

TC2000 Candlestick Pattern Codes

***** Basic Patterns *****

Black Candle

$C < O$

Black Closing Marubozu Candle

$H > O \text{ AND } C = L \text{ AND } O - C > 3 * \text{AVG}(\text{ABS}(O - C), 15) / 2$

Black Marubozu Candle

$H - L = O - C \text{ AND } O - C > 3 * \text{AVG}(\text{ABS}(O - C), 15) / 2$

Black Opening Marubozu Candle

$H = O \text{ AND } C > L \text{ AND } O - C > 3 * \text{AVG}(\text{ABS}(O - C), 15) / 2$

Closing Marubozu Candle

$(L = C \text{ OR } C = H) \text{ AND } H - L > \text{ABS}(O - C) \text{ AND } \text{ABS}(O - C) > 3 * \text{AVG}(\text{ABS}(O - C), 15) / 2$

Doji Candle

$20 * \text{ABS}(O - C) \leq H - L$

Long Candle

$\text{ABS}(O - C) > 3 * \text{AVG}(\text{ABS}(O - C), 15) / 2$

Long Black Candle

$O - C > 3 * \text{AVG}(\text{ABS}(O - C), 15) / 2$

Long White Candle

$C - O > 3 * \text{AVG}(\text{ABS}(O - C), 15) / 2$

Marubozu Candle

$H - L = \text{ABS}(O - C) \text{ AND } H - L > 3 * \text{AVG}(\text{ABS}(O - C), 15) / 2$

Opening Marubozu Candle

$(L = O \text{ OR } O = H) \text{ AND } H - L > \text{ABS}(O - C) \text{ AND } \text{ABS}(O - C) > 3 * \text{AVG}(\text{ABS}(O - C), 15) / 2$

Short Candle

$\text{ABS}(O - C) < \text{AVG}(\text{ABS}(O - C), 15) / 2$

Short Black Candle

$C < O \text{ AND } O - C < \text{AVG}(\text{ABS}(O - C), 15) / 2$

Short White Candle

$O < C \text{ AND } C - O < \text{AVG}(\text{ABS}(O - C), 15) / 2$

True Doji Candle

$O = C$

White Candle

$O < C$

White Closing Marubozu Candle

$H = C \text{ AND } O > L \text{ AND } C - O > 3 * \text{AVG}(\text{ABS}(O - C), 15) / 2$

White Marubozu Candle

$H - L = C - O \text{ AND } C - O > 3 * \text{AVG}(\text{ABS}(O - C), 15) / 2$

White Opening Marubozu Candle

$H > C \text{ AND } O = L \text{ AND } C - O > 3 * \text{AVG}(\text{ABS}(O - C), 15) / 2$

***** Bullish Patterns *****

Abandoned Baby

$(O2 - C2) \geq .7 * (H2 - L2)$ AND $(H2 - L2) \geq (AVGH10.2 - AVGL10.2)$ AND $(H1 < L2)$ AND $ABS(C1 - O1) \leq .05 * (H1 - L1)$
AND $(H - L) \geq (AVGH10 - AVGL10)$ AND $(C - O) \geq .7 * (H - L)$ AND $(L > H1)$

Belt Hold

$(O = MINO10)$ AND $(O < L1)$ AND $(C - O) \geq .7 * (H - L)$ AND $(H - L) \geq 1.2 * (AVGH10 - AVGL10)$ AND $(O - L) \leq .01 * (H - L)$
AND $(C \leq H1 - .5 * (H1 - L1))$ AND $(H1 > L1)$ AND $(H > L)$ AND $(C1 < C2)$ AND $(C2 < C3)$

Breakaway

$C4 < O4$ AND $ABS(C4 - O4) > .5 * (H4 - L4)$ AND $C3 < O3$ AND $H3 < L4$ AND $C2 < C3$ AND $C1 < C2$ AND $ABS(C - O) > .6 * (H - L)$ AND $C > O$ AND $C > H3$

Concealing Baby Swallow

$O3 = H3$ AND $C3 = L3$ AND $O2 = H2$ AND $C2 = L2$ AND $C1 < O1$ AND $O1 < C2$ AND $H1 > C2$ AND $O = H$ AND $C = L$ AND $H > H1$ AND $L < L1$

Doji (Dragonfly):

$ABS(O - C) \leq .02 * (H - L)$ AND $(H - C) \leq .3 * (H - L)$ AND $(H - L) \geq (AVGH10 - AVGL10)$ AND $(H > L)$ AND $(L = MINL10)$

Doji (Gravestone):

$ABS(O - C) \leq .01 * (H - L)$ AND $(H - C) \geq .95 * (H - L)$ AND $(H > L)$ AND $(L \leq L1 + .3 * (H1 - L1))$ AND $(H - L) \geq (AVGH10 - AVGL10)$

Doji Star (aka Unconfirmed Bullish Morning Doji Star)

$(O1 - C1) \geq .7 * (H1 - L1)$ AND $(H1 - L1) \geq (AVGH10.1 - AVGL10.1)$ AND $(C < C1)$ AND $(O < C1)$ AND $ABS(C - O) \leq .05 * (H - L)$ AND $(L = MINL10)$ AND $(H1 > L1)$ AND $(H > L)$

Engulfing

$(O1 > C1)$ AND $(C - O) \geq .7 * (H - L)$ AND $(C > O1)$ AND $(O < C1)$ AND $(H - L) \geq 1.2 * (AVGH10 - AVGL10)$

Hammer/Dragonfly Doji

$ABS(C - O) \leq .2 * (H - L)$ AND $ABS(O - C) \geq .1 * (H - L)$ AND $(O - L) \geq .5 * (H - L)$ AND $(C - L) \geq .5 * (H - L)$ AND $(H - O) \leq .05 * (H - L)$ OR $(H - C) \leq .05 * (H - L)$ AND $(H - L) \geq .8 * (AVGH10 - AVGL10)$ AND $(L = MINL5)$ AND $(H > L)$

Harami

$(O1 - C1) \geq .7 * (H1 - L1)$ AND $(H1 - L1) \geq (AVGH10.1 - AVGL10.1)$ AND $(C > O)$ AND $(O > C1)$ AND $(C < O1)$ AND $(C - O) \leq .6 * (O1 - C1)$

Harami Cross

$ABS(C1 - O1) > .5 * (H1 - L1)$ AND $C1 < O1$ AND $H < O1$ AND $L > C1$ AND $(C + O) / 2 - L > .4 * (H - L)$ AND $(C + O) / 2 - L < .6 * (H - L)$ AND $ABS(C - O) < .2 * (H - L)$

Homing Pigeon

$C1 < O1$ AND $ABS(C - O) \geq .6 * (H1 - L1)$ AND $ABS(C1 - O1) > .5 * (H1 - L1)$ AND $H < O1$ AND $L > C1$ AND $C < O$

Inverted Hammer

$ABS(O-C) \leq .2 * (H-L)$ AND $ABS(O-C) \geq .1 * (H-L)$ AND $(H-O) \geq .5 * (H-L)$ AND $(H-C) \geq .5 * (H-L)$ AND $(O-L) \leq .05 * (H-L)$ OR $(C-L) \leq .05 * (H-L)$ AND $(H-L) \geq .8 * (AVGH10-AVGL10)$ AND $(O \leq (H1-.5 * (H1-L1)))$ AND $(C \leq (H1-.5 * (H1-L1)))$ AND $(L=MINL5)$ AND $(H>L)$

Kicking

$O3 - C3 > .6 * (H3 - L3)$ AND $O2 - C2 > .6 * (H2 - L2)$ AND $O1 - C1 > .6 * (H1 - L1)$ AND $C3 < O3$ AND $C2 < O2$ AND $C1 < O1$ AND $C > O$ AND $O2 < C3$ AND $O1 < C2$ AND $O > O1$ AND $C - O > .6 * (H - L)$

Ladder Bottom

$O4 > C4$ AND $O3 < O4$ AND $C3 < C4$ AND $O2 < O3$ AND $C2 < C3$ AND $C1 < O1$ AND $H1 > O1$ AND $C > O$ AND $O > O1$

Mat Hold

$C4 > O4$ AND $ABS(C4 - O4) > .5 * (H4 - L4)$ AND $C3 < H4$ AND $C2 < H4$ AND $C1 < H4$ AND $C3 > L4$ AND $C2 > L4$ AND $C1 > L4$ AND $C > C4$ AND $C > O$ AND $H - L > AVGH21 - AVGL21$ AND $C2 < C3$ AND $C1 < C2$ AND $ABS(C3 - O3) \leq .75 * ABS(C4 - O4)$ AND $ABS(C2 - O2) \leq .75 * ABS(C4 - O4)$ AND $ABS(C2 - O2) \leq .75 * ABS(C4 - O4)$

Matching Low

$C1 < O1$ AND $ABS(C1 - O1) > .5 * (H1 - L1)$ AND $C < O$ AND $ABS(C / C1 - 1) < .01$

Meeting Lines

$C1 < O1$ AND $H1 - L1 > AVGH21.1 - AVGL21.1$ AND $O1 < MINL3.3$ AND $C > O$ AND $ABS(C / C1 - 1) < .01$

Morning Doji Star (Bullish Morning Star Variant)

$(O2-C2) \geq .7 * (H2-L2)$ AND $(H2-L2) \geq (AVGH10.2-AVGL10.2)$ AND $(C1 < C2)$ AND $(O1 < C2)$ AND $ABS(C1 - O1) \leq .05 * (H1-L1)$ AND $(H-L) \geq (AVGH10-AVGL10)$ AND $(C-O) \geq .7 * (H-L)$ AND $(O > C1)$ AND $(O > O1)$

Morning Star

$O2 > C2$ AND $O2 - C2 > .6 * (H2 - L2)$ AND $C2 > O1$ AND $ABS(O1 - C1) < .5 * ABS(O2 - C2)$ AND $H1 - L1 > 3 * (C1 - O1)$ AND $C > O$ AND $O > O1$ AND $O > C1$

[One White Soldier](#)

$C1 < O$ AND $O < O1$ AND $O1 < C$ AND $C1 < C2$ AND $C2 < C3$ AND $C3 < C4$

Piercing Line

$(O1 > C1)$ AND $(H1-L1) \geq (AVGH10.1-AVGL10.1)$ AND $(O < C1)$ AND $C > C1+.5*(O1-C1)$ AND $(C < O1)$

Rising Three Method:

$(C4-O4) \geq .7 * (H4-L4)$ AND $(H4-L4) \geq (AVGH20-AVGL20)$ AND $(H4=MAXH10.4)$ AND $(C3 < C4)$ AND $(C3 \geq O4+.5 * (H4-L4))$ AND $(O2 < O3)$ AND $(C2 < O3)$ AND $(O2 < C3)$ OR $(C2 < C3)$ AND $(O1 < O2)$ OR $(O1 < C2)$ AND $(C1 < O2)$ AND $(C1 < C2)$ AND $(C1 > O4)$ AND $(O > O4)$ AND $O \leq L4+.6 * (H4-L4)$ AND $(C > C4)$

Separating Lines

$C1 < O1$ AND $C > O$ AND $ABS(O / O1 - 1) < .01$

Side by Side White Lines

$C2 > O2$ AND $C1 > O1$ AND $L1 > H2$ AND $ABS(C / C1 - 1) < .1$ AND $ABS(ABS(C - O) / ABS(C1 - O1) - 1) < .15$

Stick Sandwich

$C2 < O2 \text{ AND } C1 > O1 \text{ AND } L1 > C2 \text{ AND } C < O \text{ AND } ABS(C / C2 - 1) < .02$

Three Inside Up (aka Confirmed Bullish Harami)

$(O2 - C2) \geq .7 * (H2 - L2) \text{ AND } (H2 - L2) \geq (AVGH10.2 - AVGL10.2) \text{ AND } (C1 > O1) \text{ AND } (O1 > C2) \text{ AND } (C1 < O2) \text{ AND } (C1 - O1) \leq .6 * (O2 - C2) \text{ AND } (O > O1) \text{ AND } (O < C1) \text{ AND } (C > C1) \text{ AND } (C - O) \geq .7 * (H - L)$

Three Line Strike

$C2 > C3 \text{ AND } C1 > C2 \text{ AND } H3 - L3 > AVGH21.3 - AVGL21.3 \text{ AND } H2 - L2 > AVGH21.2 - AVGL21.2 \text{ AND } H1 - L1 > AVGH21.1 - AVGL21.1 \text{ AND } O > O3 \text{ AND } C < O3$

Three Outside Up (aka Confirmed Bullish Engulfing)

$(O2 > C2) \text{ AND } (C1 - O1) \geq .7 * (H1 - L1) \text{ AND } (C1 > O2) \text{ AND } (O1 < C2) \text{ AND } (H1 - L1) \geq 1.2 * (AVGH10.1 - AVGL10.1) \text{ AND } (O > O1) \text{ AND } (O < C1) \text{ AND } (C > C1) \text{ AND } (C - O) \geq .7 * (H - L)$

[Three Stars in the South](#)

$L2 < L1 \text{ AND } L1 \leq L \text{ AND } L = C \text{ AND } (C < O \text{ OR } L = H) \text{ AND } O = H \text{ AND } H \leq H1 \text{ AND } C1 < O1 \text{ AND } O1 - C1 < O2 - C2 \text{ AND } H1 - L1 < H2 - L2 \text{ AND } L2 < C2 \text{ AND } C2 < O2 \text{ AND } O2 = H2 \text{ AND } FAVGC10 < AVGC10 \text{ AND } C < C9$

Three White Soldiers

$C > C1 \text{ AND } C1 > C2 \text{ AND } C > O \text{ AND } C1 > O1 \text{ AND } C2 > O2 \text{ AND } ABS(C2 - O2) > .5 * (H2 - L2) \text{ AND } ABS(C1 - O1) > .5 * (H1 - L1) \text{ AND } H - L > AVGH21 - AVGL21 \text{ AND } O > O1 \text{ AND } O < C1 \text{ AND } O1 > O2 \text{ AND } O1 < C2 \text{ AND } O2 > O3 \text{ AND } O2 < C3 \text{ AND } C > .85 * H \text{ AND } C1 > .85 * H1 \text{ AND } C2 > .85 * H2$

Tri Star

$ABS(C - O) \leq .05 * (H - L) \text{ AND } (C + O) / 2 - L \geq .4 * (H - L) \text{ AND } (C + O) / 2 - L \leq .6 * (H - L) \text{ AND } ABS(C1 - O1) \leq .05 * (H1 - L1) \text{ AND } (C1 + O1) / 2 - L1 \geq .4 * (H1 - L1) \text{ AND } (C1 + O1) / 2 - L1 \leq .6 * (H1 - L1) \text{ AND } ABS(C2 - O2) \leq .05 * (H2 - L2) \text{ AND } (C2 + O2) / 2 - L2 \geq .4 * (H2 - L2) \text{ AND } (C2 + O2) / 2 - L2 \leq .6 * (H2 - L2) \text{ AND } H1 < L3 \text{ AND } H1 < L1$

Tweezer Bottom

$L = L1 \text{ AND } ABS(C - O) < .2 * ABS(C1 - O1) \text{ AND } ABS(C1 - O1) \geq .9 * (H1 - L1) \text{ AND } H1 - L1 \geq 1.3 * (AVGH20 - AVGL20)$

Unique Three River Bottom

$ABS(C2 - O2) \geq .7 * (H2 - L2) \text{ AND } ABS(C2 - O2) > .5 * (H2 - L2) \text{ AND } C1 < O1 \text{ AND } O1 < O2 \text{ AND } C1 > C2 \text{ AND } L1 = MINL5.1 \text{ AND } C > O \text{ AND } C < C1$

Upside Gap Three Methods

$ABS(C2 - O2) > .5 * (H2 - L2) \text{ AND } ABS(C1 - O1) > .5 * (H1 - L1) \text{ AND } L1 > H2 \text{ AND } C < C2 \text{ AND } O > O1$

Upside Tasuki Gap

$ABS(C2 - O2) > .5 * (H2 - L2) \text{ AND } ABS(C1 - O1) > .5 * (H1 - L1) \text{ AND } L1 > H2 \text{ AND } C < O \text{ AND } C < O1 \text{ AND } C > C2$

***** Bearish Patterns *****

Abandoned Baby

$ABS(C2 - O2) > .5 * (H2 - L2) \text{ AND } C2 > O2 \text{ AND } ABS(C1 - O1) \leq .05 * (H1 - L1) \text{ AND } (C1 + O1) / 2 - L1 \geq .4 * (H1 - L1) \text{ AND } (C1 + O1) / 2 - L1 \leq .6 * (H1 - L1) \text{ AND } L1 > H2 \text{ AND } C < O \text{ AND } H < L1 \text{ AND } O > C2 \text{ AND } (L >$

O2 OR C < L2)

Advance Block

$H - L > AVGH21 - AVGL21$ AND $ABS(C1 - O1) > .5 * (H1 - L1)$ AND $ABS(C2 - O2) > .5 * (H2 - L2)$ AND $C > C1$ AND $C1 > C2$ AND $O1 > O2$ AND $O1 < C2$ AND $O > O1$ AND $O < C1$ AND $H - L < .8 * (H1 - L1)$ AND $H1 - L1 < .8 * (H2 - L2)$ AND $H - C > O - L$ AND $H1 - C1 > O1 - L1$

Belt Hold

$(O = MAXO10)$ AND $(O > H1)$ AND $(O - C) \geq .7 * (H - L)$ AND $(H - L) \geq 1.2 * (AVGH10 - AVGL10)$ AND $(H - O) \leq .01 * (H - L)$ AND $(C \geq H1 - .5 * (H1 - L1))$ AND $(H1 > L1)$ AND $(H > L)$ AND $(C1 > C2)$ AND $(C2 < C3)$

Breakaway

$ABS(C4 - O4) > .5 * (H4 - L4)$ AND $C4 > O4$ AND $C3 > O3$ AND $L3 > H4$ AND $C2 > C3$ AND $C1 > C2$ AND $C < O$ AND $L < H4$ AND $H > L3$

Dark Cloud Cover

$(C1 - O1) \geq .7 * (H1 - L1)$ AND $(H1 - L1) \geq (AVGH10.1 - AVGL10.1)$ AND $(O > C1)$ AND $C < C1 - .5 * (C1 - O1)$ AND $(C > O1)$

Deliberation

$ABS(C2 - O2) > .5 * (H2 - L2)$ AND $ABS(C1 - O1) > .5 * (H1 - L1)$ AND $C1 > C2$ AND $C2 > O2$ AND $C1 > O1$ AND $O > H1$ AND $(C + O) / 2 - L > .4 * (H - L)$ AND $(C + O) / 2 - L < .6 * (H - L)$ AND $ABS(C - O) < .6 * (H - L)$

Downside Gap Three Methods

$ABS(C2 - O2) > .5 * (H2 - L2)$ AND $ABS(C1 - O1) > .5 * (H1 - L1)$ AND $C2 < O2$ AND $C1 < O1$ AND $H1 < L2$ AND $L < H1$ AND $H > L2$ AND $C > O$

Downside Tasuki Gap

$C2 < O2$ AND $C1 < O1$ AND $H1 < L2$ AND $O > C1$ AND $O < O1$ AND $C > H1$ AND $C < L2$

Doji Star

$ABS(C1 - O1) > .5 * (H1 - L1)$ AND $O > C1$ AND $ABS(C - O) < .05 * (H - L)$ AND $H - L < .2 * (AVGH21 - AVGL21)$

Doji (Gravestone)

$ABS(O - C) \leq .01 * (H - L)$ AND $(H - C) \geq .95 * (H - L)$ AND $(H > L)$ AND $(H = MAXH10)$ AND $(H - L) \geq (AVGH10 - AVGL10)$

Dragonfly Doji/Hanging Man

$ABS(O - C) \leq .02 * (H - L)$ AND $(H - C) \leq .3 * (H - L)$ AND $(H - L) \geq (AVGH10 - AVGL10)$ AND $(H > L)$ AND $(H = MAXH10)$

Engulfing

$(C1 > O1)$ AND $(O - C) \geq .7 * (H - L)$ AND $(C < O1)$ AND $(O > C1)$ AND $(H - L) \geq 1.2 * (AVGH10 - AVGL10)$

Evening Doji Star

$ABS(C2 - O2) > .5 * (H - L)$ AND $C2 > O2$ AND $ABS(C1 - O1) < .05 * (H1 - L1)$ AND $H1 - L1 < .2 * (AVGH21.1 - AVGL21.1)$ AND $O1 > C2$ AND $C < O$

Evening Star

$(C2 - O2) \geq .7 * (H2 - L2)$ AND $(H2 - L2) \geq (AVGH10.2 - AVGL10.2)$ AND $(C1 > C2)$ AND $(O1 > C2)$ AND $(H - L) \geq (AVGH10 -$

AVGL10) AND (O-C)>=.7*(H-L) AND (O<O1) AND (O<C1)

Falling Three Methods

ABS(C4 - O4) > .5 * (H4 - L4) AND C4 < O4 AND ABS(C3 - O3) < ABS(C4 - O4) AND ABS(C2 - O2) < ABS(C4 - O4) AND ABS(C1 - O1) < ABS(C4 - O4) AND L3 >= L4 AND H3 <= H4 AND L2 >= L4 AND H2 <= H4 AND L1 >= L4 AND H1 <= H4 AND H2 > H3 AND H1 > H2 AND C < O AND C < C4

Grave Stone Doji/Shooting Star

ABS(C - O) < (H - L) / 3 AND O > C1 AND (C + O) / 2 - L < .4 * (H - L) AND H = MAXH10

Hanging Man

ABS(C >= O) * O + ABS(C < O) * C - L >= 2 * ABS(C - O) AND (C + O) / 2 - L > 2 * (H - (C + O) / 2) AND ABS(C - O) > .01

Harami (Bearish Harami Variant)

(C1-O1)>=.7*(H1-L1) AND (H1-L1)>=(AVGH10.1-AVGL10.1) AND (C<O) AND (O<C1) AND (C>O1) AND (O-C)<=.6*(C1-O1)

Harami Cross

ABS(C1 - O1) > .5 * (H - L) AND C1 > O1 AND H < C1 AND L > O1 AND ABS(C - O) < .2 * (H - L)

Identical Three Crows

C2 < O2 AND C1 < O1 AND C < O AND C < L1 AND C1 < L2 AND O = C1 AND O1 = C2

In Neck

ABS(C1 - O1) > .5 * (H1 - L1) AND C1 < O1 AND O < L1 AND C >= C1 AND C < 1.05 * C1

Kicking

C = L AND O = H AND H > L AND H < L1 AND C1 = H1 AND O1 = L1 AND H1 > L1

Meeting Lines

ABS(C1 - O1) > .5 * (H1 - L1) AND C1 > O1 AND (C1 + O1) / 2 > H2 AND ABS(C - O) > .5 * (H - L) AND C < O AND (C + O) / 2 > H1 AND C = C1

On Neck

ABS(C1 - O1) > .5 * (H1 - L1) AND C1 < O1 AND O < L1 AND C = L1

[One Black Crow](#)

C < O1 AND O1 < C1 AND O < C1 AND C4 < C3 AND C3 < C2 AND C2 < C1

Separating Lines

C1 > O1 AND C < O AND O = O1

Shooting Star

ABS(O-C)<=.2*(H-L) AND ABS(O-C)>=.1*(H-L) AND (H-O)>=.5*(H-L) AND (H-C)>=.5*(H-L) AND (O-L)<=.05*(H-L) OR (C-L)<=.05*(H-L) AND (H-L)>=.8*(AVGH10-AVGL10) AND (O>=(L1+.5*(H1-L1))) AND (C>=(L1+.5*(H1-L1))) AND (H=MAXH5) AND (H>L)

Side-by-side White Lines

$C2 < O2$ AND $H1 < L2$ AND $C1 > O1$ AND $ABS(C1 - O1) > .95 * ABS(C - O)$ AND $ABS(C1 - O1) < 1.95 * ABS(C - O)$ AND $C > O$ AND $C = C1$

Three Black Crows

$O1 < O2$ AND $O1 > C2$ AND $O < O1$ AND $O > C1$ AND $C1 < L2$ AND $C < L1$ AND $C2 < 1.05 * L2$ AND $C1 < 1.05 * L1$ AND $C < 1.05 * L$

Three Inside Down

$ABS(C2 - O2) > .5 * (H1 - L1)$ AND $C2 > O2$ AND $C1 < O1$ AND $H1 < C2$ AND $L1 > O2$ AND $C < O$ AND $C < C1$

Three Line Strike

$C3 < O3$ AND $C2 < O2$ AND $C2 < C3$ AND $C1 < O1$ AND $C1 < C2$ AND $O < C1$ AND $C > O3$

Three Outside Down (aka Confirmed Bearish Engulfing)

$(C2 > O2)$ AND $(O1 - C1) \geq .7 * (H1 - L1)$ AND $(C1 < O2)$ AND $(O1 > C2)$ AND $(H1 - L1) \geq 1.2 * (AVGH10.1 - AVGL10.1)$ AND $(O < O1)$ AND $(O > C1)$ AND $(C < C1)$ AND $(O - C) \geq .7 * (H - L)$

Thrusting

$ABS(C1 - O1) > .5 * (H1 - L1)$ AND $C1 < O1$ AND $O < L1$ AND $C > C1$ AND $C < (C1 + O1) / 2$

Tri Star

$ABS(C - O) < .05 * (H - L)$ AND $H - L < .2 * (AVGH21 - AVGL21)$ AND $ABS(C1 - O1) < .05 * (H1 - L1)$ AND $H1 - L1 < .2 * (AVGH21.1 - AVGL21.1)$ AND $ABS(C2 - O2) < .05 * (H2 - L2)$ AND $H2 - L2 < .2 * (AVGH21.2 - AVGL21.2)$ AND $L2 > H1$ AND $L2 > H$

Tweezer Top

$H = H1$ AND $ABS(C - O) < .2 * ABS(C1 - O1)$ AND $ABS(C1 - O1) \geq .9 * (H1 - L1)$ AND $H1 - L1 \geq 1.3 * (AVGH20 - AVGL20)$

Two Crows

$ABS(C2 - O2) > .5 * (H2 - L2)$ AND $C2 > O2$ AND $L1 > H2$ AND $C1 < O1$ AND $O > C1$ AND $O < O1$ AND $C < C2$ AND $C > O2$

Upside Gap Two Crows

$ABS(C2 - O2) > .5 * (H2 - L2)$ AND $C2 > O2$ AND $L1 > H2$ AND $C1 < O1$ AND $O > O1$ AND $C < C1$ AND $C > H2$