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<td>ABF302 - ABF319</td>
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END EFECTOR FRAME
CAD STARTER MODELS - ONLY
“I” SERIES
3 X 3 X 3/16 WT

11.0MM DRILL THRU (8 HOLES)

16.0 START

10.00 H6 DWL THRU (2 HOLES)

A

F

START

20.0

LENGTH TO SUIT

C

10.00 DWL

INCH

a 1 - STL PLT ASTM A-36 3/4 X B X B
b 1 - STL TBG ASTM A-500 GRADE B 3 X 3 X 3/16 WT X LENGTH TO SUIT
c 2 - HRS ASTM A-36 3/8 X 3 X d

METRIC

a 1 - STL PLT ASTM A-36 20 X B X B
b 1 - STL TBG ASTM A-500 GRADE B 75 X 75 X 4 WT X LENGTH TO SUIT
c 2 - HRS ASTM A-36 10 X 75 X d

SEE PAGE B-1.1 FOR GLOBAL MATERIALS CHART
CAD STARTER MODEL ONLY - DO NOT ORDER AS NAAMS NUMBER - ASSIGN A CUSTOM NUMBER

NOTES: WELDED END CAPS TO SUIT
CONTINUOUS WELD UNLESS OTHERWISE SPECIFIED
IN ACCORDANCE TO AWS D1.1
PAINT SPEC: PER END USER SPECIFICATIONS
STRESS RELIEVE
TOLERANCES:
1 PLACE MACHINING ±0.3
1 PLACE FABRICATION ±1.5
2 PLACE ±0.08 BETWEEN MACHINED-surfaces
±0.03 BETWEEN DOWELS IN SAME PLANE
±0.13 TO SCREW HOLES, NON ACCUMULATIVE

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<td>205.00</td>
<td>240.00</td>
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<td>42.50</td>
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<td>F</td>
<td>122.5</td>
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<td>d</td>
<td>65.0</td>
<td>80.0</td>
<td>100.0</td>
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ROBOT ADAPTER PLATE
AEA001
FOR 125MM BOLT CIRCLE

NOTES:

PAINT SPEC: PER END USER SPECIFICATIONS

TOLERANCES:
1 PLACE MACHINING ±0.3
1 PLACE FABRICATION ±1.5
2 PLACE ±0.08 BETWEEN MACHINED SURFACES
±0.03 BETWEEN DOWELS IN SAME PLANE
±0.13 TO SCREW HOLES, NON ACCUMULATIVE

INCH
STL PLT    ASTM A-36   1 X 245mm X 245mm

METRIC
STL PLT    ASTM A-36   25 X 245 X 245

SEE PAGE B-1.1 FOR GLOBAL MATERIALS CHART

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END EFFECTOR FRAME
CAD STARTER MODELS - ONLY
“I” SERIES
4 X 4 X 3/16 WT

11.0MM DRILL THRU
(8 HOLES)

16.0 START

10.00” DWL THRU (2 HOLES)

NOTES: WELDED END CAPS TO SUIT

CONTINUOUS WELD UNLESS OTHERWISE SPECIFIED
IN ACCORDANCE TO AWS D1.1

PAINT SPEC: PER END USER SPECIFICATIONS

STRESS RELIEVE

TOLERANCES:
1 PLACE MACHINING ±0.3
1 PLACE FABRICATION ±1.5
2 PLACE ±0.08 BETWEEN MACHINED SURFACES
±0.03 BETWEEN DOWELS IN SAME PLANE
±0.13 TO SCREW HOLES, NON ACCUMULATIVE

INCH
a 1 - STL PLT ASTM A-36 3/4 X 8 X 8
b 1 - STL TBG ASTM A-500 GRADE B 4 X 4 X 3/16 WT X LENGTH TO SUIT
c 2 - HRS ASTM A-36 3/8 X 4 X dmm

METRIC
a 1 - STL PLT ASTM A-36 20 X 8 X 8
b 1 - STL TBG ASTM A-500 GRADE B 100 X 100 X 4 WT X LENGTH TO SUIT
c 2 - HRS ASTM A-36 10 X 100 X d

SEE PAGE B-1.1 FOR GLOBAL MATERIALS CHART

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ROBOT ADAPTER PLATE
AEA002
FOR 160MM BOLT CIRCLE

M10 X 1.5 TAP THRU
(8 HOLES)

100.00 H7 DIA
TO DEPTH SHOWN

M6 X 1 TAP THRU

10.00 H6 DWL
THRU (2 HOLES)

120.00

240.00

22.00

20.0 START

140.0 START

12.5

NOTES:
PAINT SPEC: PER END USER SPECIFICATIONS

TOLERANCES:
1 PLACE MACHINING ±0.3
1 PLACE FABRICATION ±1.5
2 PLACE ±0.08 BETWEEN MACHINED SURFACES
±0.03 BETWEEN DOWELS IN SAME PLANE
±0.13 TO SCREW HOLES, NON ACCUMULATIVE

INCH
STL PLT    ASTM A-36    1 X 280mm X 280mm

METRIC
STL PLT    ASTM A-36    25 X 280 X 280

SEE PAGE B-1.1 FOR GLOBAL MATERIALS CHART

WEIGHT    13.0 kg
END EFFECTOR FRAME
CAD STARTER MODELS - ONLY
“I” SERIES
6 X 6 X 1/4 WT

NOTES: WELDED END CAPS TO SUIT
CONTINUOUS WELD UNLESS OTHERWISE SPECIFIED
IN ACCORDANCE TO AWS D1.1
PAINT SPEC: PER END USER SPECIFICATIONS
STRESS RELIEVE

TOLERANCES:
1 PLACE MACHINING ±0.3
1 PLACE FABRICATION ±1.5
2 PLACE ±0.08 BETWEEN MACHINED SURFACES
±0.03 BETWEEN DOWELS IN SAME PLANE
±0.13 TO SCREW HOLES, NON ACCUMULATIVE

INCH
a 1 - STL PLT  ASTM A-36  3/4 X B X B
b 1 - STL TBG  ASTM A-500 GRADE B  6 X 6 X 1/4 WT X LENGTH TO SUIT
c 2 - HRS  ASTM A-36  3/8 X 6 X dmm

METRIC
a 1 - STL PLT  ASTM A-36  20 X B X B
b 1 - STL TBG  ASTM A-500 GRADE B  160 X 160 X 6 WT X LENGTH TO SUIT
c 2 - HRS  ASTM A-36  10 X 150 X d

SEE PAGE B-1.1 FOR GLOBAL MATERIALS CHART

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ROBOT ADAPTER PLATE
AEA003
FOR 200MM BOLT CIRCLE

INCH
STL PLT  ASTM A-36  1 1/4 X 320mm X 320mm
WEIGHT  19.2 kg

METRIC
STL PLT  ASTM A-36  35 X 320 X 320

NOTES:
PAINT SPEC: PER END USER SPECIFICATIONS
TOLERANCES:
1 PLACE MACHINING ±0.3
1 PLACE FABRICATION ±1.5
2 PLACE ±0.08 BETWEEN MACHINED SURFACES
   ±0.03 BETWEEN DOWELS IN SAME PLANE
   ±0.13 TO SCREW HOLES, NON ACCUMULATIVE

SEE PAGE B-1.1 FOR GLOBAL MATERIALS CHART
END EFFECTOR FRAME
CAD STARTER MODELS - ONLY
“H” SERIES
125MM BOLT CIRCLE

LENGTH TO SUIT
102.5 START

WIDTH TO SUIT
185.0

80.00 H7 DIA
TO DEPTH AS SHOWN
w/ M6 X 1 TAP THRU

16.0 START

PLATES SHOWN TO BE REFERENCE ONLY
PLATES TO BE SIZED AND POSITIONED AS NEEDED
FOR "MOUNTING" END EFFECTOR COMPONENTS

NAAMS SERIES TUBE SIZE

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<th>B (METRIC)</th>
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<td>AE03</td>
<td>3 X 2 X 3/16 WT</td>
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<td>3 X 3 X 3/16 WT</td>
<td>75 X 75 X 4 WT</td>
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<td>AE05</td>
<td>4 X 4 X 3/16 WT</td>
<td>100 X 100 X 4 WT</td>
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NOTES: WELDED END CAPS TO SUIT

INCH
a  1 - STL PLT  ASTM A-36  3/4 X 205.0mm X 205.0mm
b  2 - STL TBG  ASTM A-500 GRADE B  A X LENGTH TO SUIT
<ückenb  2 - STL TBG  ASTM A-500 GRADE B  A X LENGTH TO SUIT
d  2 - STL TBG  ASTM A-500 GRADE B  A X 185.0mm

METRIC
a  1 - STL PLT  ASTM A-36  20.0 X 205.0 X 205.0
b  2 - STL TBG  ASTM A-500 GRADE B  B X LENGTH TO SUIT
c  2 - STL TBG  ASTM A-500 GRADE B  B X LENGTH TO SUIT
d  2 - STL TBG  ASTM A-500 GRADE B  B X 185.0

CONTINUOUS WELD UNLESS OTHERWISE SPECIFIED
IN ACCORDANCE TO AWS D1.1
PAINT SPEC: PER END USER SPECIFICATIONS
STRESS RELIEVE

TOLERANCES:
1 PLACE MACHINING ±0.3
1 PLACE FABRICATION ±0.5
2 PLACE ±0.08 BETWEEN MACHINED SURFACES
±0.03 BETWEEN DOWELS IN SAME PLANE
±0.13 TO SCREW HOLES, NON ACCUMULATIVE

SEE PAGE B-1.1 FOR GLOBAL MATERIALS CHART

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END EFFECTOR FRAME
CAD STARTER MODELS - ONLY
“H” SERIES
160MM BOLT CIRCLE

100.00” DIA TO DEPTH AS SHOWN w/ M6 X 1 TAP THRU

120.0 START

LENGTH TO SUIT

220.0 WIDTH TO SUIT

18.0 START

PLATES SHOWN TO BE REFERENCE ONLY
PLATES TO BE SIZED AND POSITIONED AS NEEDED
FOR “MOUNTING” END EFFECTOR COMPONENTS

NOTES: WELDED END CAPS TO SUIT

THIS STANDARD IS FOR THE FRAME ONLY
THE “PLATE” OR “PLATES” WILL BE THE DETAIL
AND THE FRAME WILL BE A SUB DETAIL IN THE STOCK LIST

INCH
a 1 - STL PLT ASTM A-36 7/8 X 240.0mm X 240.0mm
b 2 - STL TBG ASTM A-500 GRADE B A X LENGTH TO SUIT
C 2 - STL TBG ASTM A-500 GRADE B A X LENGTH TO SUIT
d 2 - STL TBG ASTM A-500 GRADE B A X 220.0mm

METRIC
a 1 - STL PLT ASTM A-36 22.0 X 240.0 X 240.0
b 2 - STL TBG ASTM A-500 GRADE B B X LENGTH TO SUIT
c 2 - STL TBG ASTM A-500 GRADE B B X LENGTH TO SUIT
d 2 - STL TBG ASTM A-500 GRADE B B X 220.0

SEE PAGE B-1.1 FOR GLOBAL MATERIALS CHART

CAD STARTER MODEL ONLY - DO NOT ORDER AS NAAMS NUMBER - ASSIGN A CUSTOM NUMBER

NAAMS SERIES TUBE SIZE

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<td>AE08</td>
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<td>75 X 50 X 4 WT</td>
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<td>3 X 3 X 3/16 WT</td>
<td>75 X 75 X 4 WT</td>
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CONTINUOUS WELD UNLESSE Otherwise SPECIFIED
IN ACCORDANCE TO AWS D1.1

PAINT SPEC: PER END USER SPECIFICATIONS

STRESS RELIEVE

TOLERANCES:
1 PLACE MACHINING ±0.3
1 PLACE FABRICATION ±1.5
2 PLACE ±0.08 BETWEEN MACHINED SURFACES
±0.03 BETWEEN DOWELS IN SAME PLANE
±0.13 TO SCREW HOLES, NON ACCUMULATIVE

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END EFFECTOR FRAME
CAD STARTER MODELS - ONLY
“H” SERIES
200MM BOLT CIRCLE

NOTES: WELDED END CAPS TO SUIT

THIS STANDARD IS FOR THE FRAME ONLY
THE "PLATE" OR "PLATES" WILL BE THE DETAIL
AND THE FRAME WILL BE A SUB DETAIL IN THE STOCK LIST

INCH
a 1 - STL PLT  ASTM A-36  1 X 280.0mm X 280.0mm
b 2 - STL TBG  ASTM A-500 GRADE B A X LENGTH TO SUIT
b 2 - STL TBG  ASTM A-500 GRADE B A X LENGTH TO SUIT
b 2 - STL TBG  ASTM A-500 GRADE B A X 260.0mm

METRIC
a 1 - STL PLT  ASTM A-36  25.0 X 280.0 X 280.0
b 2 - STL TBG  ASTM A-500 GRADE B B X LENGTH TO SUIT
b 2 - STL TBG  ASTM A-500 GRADE B B X LENGTH TO SUIT
b 2 - STL TBG  ASTM A-500 GRADE B B X 260.0

CONTINUOUS WELD UNLESS OTHERWISE SPECIFIED
IN ACCORDANCE TO AWS D1.1

PAINT SPEC: PER END USER SPECIFICATIONS

STRESS RELIEVE

TOLERANCES:
1 PLACE MACHINING ±0.3
1 PLACE FABRICATION ±1.5
2 PLACE ±0.08 BETWEEN MACHINED SURFACES
±0.03 BETWEEN DOWELS IN SAME PLANE
±0.13 TO SCREW HOLES, NON ACCUMULATIVE

SEE PAGE B-1.1 FOR GLOBAL MATERIALS CHART

CAD STARTER MODEL ONLY - DO NOT ORDER AS NAAMS NUMBER - ASSIGN A CUSTOM NUMBER

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