

Select Cylinder type and size

	euro profile single	euro profile double	euro profile single & turn	euro profile turn / turn	euro profile single turn
cylinder ref.	ES40 ES45 ES50 ES55 ES75	ED3030 ED3035 ED3535 ED3040 ED3045 ED3540 ED4040 ED3050 ED3545 ED3055 ED3550 ED4045 ED4545 ED4050 ED4550 ED5050	EK3030T EK3035T EK3530T EK3535T EK3040T EK4030T EK3540T EK4035T EK4040T	EKK3030 EKK3535 EKK4040	ESK40 ESK45
dimensions a (b/c)	40 (30/10) 45 (35/10) 50 (40/10) 55 (45/10) 75 (65/10)	60 (30/30) 65 (30/35) 70 (35/35) 70 (30/40) 75 (30/45) 75 (35/40) 80 (40/40) 80 (30/50) 80 (35/45) 85 (30/55) 85 (35/50) 85 (40/45) 90 (45/45) 90 (40/50) 95 (45/50) 100 (50/50)	60 (30/30) 65 (30/35) 65 (35/30) 70 (35/35) 70 (30/40) 70 (40/30) 75 (35/40) 75 (40/35) 80 (40/40)	60 (30/30) 70 (35/35) 80 (40/40)	40 (30/10) 45 (35/10)
	Other lengths in 5mm increments up to 60/60				
TIGRIS® Standard					
TIGRIS® Plus					
TIGRIS® Omega					
TIGRIS® Premier TWO					

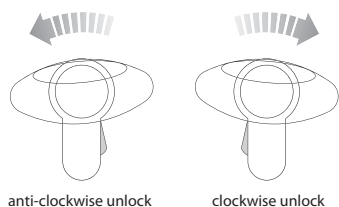
Other Cylinders

	Scandinavian cylinders Ext/Int/Pair	Rim cylinder Ref: RC	Rim mortice cylinder Ref: RM	Cam cylinder Ref: CL	Rim mortice turn cylinder Ref: RMK	Padlock Open shackle Steel - SS50EM	Padlock Closed shackle Steel - SS50CEM
Tigris® Standard							
Tigris® Plus							
Tigris® Omega							
Tigris® Premier TWO							

Specifier Beware

1. Accessible Turns are **not** recommended for use on cylinders with Classroom Function.
2. Take care when specifying Clutch Function for applications with high traffic doors that must remain locked (e.g secure hospital). Omega or Premier cylinders should be specified as they have nickel silver keys which are more resistant to excessive wear.

Classroom Function - Unlock direction



Door and frame configurations	Accessible Turn Standard	Accessible Turn Mini
Inward opening door	min. backset 55mm	min. backset 35mm
Outward opening door 12.5 - 15mm frame stop	min. backset 70mm	min. backset 50mm
Outward opening door 25mm frame stop	min. backset 80mm	min. backset 60mm
57mm centre lockcase	not suitable	suitable
72mm centre lockcase	suitable	suitable

Specifier Beware

Accessible Turns

Because of the extra 'operating circle' of the Accessible Turns they are not universal and should be specified dependant upon door and lock configurations.

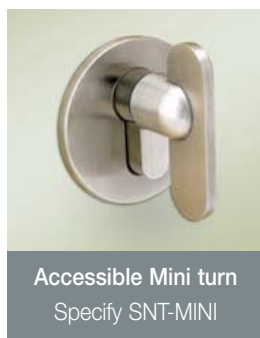
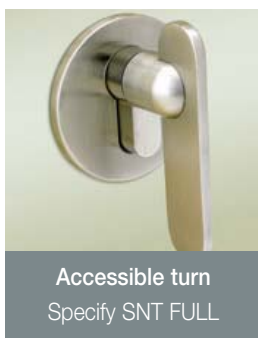
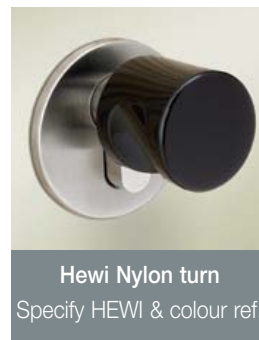
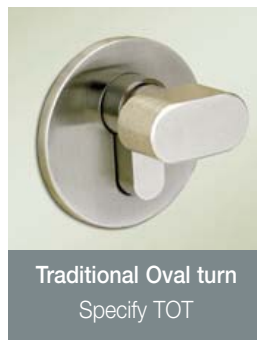
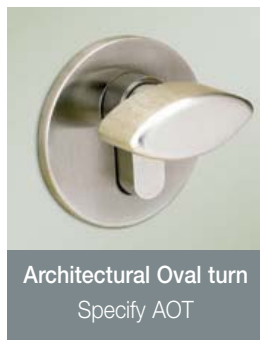
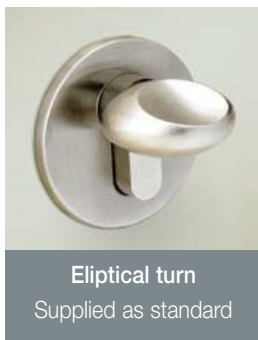
Additional functions Alternative thumbturns & additional key bows Finish

dimensions a (b/c)	oval single		oval double		oval single & turn		Clutch Function - Specify CLUTCH	Classroom Function - Specify CLASS & Unlock direction (see below left)	Construction Keying - Specify CONSTRUCT	Architectural Oval Turn - Specify AOT	Traditional Oval Turn - Specify TOT	Accessible Turn Full - Specify SNT FULL	Accessible Turn Mini - Specify SNT MINI	Hewi Nylon Turn - Specify HEWI & Colour	Anti Ligature Turn - Specify A-LIG	Key Bow Red - Specify BOW RED	Key Bow Blue - Specify BOW BLUE	Satin Chrome Finish - Specify SC	Polished Brass Finish - Specify PB	Polished Chrome Finish - Specify PC	Bronze Finish - Specify BMA
	40 (30/10)	OS40	45 (35/10)	OS45	60 (30/30)	OD3030															
TIGRIS® SUBMINI																					
TIGRIS® MINI																					
TIGRIS® MINI																					
TIGRIS® MINI																					

● See **Specifier Beware** opposite

Cylinder Turn Options

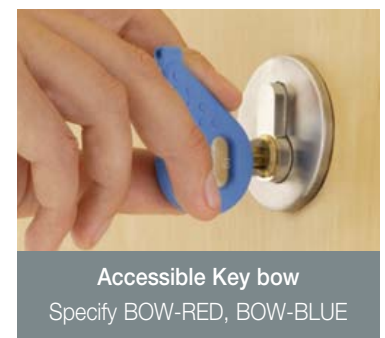
* Requires the use of specific anti-ligature escutcheon



Accessible Key Bows

Designed specifically for to meet the requirement for improved grip and leverage for key bows as stipulated in BS 8300:2009.

Available in Red or Blue



Tigris® - Technical Information

BS EN 1303:2005 Cylinders for Locks



BS EN1303 classifies cylinders for locks using an 8 digit coding system. Features tested include durability, fire resistance, key related security and attack resistance. Where the Tigris® cylinder meets the highest Grade available it is marked with this icon.



Category of Use	Criteria	Grades Available	Tigris Premier Two	Tigris Omega	Tigris Plus
Category of Use	Linked to the frequency of use. 1 Grade only is identified	Grades 1 shall resist a torque of 2.5Nm and still be useable	1	1	1
Durability	Durability testing according to test cycles achieved. 3 Grades are identified	Grade 4 - 25,000 cycles, Grade 5 - 50,000 cycles Grade 6 - 100,000 cycles	6	6	6
Door Mass & Closing Force	No Requirement	N/A	0	0	0
Fire Resistance	Suitability for use on fire/smoke doors according to fire testing to BS EN 1634-1	Grade 0 not approved for fire doors, Grade 1 is suitable for use on fire doors	1	1	1
Safety	No requirement	N/A	0	0	0
Corrosion	Corrosion and temperature resistance testing to BS EN 1670	Grades 0 to C where C offers the greatest corrosion resistance within -20°C to +80°C	C	C	C
Key Related Security	Measures key related security	Grades 1 to 6 where grade 6 offers the greatest security	6	6	5
Attack Resistance	Measures attack resistance	Grade 0, 1 or 2, where Grade 2 offers the greatest attack resistance*	2	2	2

* only when used with a suitable security escutcheon



Padlocks

Open shackle and closed shackle padlocks are available utilising a single Tigris® cylinder.

Product Ref.	Style	Suitable for:	Body material	Shackle material	Successfully tested to BS EN12320:2001 CEN Security Level	Successfully tested to BS EN1670:2007 Salt Test
SS50 EM	Open shackle	High security, general environments	Electrophoretic coated steel	Boron steel	4	480 hours
SS50 EM 2.5	Open shackle Extended	High security, general environments	Electrophoretic coated steel	Boron steel	4	480 hours
SS50 CEM	Closed shackle	High security, general environments	Electrophoretic coated steel	Boron steel	4	480 hours
SS50 EM MARINE	Open shackle	High security, severe environments	Electrophoretic coated steel	Stainless steel	3	480 hours
SS50 EM 2.5 MARINE	Open shackle Extended	High security, severe environments	Electrophoretic coated steel	Stainless steel	3	480 hours
SS50 CEM MARINE	Closed shackle	High security, severe environments	Electrophoretic coated steel	Stainless steel	3	480 hours



Selecting the correct cylinder length

It is important to specify the correct cylinder length, not only visually, but by making sure the cylinder does not project too far from the escutcheon or plate. This makes it less vulnerable to attack.

Three factors should be considered:

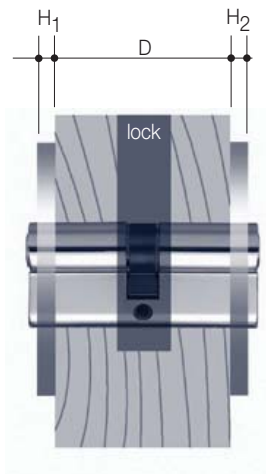
- Thickness of the door
- Thickness of the hardware
- The position of the lock within the door

For centred locks

Simply calculate the overall length of cylinder:

$$\text{Cyl. Length} = D + H_1 + H_2$$

Select the 'next size up' from the list of cylinder sizes in the product selector.



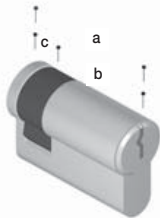
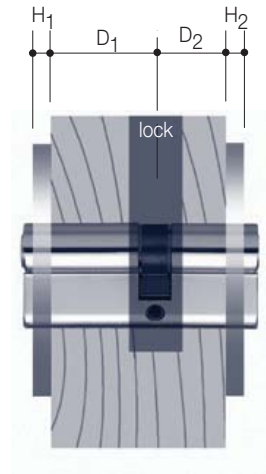
For Offset Locks

With the lock offcentre in the door each side of the cylinder has to be calculated separately:

$$\text{Cyl. length} = (D_1 + H_1) + (D_2 + H_2)$$

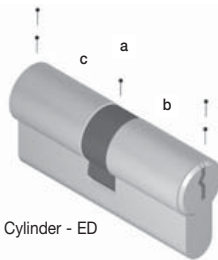
Select the nearest combination up from the list of cylinder sizes.

Note: Please ensure that when specifying a single & turn cylinder that you make clear which side the turn is to be fitted by adding a 'T' after the size e.g. EK3540T

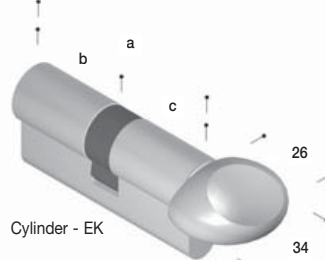


Cylinder - ES

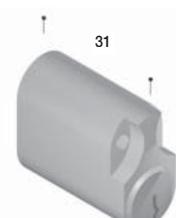
note: oval cylinders similarly dimensioned



Cylinder - ED



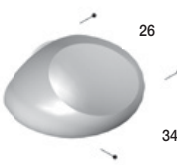
Cylinder - EK



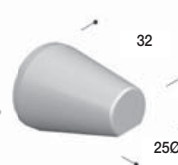
SK3 shown.

SK1 dimension is identical

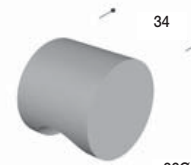
Elliptical Turn



Anti-Ligature Turn



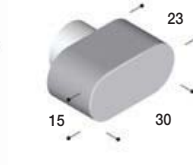
Coloured Nylon Turn



Architectural Oval Turn



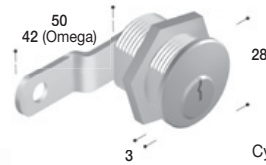
Traditional Oval Turn



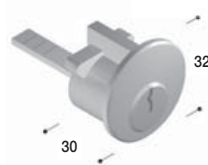
Accessible Turns



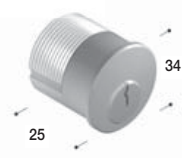
Cam Lock - CL



Cylinder - RC



Cylinder - RM

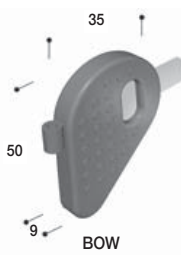
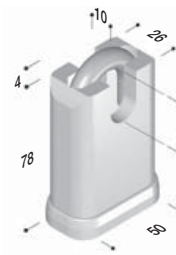


SS50EM



* Also available with 54mm clearance
SS50EM2.5

SS50CEM



BOW