

The bottom line? Infinity's PDC Bits 12-1/4, 8-3/4" saved our customer \$189,000 in drilling costs.



# PDC bit manufacturing

Infinity has been manufacturing PDC bits for over ten years, allowing us to develop bits suitable for a range of drilling applications.

We custom make PDC bits that are suited to drilling for Oil & Gas, Geo-Thermal & Water well, Construction, Horizontal Directional Drilling as well as Mining.

With bit diameters ranging from 3 3/4" up to 18" as well as a variety of cutters and optional back-out cutters & jets, we really can produce a PDC to meet your needs.

We manufacture to the highest standards in our state-of-the-art American facility in Benton, Illinois.



# PDC BITS

## 3" Range

Product #	Size (in)	Number of Blades				Shank	Cutters (mm)			Wear Protection	Back Out Cutters	
		3	4	5	6		Steel	10	16		19	Hard Face
36-3S10W0	3 3/4	•				•	•			•		•
37-3S10W0	3 7/8	•				•	•			•		•
37-4S10W0	3 7/8		■			•	•			•		•

## 4" Range

Product #	Size (in)	Number of Blades				Shank	Cutters (mm)			Wear Protection	Back Out Cutters	
		3	4	5	6		Steel	13	16		19	Hard Face
40-3S13W0	4	•				•	•			•		•
40-4S13W0	4		■			•	•			•		•
41-3S13W0	4 1/8	•				•	•			•		•
41-4S13W0	4 1/8		■			•	•			•		•
41-5S13W0	4 1/8			•		•	•			•		•
42-3S13W0	4 1/4	•				•	•			•		•
42-4S13W0	4 1/4		■			•	•			•		•
42-5S13W0	4 1/4			•		•	•			•		•
44-3S13W0	4 1/2	•				•	•			•		•
44-4S13W0	4 1/2		■			•	•			•		•
44-5S13W0	4 1/2			•		•	•			•		•
45-3S13W0	4 5/8	•				•	•			•		•
45-4S13W0	4 5/8		■			•	•			•		•
45-5S13W0	4 5/8			•		•	•			•		•
46-3S13W0	4 3/4	•				•	•			•		•
46-4S13W0	4 3/4		■			•	•			•		•
46-5S13W0	4 3/4			•		•	•			•		•
47-3S13W0	4 7/8	•				•	•			•		•
47-4S13W0	4 7/8		■			•	•			•		•
47-5S13W0	4 7/8			•		•	•			•		•



Stocked



Available to order



Not available

Looking for a size/configuration not on this page? Get in touch using the details below to discuss custom bits.

## 5" Range

Product #	Size (in)	Number of Blades				Shank	Cutters (mm)			Wear Protection	Back Out Cutters	
		3	4	5	6		Steel	13	16		19	Hard Face
50-3S13W0	5	•				•	•			•		•
50-4S13W0	5		■			•	•			•		•
50-5S13W0	5			•		•	•			•		•
51-3S13W0	5 1/8	•				•	•			•		•
51-4S13W0	5 1/8		■			•	•			•		•
51-5S13W0	5 1/8			•		•	•			•		•
52-3S13W0	5 1/4	•				•	•			•		•
52-4S13W0	5 1/4		■			•	•			•		•
52-5S13W0	5 1/4			•		•	•			•		•
54-3S13W0	5 1/2	•				•	•			•		•
54-4S13W0	5 1/2		■			•	•			•		•
54-5S13W0	5 1/2			•		•	•			•		•
55-3S13W0	5 5/8	•				•	•			•		•
55-4S13W0	5 5/8		■			•	•			•		•
55-5S13W0	5 5/8			•		•	•			•		•
57-5S13W0	5 7/8			•		•	•			•		•

## 6" Range

Product #	Size (in)	Number of Blades				Shank	Cutters (mm)			Wear Protection	Back Out Cutters	
		3	4	5	6		Steel	13	16		19	Hard Face
60-3S13W0	6	•				•	•			•		•
60-3S13WB	6	•				•	•			•	■	
60-4S13W0	6		■			•	•			•		•
60-4S13WB	6		■			•	•			•	■	
60-5S13W0	6			•		•	•			•		•
60-5S13WB	6			•		•	•			•	■	
60-6S13W0	6				•	•	•			•		•
60-6S13WB	6				•	•	•			•	■	



Stocked



Available to order



Not available

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## 6" Range cont...

Product #	Size (in)	Number of Blades				Shank	Cutters (mm)			Wear Protection	Back Out Cutters	
		3	4	5	6		Steel	13	16		19	Hard Face
61-4S13W0	6 1/8		■			●	●			●		●
61-4S13WB	6 1/8		■			●	●			●	■	
61-5S13W0	6 1/8			●		●	●			●		●
61-5S13WB	6 1/8			●		●	●			●	■	
61-6S13W0	6 1/8				●	●	●			●		●
61-6S13WB	6 1/8				●	●	●			●	■	
62-4S13WB	6 1/4		■			●	●			●		●
62-4S13WB	6 1/4		■			●	●			●	■	
62-5S13WB	6 1/4			●		●	●			●		●
62-5S13WB	6 1/4			●		●	●			●	■	
62-6S13WB	6 1/4				●	●	●			●		●
62-6S13WB	6 1/4				●	●	●			●	■	
64-3S13W0	6 1/2	●				●	●			●		●
64-3S13WB	6 1/2	●				●	●			●	■	
64-3S16W0	6 1/2	●				●		●		●		●
64-3S16WB	6 1/2	●				●		●		●	■	
64-4S13W0	6 1/2		■			●	●			●		●
64-4S13WB	6 1/2		■			●	●			●	■	
64-4S16W0	6 1/2		■			●		●		●		●
64-4S16WB	6 1/2		■			●		●		●	■	
64-5S13W0	6 1/2			●		●	●			●		●
64-5S13WB	6 1/2			●		●	●			●	■	
64-5S16W0	6 1/2			●		●		●		●		●
64-5S16WB	6 1/2			●		●		●		●	■	
64-6S13W0	6 1/2				●	●	●			●		●
64-6S13WB	6 1/2				●	●	●			●	■	
64-6S16W0	6 1/2				●	●		●		●		●
64-6S16WB	6 1/2				●	●		●		●	■	



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## 6" Range cont...

Product #	Size (in)	Number of Blades				Shank	Cutters (mm)			Wear Protection	Back Out Cutters	
		3	4	5	6		Steel	13	16		19	Hard Face
66-4S13WO	6 3/4		■			●	●			●		●
66-4S13WB	6 3/4		■			●	●			●	■	
66-5S13WO	6 3/4			●		●	●			●		●
66-5S13WB	6 3/4			●		●	●			●	■	
66-6S13WO	6 3/4				●	●	●			●		●
66-6S13WB	6 3/4				●	●	●			●	■	

## 7" Range

Product #	Size (in)	Number of Blades				Shank	Cutters (mm)			Wear Protection	Back Out Cutters	
		3	4	5	6		Steel	13	16		19	Hard Face
77-4S13WO	7 7/8		■			●	■			●		●
77-4S13WB	7 7/8		■			●	■			●	■	
77-4S16WO	7 7/8		■			●		●		●		●
77-4S16WB	7 7/8		■			●		●		●	■	
77-5S13WO	7 7/8			●		●	■			●		●
77-5S13WB	7 7/8			●		●	■			●	■	
77-5S16WO	7 7/8			●		●		●		●		●
77-5S16WB	7 7/8			●		●		●		●	■	
77-6S13WO	7 7/8				●	●	■			●		●
77-6S13WB	7 7/8				●	●	■			●	■	
77-6S16WO	7 7/8				●	●		●		●		●
77-6S16WB	7 7/8				●	●		●		●	■	



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Not available

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## 8" Range

Product #	Size (in)	Number of Blades				Shank	Cutters (mm)			Wear Protection	Back Out Cutters	
		3	4	5	6		Steel	13	16		19	Hard Face
84-4S13WO	8 1/2		■			●	■			●		●
84-4S13WB	8 1/2		■			●	■			●	■	
84-4S16WO	8 1/2		■			●		●		●		●
84-4S16WB	8 1/2		■			●		●		●	■	
84-4S19WO	8 1/2		■			●			■	●		●
84-4S19WB	8 1/2		■			●			■	●	■	
84-5S13WO	8 1/2			●		●	■			●		●
84-5S13WB	8 1/2			●		●	■			●	■	
84-5S16WO	8 1/2			●		●		●		●		●
84-5S16WB	8 1/2			●		●		●		●	■	
84-5S19WO	8 1/2			●		●			■	●		●
84-5S19WB	8 1/2			●		●			■	●	■	
84-6S13WO	8 1/2				●	●	■			●		●
84-6S13WB	8 1/2				●	●	■			●	■	
84-6S16WO	8 1/2				●	●		●		●		●
84-6S16WB	8 1/2				●	●		●		●	■	
84-6S19WO	8 1/2				●	●			■	●		●
84-6S19WB	8 1/2				●	●			■	●	■	



Stocked



Available to order



Not available

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## 8" Range cont...

Product #	Size (in)	Number of Blades				Shank	Cutters (mm)			Wear Protection	Back Out Cutters	
		3	4	5	6		Steel	13	16		19	Hard Face
86-4S13WO	8 3/4		■			●	■			●		●
86-4S13WB	8 3/4		■			●	■			●	■	
86-4S16WO	8 3/4		■			●		●		●		●
86-4S16WB	8 3/4		■			●		●		●	■	
86-4S19WO	8 3/4		■			●			■	●		●
86-4S19WB	8 3/4		■			●			■	●	■	
86-5S13WO	8 3/4			●		●	■			●		●
86-5S13WB	8 3/4			●		●	■			●	■	
86-5S16WO	8 3/4			●		●		●		●		●
86-5S16WB	8 3/4			●		●		●		●	■	
86-5S19WO	8 3/4			●		●			■	●		●
86-5S19WB	8 3/4			●		●			■	●	■	
86-6S13WO	8 3/4				●	●	■			●		●
86-6S13WB	8 3/4				●	●	■			●	■	
86-6S16WO	8 3/4				●	●		●		●		●
86-6S16WB	8 3/4				●	●		●		●	■	
86-6S19WO	8 3/4				●	●			■	●		●
86-6S19WB	8 3/4				●	●			■	●	■	



Stocked



Available to order



Not available

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## 9" Range

Product #	Size (in)	Number of Blades				Shank	Cutters (mm)			Wear Protection	Back Out Cutters	
		3	4	5	6		Steel	10	16		19	Hard Face
90-3S10WO	9	■				●	■			●		●
90-3S10WB	9	■				●	■			●	■	
90-3S16WO	9	■				●		●		●		●
90-3S16WB	9	■				●		●		●	■	
90-3S19WO	9	■				●			■	●		●
90-3S19WB	9	■				●			■	●	■	
9-4S10WO	9		■			●	■			●		●
9-4S10WB	9		■			●	■			●	■	
9-4S16WO	9		■			●		●		●		●
9-4S16WB	9		■			●		●		●	■	
9-4S19WO	9		■			●			■	●		●
9-4S19WB	9		■			●			■	●	■	
9-5S10WO	9			●		●	■			●		●
9-5S10WB	9			●		●	■			●	■	
9-5S16WO	9			●		●		●		●		●
9-5S16WB	9			●		●		●		●	■	
9-5S19WO	9			●		●			■	●		●
9-5S19WB	9			●		●			■	●	■	
9-6S10WO	9				●	●	■			●		●
9-6S10WB	9				●	●	■			●	■	
9-6S16WO	9				●	●		●		●		●
9-6S16WB	9				●	●		●		●	■	
9-6S19WO	9				●	●			■	●		●
9-6S19WB	9				●	●			■	●	■	



Stocked



Available to order



Not available

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## 9" Range cont...

Product #	Size (in)	Number of Blades				Shank	Cutters (mm)			Wear Protection	Back Out Cutters	
		3	4	5	6		Steel	10	16		19	Hard Face
94-4S10W0	9 1/2		■			●	■			●		●
94-4S10WB	9 1/2		■			●	■			●	■	
94-4S16W0	9 1/2		■			●		●		●		●
94-4S16WB	9 1/2		■			●		●		●	■	
94-4S19W0	9 1/2		■			●			■	●		●
94-4S19WB	9 1/2		■			●			■	●	■	
94-5S10W0	9 1/2			●		●	■			●		●
94-5S10WB	9 1/2			●		●	■			●	■	
94-5S16W0	9 1/2			●		●		●		●		●
94-5S16WB	9 1/2			●		●		●		●	■	
94-5S19W0	9 1/2			●		●			■	●		●
94-5S19WB	9 1/2			●		●			■	●	■	
94-6S10W0	9 1/2				●	●	■			●		●
94-6S10WB	9 1/2				●	●	■			●	■	
94-6S16W0	9 1/2				●	●		●		●		●
94-6S16WB	9 1/2				●	●		●		●	■	
94-6S19W0	9 1/2				●	●			■	●		●
94-6S19WB	9 1/2				●	●			■	●	■	
97-5S10W0	9 7/8			●		●	■			●		●
97-5S10WB	9 7/8			●		●	■			●	■	
97-5S16W0	9 7/8			●		●		●		●		●
97-5S16WB	9 7/8			●		●		●		●	■	
97-5S19W0	9 7/8			●		●			■	●		●
97-5S19WB	9 7/8			●		●			■	●	■	
97-6S10W0	9 7/8				●	●	■			●		●
97-6S10WB	9 7/8				●	●	■			●	■	
97-6S16W0	9 7/8				●	●		●		●		●
97-6S16WB	9 7/8				●	●		●		●	■	
97-6S19W0	9 7/8				●	●			■	●		●
97-6S19WB	9 7/8				●	●			■	●	■	



Stocked



Available to order



Not available

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## 10" Range

Product #	Size (in)	Number of Blades				Shank	Cutters (mm)			Wear Protection	Back Out Cutters	
		3	4	5	6		Steel	10	16		19	Hard Face
100-5S10WO	10			•		•	■			•		•
100-5S10WB	10			•		•	■			•	■	
100-5S16WO	10			•		•		•		•		•
100-5S16WB	10			•		•		•		•	■	
100-5S19WO	10			•		•			■	•		•
100-5S19WB	10			•		•			■	•	■	
100-6S10WO	10				•	•	■			•		•
100-6S10WB	10				•	•	■			•	■	
100-6S16WO	10				•	•		•		•		•
100-6S16WB	10				•	•		•		•	■	
100-6S19WO	10				•	•			■	•		•
100-6S19WB	10				•	•			■	•	■	
105-5S10WO	10 5/8			•		•	■			•		•
105-5S10WB	10 5/8			•		•	■			•	■	
105-5S16WO	10 5/8			•		•		•		•		•
105-5S16WB	10 5/8			•		•		•		•	■	
105-5S19WO	10 5/8			•		•			■	•		•
105-5S19WB	10 5/8			•		•			■	•	■	
105-6S10WO	10 5/8				•	•	■			•		•
105-6S10WB	10 5/8				•	•	■			•	■	
105-6S16WO	10 5/8				•	•		•		•		•
105-6S16WB	10 5/8				•	•		•		•	■	
105-6S19WO	10 5/8				•	•			■	•		•
105-6S19WB	10 5/8				•	•			■	•	■	



Stocked



Available to order



Not available

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## 11" Range

Product #	Size (in)	Number of Blades				Shank	Cutters (mm)			Wear Protection	Back Out Cutters	
		3	4	5	6		Steel	10	16		19	Hard Face
110-5S10WO	11			•		•	■			•		•
110-5S10WB	11			•		•	■			•	■	
110-5S16WO	11			•		•		•		•		•
110-5S16WB	11			•		•		•		•	■	
110-5S19WO	11			•		•			■	•		•
110-5S19WB	11			•		•			■	•	■	
110-6S10WO	11				•	•	■			•		•
110-6S10WB	11				•	•	■			•	■	
110-6S16WO	11				•	•		•		•		•
110-6S16WB	11				•	•		•		•	■	
110-6S19WO	11				•	•			■	•		•
110-6S19WB	11				•	•			■	•	■	
115-5S10WO	11 5/8			•		•	■			•		•
115-5S10WB	11 5/8			•		•	■			•	■	
115-5S16WO	11 5/8			•		•		•		•		•
115-5S16WB	11 5/8			•		•		•		•	■	
115-5S19WO	11 5/8			•		•			■	•		•
115-5S19WB	11 5/8			•		•			■	•	■	
115-6S10WO	11 5/8				•	•	■			•		•
115-6S10WB	11 5/8				•	•	■			•	■	
115-6S16WO	11 5/8				•	•		•		•		•
115-6S16WB	11 5/8				•	•		•		•	■	
115-6S19WO	11 5/8				•	•			■	•		•
115-6S19WB	11 5/8				•	•			■	•	■	



Stocked



Available to order



Not available

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## 12" Range

Product #	Size (in)	Number of Blades				Shank	Cutters (mm)			Wear Protection	Back Out Cutters	
		3	4	5	6		Steel	10	16		19	Hard Face
122-5S10WO	12 1/4			•		•	■			•		•
122-5S10WB	12 1/4			•		•	■			•	■	
122-5S16WO	12 1/4			•		•		•		•		•
122-5S16WB	12 1/4			•		•		•		•	■	
122-5S19WO	12 1/4			•		•			■	•		•
122-5S19WB	12 1/4			•		•			■	•	■	
122-5S10WO	12 1/4				•	•	■			•		•
122-5S10WB	12 1/4				•	•	■			•	■	
122-5S16WO	12 1/4				•	•		•		•		•
122-5S16WB	12 1/4				•	•		•		•	■	
122-5S19WO	12 1/4				•	•			■	•		•
122-5S19WB	12 1/4				•	•			■	•	■	

## 14" Range

Product #	Size (in)	Number of Blades				Shank	Cutters (mm)			Wear Protection	Back Out Cutters	
		3	4	5	6		Steel	10	16		19	Hard Face
146-5S10WO	14 3/4			•		•	■			•		•
146-5S10WB	14 3/4			•		•	■			•	■	
146-5S16WO	14 3/4			•		•		•		•		•
146-5S16WB	14 3/4			•		•		•		•	■	
146-5S19WO	14 3/4			•		•			■	•		•
146-5S19WB	14 3/4			•		•			■	•	■	
146-6S10WO	14 3/4				•	•	■			•		•
146-6S10WB	14 3/4				•	•	■			•	■	
146-6S16WO	14 3/4				•	•		•		•		•
146-6S16WB	14 3/4				•	•		•		•	■	
146-6S19WO	14 3/4				•	•			■	•		•
146-6S19WB	14 3/4				•	•			■	•	■	



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## 16" Range

Product #	Size (in)	Number of Blades				Shank	Cutters (mm)			Wear Protection	Back Out Cutters	
		3	4	5	6		Steel	10	16		19	Hard Face
160-4S10WO	16		■			●	■			●		●
160-4S10WB	16		■			●	■			●	■	
160-4S16WO	16		■			●		●		●		●
160-4S16WB	16		■			●		●		●	■	
160-4S19WO	16		■			●			■	●		●
160-4S19WB	16		■			●			■	●	■	
160-5S10WO	16			●		●	■			●		●
160-5S10WB	16			●		●	■			●	■	
160-5S16WO	16			●		●		●		●		●
160-5S16WB	16			●		●		●		●	■	
160-5S19WO	16			●		●			■	●		●
160-5S19WB	16			●		●			■	●	■	
160-6S10WO	16				●	●	■			●		●
160-6S10WB	16				●	●	■			●	■	
160-6S16WO	16				●	●		●		●		●
160-6S16WB	16				●	●		●		●	■	
160-6S19WO	16				●	●			■	●		●
160-6S19WB	16				●	●			■	●	■	



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## 17" Range

Product #	Size (in)	Number of Blades				Shank	Cutters (mm)			Wear Protection	Back Out Cutters	
		3	4	5	6		Steel	10	16		19	Hard Face
170-5S10WO	17			•		•	■			•		•
170-5S10WB	17			•		•	■			•	■	
170-5S16WO	17			•		•		•		•		•
170-5S16WB	17			•		•		•		•	■	
170-5S19WO	17			•		•			■	•		•
170-5S19WB	17			•		•			■	•	■	
170-6S10WO	17				•	•	■			•		•
170-6S10WB	17				•	•	■			•	■	
170-6S16WO	17				•	•		•		•		•
170-6S16WB	17				•	•		•		•	■	
170-6S19WO	17				•	•			■	•		•
170-6S19WB	17				•	•			■	•	■	
174-5S10WO	17 1/2			•		•	■			•		•
174-5S10WB	17 1/2			•		•	■			•	■	
174-5S16WO	17 1/2			•		•		•		•		•
174-5S16WB	17 1/2			•		•		•		•	■	
174-5S19WO	17 1/2			•		•			■	•		•
174-5S19WB	17 1/2			•		•			■	•	■	
174-6S10WO	17 1/2				•	•	■			•		•
174-6S10WB	17 1/2				•	•	■			•	■	
174-6S16WO	17 1/2				•	•		•		•		•
174-6S16WB	17 1/2				•	•		•		•	■	
174-6S19WO	17 1/2				•	•			■	•		•
174-6S19WB	17 1/2				•	•			■	•	■	



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## 18" Range

Product #	Size (in)	Number of Blades				Shank	Cutters (mm)			Wear Protection	Back Out Cutters	
		3	4	5	6		Steel	10	16		19	Hard Face
180-4S10WO	18		■			●	■			●		●
180-4S10WB	18		■			●	■			●	■	
180-4S16WO	18		■			●		●		●		●
180-4S16WB	18		■			●		●		●	■	
180-4S19WO	18		■			●			■	●		●
180-4S19WB	18		■			●			■	●	■	
180-5S10WO	18			●		●	■			●		●
180-5S10WB	18			●		●	■			●	■	
180-5S16WO	18			●		●		●		●		●
180-5S16WB	18			●		●		●		●	■	
180-5S19WO	18			●		●			■	●		●
180-5S19WB	18			●		●			■	●	■	
180-6S10WO	18				●	●	■			●		●
180-6S10WB	18				●	●	■			●	■	
180-6S16WO	18				●	●		●		●		●
180-6S16WB	18				●	●		●		●	■	
180-6S19WO	18				●	●			■	●		●
180-6S19WB	18				●	●			■	●	■	



Stocked



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