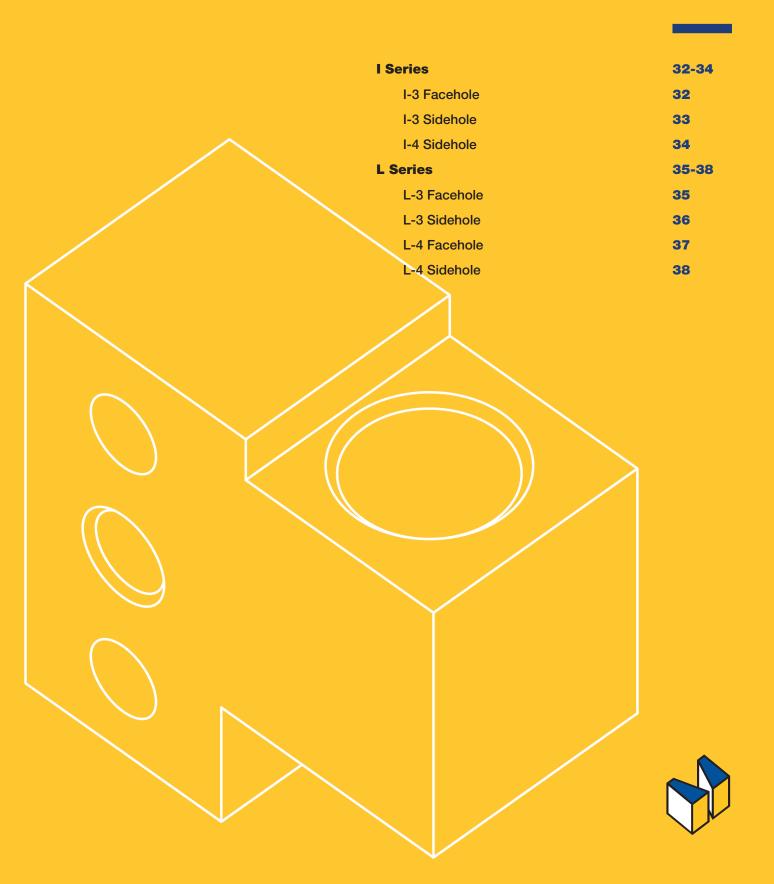
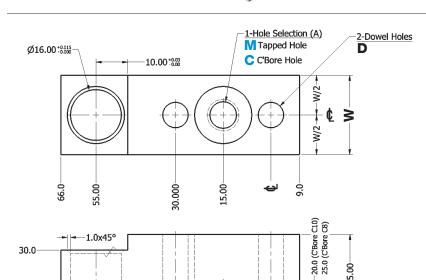
STANDARD PIN RETAINERS





I-3 FACEHOLE



75.0 Ref.

3D CAD is available online.

Туре	Material	Finish	
ADD	A-36 Steel	Black Oxide	
APR	304 Stainless Steel	-	

P/N Example (Standard NAAMS): Part Number Type Specification APR 282M

Tolerance					
Dimension	Tol.	Finish (Ra)		Geometric	
0.0	± 0.3	6.0 μm			
0.00	± 0.03	3.0 µm	上	Surfaces	0.015 T.I.R.
0.000	± 0.020	1.6 µm	//	Surfaces	

Standard NAAMS (25 mm Series Pin Retainers)							
	Hole Selection (A) / Material					D.D. W.L.L.	
Туре	Type M10 C10		10	W	D Dowel Hole		
	A-36	304	A-36	304			Tolerance
APR	060M	061M	062M	063M	25.0	8 H6	+0.000/+0.009

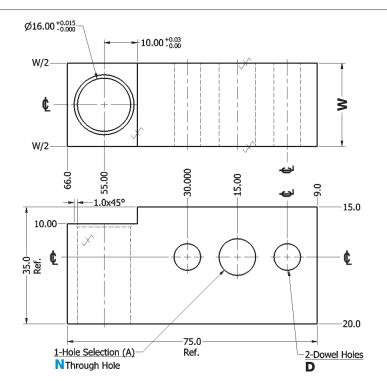
M10 (M10x1.5 Tapped Hole), C10 (C'Bore for M10 SHCS). Standard NAAMS specifications are controlled by the NAAMS organization and the latest version of these products will be produced in compliance to: www.naamsstandards.org.

Standard NAAMS (20 mm Series Pin Retainers)							
		Hole Selection	n (A) / Material		D David Hala		
Туре	N	18	C8		D Dowel Hole W		Jwei noie
	A-36	304	A-36	304			Tolerance
ADD	265M	266M	267M	268M	30.0	8 F7	+0.013/+0.028
APR	280M	281M	282M	283M	25.0	8 F7	+0.013/+0.028

M8 (M8x1.25 Tapped Hole), C8 (C'Bore for M8 SHCS). Standard NAAMS specifications are controlled by the NAAMS organization and the latest version of these products will be produced in compliance to: www.naamsstandards.org.



I-3 SIDEHOLE



3D CAD is available online.

Type	Material	Finish	
ADD	A-36 Steel	Black Oxide	
APR	304 Stainless Steel	-	

P/N Example (Standard NAAMS):				
Part Number				
Туре	Specification			
APR	260M			

Tolerance					
Dimension	Tol.	Finish (Ra)		Geometric	
0.0	± 0.3	6.0 μm			
0.00	± 0.03	3.0 µm	上	Surfaces	0.015 T.I.R.
0.000	± 0.020	1.6 µm	//	Surfaces	

Standard NAAMS (25 mm Series Pin Retainers)					
	Hole Selection (A) / Material		W	D Dowel Hole	
Туре	N11				
	A-36	304			Tolerance
APR	050M	051M	25.0	8 H6	+0.000/+0.009

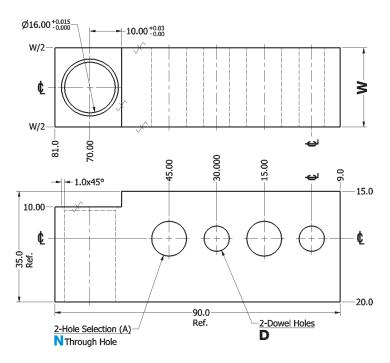
N11 (Ø11.0 Through Hole). Standard NAAMS specifications are controlled by the NAAMS organization and the latest version of these products will be produced in compliance to: www.naamsstandards.org.

Standard NAAMS (20 mm Series Pin Retainers)						
	Hole Selection (A) / Material			D Dowel Hole		
Туре	N9		W			
	A-36	304			Tolerance	
ADD	260M	261M	30	0.57	.0.012/.0.020	
APR	276M	277M	25	8 F7	+0.013/+0.028	

N9 (Ø9.0 Through Hole). Standard NAAMS specifications are controlled by the NAAMS organization and the latest version of these products will be produced in compliance to: www.naamsstandards.org.



I-4 SIDEHOLE



3D CAD is available online.

Туре	Material	Finish
ADD	A-36 Steel	Black Oxide
APR	304 Stainless Steel	-

P/N Example (Standard NAAMS):			
Part Number			
Туре	Specification		
APR	242M		

Tolerance					
Dimension Tol. Finish (Ra) Geometric					
0.0	± 0.3	6.0 μm			
0.00	± 0.03	3.0 µm	上	Surfaces	0.015 T.I.R.
0.000	± 0.020	1.6 µm	//	Surfaces	

Standard NAAMS (25 mm Series Pin Retainers)						
	Hole Selection (A) / Material			D Dowel Hole		
Туре	N11		W	D Dowel note		
	A-36	304			Tolerance	
APR	070M	071M	25.0	8 H6	+0.000 / +0.009	

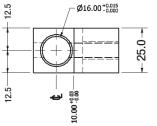
N11 (Ø11.0 Through Hole). Standard NAAMS specifications are controlled by the NAAMS organization and the latest version of these products will be produced in compliance to: www.naamsstandards.org.

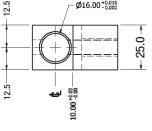
Standard NAAMS (20 mm Series Pin Retainers)						
	Hole Selection	n (A) / Material		D Dowel Hole		
Туре	N9		W	D Dowel note		
	A-36	304			Tolerance	
	075M	076M	30.0	6 F7	+0.010 / +0.022	
APR	077M	078M	25.0	6 F7	+0.010 / +0.022	
Arn	221M	222M	30.0	8 F7	+0.013 / +0.028	
	241M	242M	25.0	8 F7	+0.013 / +0.028	

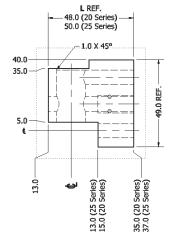
N9 (Ø9.0 Through Hole). Standard NAAMS specifications are controlled by the NAAMS organization and the latest version of these products will be produced in compliance to: www.naamsstandards.org.

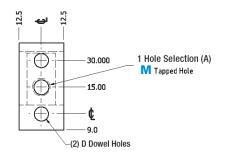


L-3 FACEHOLE









3D CAD is available online.

	Туре	Material	Finish
	APR	A-36 Steel	Black Oxide
		304 Stainless Steel	-

P/N Example (Standard NAAMS):				
Part Number				
Туре	Specification			
APR	020M			

Tolerance							
Dimension	Tol.	Finish (Ra)		Geometric			
0.0	± 0.3	6.0 µm					
0.00	± 0.03	3.0 μm	上	Surfaces	0.015 T.I.R.		
0.000	± 0.020	1.6 µm	//	our idues			

Standard NAAMS (25 mm Series Pin Retainers)							
	Hole Selection	n (A) / Material					
Туре	M10		W	D Dowel Hole			
	A-36	304			Tolerance		
APR	020M	021M	25	8 H6	+0.000/+0.009		

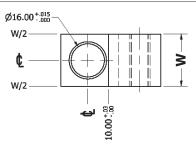
M10 (M10x1.5 Tapped Hole). Standard NAAMS specifications are controlled by the NAAMS organization and the latest version of these products will be produced in compliance to: www.naamsstandards.org.

Standard NAAMS (20 mm Series Pin Retainers)							
	Hole Selection (A) / Material			B Down Hills			
Туре	M8		W	D Dowel Hole			
	A-36	304			Tolerance		
APR	255M 256M		20	8 F7	+0.013/+0.028		

M8 (M8x1.25 Tapped Hole). Standard NAAMS specifications are controlled by the NAAMS organization and the latest version of these products will be produced in compliance to: www.naamsstandards.org.

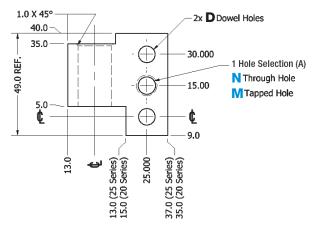






3D CAD is available online.

	Туре	Material	Finish	
	APR	A-36 Steel	Black Oxide	
		304 Stainless Steel	-	



P/N Example (Standard NAAMS): Part Number Type Specification APR 271M

Tolerance							
Dimension	Tol.	Finish (Ra)		Geometric			
0.0	± 0.3	6.0 μm					
0.00	± 0.03	3.0 μm	上	Surfaces	0.015 T.I.R.		
0.000	± 0.020	1.6 µm	//	54114005			

Standard NAAMS (25 mm Series Pin Retainers)							
	Hole Selection (A) / Material					D Dowel Hole	
Туре	M10		N11		W		Jowel Hole
	A-36	304	A-36	304			Tolerance
APR	010M	011M	012M	013M	25	8 H6	+0.000 / +0.009

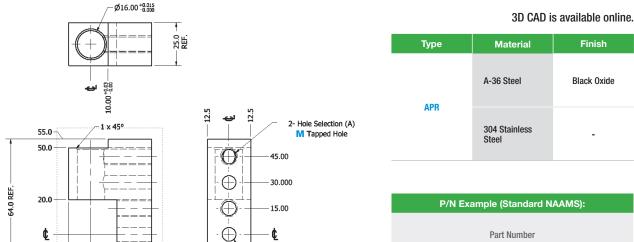
M10 (M10x1.5 Tapped Hole), N11 (Ø11.0 Through Hole). Standard NAAMS specifications are controlled by the NAAMS organization and the latest version of these products will be produced in compliance to: www.naamsstandards.org.

Standard NAAMS (20 mm Series Pin Retainers)								
		Hole Selection	n (A) / Material			D Dowel Hole		
Туре	M8 N9		19	W	D bowel note			
	A-36	304	A-36	304		Tolerance		
ADD	271M	272M	273M	274M	25	8 F7	+0.013/+0.028	
APR	250M	251M	252M	253M	30			

M8 (M8x1.25 Tapped Hole), N9 (Ø9.0 Through Hole). Standard NAAMS specifications are controlled by the NAAMS organization and the latest version of these products will be produced in compliance to: www.naamsstandards.org.



L-4 FACEHOLE



P/N Exam	P/N Example (Standard NAAMS):			
Part Number				
Туре	Specification			
APR	045M			

Tolerance								
Dimension Tol. Finish (Ra) Geometric								
0.0	± 0.3	6.0 μm						
0.00	± 0.03	3.0 µm	上	Surfaces	0.015 T.I.R.			
0.000	± 0.020	1.6 µm	//	our laces				

9.0

D 2- Hole Selection

37.0 (25 Series) 35.0 (20 Series)

13.0 (25 Series) 15.00 (20 Series)

50.0 (25 series) 48.0 (20 series)

13.0

Standard NAAMS (25 mm Series Pin Retainers)							
	Hole Selection	n (A) / Material	D Dowel Hole				
Туре	M	10					
	A-36 304			Tolerance			
APR	040M	041M	8 H6	+0.000 / +0.009			

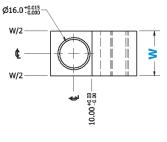
M10 (M10x1.5 Tapped Hole). Standard NAAMS specifications are controlled by the NAAMS organization and the latest version of these products will be produced in compliance to: www.naamsstandards.org.

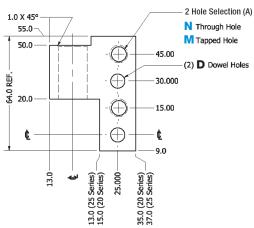
Standard NAAMS (20 mm Series Pin Retainers)							
Туре	Hole Selection	n (A) / Material	D Dowel Hele				
	M8		D Dowel Hole				
	A-36	304		Tolerance			
APR	045M	046M	6 F7	+0.010 / +0.022			
	211M	212M	8 F7	+0.013 / +0.028			

M8 (M8x1.25 Tapped Hole). Standard NAAMS specifications are controlled by the NAAMS organization and the latest version of these products will be produced in compliance to: www.naamsstandards.org.









3D CAD is available online.

Туре	Material	Finish
APR	A-36 Steel	Black Oxide
	304 Stainless Steel	-

P/N Example (Standard NAAMS):						
Part Number						
Туре	Specification					
APR 337M						

Tolerance							
Dimension Tol. Finish (Ra) Geometric							
0.0	± 0.3	6.0 μm					
0.00	± 0.03	3.0 μm	上	Surfaces	0.015 T.I.R.		
0.000	± 0.020	1.6 µm	//	our idees			

Standard NAAMS (25 mm Series Pin Retainers)								
	Hole Selection (A) / Material					D Dowel Hele		
Туре	M	10	N11		W	D Dowel Hole		
	A-36	304	A-36	304			Tolerance	
APR	030M	031M	032M	033M	25	8 H6	+0.000 / +0.009	

M10 (M10x1.5 Tapped Hole), N11 (Ø11.0 Through Hole). Standard NAAMS specifications are controlled by the NAAMS organization and the latest version of these products will be produced in compliance to: www.naamsstandards.org.

Standard NAAMS (20 mm Series Pin Retainers)								
	Hole Selection (A) / Material					D Devicel Hele		
Туре	M	18	N	N9		D Dowel Hole		
	A-36	304	A-36	304			Tolerance	
	336M	337M	338M	339M	05	6 F7	+0.010 / +0.022	
ADD	231M	232M	233M	234M	25	8 F7	+0.013 / +0.028	
APR	330M	331M	332M	333M	20	6 F7	+0.010 / +0.022	
	201M	202M	203M	204M	30	8 F7	+0.013 / +0.028	

M8 (M8x1.25 Tapped Hole), N9 (Ø9.0 Through Hole). Standard NAAMS specifications are controlled by the NAAMS organization and the latest version of these products will be produced in compliance to: www.naamsstandards.org.