# Hoyt HBX Cam

Charts show stop size and stop position affects on let off % and draw length
Charts are a reference for selecting stop sizes Data is from Ventum 30 @ 70 lbs.
"in" "out" = stop position on module

**Always exerxise caution when changing let-off**

**When installing stops HI and HJ do initial test on draw board**

| **Module in "A" Position** (long draw module) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Let off % | N/A | 92% | 90% | 87% | 85% | 83% | 81% | 79% | 77% | 73% | 72% | 70% |
| Draw length change | N/A | +3/16'' | +1/8'' | +3/32'' | 0 '' | -1/16'' | -1/8'' | -3/16'' | -1/4'' | -5/16'' | -13/32'' | -15/32'' |
| HBX Factory Stops | | | | | ✓ **in** | | ✓ **out** | | | | | |
| **HF** Lucky Stops | | | | | **F in** | | **F out** | | | | | |
| **HS** Lucky Stops | | | | | | **S in** | | **S out** | | | | |
| **HI** Lucky Stops | N/A | | **I out** | | | | | | | | | |
| **HJ** Lucky Stops | | **J in** | | **J out** | | | | | | | | |
| **HK** Lucky Stops | | | | | | | | | **K in** | | **K out** | |
| **HL** Lucky Stops | | | | | | | | | | **L in** | | **L out** |

| **Module in "B" Position** (long draw module) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Let off % | N/A | 93% | 89% | 89% | 86% | 84% | 82% | 80% | 79% | 77% | 75% | 73% |
| Draw length change | N/A | +3/16'' | +1/8'' | +1/16'' | 0 '' | -1/16'' | -5/32'' | -7/32'' | -5/16'' | -3/8'' | -7/16'' | -17/32'' |
| HBX Factory Stops | | | | | ✓ **in** | | ✓ **out** | | | | | |
| **HF** Lucky Stops | | | | | **F in** | | **F out** | | | | | |
| **HS** Lucky Stops | | | | | | **S in** | | **S out** | | | | |
| **HI** Lucky Stops | N/A | | **I out** | | | | | | | | | |
| **HJ** Lucky Stops | | **J in** | | **J out** | | | | | | | | |
| **HK** Lucky Stops | | | | | | | | | **K in** | | **K out** | |
| **HL** Lucky Stops | | | | | | | | | | **L in** | | **L out** |

| **Module in "C" Position** (long draw module) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Let off % | N/A | 94% | 92% | 90% | 88% | 86% | 84% | 83% | 81% | 79% | 77% | 75% |
| Draw length change | N/A | +5/32'' | +1/8'' | +1/16'' | 0 '' | -3/32'' | -5/32'' | -7/32'' | -5/16'' | -13/32'' | -1/2'' | -9/16'' |
| HBX Factory Stops | | | | | ✓ **in** | | ✓ **out** | | | | | |
| **HF** Lucky Stops | | | | | **F in** | | **F out** | | | | | |
| **HS** Lucky Stops | | | | | | **S in** | | **S out** | | | | |
| **HI** Lucky Stops | N/A | | **I out** | | | | | | | | | |
| **HJ** Lucky Stops | | **J in** | | **J out** | | | | | | | | |
| **HK** Lucky Stops | | | | | | | | | **K in** | | **K out** | |
| **HL** Lucky Stops | | | | | | | | | | **L in** | | **L out** |

| **Module in "D" Position** (long draw module) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Let off % | N/A | 94% | 93% | 91% | 89% | 87% | 85% | 83% | 81% | 80% | 78% | 77% |
| Draw length change | N/A | +3/16'' | +5/32'' | +3/32'' | 0 '' | -3/32'' | -5/32'' | -1/4'' | -5/16'' | -13/32'' | -1/2'' | -19/32'' |
| HBX Factory Stops | | | | | ✓ **in** | | ✓ **out** | | | | | |
| **HF** Lucky Stops | | | | | **F in** | | **F out** | | | | | |
| **HS** Lucky Stops | | | | | | **S in** | | **S out** | | | | |
| **HI** Lucky Stops | N/A | | **I out** | | | | | | | | | |
| **HJ** Lucky Stops | | **J in** | | **J out** | | | | | | | | |
| **HK** Lucky Stops | | | | | | | | | **K in** | | **K out** | |
| **HL** Lucky Stops | | | | | | | | | | **L in** | | **L out** |

| **Module in "E" Position** (Short draw module) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Let off % | N/A | 91% | 89% | 87% | 84% | 81% | 79% | 77% | 74% | 71% | 70% | 67% |
| Draw length change | N/A | +3/16'' | +1/8'' | +1/16'' | 0 '' | -1/16'' | -1/8'' | -3/16'' | -9/32'' | -11/32'' | -7/16'' | -1/2'' |
| HBX Factory Stops | | | | | ✓ **in** | | ✓ **out** | | | | | |
| **HF** Lucky Stops | | | | | **F in** | | **F out** | | | | | |
| **HS** Lucky Stops | | | | | | **S in** | | **S out** | | | | |
| **HI** Lucky Stops | N/A | | **I out** | | | | | | | | | |
| **HJ** Lucky Stops | | **J in** | | **J out** | | | | | | | | |
| **HK** Lucky Stops | | | | | | | | | **K in** | | **K out** | |
| **HL** Lucky Stops | | | | | | | | | | **L in** | | **L out** |

| **Module in "F" Position** (Short draw module) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Let off % | N/A | 92% | 90% | 88% | 85% | 82% | 80% | 78% | 76% | 73% | 71% | 69% |
| Draw length change | N/A | +7/32'' | +5/32'' | +3/32'' | 0 '' | -1/16'' | 1/8'' | -3/16'' | -9/32'' | -11/32'' | -7/16'' | -1/2'' |
| HBX Factory Stops | | | | | ✓ **in** | | ✓ **out** | | | | | |
| **HF** Lucky Stops | | | | | **F in** | | **F out** | | | | | |
| **HS** Lucky Stops | | | | | | **S in** | | **S out** | | | | |
| **HI** Lucky Stops | N/A | | **I out** | | | | | | | | | |
| **HJ** Lucky Stops | | **J in** | | **J out** | | | | | | | | |
| **HK** Lucky Stops | | | | | | | | | **K in** | | **K out** | |
| **HL** Lucky Stops | | | | | | | | | | **L in** | | **L out** |

| **Module in "G" Position** (Short draw module) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Let off % | N/A | 92% | 90% | 88% | 86% | 83% | 81% | 79% | 77% | 75% | 73% | 71% |
| Draw length change | N/A | +7/32'' | +5/32'' | +1/16'' | 0 '' | -1/16'' | -5/32'' | -7/32'' | -5/16'' | -3/8'' | -15/32'' | -9/16'' |
| HBX Factory Stops | | | | | ✓ **in** | | ✓ **out** | | | | | |
| **HF** Lucky Stops | | | | | **F in** | | **F out** | | | | | |
| **HS** Lucky Stops | | | | | | **S in** | | **S out** | | | | |
| **HI** Lucky Stops | N/A | | **I out** | | | | | | | | | |
| **HJ** Lucky Stops | | **J in** | | **J out** | | | | | | | | |
| **HK** Lucky Stops | | | | | | | | | **K in** | | **K out** | |
| **HL** Lucky Stops | | | | | | | | | | **L in** | | **L out** |

| **Module in "H" Position** (Short draw module) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Let off % | N/A | 92% | 91% | 89% | 86% | 84% | 82% | 80% | 78% | 76% | 74% | 72% |
| Draw length change | N/A | +1/4'' | +5/32'' | +3/32'' | 0 '' | -1/16'' | -5/32'' | 7/32'' | -11/32'' | -13/32'' | -1/2'' | -9/16'' |
| HBX Factory Stops | | | | | ✓ **in** | | ✓ **out** | | | | | |
| **HF** Lucky Stops | | | | | **F in** | | **F out** | | | | | |
| **HS** Lucky Stops | | | | | | **S in** | | **S out** | | | | |
| **HI** Lucky Stops | N/A | | **I out** | | | | | | | | | |
| **HJ** Lucky Stops | | **J in** | | **J out** | | | | | | | | |
| **HK** Lucky Stops | | | | | | | | | **K in** | | **K out** | |
| **HL** Lucky Stops | | | | | | | | | | **L in** | | **L out** |

| **Module in "J" Position** (Short draw module) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Let off % | N/A | 92% | 91% | 89% | 87% | 85% | 83% | 81% | 79% | 77% | 76% | 74% |
| Draw length change | N/A | +1/4'' | +5/32'' | +3/32'' | 0 '' | -1/16'' | 5/32'' | 1/4'' | -3/8'' | -15/32'' | -9/16'' | -5/8'' |
| HBX Factory Stops | | | | | ✓ **in** | | ✓ **out** | | | | | |
| **HF** Lucky Stops | | | | | **F in** | | **F out** | | | | | |
| **HS** Lucky Stops | | | | | | **S in** | | **S out** | | | | |
| **HI** Lucky Stops | N/A | | **I out** | | | | | | | | | |
| **HJ** Lucky Stops | | **J in** | | **J out** | | | | | | | | |
| **HK** Lucky Stops | | | | | | | | | **K in** | | **K out** | |
| **HL** Lucky Stops | | | | | | | | | | **L in** | | **L out** |

| **Module in "I" Position** (Short draw module) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Let off % | N/A | 93% | 91% | 90% | 88% | 86% | 84% | 83% | 81% | 79% | 77% | 76% |
| Draw length change | N/A | +1/4'' | +3/16'' | +3/32'' | 0 '' | -3/32'' | 3/16'' | 9/32'' | -3/8'' | -15/32'' | -9/16'' | -21/32'' |
| HBX Factory Stops | | | | | ✓ **in** | | ✓ **out** | | | | | |
| **HF** Lucky Stops | | | | | **F in** | | **F out** | | | | | |
| **HS** Lucky Stops | | | | | | **S in** | | **S out** | | | | |
| **HI** Lucky Stops | N/A | | **I out** | | | | | | | | | |
| **HJ** Lucky Stops | | **J in** | | **J out** | | | | | | | | |
| **HK** Lucky Stops | | | | | | | | | **K in** | | **K out** | |
| **HL** Lucky Stops | | | | | | | | | | **L in** | | **L out** |

| **Module in "K" Position** (Short draw module) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Let off % | N/A | 91% | 89% | 87% | 88% | 81% | 84% | 77% | 74% | 71% | 70% | 67% |
| Draw length change | N/A | +3/16'' | +1/8'' | +1/16'' | 0 '' | -1/16'' | -1/8'' | -3/16'' | -9/32'' | -11/32'' | -7/16'' | -1/2'' |
| HBX Factory Stops | | | | | ✓ **in** | | ✓ **out** | | | | | |
| **HF** Lucky Stops | | | | | **F in** | | **F out** | | | | | |
| **HS** Lucky Stops | | | | | | **S in** | | **S out** | | | | |
| **HI** Lucky Stops | N/A | | **I out** | | | | | | | | | |
| **HJ** Lucky Stops | | **J in** | | **J out** | | | | | | | | |
| **HK** Lucky Stops | | | | | | | | | **K in** | | **K out** | |
| **HL** Lucky Stops | | | | | | | | | | **L in** | | **L out** |

**How to calculate holding weight** (1-(let off % ÷ 100)) × peek draw weight = holding weight

**Example** (1-(88 ÷ 100)) X 59lbs = holding weight >>> (1-.88) X 59lbs = holding weight >>> .12 X 59lbs = 7.08 lbs.

**How to calculate let off percent** (1-(Holding weight ÷ peek draw weight)) × 100 = let off %

**Example** (1-(7.08lbs ÷ 59lbs)) × 100 = let off % >>> (1-.12) × 100 = let off % >>> .88 × 100 = 88%



Lucky Stops

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