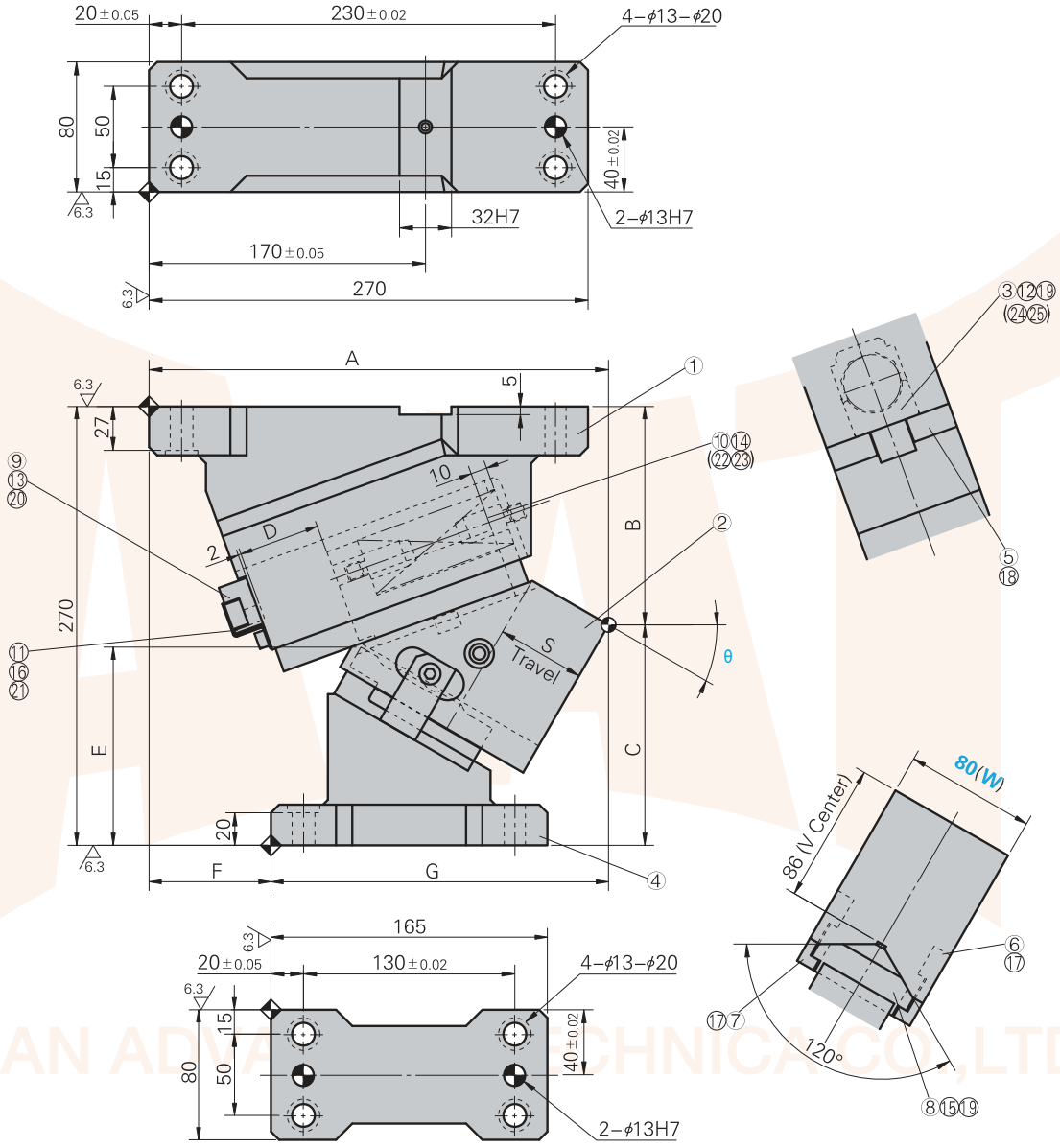
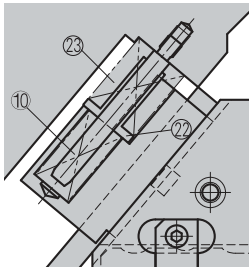
Aerial Cam Unit
- B-UCMSC/ B-UCMSF -

* This drawing shows B-UCMSC80

B-UCMSC80 (00° ~ 70°)
B-UCMSF80 (00° ~ 70°)



■ **Spring Specification for B-UCMSF80**



Aerial Cam Unit
- B-UCMSC/ B-UCMSF -

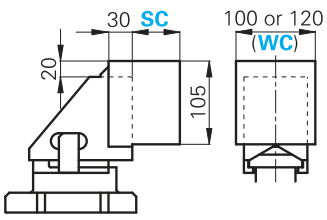
W	θ	S	A	B	C	D	E	F	G
B-UCMSC80 B-UCMSF80	0	32.10	260.00	99.00	171.00	50	83.00	-100	160.00
	5	38.40	272.93	109.39	160.61		83.80		172.93
	10	38.90	279.92	120.43	149.57		84.60		179.92
	15	39.70	285.93	132.04	137.96		85.30		185.93
	20	46.10	285.90	129.12	140.88		100.90	-90	195.90
	25	47.80	289.80	141.60	128.40		101.50		199.80
	30	54.30	282.59	134.36	135.64		121.90	-75	207.59
	35	57.40	284.27	147.32	122.68		122.30		209.27
	40	64.30	274.80	140.38	129.62		142.60	-60	214.80
	45	69.60	274.20	153.44	116.56		142.70		214.20
	50	77.80	262.46	151.39	118.61		157.80	-35	227.46
	55	87.20	259.60	164.14	105.86				224.60
	60	98.50	240.64	176.59	93.41		157.70	0	240.64
	65	81.60	235.61	188.65	81.35	35	157.40	5	240.61
	70	86.40	227.83	195.53	74.47	30	157.10	10	237.83

Option Code	Specification
K	Dedicated key is attached. (It is not assembled to the main unit.)
SC	The mount surface is extended forward in the range of 0 to 60 mm (in increments of 1 mm).
WC	The mount width is changed to 100 or 120.WC100 or WC120 to be ordered.
N16	The dowel pin holes for the cam holder and cam driver are changed to Ø16H7.

Order No :

Catalog No.	(W)	-	(θ)
B - UCMSC	80	-	70
B - UCMSF	80	-	70

■ **Option of SC or WC**



Aerial Cam Unit
- B-UCMSC/ B-UCMSF -

Table of Components B-UCMSC 80

θ = 0 ~ 60

No.	Description	Qty	Material and Remark
①	Cam Holder	1	QT500
②	Cam Slider	1	HT250
③	Cam Lower Driver	1	QT500
④	Cam Dirver	1	QT500
⑤	Slide Plate	2	Q235
⑥	Positive Return A	1	45
⑦	Positive Return B	1	45
⑧	Cam Slide Guide	1	Bronze
⑨	Stopper Plate	1	Q235
⑩	Spring Guide Pin	2	Q235
⑪	Safety Plate	1	Q235
⑫	Key	1	45
⑬	Stopper	2	Urethane
⑭	Coil Spring	1	
⑮	Dowel Pin with Female Thread	2	ø 10 x 40
⑰	Hexagon Socket Brazier Head Bolt	2	LCS8-18
⑱	Hexagon Socket Head Bolt	6	M 8 x 20
⑲	Hexagon Socket Head Bolt	4	M 10 x 35
⑳	Hexagon Socket Head Bolt	2	M 10 x 30
㉑	Hexagon Socket Head Bolt	2	M 6 x 10

θ = 65

No.	Description	Qty	Material and Remark
①	Cam Holder	1	QT500
②	Cam Slider	1	HT250
③	Cam Lower Driver	1	QT500
④	Cam Dirver	1	QT500
⑤	Slide Plate	2	Q235
⑥	Positive Return A	1	45
⑦	Positive Return B	1	45
⑧	Cam Slide Guide	1	Bronze
⑨	Stopper Plate	1	Q235
⑩	Spring Guide Pin	2	Q235
⑪	Safety Plate	1	Q235
⑫	Key	1	45
⑬	Stopper	2	Urethane
⑭	Coil Spring	1	
⑮	Dowel Pin with Female Thread	2	ø 10 x 40
⑰	Hexagon Socket Brazier Head Bolt	2	LCS8-18
⑱	Hexagon Socket Head Bolt	6	M 8 x 20
⑲	Hexagon Socket Head Bolt	4	M 10 x 35
⑳	Hexagon Socket Head Bolt	2	M 10 x 30
㉑	Hexagon Socket Head Bolt	2	M 6 x 10
㉒	Spacer	1	Q235
㉓	Hexagon Socket Head Bolt	1	M 10 x 25

θ = 70

No.	Description	Qty	Material and Remark
①	Cam Holder	1	QT500
②	Cam Slider	1	HT250
③	Cam Lower Driver	1	QT500
④	Cam Dirver	1	QT500
⑤	Slide Plate	2	Q235
⑥	Positive Return A	1	45
⑦	Positive Return B	1	45
⑧	Cam Slide Guide	1	Bronze
⑨	Stopper Plate	1	Q235
⑩	Spring Guide Pin	1	Q235
⑪	Safety Plate	1	Q235
⑫	Key	1	45
⑬	Stopper	2	Urethane
⑭	Coil Spring	1	
⑮	Dowel Pin with Female Thread	2	ø 10 x 40
⑰	Hexagon Socket Brazier Head Bolt	2	LCS8-18
⑱	Hexagon Socket Head Bolt	6	M 8 x 20
⑲	Hexagon Socket Head Bolt	4	M 10 x 35
⑳	Hexagon Socket Head Bolt	2	M 10 x 30
㉑	Hexagon Socket Head Bolt	2	M 6 x 10
㉒	Spacer	1	Q235
㉓	Hexagon Socket Head Bolt	2	M 10 x 45

Table of Components B-UCMSF 80

θ = 0~60

No.	Description	Qty	Material and Remark
①	Cam Holder	1	QT500
②	Cam Slider	1	HT250
③	Cam Lower Driver	1	QT500
④	Cam Dirver	1	QT500
⑤	Slide Plate	2	Q235
⑥	Positive Return A	1	45
⑦	Positive Return B	1	45
⑧	Cam Slide Guide	1	Bronze
⑨	Stopper Plate	1	Q235
⑩	Spring Guide Pin	2	Q235
⑪	Safety Plate	1	Q235
⑫	Key	1	45
⑬	Stopper	2	Urethane
⑭	Coil Spring	1	
⑮	Dowel Pin with Female Thread	2	ø 10 x 40
⑰	Hexagon Socket Brazier Head Bolt	2	LCS8-18
⑱	Hexagon Socket Head Bolt	6	M 8 x 20
⑲	Hexagon Socket Head Bolt	2	M 10 x 35
⑳	Hexagon Socket Head Bolt	2	M 10 x 30
㉑	Hexagon Socket Head Bolt	2	M 6 x 10
㉒	Spacer	1	Q235
㉓	Coil Spring	1	
㉔	Hexagon Socket Head Bolt	2	M 10 x 25
㉕	Spring Washer	2	M12

θ = 65, 70

No.	Description	Qty	Material and Remark
①	Cam Holder	1	QT500
②	Cam Slider	1	HT250
③	Cam Lower Driver	1	QT500
④	Cam Dirver	1	QT500
⑤	Slide Plate	2	Q235
⑥	Positive Return A	1	45
⑦	Positive Return B	1	45
⑧	Cam Slide Guide	1	Bronze
⑨	Stopper Plate	1	Q235
⑩	Spring Guide Pin	1	Q235
⑪	Safety Plate	1	Q235
⑫	Key	1	45
⑬	Stopper	2	Urethane
⑭	Coil Spring	1	
⑮	Dowel Pin with Female Thread	2	ø 10 x 40
⑰	Hexagon Socket Brazier Head Bolt	2	LCS8-18
⑱	Hexagon Socket Head Bolt	6	M 8 x 20
⑲	Hexagon Socket Head Bolt	2	M 10 x 35
⑳	Hexagon Socket Head Bolt	2	M 10 x 30
㉑	Hexagon Socket Head Bolt	2	M 6 x 10
㉒	Bushing	1	Q235
㉓	Coil Spring	1	
㉔	Hexagon Socket Head Bolt	2	M 10 x 25
㉕	Spring Washer	2	M12

Aerial Cam Unit
- B-UCMSC/ B-UCMSF -

Catalog No.	(W)	(θ)	Travel S	Working Force kN(tonf)		Spring Force N (kgf)		Total Weight kg
				Standard Working Force (one million strokes)	Allowable Working Force (300,000 strokes)	Initial Load	Final Load	
B-UCMSC B-UCMSF	80	00	32.1	39.2 (4.0) 54.9 (5.6)	78.4 (8.0) 109.8 (11.2)	270.6 (27.6) 127.4 (13.0)	1623.6 (165.7) 3250.0 (331.4)	25.9
		05	38.4					26.3
		10	38.9					26.6
		15	39.7					25.1
		20	46.1					25.3
		25	47.8					
		30	54.3					23.2
		35	57.4					23.4
		40	64.3					22.4
		45	69.6					
		50	77.8					21.6
		55	87.2					21.7
		60	98.5					23.2
		65	81.6			324.7 (33.1)	1461.2 (149.1)	23.7
						98.0 (10.0)	3250.0 (331.4)	
		70	86.4			405.8 (41.4)	1623.2 (165.6)	23.9
						159.3 (16.3)	3250.0 (331.4)	

Aerial Cam Unit
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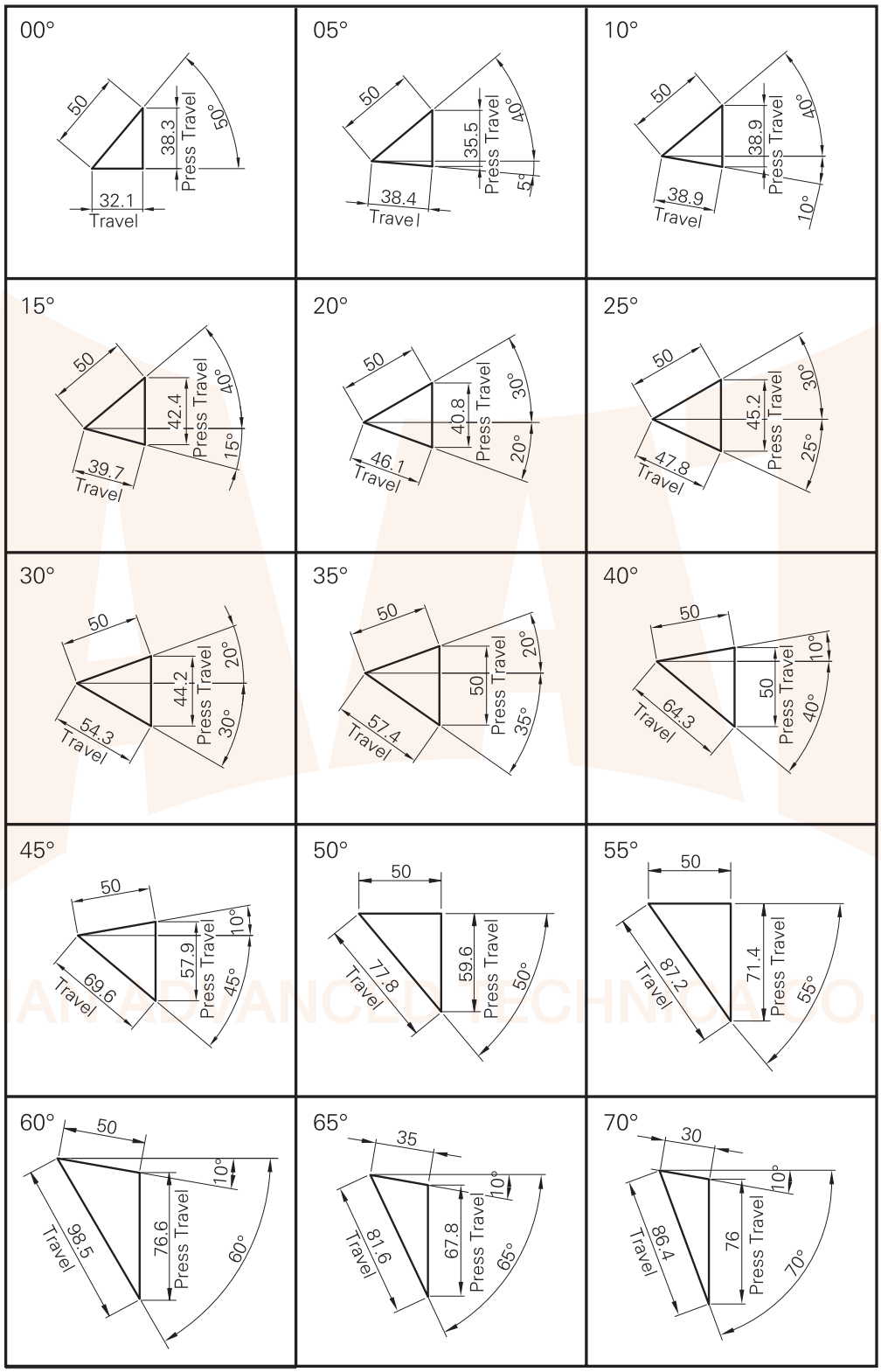
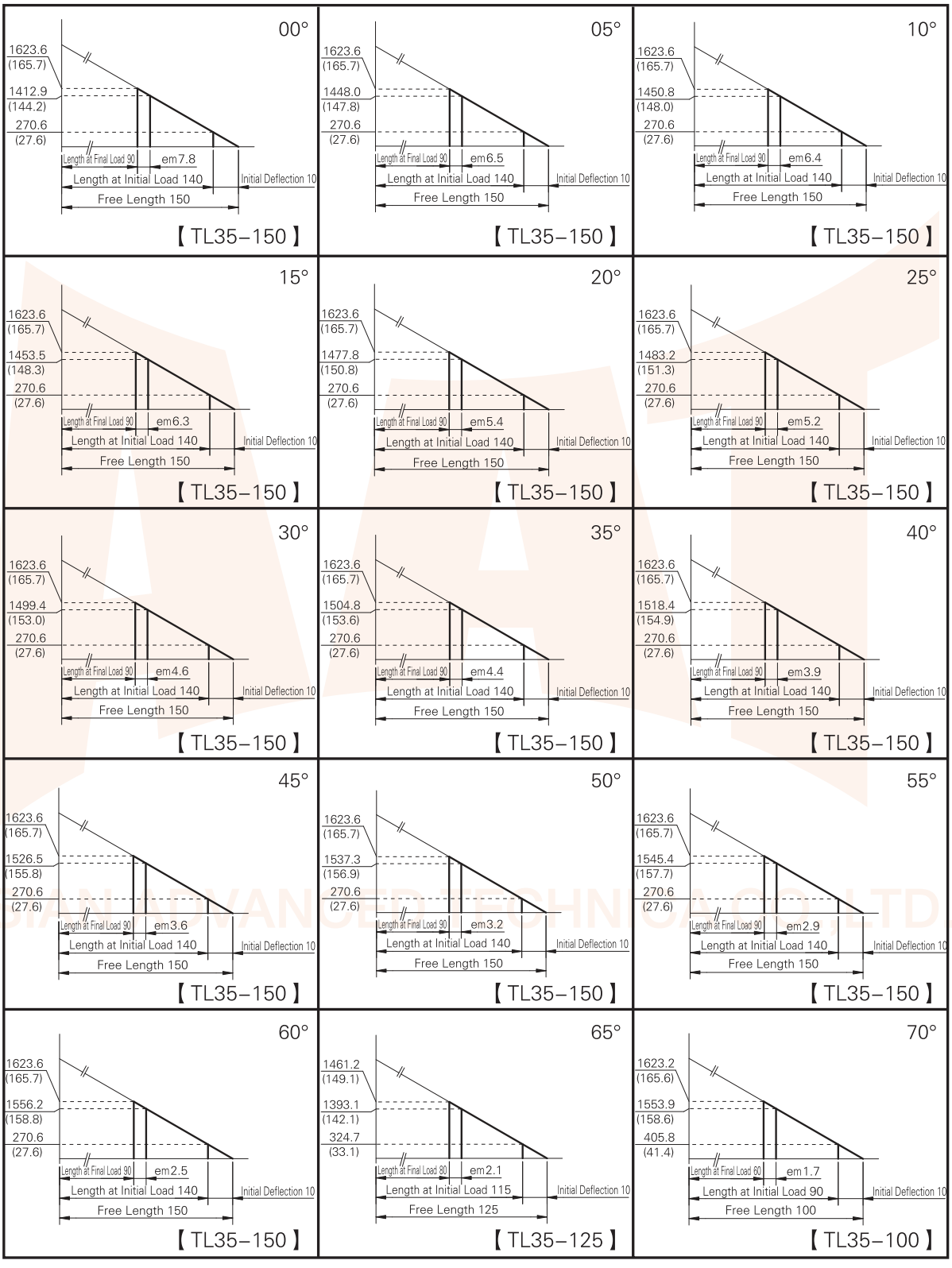
Cam Diagram



Aerial Cam Unit
- B-UCMSC/ B-UCMSF -

Spring Diagram

B-UCMSC



Spring Diagram

B-UCMSF