

# Comparison of Cobra and Raptor Buckles 1.75 inch (45mm) Models



Images shown to scale



AustriAlpin  
Cobra <sup>™</sup>

ADF / JBC  
Raptor

<b>Published MBS - loop config.</b>	> 18 kN / 4000 lb	> 18 kN / 4000 lb
<b>Published MBS - frame tested</b>	> 9 kN / 2000 lb	> 9 kN / 2000 lb
<b>St Deviation of Test Data</b>	3 sigma. Multiple test samples	None. Only one sample tested
<b>Ongoing QA testing</b>	Samples tested from each production batch	None.
<b>Prod. Processes</b>	CNC machined / Solid block	Stamped / Sandwiched plates
<b>Edge Profiling</b>	Softened edges	Sharp / rough edges
<b>Riveting</b>	Flush profile / Fixed	Raised profile / Rivets not fixed (move up and down in their pilot holes)
<b>Surface Finish</b>	Electro - Anodized (high durability)	Surface Coated (moderate durability)
<b>Adjuster Bar</b>	Internal Frame / Stainless Steel / soft edges	External Frame / Aluminum / sharp edges
<b>Adjuster Slip Threshold</b>	1900lb (Type B webbing)	370 lb (Type B webbing)
<b>Releases</b>	Machined brass / soft edges	Stamped / sharp edges
<b>Qual. Mgmt Sys.</b>	EN ISO (PSVSA §15-16)	no 3rd party QA system known
<b>3rd Party Testing</b>	Yes. Per EN362, ANSI Z359.1 guidelines	Yes. Per NFPA 1983
<b>Material Comp.</b>	7075 aluminum alloy	aluminum alloy
<b>Dimensions:</b>		
<b>Width</b>	57mm	65mm
<b>Thickness</b>	10mm	12.5mm
<b>Weight</b>	72 grams	76 grams
<b>Open Under Load?</b>	NO	Unlikely but possible with leverage
<b>Intercompatability</b>	Yes. All sizes have inter-compatable unions	None
<b>Foreign Matter Trap Zones</b>	None. Females have "2 way" flush port. No threat of release malfunction due to clogging	Yes. Females are "one way" traps. Threat of release malfunction due to clogging

# Comparison of Cobra and Raptor Buckles 1.5 inch (38mm) Models



Images shown to scale



AustriAlpin  
Cobra <sup>™</sup>

ADF / JBC  
Raptor

<b>Published MBS - loop config.</b>	> 18 kN / 4000 lb (multiple test samples)	> 18 kN / 4000 lb (single test sample)
<b>Published MBS - frame tested</b>	> 9 kN / 2000 lb	> 9 kN / 2000 lb
<b>St Deviation of Test Data</b>	3 sigma. Multiple test samples	None. Only one sample tested
<b>Ongoing QA testing</b>	Samples tested from each production batch	None.
<b>Prod. Processes</b>	CNC machined / Solid block	Stamped / Sandwiched plates
<b>Edge Profiling</b>	Softened edges	Sharp / rough edges
<b>Riveting</b>	Flush profile / Fixed	Raised profile / Rivets not fixed (move up and down in their pilot holes)
<b>Surface Finish</b>	Electro - Anodized (high durability)	Surface Coated (moderate durability)
<b>Adjuster Bar</b>	Internal Frame / Stainless Steel / soft edges	External Frame / Aluminum / sharp edges
<b>Adjuster Slip Threshold</b>	1900lb (Type B webbing)	370 lb (Type B webbing)
<b>Releases</b>	Machined brass / soft edges	Stamped / sharp edges
<b>Qual. Mgmt Sys.</b>	EN ISO (PSVSA §15-16)	no 3rd party QA system known
<b>3rd Party Testing</b>	Yes. Per EN362, ANSI Z359.1 guidelines	Yes. Per NFPA 1983
<b>Material Comp.</b>	7075 aluminum alloy	aluminum alloy
<b>Thickness</b>	10mm	12.5mm
<b>Weight</b>	66 grams	74 grams
<b>Open Under Load?</b>	NO	Unlikely but possible with leverage
<b>Intercompatability</b>	Yes. All sizes have inter-compatable unions	None
<b>Foreign Matter Trap Zones</b>	None. Females have "2 way" flush port. No threat of release malfunction due to clogging	Yes. Females are "one way" traps. Threat of release malfunction due to clogging

# Comparison of Cobra and Raptor Buckles 1 inch (25mm) Models



Images shown to scale



AustriAlpin  
Cobra <sup>™</sup>

ADF / JBC  
Raptor

<b>Published MBS - loop config.</b>	> 18 kN / 4000 lb	= <b>or</b> < 15.5 kN / 3480lb
<b>Published MBS - frame tested</b>	> 9 kN / 2000 lb	= <b>or</b> < 7.7 kN / 1740lb
<b>St Deviation of Test Data</b>	3 sigma. Multiple test samples	None. Only one sample tested
<b>Ongoing QA testing</b>	Samples tested from each production batch	None.
<b>Prod. Processes</b>	CNC machined / Solid block	Stamped / Sandwiched plates
<b>Edge Profiling</b>	Softened edges	Sharp / rough edges
<b>Riveting</b>	Flush profile / Fixed	Raised profile / Rivets not fixed (move up and down in their pilot holes)
<b>Surface Finish</b>	Electro - Anodized (high durability)	Surface Coated (moderate durability)
<b>Adjuster Bar</b>	Internal Frame / Stainless Steel / soft edges	External Frame / Aluminum / sharp edges
<b>Adjuster Slip Threshold</b>	1900lb (Type B webbing)	370 lb (Type B webbing)
<b>Releases</b>	Machined brass / soft edges	Stamped / sharp edges
<b>Qual. Mgmt Sys.</b>	EN ISO (PSVSA §15-16)	no 3rd party QA system known
<b>3rd Party Testing</b>	Yes. Per EN362, ANSI Z359.1 guidelines	Yes. Per NFPA 1983
<b>Material Comp.</b>	7075 aluminum alloy	aluminum alloy
<b>Width</b>	46mm	47mm
<b>Thickness</b>	10mm	12.5mm
<b>Weight</b>	53 grams	50 grams
<b>Open Under Load?</b>	NO	Unlikely but possible with leverage
<b>Intercompatability</b>	Yes. All sizes have inter-compatabile unions	None
<b>Foreign Matter Trap Zones</b>	None. Females have "2 way" flush port. No threat of release malfunction due to clogging	Yes. Females are "one way" traps. Threat of release malfunction due to clogging