

COMBITWIST® Knot Brushes

The Innovative Twist for Superior Results

ADVANCE
BRUSH



- More Aggressive Brushing
- Longer Brush Life
- Superior Rotational Balance
- Better Surface Finish
- Faster Stock Removal

COMBITWIST® Knot Wheels

Standard Twist, Full Cable Twist



COMBITWIST® – The Innovative Twist for Superior Results

COMBITWIST® is a variation of existing knot styles in which the knots are alternately twisted to offer superior balance during rotation. This construction style offers a more aggressive and effective brushing solution for cleaning and deburring applications.

Brushes available in POP Packaging are marked with a "P" in this brochure. Minimum order quantity of POP items is printed in blue.



Product Highlights:

- More Aggressive Brushing
- Longer Brush Life
- Superior Rotational Balance
- Faster Stock Removal
- Reduced Operator Fatigue
- Better Surface Finish

Standard twist knot wheel brushes with a threaded nut for easy change out. Features loosely twisted knots for aggressive brushing action with a good surface finish. They are ideal when heavy-duty or severe cleaning is required.

For heavy-duty metalworking applications (descaling, rust removal, deburring, weld dressing, removal of adhesive residue).

Recommendation for Use

For optimal performance, use on angle grinders.

PFERD Specification Number

RBG CT

Filament Material

The filament materials are colour-coded in the tables for faster navigation:

Steel Wire	- grey
Stainless Steel Wire (INOX)	- blue

PFERD ADVANCE BRUSH produces all stainless steel (INOX) brushes using 302 stainless steel wire. For faster identification Stainless Steel Wire (INOX) COMBITWIST® brushes feature black faceplates.



EDP 82383

Diameter d ₁ [Inches]	Thread Size d ₂ [Inches]	No. of Knots	Trim Length l ₂ [Inches]	Face Width b [Inches]	Wire Diameter and EDP Number				Recom. Speed [RPM]	MSFS Max. [RPM]	
					.014	.016	.020	.023			
Carbon Steel Wire											
4	5/8-11	22	7/8	5/8	82383	-	82384	-	10,000 - 15,000	20,000	10
5	5/8-11	24	5/8	5/8	-	-	82680	-	7,500 - 15,000	15,000	10
6	5/8-11	32	1-1/8	5/8	82681	82682	-	82683	4,500 - 9,000	9,000	10
Stainless Steel Wire (INOX)											
4	5/8-11	22	7/8	5/8	82412	-	82413	-	8,000 - 15,000	20,000	10
5	5/8-11	24	5/8	5/8	-	-	82749	-	6,000 - 15,000	15,000	10
6	5/8-11	32	1-1/8	5/8	-	82752	-	82753	3,500 - 9,000	9,000	10



EDP 82688

Full cable twist is ideal for the toughest brushing applications where surface finish is a low priority.

For heavy-duty metalworking applications (descaling, rust removal, deburring, weld dressing, removal of adhesive residue).

Recommendation for Use

For optimal performance, use on angle grinders.

PFERD Specification Number

RBG CT



Dia. d ₁ [Inches]	Thread Size d ₂ [Inches]	No. of Knots	Trim Length l ₂ [Inches]	Face Width b [Inches]	Wire Diameter and EDP Number				Recom. Speed [RPM]	MSFS Max. [RPM]	
					.014	.016	.020	.023			
Carbon Steel Wire											
4	5/8-11	22	3/4	3/8	82387	-	82388 P	-	10,000 - 15,000	20,000	10/5
5	5/8-11	24	3/4	3/8	-	-	-	82684	7,500 - 15,000	15,000	10
6	5/8-11	24	1-1/4	3/8	-	-	-	82687	5,000 - 10,000	10,000	10
6	5/8-11	30	1-1/4	1/2	-	82686	-	82688	5,000 - 10,000	10,000	10
Stainless Steel Wire (INOX)											
4	5/8-11	22	3/4	3/8	82416	-	82417	-	8,000 - 15,000	20,000	10
5	5/8-11	24	3/4	3/8	-	-	-	82754	6,000 - 15,000	15,000	10
6	5/8-11	24	1-1/4	3/8	-	-	-	82757	4,000 - 10,000	10,000	10
6	5/8-11	30	1-1/4	1/2	-	82756	-	82758	4,000 - 10,000	10,000	10



COMBITWIST® Knot Wheels

Stringer Bead Twist

Stringer bead twist knot wheel brushes are tightly twisted for low flex, high impact brushing action. Designed for root and hot pass weld cleaning in pipe joining applications. Also for general use where a narrow face, aggressive brush is desired for controlled, confined surface contact area.

For root and hot pass weld cleaning, applications requiring most aggressive brushing action.

Recommendation for Use

For optimal performance, use on angle grinders.

PFERD Specification Number

RBG CT



Diameter d ₁ [Inches]	Thread Size d ₂ [Inches]	No. of Knots	Trim Length l ₂ [Inches]	Face Width b [Inches]	Wire Diameter and EDP Number	Recom. Speed [RPM]	MSFS Max. [RPM]	
					.020			
Carbon Steel Wire								
4	5/8-11	32	3/4	3/16	82391 P	10,000 - 15,000	20,000	10/5
4-1/2	5/8-11	32	1	3/16	82392 P	10,000 - 15,000	20,000	10/5
4-7/8	5/8-11	48	3/4	3/16	82689	7,500 - 15,000	15,000	10
6	5/8-11	40	1-1/8	3/16	82692	6,000 - 12,500	12,500	10
6	5/8-11	48	1-1/8	3/16	82693	6,000 - 12,500	12,500	10
6	5/8-11	56	1-1/8	3/16	82694	6,000 - 12,500	12,500	10
6	5/8-11	64	1-1/8	1/8	82695	6,000 - 12,500	12,500	10
6-7/8	5/8-11	56	1-1/8	3/16	82700	4,500 - 9,000	9,000	10
6-7/8	5/8-11	72	1-1/8	3/16	82701	4,500 - 9,000	9,000	10

Stainless Steel Wire (INOX)								
4	5/8-11	32	3/4	3/16	82420	8,000 - 15,000	20,000	10
4-1/2	5/8-11	32	1	3/16	82421 P	8,000 - 15,000	20,000	10/5
4-7/8	5/8-11	48	3/4	3/16	82759	7,000 - 15,000	15,000	10
6	5/8-11	40	1-1/8	3/16	82762	5,000 - 12,500	12,500	10
6	5/8-11	48	1-1/8	3/16	82763	5,000 - 12,500	12,500	10
6	5/8-11	56	1-1/8	3/16	82764	5,000 - 12,500	12,500	10
6	5/8-11	64	1-1/8	1/8	82765	5,000 - 12,500	12,500	10
6-7/8	5/8-11	56	1-1/8	3/16	82770	3,600 - 9,000	9,000	10
6-7/8	5/8-11	72	1-1/8	3/16	82771	3,600 - 9,000	9,000	10

This unique patent pending nut design solves the problem of brush interference with the guard when changing the mounting position of the brush, resulting in increased user safety.

Reversing the mounting position of the brush takes advantage of the self-sharpening effect of the wire, resulting in longer service life, and improved brush performance.

Recommendation for Use

For optimal performance, use on angle grinders.

PFERD Specification Number

RBG CT



Diameter d ₁ [Inches]	Thread Size d ₂ [Inches]	No. of Knots	Trim Length l ₂ [Inches]	Face Width b [Inches]	Wire Diameter and EDP Number	Recom. Speed [RPM]	MSFS Max. [RPM]	
					.020			
Carbon Steel Wire								
6	5/8-11	56	1-1/8	3/16	88050	6,000 - 12,500	12,500	10
6-7/8	5/8-11	56	1-1/8	3/16	88052	4,500 - 9,000	9,000	10

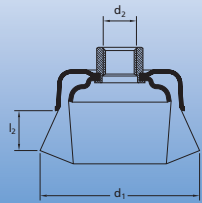
Minigrinder Adapter Insert	Adapter Inserts	Brush Thread [Inches]	Tool Spindle	EDP Number	
	5/8-11 UNC to M10 x 1.25	5/8-11	M10x1.25	84645 P	5/5
	5/8-11 UNC to M10 x 1.5	5/8-11	M10x1.50	84646 P	5/5
	5/8-11 UNC to 3/8-24	5/8-11	3/8-24	84647 P	5/5

COMBITWIST® Knot Cups

Single and Double Row – External Nut



External Nut, Single Row, COMBITWIST®



EDP 82750

PFERD ADVANCE cup brushes are designed for heavy-duty cleaning, deburring, roughening and corrosion removal. Designed for use on production equipment, angle grinders, portable power tools, sander/ polishers, etc. COMBITWIST® knot construction provides high-impact, heavy-duty brushing action for faster removal rates on tough jobs.

Ordering Note

Please see page 3 for thread adapters.

PFERD Specification Number

TBG CT



Diameter d ₁ [Inches]	Thread Size d ₂	No. of Knots	Trim Length l ₂ [Inches]	Wire Diameter and EDP Number				Recom. Speed [RPM]	MSFS Max. [RPM]	
				.014	.020	.023	.035			

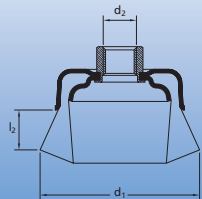
Carbon Steel Wire

2-3/4	5/8-11	18	7/8	82750 P	82751 P	-	-	7,000 - 14,000	14,000	5/5
3-1/2	5/8-11	20	7/8	82401	82402	-	-	6,000 - 12,500	12,500	1
4	5/8-11	24	1-1/4	82716	-	82717	82718	4,500 - 9,000	9,000	1
4	M14x2.0	24	1-1/4	-	-	82720	-	4,500 - 9,000	9,000	1
5	5/8-11	30	1-3/8	82722	-	82723	-	3,500 - 7,000	7,000	1
6	5/8-11	36	1-1/2	-	-	82725	82726	3,000 - 6,000	6,000	1

Stainless Steel Wire (INOX)

2-3/4	5/8-11	18	7/8	82855 P	82856	-	-	5,500 - 14,000	14,000	5/5
3-1/2	5/8-11	20	7/8	82430	82431	-	-	4,000 - 9,000	12,500	5
4	5/8-11	24	1-1/4	82789	-	82790	-	3,500 - 9,000	9,000	5
5	5/8-11	30	1-3/8	82793	-	82794	-	2,500 - 7,000	7,000	5
6	5/8-11	36	1-1/2	-	-	82796	-	2,000 - 6,000	6,000	5

External Nut, Double Row, COMBITWIST®



EDP 82557

Choose double row knot cups for the most severe applications. Very aggressive, high impact brushing action. Optimal removal rates and service life.

PFERD Specification Number

TBG CT

Diameter d ₁ [Inches]	Thread Size d ₂	No. of Knots	Trim Length l ₂ [Inches]	Wire Diameter and EDP Number			Recom. Speed [RPM]	MSFS Max. [RPM]	
				.014	.023	.035			

Carbon Steel Wire

4	5/8-11	48	1-3/8	82552	82553	-	3,500 - 7,000	7,000	1
6	5/8-11	66	1-1/2	82556	82557	82558	3,000 - 6,000	6,000	1

Stainless Steel Wire (INOX)

4	5/8-11	48	1-3/8	-	82657	-	2,500 - 7,000	7,000	1
6	5/8-11	66	1-1/2	-	82659	-	2,000 - 6,000	6,000	1

PFERDERGONOMICS

COMBITWIST® brushes from PFERD ADVANCE BRUSH help to reduce the hazardous vibrations during the work process.



PFERD ADVANCE brushes with COMBITWIST® knot construction feature smoother running due to better wheel balance and increased removal. The unique production style prevents the brushes recoiling even when used on tool edges and corners.

We will be happy to send you more information about the topic of health and safety upon request.

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