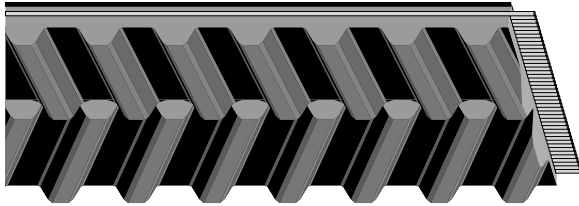




# EAGLE Pd™ BELT



SYNCHRONOUS

Part No: B-1750

B Blue = 14 mm Pitch, 35 mm Width  
1750 1750 mm Pitch Length

## A REVOLUTIONARY BREAKTHROUGH IN SYNCHRONOUS BELT TECHNOLOGY

Much more than an alternative to chain and V-belt drives, Goodyear's Eagle Pd is a total product enhancement that can improve the performance of your drive design.

Eagle's unique HOT (Helical Offset Tooth) design provides a continuous rolling tooth engagement to create a lighter, quieter, reduced vibration, flangeless drive to maximize both the performance and efficiency of your drive system.

Utilizing a concept called "circular arc geometry," Eagle Pd belts and sprockets offer better anti ratcheting resistance, precise movement, increased horsepower ratings, and improved stress distribution allowing the belt's teeth to withstand the shearing action of high torque loads.

### LIGHTER, NARROWER DRIVES

The self tracking design of Eagle eliminates the need for sprocket flanges, which reduces face width and weight. The belt is also bidirectional for use in reverse drive applications. And because the belt is comprised of specialized materials, the width of the belt can be reduced without compromising strength. The result is a lighter, narrower, more design-friendly drive option.

### BELT MATERIALS COMPOUNDED TO LAST LONGER

Durability starts with the Eagle Pd belt's Hibrex® rubber compound, a cross-linked elastomer formulated to resist tooth deformity and increase tooth rigidity. Hibrex compound is also chemically stable to resist the effects of oils, coolants, heat and ozone.

Eagle's high-strength Flexten® tensile member provides optimal resistance to flex fatigue, elongation and shock loads

## APPLICATIONS

Goodyear Eagle Pd belts and sprockets are ideal on a wide variety of applications in all industries.

- Agricultural Equipment
- Packaging Conveyors
- Aggregate Crushers
- Poultry/Meat Grinders
- Wood Debarkers & Saws
- Mining Equipment
- Aluminum/Steel Conveyors
- Paper Presses
- Hog Dehairers
- Chain Drives
- Baking Mixers
- Textile Machines
- Horizontal Drives
- Printing Machines

## KEY FEATURES & BENEFITS

- Reduced Noise
- Increased Horsepower
- Higher Efficiency
- Less Bearing Load
- Greater Precision
- Less Vibration
- Less Maintenance
- Compactness
- Self-Tracking
- Bidirectional

while operating at high torque conditions. Eagle's Plioguard® facing also reduces tooth engagement friction while standing up to oil and chemical permeation.

### INCREASED EFFICIENCY

Eagle's unique tooth configuration provides continuous tooth engagement and eliminates slippage. With a power efficiency rating of 98%, Eagle Pd can offer you an impressive 5% edge over typical V-belt drives.

Simply stated, with Eagle Pd, you get what you pay for with each energy dollar. This is especially true when the Eagle Pd is applied to high-energy consuming drives that are used 24 hours a day, as well as high horsepower drives that inflate energy consumption during peak periods.

### A QUIETER, REDUCED VIBRATION DRIVE

The Helical Offset Tooth design of Eagle Pd belts and sprockets reduces vibration and decreases operating noise by as much as 19 decibels versus other synchronous systems. This can lead to a quieter working environment with improved worker efficiency. Costs associated with monitoring, training and testing to meet OSHA regulations are virtually eliminated with Eagle Pd drives.

### LOWER MAINTENANCE COSTS

Unlike chain drives, Eagle Pd belts and sprockets do not require lubrication. There is also no need for retensioning unlike V-belts and chain belts. Install Eagle Pd and watch your maintenance costs drop to practically nothing.

Realize immediate savings with Eagle Pd belts and sprockets. In virtually every measure of comparison, Eagle Pd belts and sprockets are superior.



# EAGLE Pd™ BELT

## MATCHING BELT TO SPROCKET HAS NEVER BEEN EASIER

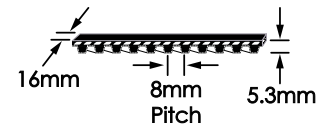
The Eagle Pd Spectrum color system makes it the easiest power transmission drive to sell, purchase and install.

The part numbering system for Eagle Pd centers around a color-coded sizing system for the belts and sprockets. Each belt and sprocket part number includes a letter corresponding to a color and is also branded in that color. The letters Y, W, P, B, G, O, and R indicate the colors Yellow, White, Purple, Blue, Green, Orange, and Red. All Yellow belts are designed to function with all Yellow sprockets, as is the case for the White, Purple, Blue, Green, Orange and Red sizes. An example of the part numbering system nomenclature for belts, sprockets, and bushings follows and also occurs on subsequent pages.

## BELT PART NUMBER NOMENCLATURE

- G – 2800
  - G Green Color
  - 2800 2800 mm Pitch Length
- Y – 896
  - Y Yellow Color
  - 896 896 mm Pitch Length

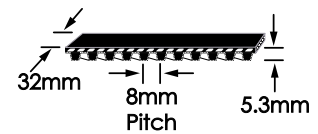
SYNCHRONOUS



## EAGLE Pd™ YELLOW (8 mm Pitch - 16 mm Width)

Part Number	No. of Teeth	Length (in)	Part Number	No. of Teeth	Length (in)
Y-640	80	25.20	Y-1280	160	50.39
Y-720	90	28.35	Y-1440	180	56.69
Y-800	100	31.50	Y-1600	200	62.99
Y-896	112	35.28	Y-1792	224	70.55
Y-1000	125	39.37	Y-2000	250	78.74
Y-1120	140	44.09	Y-2240	280	88.19
Y-1200	150	47.24	Y-2400	300	94.49

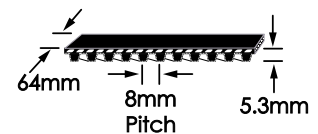
The belt length in mm is given in the part number.



## EAGLE Pd™ WHITE (8 mm Pitch - 32 mm Width)

Part Number	No. of Teeth	Length (in)	Part Number	No. of Teeth	Length (in)
W-640	80	25.20	W-1280	160	50.39
W-720	90	28.35	W-1440	180	56.69
W-800	100	31.50	W-1600	200	62.99
W-896	112	35.28	W-1792	224	70.55
W-1000	125	39.37	W-2000	250	78.74
W-1120	140	44.09	W-2240	280	88.19
W-1200	150	47.24	W-2400	300	94.49

The belt length in mm is given in the part number.



## EAGLE Pd™ PURPLE (8 mm Pitch - 64 mm Width)

Part Number	No. of Teeth	Length (in)	Part Number	No. of Teeth	Length (in)
P-720	90	28.35	P-1200	150	47.24
P-800	100	31.50	P-1280	160	50.39
P-896	112	35.28	P-1360*	170	53.54
P-1000	125	39.37	P-1440	180	56.69
P-1120	140	44.09	P-1600	200	62.99

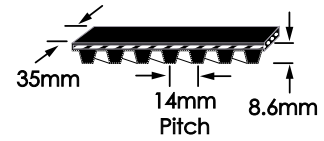
The belt length in mm is given in the part number.

\*Size under consideration for a future line addition.



# EAGLE Pd™ BELT

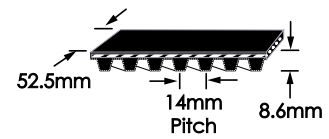
SYNCHRONOUS



## EAGLE Pd™ BLUE (14 mm Pitch - 35 mm Width)

Part Number	No. of Teeth	Length (in)	Part Number	No. of Teeth	Length (in)
B-994	71	39.13	B-1960	140	77.17
B-1120	80	44.09	B-2100	150	82.68
B-1190	85	46.85	B-2240	160	88.19
B-1260	90	49.61	B-2380	170	93.70
B-1400	100	55.12	B-2520	180	99.21
B-1568	112	61.73	B-2660	190	104.72
B-1750	125	68.90	B-2800	200	110.24

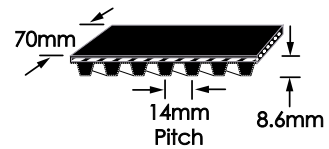
The belt length in mm is given in the part number.



## EAGLE Pd™ GREEN (14 mm Pitch - 52.5 mm Width)

Part Number	No. of Teeth	Length (in)	Part Number	No. of Teeth	Length (in)
G-994	71	39.13	G-1960	140	77.17
G-1120	80	44.09	G-2100	150	82.68
G-1190	85	46.85	G-2240	160	88.19
G-1260	90	49.61	G-2380	170	93.70
G-1400	100	55.12	G-2520	180	99.21
G-1568	112	61.73	G-2660	190	104.72
G-1750	125	68.90	G-2800	200	110.24

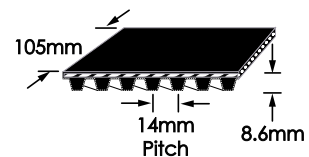
The belt length in mm is given in the part number.



## EAGLE Pd™ ORANGE (14 mm Pitch - 70 mm Width)

Part Number	No. of Teeth	Length (in)	Part Number	No. of Teeth	Length (in)
O-1120	80	44.09	O-1960	140	77.17
O-1190	85	46.85	O-2100	150	82.68
O-1260	90	49.61	O-2240	160	88.19
O-1400	100	55.12	O-2380	170	93.70
O-1568	112	61.73	O-2520	180	99.21
O-1750	125	68.90	O-2660	190	104.72
			O-2800	200	110.24

The belt length in mm is given in the part number.



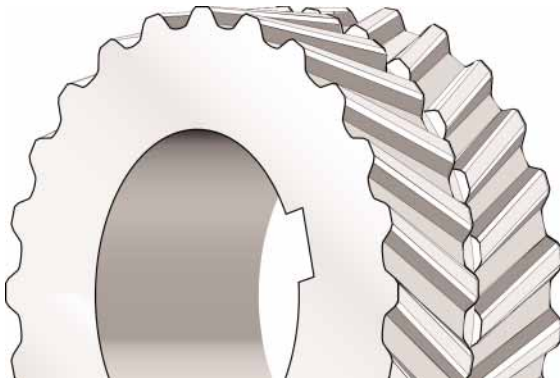
## EAGLE Pd™ RED (14 mm Pitch - 105 mm Width)

Part Number	No. of Teeth	Length (in)	Part Number	No. of Teeth	Length (in)
R-1260	90	49.61	R-2240	160	88.19
R-1400	100	55.12	R-2380	170	93.70
R-1568	112	61.73	R-2520	180	99.21
R-1750	125	68.90	R-2660	190	104.72
R-1960	140	77.17	R-2800	200	110.24
R-2100	150	82.68			

The belt length in mm is given in the part number.



# EAGLE Pd™ SPROCKET



Part No: Y-28S-H

Y Yellow = 8 mm Pitch, 16 mm Width  
 28 28 Teeth  
 S Sprocket  
 H Hub/Bushing Type

## SPROCKET COMBINATIONS TO FIT YOUR DRIVE SYSTEM'S NEEDS

Eagle Pd sprockets have been designed to insure maximum service life and performance. Over 1,000 sprocket combinations are available, making it easier to match the desired design speed. More speed ratio options also means more design flexibility and more compact drives.

Eagle sprockets do not require flanges and are stocked in ductile iron constructions. Other materials such as aluminum, steel and stainless steel are available upon request as made-to-order items.

## MATCHING BELT TO SPROCKET HAS NEVER BEEN EASIER

The part numbering system for Eagle Pd centers around a color-coded sizing system for the belts and sprockets. Each belt and sprocket part number includes a letter corresponding to a color and is also branded in that color. The letters Y, W, P, B, G, O, and R indicate the colors Yellow, White, Purple, Blue, Green, Orange, and Red. All Yellow belts are designed to function with all Yellow sprockets, as is the case for the White, Purple, Blue, Green, Orange and Red sizes. An example of the part numbering system nomenclature for sprockets and bushings is given below.

## SPROCKET PART NUMBER NOMENCLATURE

### Minimum Plain Bore, MPB: O-40S-MPB

This is an Orange size sprocket with 40 teeth and a Minimum Plain Bore, MPB, style hub. The MPB style sprockets are supplied as is with a minimum bore, typically 1/2" or 1" with H7 tolerances, and will require machining of a keyway and setscrew holes, and possibly boring to a desired bore size.

## APPLICATIONS

Goodyear Eagle Pd belts and sprockets are ideal for use on a wide variety of applications in all industries.

## KEY FEATURES & BENEFITS

- More design flexibility with more compact drives.
- No flanges.
- Self-tracking design.
- Available in ductile iron, aluminum, steel, or stainless steel.

SYNCHRONOUS

### Quick Disconnect, QD:

### R-168S-N

This is a Red size sprocket with 168 teeth and a hub machined to fit an 'N' size QD bushing. A bushing is required to install this sprocket on a shaft. Please note that smaller diameter sprockets are not available in the QD style due to space limitations.

### Finished Stock Bore, FSB:

### G-34S-1 7/8

This is a Green size sprocket with 34 teeth and a Finished Stock Bore, FSB, style hub featuring a bore of 1 7/8". Finished Stock Bore, FSB, sprockets are supplied ready to install with a standard keyway and setscrew holes machined.

### Bored To Suit, BTS:

### B-28S-BTS-1 13/16

This is a Blue size sprocket with 28 teeth and a hub that has been Bored (BTS) to 1 13/16", per customer specification, and machined for setscrew holes and a keyway. BTS sprockets can be made to almost any bore including metric sizes.

*Note: All MPB, QD, and FSB style sprockets are stock items. BTS sprockets are made-to-order and may require longer lead times.*

## BUSHING PART NUMBER NOMENCLATURE

### E 2 1/8:

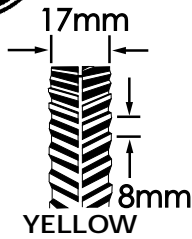
### E Bushing Size 2 1/8 Bushing Bore

Bushings are supplied with bolts, lock washers, and setscrews. Keys are supplied only if a special shallow key is required. The E 2 1/8" bushing can be used to install any sprocket with an 'E' hub on a 2 1/8" shaft. The QD bushing system is an industry standard, however, to ensure the best match between sprocket and bushing, we recommend using bushings supplied by Goodyear with Eagle Pd sprockets.

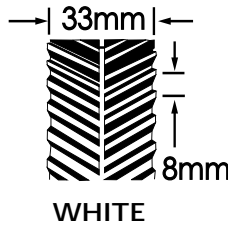


# EAGLE Pd™ SPROCKET

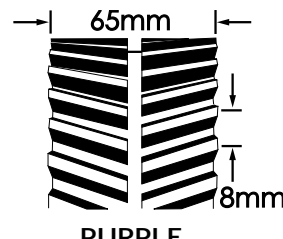
SYNCHRONOUS



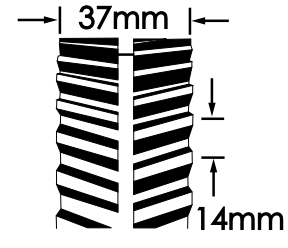
YELLOW



WHITE



PURPLE



BLUE

## EAGLE Pd™ YELLOW (8 mm Pitch - 17 mm Width)

Part Number	No. of Teeth	Part Number	No. of Teeth	Part Number	No. of Teeth	Part Number	No. of Teeth	Part Number	No. of Teeth
Y-18S-MPB	18	Y-25S-1 1/8	25	Y-34S-H	34	Y-52S-MPB	52	Y-80S-SDS	80
Y-18S-7/8	18	Y-25S-1 3/8	25	Y-36S-MPB	36	Y-56S-MPB	56	Y-90S-MPB	90
Y-20S-MPB	20	Y-26S-MPB	26	Y-36S-SH	36	Y-56S-SDS	56	Y-90S-SK	90
Y-20S-7/8	20	Y-26S-7/8	26	Y-38S-MPB	38	Y-60S-MPB	60	Y-112S-MPB	112
Y-20S-1 1/8	20	Y-26S-1 1/8	26	Y-38S-SH	38	Y-60S-SDS	60	Y-112S-SK	112
Y-22S-MPB	22	Y-26S-1 3/8	26	Y-40S-MPB	40	Y-63S-MPB	63	Y-140S-MPB	140
Y-22S-7/8	22	Y-26S-1 5/8	26	Y-40S-SH	40	Y-63S-SDS	63	Y-140S-SK	140
Y-22S-1 1/8	22	Y-28S-MPB	28	Y-44S-MPB	44	Y-64S-MPB	64	Y-180S-MPB	180
Y-24S-MPB	24	Y-28S-H	28	Y-45S-MPB	45	Y-68S-MPB	68	Y-180S-SF	180
Y-24S-7/8	24	Y-30S-MPB	30	Y-45S-SDS	45	Y-72S-MPB	72	Y-224S-MPB	224
Y-24S-1 1/8	24	Y-30S-H	30	Y-48S-MPB	48	Y-75S-MPB	75	Y-224S-E	224
Y-24S-1 3/8	24	Y-32S-MPB	32	Y-48S-SDS	48	Y-75S-SDS	75		
Y-25S-MPB	25	Y-32S-H	32	Y-50S-MPB	50	Y-76S-MPB	73		
Y-25S-7/8	25	Y-34S-MPB	34	Y-50S-SDS	50	Y-80S-MPB	80		

## EAGLE Pd™ WHITE (8 mm Pitch - 33 mm Width)

Part Number	No. of Teeth	Part Number	No. of Teeth	Part Number	No. of Teeth	Part Number	No. of Teeth	Part Number	No. of Teeth
W-18S-MPB	18	W-25S-1 1/8	25	W-34S-H	34	W-52S-MPB	52	W-80S-SDS	80
W-18S-7/8	18	W-25S-1 3/8	25	W-36S-MPB	36	W-56S-MPB	56	W-90S-MPB	90
W-20S-MPB	20	W-26S-MPB	26	W-36S-SH	36	W-56S-SDS	56	W-90S-SK	90
W-20S-7/8	20	W-26S-7/8	26	W-38S-MPB	38	W-60S-MPB	60	W-112S-MPB	112
W-20S-1 1/8	20	W-26S-1 1/8	26	W-38S-SH	38	W-60S-SDS	60	W-112S-SK	112
W-22S-MPB	22	W-26S-1 3/8	26	W-40S-MPB	40	W-63S-MPB	63	W-140S-MPB	140
W-22S-7/8	22	W-26S-1 5/8	26	W-40S-SH	40	W-63S-SDS	63	W-140S-SK	140
W-22S-1 1/8	22	W-28S-MPB	28	W-44S-MPB	44	W-64S-MPB	64	W-180S-MPB	180
W-24S-MPB	24	W-28S-H	28	W-45S-MPB	45	W-68S-MPB	68	W-180S-SF	180
W-24S-7/8	24	W-30S-MPB	30	W-45S-SDS	45	W-72S-MPB	72	W-224S-MPB	224
W-24S-1 1/8	24	W-30S-H	30	W-48S-MPB	48	W-75S-MPB	75	W-224S-E	224
W-24S-1 3/8	24	W-32S-MPB	32	W-48S-SDS	48	W-75S-SDS	75		
W-25S-MPB	25	W-32S-H	32	W-50S-MPB	50	W-76S-MPB	76		
W-25S-7/8	25	W-34S-MPB	34	W-50S-SDS	50	W-80S-MPB	80		

## EAGLE Pd™ PURPLE (8 mm Pitch - 65 mm Width)

**EAGLE PURPLE SPROCKETS ARE A MADE TO ORDER PRODUCT**

Stock sizes are under consideration. Please contact Customer Service for final availability.

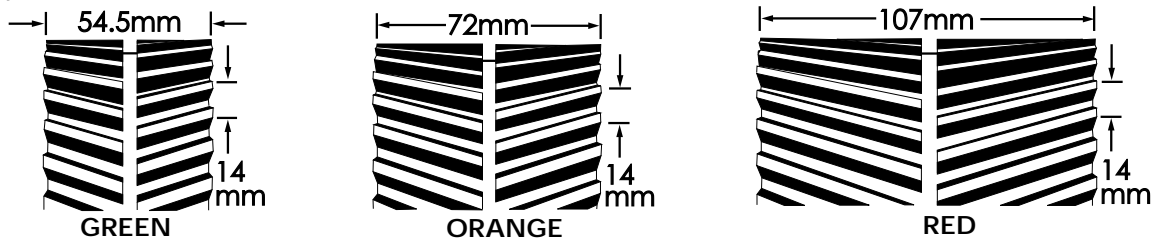
## EAGLE Pd™ BLUE (8 mm Pitch - 37 mm Width)

Part Number	No. of Teeth	Part Number	No. of Teeth	Part Number	No. of Teeth	Part Number	No. of Teeth	Part Number	No. of Teeth
B-28S-MPB	28	B-36S-SF	36	B-48S-MPB	48	B-63S-F	63	B-112S-MPB	112
B-28S-SK	28	B-38S-MPB	38	B-48S-SF	48	B-71S-MPB	71	B-112S-F	112
B-30S-MPB	30	B-38S-SF	38	B-50S-MPB	50	B-71S-F	71	B-140S-MPB	140
B-30S-SK	30	B-40S-MPB	40	B-50S-E	50	B-75S-MPB	75	B-140S-J	140
B-32S-MPB	32	B-40S-SF	40	B-56S-MPB	56	B-75S-F	75	B-168S-MPB	168
B-32S-SK	32	B-43S-MPB	43	B-56S-E	56	B-80S-MPB	80	B-168S-J	168
B-34S-MPB	34	B-43S-SF	43	B-60S-MPB	60	B-80S-F	80		
B-34S-SK	34	B-45S-MPB	45	B-60S-E	60	B-90S-MPB	90		
B-36S-MPB	36	B-45S-SF	45	B-63S-MPB	63	B-90S-F	90		

Sprockets with MPB (Minimum Plain Bore) are specified when the sprocket does not allow room for a bushing that will handle the maximum load.



# EAGLE Pd™ SPROCKET



SYNCHRONOUS

## EAGLE Pd™ GREEN (14 mm Pitch - 54.5 mm Width)

Part Number	No. of Teeth	Part Number	No. of Teeth	Part Number	No. of Teeth	Part Number	No. of Teeth	Part Number	No. of Teeth
G-28S-MPB	28	G-32S-2 1/8	32	G-40S-MPB	40	G-56S-MPB	56	G-80S-MPB	80
G-28S-1 7/8	28	G-32S-2 3/8	32	G-40S-SF	40	G-56S-E	56	G-80S-J	80
G-28S-2 1/8	28	G-34S-MPB	34	G-43S-MPB	43	G-60S-MPB	60	G-90S-MPB	90
G-28S-2 3/8	28	G-34S-1 7/8	34	G-43S-E	43	G-60S-E	60	G-90S-J	90
G-30S-MPB	30	G-34S-2 1/8	34	G-45S-MPB	45	G-63S-MPB	63	G-112S-MPB	112
G-30S-1 7/8	30	G-34S-2 3/8	34	G-45S-E	45	G-63S-E	63	G-112S-J	112
G-30S-2 1/8	30	G-36S-MPB	36	G-48S-MPB	48	G-71S-MPB	71	G-140S-MPB	140
G-30S-2 3/8	30	G-36S-SF	36	G-48S-E	48	G-71S-J	71	G-140S-M	140
G-32S-MPB	32	G-38S-MPB	38	G-50S-MPB	50	G-75S-MPB	75	G-168S-MPB	168
G-32S-1 7/8	32	G-38S-SF	38	G-50S-E	50	G-75S-J	75	G-168S-M	168

## EAGLE Pd™ ORANGE (14 mm Pitch - 72 mm Width)

Part Number	No. of Teeth	Part Number	No. of Teeth	Part Number	No. of Teeth	Part Number	No. of Teeth	Part Number	No. of Teeth
O-28S-MPB	28	O-34S-MPB	34	O-38S-2 3/8	38	O-50S-MPB	50	O-80S-J	80
O-28S-1 7/8	28	O-34S-1 7/8	34	O-38S-2 7/8	38	O-50S-F	50	O-90S-MPB	90
O-28S-2 1/8	28	O-34S-2 1/8	34	O-40S-MPB	40	O-56S-MPB	56	O-90S-J	90
O-28S-2 3/8	28	O-34S-2 3/8	34	O-40S-1 7/8	40	O-56S-F	56	O-112S-MPB	112
O-30S-MPB	30	O-34S-2 7/8	34	O-40S-2 1/8	40	O-60S-MPB	60	O-112S-M	112
O-30S-1 7/8	30	O-36S-MPB	36	O-40S-2 3/8	40	O-60S-J	60	O-140S-MPB	140
O-30S-2 1/8	30	O-36S-1 7/8	36	O-40S-2 7/8	40	O-63S-MPB	63	O-140S-M	140
O-30S-2 3/8	30	O-36S-2 1/8	36	O-43S-MPB	43	O-63S-J	63	O-168S-MPB	168
O-32S-MPB	32	O-36S-2 3/8	36	O-43S-E	43	O-71S-MPB	71	O-168S-M	168
O-32S-1 7/8	32	O-36S-2 7/8	36	O-45S-MPB	45	O-71S-J	71		
O-32S-2 1/8	32	O-38S-MPB	38	O-45S-E	45	O-75S-MPB	75		
O-32S-2 3/8	32	O-38S-1 7/8	38	O-48S-MPB	48	O-75S-J	75		
O-32S-2 7/8	32	O-38S-2 1/8	38	O-48S-E	48	O-80S-MPB	80		

## EAGLE Pd™ RED (14 mm Pitch - 107 mm Width)

Part Number	No. of Teeth	Part Number	No. of Teeth	Part Number	No. of Teeth	Part Number	No. of Teeth	Part Number	No. of Teeth
R-28S-MPB	28	R-32S-2 7/8	32	R-38S-2 3/8	38	R-48S-MPB	48	R-80S-MPB	80
R-28S-1 7/8	28	R-34S-MPB	34	R-38S-2 7/8	38	R-48S-F	48	R-80S-M	80
R-28S-2 1/8	28	R-34S-1 7/8	34	R-40S-MPB	40	R-50S-MPB	50	R-90S-MPB	90
R-28S-2 3/8	28	R-34S-2 1/8	34	R-40S-1 7/8	40	R-50S-J	50	R-90S-M	90
R-28S-2 7/8	28	R-34S-2 3/8	34	R-40S-2 1/8	40	R-56S-MPB	56	R-112S-MPB	112
R-30S-MPB	30	R-34S-2 7/8	34	R-40S-2 3/8	40	R-56S-J	56	R-112S-M	112
R-30S-1 7/8	30	R-36S-MPB	36	R-40S-2 7/8	40	R-60S-MPB	60	R-140S-MPB	140
R-30S-2 1/8	30	R-36S-1 7/8	36	R-43S-MPB	43	R-60S-J	60	R-140S-N	140
R-30S-2 3/8	30	R-36S-2 1/8	36	R-43S-1 7/8	43	R-63S-MPB	63	R-168S-MPB	168
R-30S-2 7/8	30	R-36S-2 3/8	36	R-43S-2 1/8	43	R-63S-J	63	R-168S-N	168
R-32S-MPB	32	R-36S-2 7/8	36	R-43S-2 3/8	43	R-71S-MPB	71		
R-32S-1 7/8	32	R-38S-MPB	38	R-43S-2 7/8	43	R-71S-M	71		
R-32S-2 1/8	32	R-38S-1 7/8	38	R-45S-MPB	45	R-75S-MPB	75		
R-32S-2 3/8	32	R-38S-2 1/8	38	R-45S-F	45	R-75S-M	75		

Sprockets with MPB (Minimum Plain Bore) are specified when the sprocket does not allow room for a bushing that will handle the maximum load.