

## Athene by Agar Scientific TEM Grids

- ◆ Extensive range of grids for TEM applications
- ◆ Square, hexagonal, parallel, slot & mesh shapes
- ◆ Copper, nickel, gilded & platinised
- ◆ 50, 75, 150, 200, 300 & 400 mesh
- ◆ Round holes with 420, 430 & 850 mesh

Athene TEM support grids are manufactured in Agar Scientific's own labs in Stansted to an extremely high standard and are renowned for their quality.

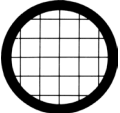
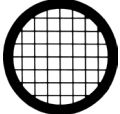
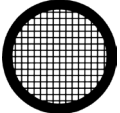
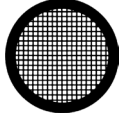
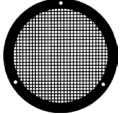
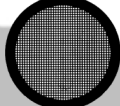
The grid bars are particularly well defined and manufactured to ensure good handling characteristics. Each grid is individually inspected before being packed.

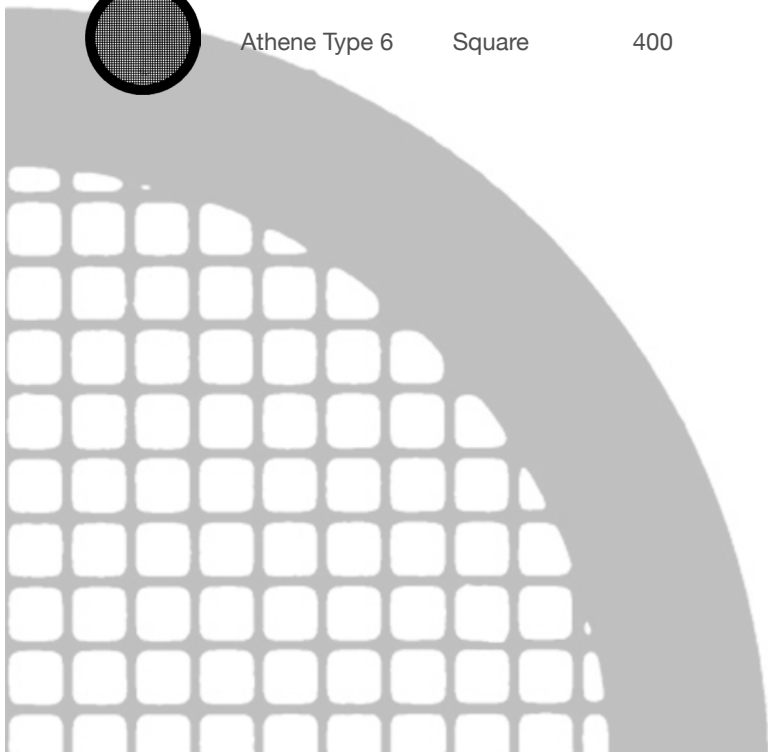
Athene grids can be supplied gilded or platinised. All Athene grids are packed in tubes of 100, unless otherwise specified.

[www.agarscientific.com/athene-grids](http://www.agarscientific.com/athene-grids)

- ◆ Square mesh shapes
- ◆ Copper, nickel, gilded and platinised
- ◆ 50, 75, 150, 200, 300 and 400 mesh
- ◆ 3.05mm diameter

Type	Copper	Nickel	Gilded	Platinised
Athene Type 1	AGG209	AGG209N	AGG209G	AGG209P
Athene Type 2	AGG210	AGG210N	AGG210G	AGG210P
Athene Type 3	AGG201	AGG201N	AGG201G	AGG201P
Athene Type 4	AGG202	AGG202N	AGG202G	AGG202P
Athene Type 5	AGG203	AGG203N	AGG203G	AGG203P
Athene Type 6	AGG204	AGG204N	AGG204G	AGG204P

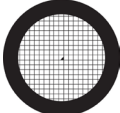
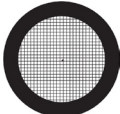
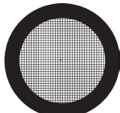
Type	Pattern	Lines per inch	Nominal pitch (µm)	Approx. Hole Size (µm)	Approx. Bar Width (µm)	
	Athene Type 1	Square	50	500	475 x 475	25
	Athene Type 2	Square	75	333	300 x 300	25
	Athene Type 3	Square	150	166.6	140 x 140	25
	Athene Type 4	Square	200	125	97 x 97	28
	Athene Type 5	Square	300	83.3	63 x 63	20
	Athene Type 6	Square	400	62.5	47 x 47	15



## Athene Thin Bar Grids

- ◆ High transmission, thin bar grids
- ◆ Copper, nickel, gilded and platinised
- ◆ Bar width 10µm
- ◆ 200, 300 or 400 mesh
- ◆ 3.05mm diameter

Type	Copper	Nickel	Gilded	Platinised
Athene Type 7 Thin Bar	AGG2002	AGG2002N	AGG2002G	AGG2002P
Athene Type 8 Thin Bar	AGG2003	AGG2003N	AGG2003G	AGG2003P
Athene Type 9 Thin Bar	AGG2004	AGG2004N	AGG2004G	AGG2004P

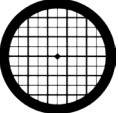
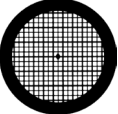

	Type	Pattern	Lines per inch	Nominal pitch (µm)	Approx. Hole Size (µm)	Approx. Bar Width (µm)
	Athene Type 7 Thin Bar	Thin bar	200	125	115 x 115	10
	Athene Type 8 Thin Bar	Thin bar	300	83.3	74 x 74	10
	Athene Type 9 Thin Bar	Thin bar	400	62.5	52.5 x 52.5	10

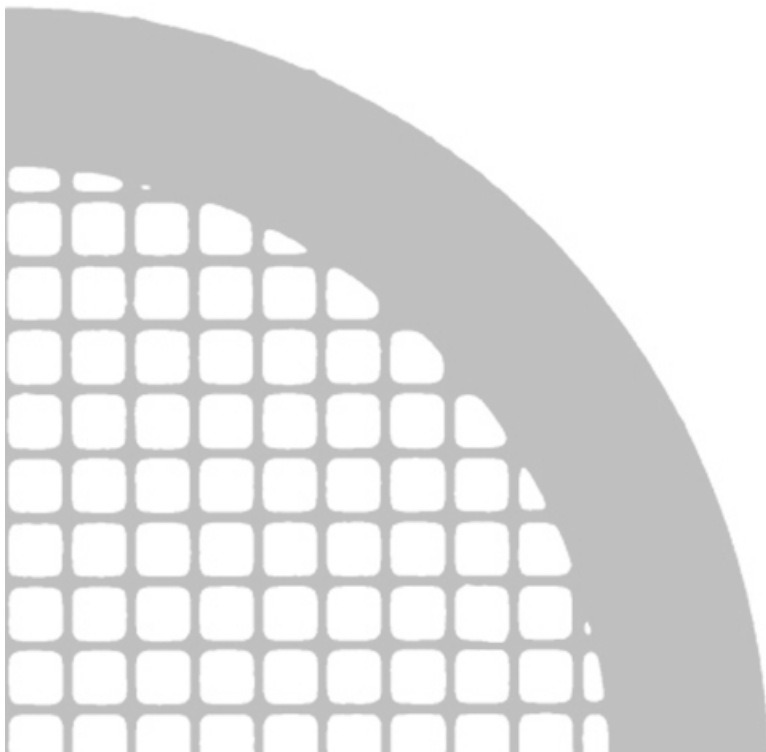


## Athene Thick Bar/Thin Bar Grids

- ◆ Thick bar/thin bar grids
- ◆ Copper, nickel, gilded and platinised
- ◆ 100, 200 or 300 mesh
- ◆ 3.05mm diameter

Type	Copper	Nickel	Gilded	Platinised
Athene Type 10	AGG205	AGG205N	AGG205G	AGG205P
Athene Type 11	AGG206	AGG206N	AGG206G	AGG206P
Athene Type 12	AGG207	AGG207N	AGG207G	AGG207P




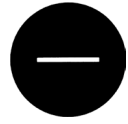
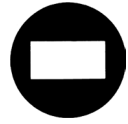
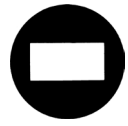




Type	Pattern	Lines per inch	Nominal pitch (µm)	Approx. Hole Size (µm)	Approx. Bar Width (µm)
 Athene Type 10	Thick bar / thin bar	100	250	230 x 230	12 & 30
 Athene Type 11	Thick bar / thin bar	200	125	100 x 100 / 105 x 100	20 & 30
 Athene Type 12	Thick bar / thin bar	300	125	70 x 70 / 58 x 58	13 & 26



# Athene Slot and Multiple Slot Grids



- ◆ Slot and multiple slot grids
- ◆ Copper, nickel, gilded and platinised
- ◆ Slot sizes: 12.5µm to 1000µm
- ◆ Multiple slot grids: Robertson, Sjostrand and Polyslot
- ◆ 200, 300 or 400 mesh
- ◆ 3.05mm diameter

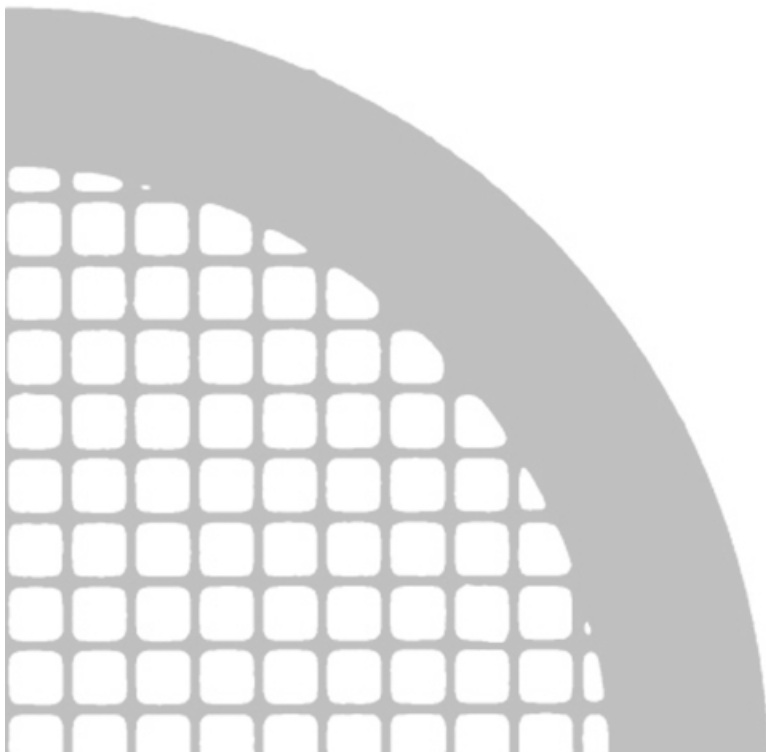
Type	Copper	Nickel	Gilded	Platinised
Athene 12.5µm Slot	AGG220-1	AGG220N1	AGG220G1	AGG220P1
Athene 25µm Slot	AGG220-3	AGG220N3	AGG220G3	AGG220P3
Athene 60µm Slot	AGG220-4	AGG220N4	AGG220G4	AGG220P4
Athene 125µm Slot	AGG220-5	AGG220N5	AGG220G5	AGG220P5
Athene 500µm Slot	AGG220-6	AGG220N6	AGG220G6	AGG220P6
Athene 1000µm Slot	AGG220-7	AGG220N7	AGG220G7	AGG220P7
Athene 1000µm Slot + Single Bar	AGG220-8	AGG220N8	AGG220G8	AGG220P8
Athene Robertson	AGG218	AGG218N	AGG218G	AGG218P
Athene Sjostrand	AGG221	AGG221N	AGG221G	AGG221P
Athene Polyslot	AGG227	AGG227N	AGG227G	AGG227P

Type	Pattern	Lines per inch	Nominal pitch (µm)	Approx. Hole Size (µm)	Approx. Bar Width (µm)
 Athene 2mm x 12.5µm Slot	Slot	-	-	Slot width: 12.5	-
 Athene 2mm x 25µm Slot	Slot	-	-	Slot width: 25	-
 Athene 2mm x 60µm Slot	Slot	-	-	Slot width: 60	-
 Athene 2mm x 125µm Slot	Slot	-	-	Slot width: 125	-
 Athene 2mm x 500µm Slot	Slot	-	-	Slot width: 500	-
 Athene 2mm x 1000µm Slot	Slot	-	-	Slot width: 1000	-
 Athene 2mm x 1000µm Slot + Bar	Slot	-	-	Slot width: 1000 + single bar	-
 Athene Robertson	Multiple slot	-	100	Slot width: 90	10
 Athene Sjostrand	Multiple slot	-	-	Slot width: 55 & 25	-
 Athene Polyslot	Multiple slot	-	-	Slot width: 55, 125, 250, 720, 480, 340	-

- ◆ Double thickness slot grids
- ◆ Copper, nickel, gilded and platinised
- ◆ Slot sizes: 500µm and 1000µm
- ◆ 3.05mm diameter

Type	Copper	Nickel	Gilded	Platinised
Athene 500µm Slot	AGG220T6	AGG220TN6	AGG220TG6	AGG220TP6
Athene 1000µm Slot	AGG220T7	AGG220TN7	AGG220TG7	AGG220TP7



	Type	Pattern	Lines per inch	Nominal pitch (µm)	Approx. Hole Size (µm)	Approx. Bar Width (µm)
	Athene Thick 2mm x 500µm Slot	Thick Slot	-	-	Slot width: 500	-
	Athene Thick 2mm x 1000µm Slot	Thick Slot	-	-	Slot width: 1000	-

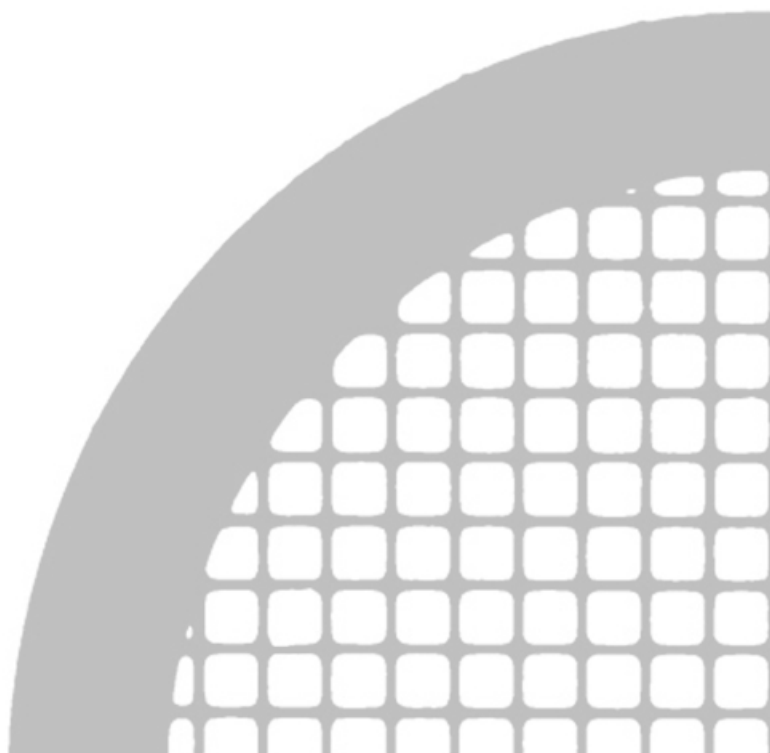


# Athene Hexagon Pattern Grids

- ◆ Hexagon pattern grids
- ◆ Copper, nickel, gilded and platinised
- ◆ 100 or 150 mesh
- ◆ 3.05mm diameter

Type	Copper	Nickel	Gilded	Platinised
Athene Hexagon 100	AGG214	AGG214N	AGG214G	AGG214P
Athene Hexagon 150	AGG2145	AGG2145N	AGG2145G	AGG2145P




Type	Pattern	Lines per inch	Nominal pitch (µm)	Approx. Hole Size (µm)	Approx. Bar Width (µm)
 Athene Hexagon 100	Hexagon	100	250	225	17
 Athene Hexagon 150	Hexagon	150	150	130	20

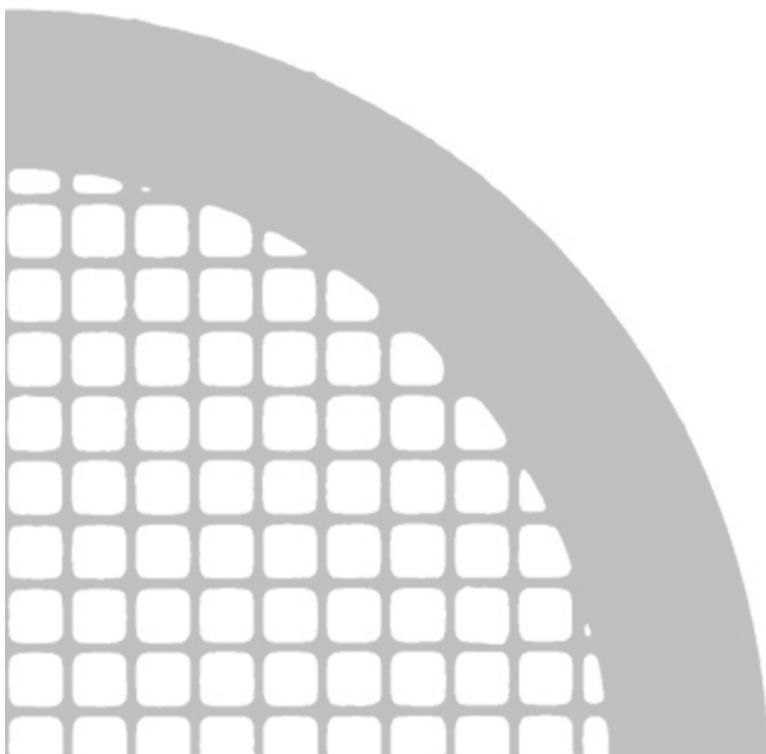


# Athene Round Hole Pattern Grids

- ◆ Round hole pattern grids
- ◆ Copper, nickel, gilded and platinised
- ◆ 180, 300 and 750 mesh
- ◆ 100µm, 35µm, 20µm hole diameters
- ◆ 3.05mm diameter

Type	Copper	Nickel	Gilded	Platinised
Athene 483	AGG219	AGG219N	AGG219G	AGG219P
Athene AEI	AGG215	AGG215N	AGG215G	AGG215P
Athene R20m	AGG226	AGG226N	AGG226G	AGG226P

Type	Pattern	Lines per inch	Nominal pitch (µm)	Approx. Hole Size (µm)	Approx. Bar Width (µm)
 Athene 483	Round hole	180	140	100	40
 Athene AEI	Round hole	300	75	35	40
 Athene R20m	Round hole	750	33	20	13


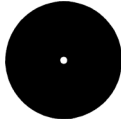







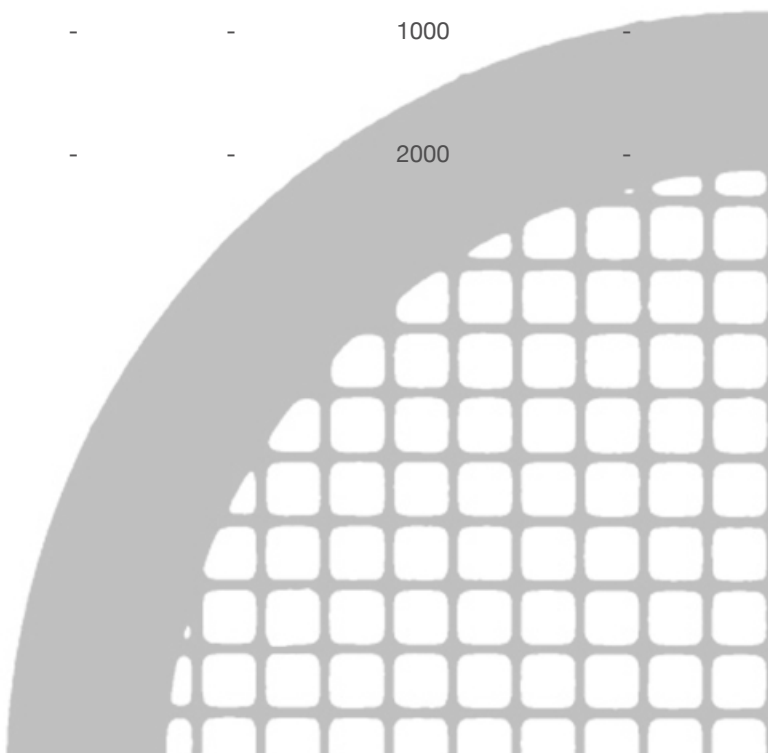


## Athene Single Hole Grids

- ◆ Slot and multiple slot grids
- ◆ Copper, nickel, gilded and platinised
- ◆ Slot sizes: 12.5µm to 1000µm
- ◆ Multiple slot grids: Robertson, Sjostrand and Polyslot
- ◆ 200, 300 or 400 mesh
- ◆ 3.05mm diameter

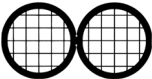
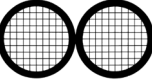


Type	Copper	Nickel	Gilded	Platinised
Athene 100µm Hole	AGG225-1	AGG225N1	AGG225G1	AGG225P1
Athene 200µm Hole	AGG225-2	AGG225N2	AGG225G2	AGG225P2
Athene 375µm Hole	AGG225-3	AGG225N3	AGG225G3	AGG225P3
Athene 600µm Hole	AGG225-4	AGG225N4	AGG225G4	AGG225P4
Athene 800µm Hole	AGG225-5	AGG225N5	AGG225G5	AGG225P5
Athene 1000µm Hole	AGG225-6	AGG225N6	AGG225G6	AGG225P6
Athene 2000µm Hole	AGG225-7	AGG225N7	AGG225G7	AGG225P7

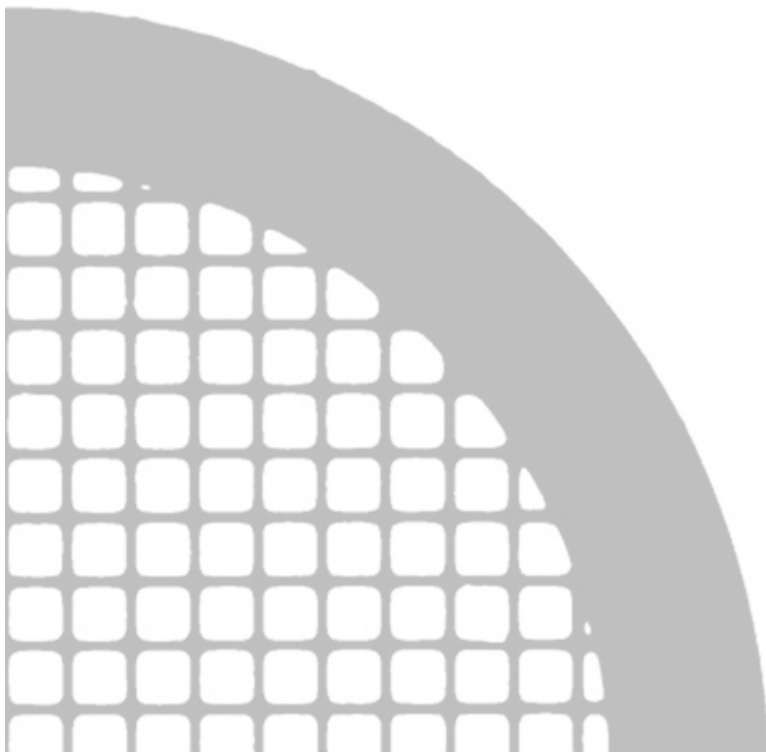
Type	Pattern	Lines per inch	Nominal pitch (µm)	Approx. Hole Size (µm)	Approx. Bar Width (µm)	
	Athene 100µm Hole	Single hole	-	-	100	-
	Athene 200µm Hole	Single hole	-	-	200	-
	Athene 375µm Hole	Single hole	-	-	375	-
	Athene 600µm Hole	Single hole	-	-	600	-
	Athene 800µm Hole	Single hole	-	-	800	-
	Athene 1000µm Hole	Single hole	-	-	1000	-
	Athene 2000µm Hole	Single hole	-	-	2000	-



- ◆ Square pattern or single hole grids
- ◆ Copper, nickel, gilded and platinised
- ◆ 50, 100 and 200 mesh
- ◆ 1000µm hole diameters
- ◆ 3.05mm diameter

Type	Copper	Nickel	Gilded	Platinised
Athene D50	AGG211	AGG211N	AGG211G	AGG211P
Athene D100	AGG212	AGG212N	AGG212G	AGG212P
Athene D200	AGG213	AGG213N	AGG213G	AGG213P
Athene D1000	AGG2130	AGG2130N	AGG2130G	AGG2130P

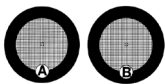
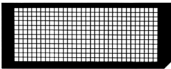


Type	Pattern	Lines per inch	Nominal pitch (µm)	Approx. Hole Size (µm)	Approx. Bar Width (µm)
 Athene D50	Square, folding	50	500	480 x 480	24/25
 Athene D100	Square, folding	100	250	220 x 220	25
 Athene D200	Square, folding	200	125	105 x 105	25
 Athene D1000	Single hole, folding	-	-	1000	-



## Athene Special Grids

- ◆ Identigrids - clear, positive specimen identification
- ◆ Serial section - long, uninterrupted field of view
- ◆ CompuStage - specially designed for FEI/Philips CompuStage
- ◆ Tomography - specifically designed for Fischione tomography specimen holders

Type	Copper	Nickel	Gilded	Platinised
Identigrids	AGG2840 to AGG2875	-	-	-
Serial Section Grids	AGB7753	AGB7753N	-	-
FEI - Philips CompuStage Grids	AGG2395C	-	-	-
Tomography Grid	AGG2396	-	-	-

Type	Pattern	Lines per inch	Nominal pitch (µm)	Approx. Hole Size (µm)	Approx. Bar Width (µm)	
	Identigrids	Square	400	62.5	47 x 47	15
	Serial Section Grids	Square	100	255	200	55
	FEI - Philips CompuStage Grids	Slot	-	-	Slot width: 1000	-
	Tomography Grid	Square	300	80	65	15



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