

Aerospace Material Handling for Protecting Airplane Engines



Shaft Carts



Circular Floats



Pushers



Vane & Blade Holders



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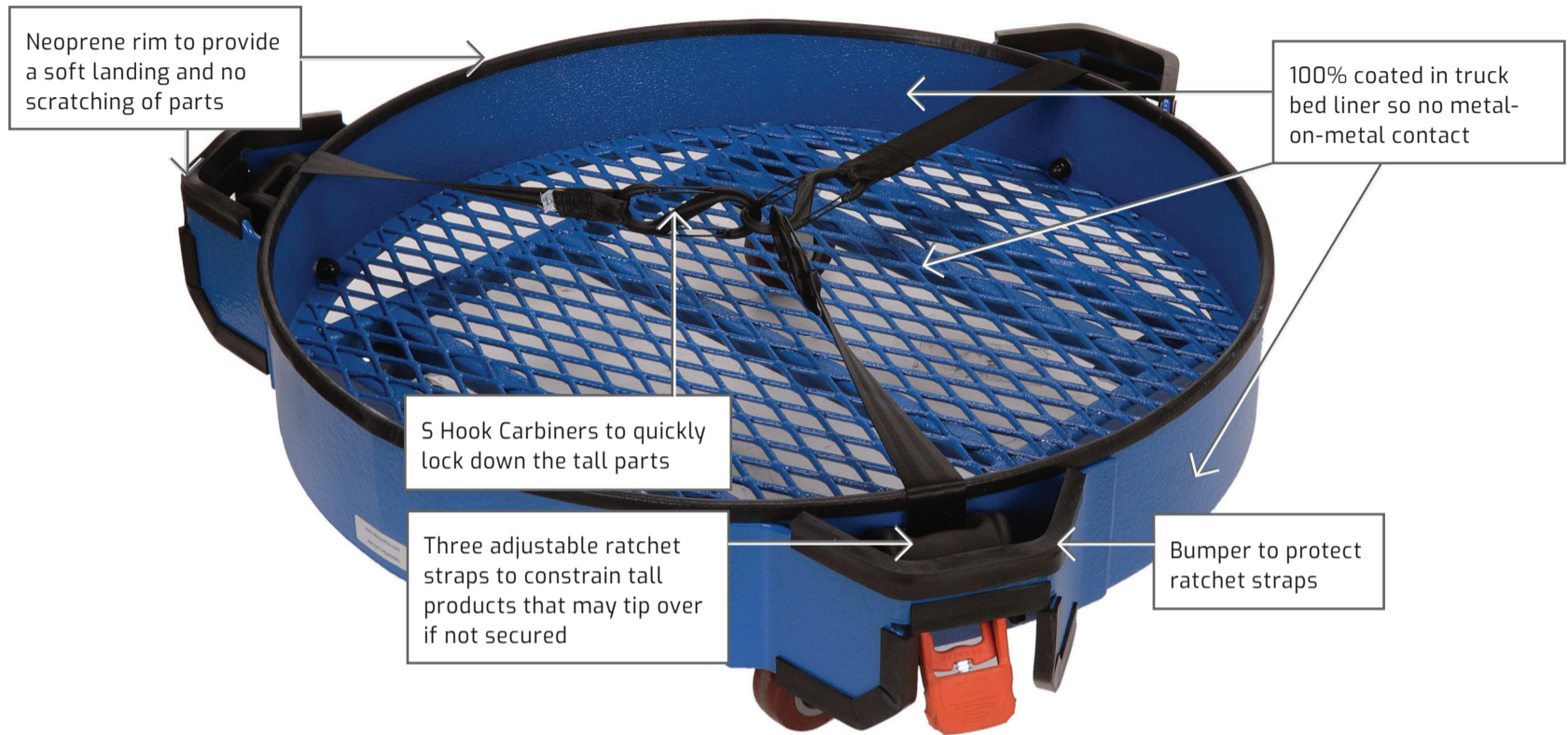
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Marlin Steel Circular Floats

Aerospace Material Handling

USA Patent Number 10,286,943

European Patent Application No. 19 170 823.9



The Marlin Steel Circular Floats provide these benefits:

No metal-to-metal contact – protection on the rim and base prevent part scratching and reduce rework.

Expanded metal base provides openings for bolts and debris to exit out the bottom reducing the chance of screws scratching turbine and requiring rework.

Adjustable straps to hold the engine in place securely as it migrates through the plant – less chance of toppling over.

Solid casters hold and move up to 600lbs of GE, Pratt Whitney, or Rolls Royce systems safely through the facility.

Perimeter steel wall to protect inadvertent collisions from other objects – less rework and scrap.

USA Made – great quality so you know your products are secure.



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Additional benefits for the Marlin Steel Circular Floats:

No Scratching Parts

- 100% coated in truck bedliner so it will not mar the finish of your parts.
- Eliminates metal-to-metal contact.
- Neoprene Foam Loctite to the top of the circumference of the protective side wall and the bumper guards so resting parts on the top will not inadvertently harm the part.
- Expanded metal base so debris, dirt, metal shavings and fasteners exit out of the base so your parts will not scratch and abrade delicate parts.

Part Safety

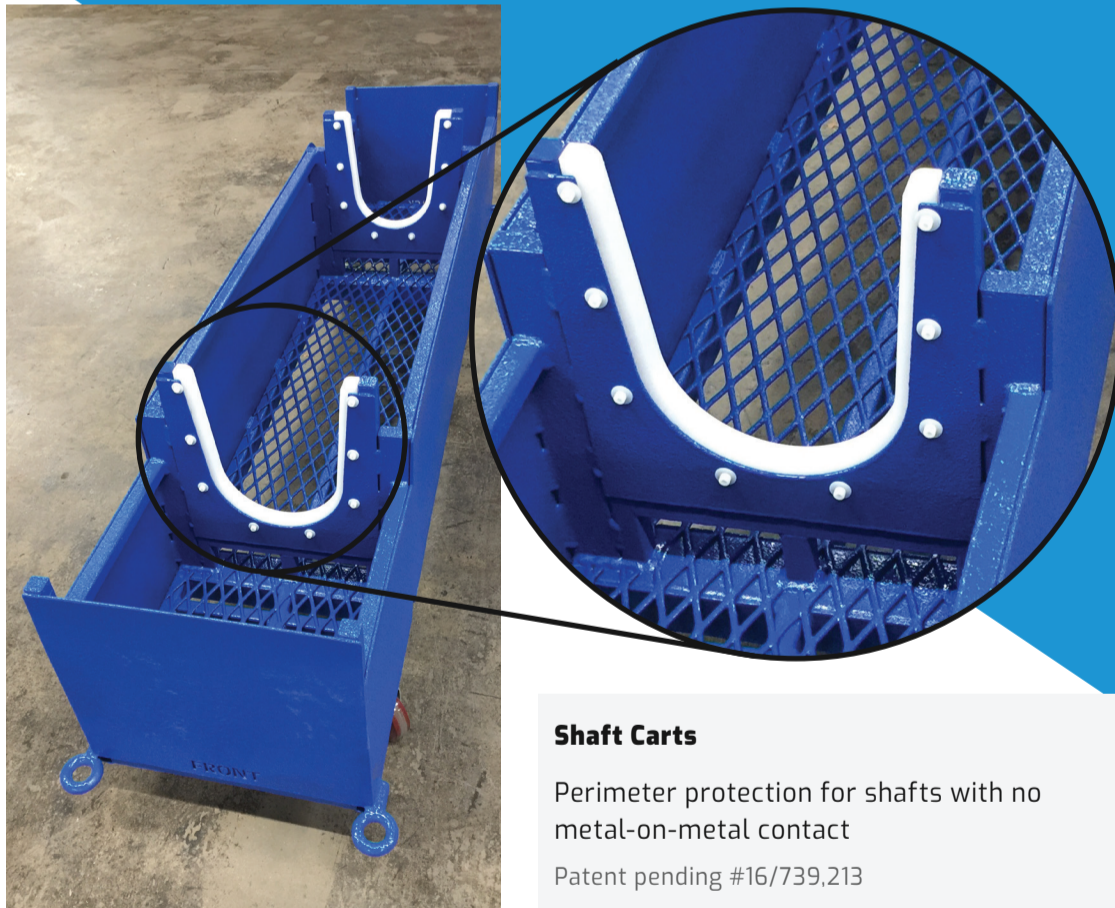
- Adjustable ratchet straps to constrain tall parts so they do not lean over and fall out.
- Achieves heavy load capacity (600lbs) through its tubular design.
- Thick steel side wall protects parts from getting hit on the side from forklifts or adjacent obstructions.
- Avoids side strike damage using high side walls.

Employee Safety

- Superior caster design creates easy movement (<30 lbs push/pull force is easy on employee's backs and makes OSHA happy).
- Foam envelopes the top of the sheet metal walls and around the bottom, protecting hands.
- Easy gliding casters make for a smooth and easy ride as employees move products.
- Higher productivity from operator accessible assembly parts.

Easy To Transport Parts

- Forklift friendly.
- Pallet jack friendly.
- "Marlin Pusher" moves float around seamlessly with adjustable handle for short or tall employees to operate.
- Pusher is sold separately.



Shaft Carts

Perimeter protection for shafts with no metal-on-metal contact

Patent pending #16/739,213

Unique Customer Benefits

- Reduces shaft damage potential from Delrin saddles.
- Eliminates metal-to-metal contact with self-contained design.
- High side walls avoid side strike damage.
- Versatile transport by fork truck, pallet jack, tug or pusher.
- Simple operator movement from high quality casters.
- Increased workstation productivity from accessible shaft.
- Stackable with product.
- Optional - door opens on ends to allow inspection and chrome painting.
- Windows to see if cart loaded with shaft.
- Holds other client parts to comprise an assembly kit - not just the shaft.
- Truck bedliner helps reduce part damage - no metal-on-metal contact.



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Description	Coating - 100% No Metal on Metal Contact	Diameter	Left to Right	Front to Back	Height	Ratchet Straps	Marlin Part #
Circular Float	Truck Bed Liner ASTM D4060	36in / 914mm	N/A	N/A	11.8in / 300mm	Included	2320003
Circular Float	Truck Bed Liner ASTM D4060	48in / 1219mm	N/A	N/A	11.8in / 300mm	Included	2320028
Circular Float	Truck Bed Liner ASTM D4060	60in / 1524mm	N/A	N/A	12.8in / 325mm	Included	2320004
Pusher	Works with any Float	N/A	N/A	N/A	N/A	N/A	2320006
Storage Rack Holds Five Circular Floats	Blue Powder Coat	N/A	70in / 1778mm	70in / 1778mm	70in / 1778mm	N/A	2320061
Shaft Cart	Truck Bed Liner ASTM D4060	N/A	85in / 2159mm	20.8in / 528mm	24.9in / 632mm	N/A	2320095
Rectangular Float	Truck Bed Liner ASTM D4060	Welcome Custom	Welcome Custom	Welcome Custom	Welcome Custom	Included	Welcome Custom



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Rolls Royce

Marlin Steel also engineers and manufactures Vane & Blade Baskets



Engine	Description	Vane Basket or Blade Basket?	# of Vanes or Blades Held in Basket	Lid Included	Material	Finish	Optional Heat Treat Rack Available	Optional Mobile Cart Available	Marlin Basket Part #
Rolls Royce	Stage 1 Rotor IP Blade	Blade	35	Yes	Stainless Steel 304	Natural	Yes	Yes	2320013
Rolls Royce	Stage 2 Rotor IP Trent 1000	Blade	35	Yes	Stainless Steel 304	Natural	Yes	Yes	2320014
Rolls Royce	CFM LPT4 Vane	Vane	12	No	Stainless Steel 304	Natural	Yes	Yes	2320015
Rolls Royce	PW2 LPT3 Vane	Vane	15	No	Stainless Steel 304	Natural	Yes	Yes	2320016
Rolls Royce	PW2 LPT4 Vane	Vane	15	No	Stainless Steel 304	Natural	Yes	Yes	2320016
Rolls Royce	PW2 LPT4 Blade	Blade	35	No	Stainless Steel 304	Natural	Yes	Yes	2320017
Rolls Royce	CFM LPT3 Vane	Vane	12	No	Stainless Steel 304	Natural	Yes	Yes	2320019
Rolls Royce	PW2 LPT3 Blade	Blade	35	No	Stainless Steel 304	Natural	Yes	Yes	2320020
Rolls Royce	PW2 LPT4 Vane	Vane	35	No	Stainless Steel 304	Natural	Yes	Yes	2320021
Rolls Royce	IPC VSV Stator Vane First	Vane	70	Yes	Stainless Steel 304	Natural	Yes	Yes	2320063
Rolls Royce	IPC VSV Stator Vane Second	Vane	80	Yes	Stainless Steel 304	Natural	Yes	Yes	2320064
Rolls Royce	IPC VSV Stator Vane Third	Vane	98	Yes	Stainless Steel 304	Natural	Yes	Yes	2320065
Rolls Royce	IPC VSV Stator Vane Fourth	Vane	96	Yes	Stainless Steel 304	Natural	Yes	Yes	2320066
Rolls Royce	IPC VSV Stator Vane Fifth	Vane	108	Yes	Stainless Steel 304	Natural	Yes	Yes	2320067
Rolls Royce	IPC VSV Stator Vane Sixth	Vane	128	Yes	Stainless Steel 304	Natural	Yes	Yes	2320068
Rolls Royce	IPC VSV Stator Vane Seventh	Vane	152	Yes	Stainless Steel 304	Natural	Yes	Yes	2320069
Rolls Royce	IPC VSV Stator Vane Eighth	Vane	128	Yes	Stainless Steel 304	Natural	Yes	Yes	2320070
Rolls Royce	BR 715 8-1 LPTV	Vane	14	Yes	Stainless Steel 304	Natural	Yes	Yes	2320082
Rolls Royce	BR 715 8-2 LPTV	Vane	7 or 8	Yes	Stainless Steel 304	Natural	Yes	Yes	2320083



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Rolls Royce (Cont.)

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Engine	Description	Vane Basket or Blade Basket?	# of Vanes or Blades Held in Basket	Lid Included	Material	Finish	Optional Heat Treat Rack Available	Optional Mobile Cart Available	Marlin Basket Part #
Rolls Royce	BR 715 8-3 LPTV	Vane	13	Yes	Stainless Steel 304	Natural	Yes	Yes	2320084
Rolls Royce	BR 715 HPC 1st Stage	Blade	31	Yes	Stainless Steel 304	Natural	Yes	Yes	2320085
Rolls Royce	BR 715 HPC 2nd Stage	Blade	38	Yes	Stainless Steel 304	Natural	Yes	Yes	2320086
Rolls Royce	BR 715 HPC 3rd Stage	Blade	60	Yes	Stainless Steel 304	Natural	Yes	Yes	2320087
Rolls Royce	BR 715 HPC 4th-10th Stage	Blade	79, 93, 87, 89, 85,78,71	Yes	Stainless Steel 304	Natural	Yes	Yes	2320088
Rolls Royce	Stator Vane Inlet Guide Vane	Vane	40	Yes	Stainless Steel 304	Natural	Yes	Yes	2320089
Rolls Royce	Stator Vane 1nd Stage	Vane	32	Yes	Stainless Steel 304	Natural	Yes	Yes	2320090
Rolls Royce	Stator Vane 2nd Stage	Vane	50	Yes	Stainless Steel 304	Natural	Yes	Yes	2320091
Rolls Royce	Stator Vane 3rd Stage	Vane	64	Yes	Stainless Steel 304	Natural	Yes	Yes	2320092
Rolls Royce	BR 715 HPC Stator Vane 4th-9th Stage	Vane	84, 88, 92, 104, 100, 108	Yes	Stainless Steel 304	Natural	Yes	Yes	2320093
Rolls Royce	BR 715 8-1 LPTB	Blade	38	Yes	Stainless Steel 304	Natural	Yes	Yes	2320099
Rolls Royce	BR 715 8-2 LPTB	Blade	37	Yes	Stainless Steel 304	Natural	Yes	Yes	2320100
Rolls Royce	BR 715 8-3 LPTB	Blade	37	Yes	Stainless Steel 304	Natural	Yes	Yes	2320101
Rolls Royce	BR 715 HPC 4th Stage	Blade	79	Yes	Stainless Steel 304	Natural	Yes	Yes	2320107
Rolls Royce	BR 715 HPC 5th Stage	Blade	93	Yes	Stainless Steel 304	Natural	Yes	Yes	2320108
Rolls Royce	BR 715 HPC 6th Stage	Blade	87	Yes	Stainless Steel 304	Natural	Yes	Yes	2320109
Rolls Royce	BR 715 HPC 7th Stage	Blade	89	Yes	Stainless Steel 304	Natural	Yes	Yes	2320110
Rolls Royce	BR 715 HPC 8th Stage	Blade	85	Yes	Stainless Steel 304	Natural	Yes	Yes	2320111



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Rolls Royce (Cont.)

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Engine	Description	Vane Basket or Blade Basket?	# of Vanes or Blades Held in Basket	Lid Included	Material	Finish	Optional Heat Treat Rack Available	Optional Mobile Cart Available	Marlin Basket Part #
Rolls Royce	BR 715 HPC 9th Stage	Blade	78	Yes	Stainless Steel 304	Natural	Yes	Yes	2320112
Rolls Royce	BR 715 HPC 10th Stage	Blade	71	Yes	Stainless Steel 304	Natural	Yes	Yes	2320113
Rolls Royce	BR 715 HPC Stator Vane 4th Stage	Vane	84	Yes	Stainless Steel 305	Natural	Yes	Yes	2320139
Rolls Royce	BR 715 HPC Stator Vane 5th Stage	Vane	88	Yes	Stainless Steel 306	Natural	Yes	Yes	2320140
Rolls Royce	BR 715 HPC Stator Vane 6th Stage	Vane	92	Yes	Stainless Steel 307	Natural	Yes	Yes	2320141
Rolls Royce	BR 715 HPC Stator Vane 7th Stage	Vane	104	Yes	Stainless Steel 308	Natural	Yes	Yes	2320142
Rolls Royce	BR 715 HPC Stator Vane 8th Stage	Vane	100	Yes	Stainless Steel 309	Natural	Yes	Yes	2320143
Rolls Royce	BR 715 HPC Stator Vane 9th Stage	Vane	108	Yes	Stainless Steel 310	Natural	Yes	Yes	2320144
Rolls Royce	PW2000 LPT5 Vane	Vane	13	No	Stainless Steel 305	Natural	Yes	Yes	2320171
Rolls Royce	PW2000 LPT6 Vane	Vane	12	No	Stainless Steel 306	Natural	Yes	Yes	2320172
Rolls Royce	PW2000 LPT7 Vane	Vane	12	No	Stainless Steel 307	Natural	Yes	Yes	2320173
Rolls Royce	PW2000 LPT5 BLADE	Blade	34	No	Stainless Steel 308	Natural	Yes	Yes	2320175
Rolls Royce	PW2000 LPT6 Blade	Blade	30	No	Stainless Steel 309	Natural	Yes	Yes	2320176
Rolls Royce	PW2000 LPT7 Blade	Blade	32	No	Stainless Steel 310	Natural	Yes	Yes	2320177
Rolls Royce	Shroud Heat Tint Holds P/N 8A2868	Blade	16	No	Stainless Steel 304	Natural	Yes	Yes	2320179
Rolls Royce	Rolls Royce Trent Blade (XWB Blade)	Blade	2	No	Stainless Steel 304	Natural	Yes	Yes	2320190



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CFM

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Engine	Description	Vane Basket or Blade Basket?	# of Vanes or Blades Held in Basket	Lid Included	Material	Finish	Optional Heat Treat Rack Available	Optional Mobile Cart Available	Marlin Basket Part #
CFM	CFM 56LPT Blade Basket at 3rd or 4th stage	Blade	82 of A5-3 or A5-4	No	Stainless Steel 304	Natural	Yes	Yes	2320102
CFM	CFM 34-3 & 8	Blade	N/A	No	Stainless Steel 304	Natural	Yes	Yes	2320103
CFM	CFM 56-7 Basket	Blade	24	No	Stainless Steel 304	Natural	Yes	Yes	2320104
CFM	CFM 56-7 Blade (HPC Stage 1)	Blade	38	Yes	Stainless Steel 304	Natural	Yes	Yes	2320116
CFM	CFM 56-7 Blade (HPC Stage 2)	Blade	53	Yes	Stainless Steel 304	Natural	Yes	Yes	2320117
CFM	CFM 56-7 Blade (HPC Stage 3)	Blade	60	Yes	Stainless Steel 304	Natural	Yes	Yes	2320118
CFM	CFM 56-7 Blade (HPC Stage 4)	Blade	68	Yes	Stainless Steel 304	Natural	Yes	Yes	2320119
CFM	CFM 56-7 Blade (HPC Stage 5)	Blade	75	Yes	Stainless Steel 304	Natural	Yes	Yes	2320120
CFM	CFM 56-7 Blade (HPC Stage 6)	Blade	82	Yes	Stainless Steel 304	Natural	Yes	Yes	2320121
CFM	CFM 56-7 Blade (HPC Stage 7)	Blade	82	Yes	Stainless Steel 304	Natural	Yes	Yes	2320122
CFM	CFM 56-7 Blade (HPC Stage 8)	Blade	80	Yes	Stainless Steel 304	Natural	Yes	Yes	2320123
CFM	CFM 56-7 Blade (HPC Stage 9)	Blade	76	Yes	Stainless Steel 304	Natural	Yes	Yes	2320124
CFM	CFM 56LPT Blade Basket to hold CFM 1st Stage	Blade	162	No	Stainless Steel 304	Natural	Yes	Yes	2320180
CFM	CFM 56LPT Blade Basket to hold CFM 2nd Stage	Blade	150	No	Stainless Steel 304	Natural	Yes	Yes	2320181
CFM	CFM 56-7 Blade (LPC Stage 1)	Blade	74	Yes	Stainless Steel 304	Natural	Yes	Yes	2320182
CFM	CFM 56-7 Blade (LPC Stage 2)	Blade	78	Yes	Stainless Steel 304	Natural	Yes	Yes	2320183
CFM	CFM 56-7 Blade (LPC Stage 3)	Blade	74	Yes	Stainless Steel 304	Natural	Yes	Yes	2320184



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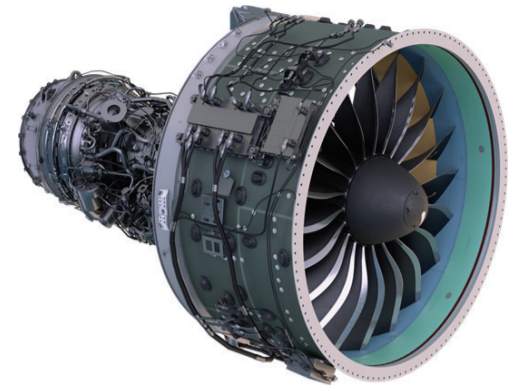
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Pratt & Whitney

Marlin Steel also engineers and manufactures Vane & Blade Baskets



Engine	Description	Vane Basket or Blade Basket?	# of Vanes or Blades Held in Basket	Lid Included	Material	Finish	Optional Heat Treat Rack Available	Optional Mobile Cart Available	Marlin Basket Part #
Pratt & Whitney	6-0ViGV	Vane	56	No	Stainless Steel 304	Natural	Yes	Yes	1354003
Pratt & Whitney	6-6HPCV	Vane	56	No	Stainless Steel 304	Natural	Yes	Yes	1354004
Pratt & Whitney	6-7HPCV	Vane	56	No	Stainless Steel 304	Natural	Yes	Yes	1354005
Pratt & Whitney	6-8HPCV	Vane	56	No	Stainless Steel 304	Natural	Yes	Yes	1354006
Pratt & Whitney	6-9HPCV	Vane	63	No	Stainless Steel 304	Natural	Yes	Yes	1354007
Pratt & Whitney	PW4000 HPC Blade Basket (Stage 6)	Blade	51	No	Stainless Steel 304	Natural	Yes	Yes	2320128
Pratt & Whitney	Pw4000 HPC Blade Basket (Stage 7)	Blade	56	No	Stainless Steel 304	Natural	Yes	Yes	2320129
Pratt & Whitney	Pw4000 HPC Blade Basket (Stage 8)	Blade	53	No	Stainless Steel 304	Natural	Yes	Yes	2320130
Pratt & Whitney	Pw4000 HPC Blade Basket (Stage 9)	Blade	66	No	Stainless Steel 304	Natural	Yes	Yes	2320131
Pratt & Whitney	Pw4000 HPC Blade Basket (Stage 10)	Blade	62	No	Stainless Steel 304	Natural	Yes	Yes	2320132
Pratt & Whitney	Pw4000 HPC Blade Basket (Stage 11)	Blade	68	No	Stainless Steel 304	Natural	Yes	Yes	2320133
Pratt & Whitney	Pw4000 HPC Blade Basket (Stage 12)	Blade	72	No	Stainless Steel 304	Natural	Yes	Yes	2320134
Pratt & Whitney	Pw4000 HPC Blade Basket (Stage 13)	Blade	78	No	Stainless Steel 304	Natural	Yes	Yes	2320135
Pratt & Whitney	Pw4000 HPC Blade Basket (Stage 14)	Blade	76	No	Stainless Steel 304	Natural	Yes	Yes	2320136
Pratt & Whitney	Pw4000 HPC Blade Basket (Stage 15)	Blade	70	No	Stainless Steel 304	Natural	Yes	Yes	2320137
Pratt & Whitney	Stage 1 Outer Air Seal Support Basket	Blade	13	Yes	Stainless Steel 304	Natural	Yes	Yes	2320154



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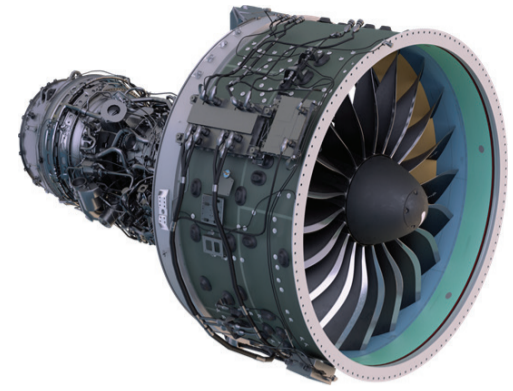
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Pratt & Whitney (Cont.)

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Pratt & Whitney	Stage 2 Support of Pratt Whitney	Blade	13	Yes	Stainless Steel 304	Natural	Yes	Yes	2320155
Pratt & Whitney	Stage 1 Outer Air Seal Basket	Blade	26	Yes	Stainless Steel 304	Natural	Yes	Yes	2320156
Pratt & Whitney	Stage 2 Outer Air Seal Basket	Blade	26	Yes	Stainless Steel 304	Natural	Yes	Yes	2320157
Pratt & Whitney	Stage 1 Pratt Whitney	Blade	45	Yes	Stainless Steel 304	Natural	Yes	Yes	2320158
Pratt & Whitney	Stage 2 Pratt Whitney	Blade	46	Yes	Stainless Steel 304	Natural	Yes	Yes	2320159
Pratt & Whitney	PW4000 LPC Blade Basket (Ao-2FAN)	Blade	94	No	Stainless Steel 304	Natural	Yes	Yes	2320185
Pratt & Whitney	PW4000 LPC Blade Basket (AO-2LPCB)	Blade	88	No	Stainless Steel 304	Natural	Yes	Yes	2320186
Pratt & Whitney	PW4000 LPC Blade Basket (AO-3LPCB)	Blade	72	No	Stainless Steel 304	Natural	Yes	Yes	2320187
Pratt & Whitney	PW4000 LPC Blade Basket (AO-4LPCB)	Blade	66	No	Stainless Steel 304	Natural	Yes	Yes	2320188
Pratt & Whitney	PW4000 LPC Blade Basket (AO-5LPCB)	Blade	40	No	Stainless Steel 304	Natural	Yes	Yes	2320189



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