

Cylinder

SC
SC(Big)
SCT
SCF
SU
SUF
SI
SIF
DNC
QGB
QGBZ
NCQ2
NCQ2(Big)
NCQ2(Long)
NCQS
NCQM
NRQ
SDA
ADVU
ACE(AND)
MAL
MA
MI
NCM2
NCJ2
NCG1
NCJP



Specifications

Bore size(mm)	6	10	16	20	25	32	40
Operation	Double acting						
Fluid	Air						
Pressure range (kgf/cm²(kpa))	1~8.5(100~850)bar						
Max. service pressure (kgf/cm²(kpa))	9(900)bar						
Operating ambient temperature range (°C)	0~60						
Range of service speed (mm/sec)	50~700						
Stroke adjusting range	-5~0						
Port size	M3x0.5p	M5x0.8p				1/8"	
Sensor device	With magnet						

Note: PT thread, G thread and NPT thread are available.

Standard stroke

Bore size (mm)	Standard stroke	Adjusting range
6	10, 20, 30, 40, 50	
10	10, 20, 25, 30, 40, 50, 75, 100	
16	10, 20, 25, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250	
20	10, 20, 25, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250	-5~0
25	10, 20, 25, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250	
32	10, 20, 25, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250	
40	10, 20, 30, 40, 50, 75, 100, 125, 150	

Ordering code

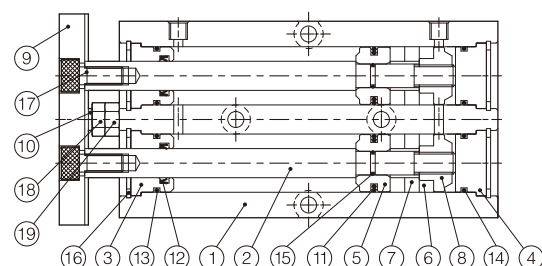
TD		10	×	50	-		SD		2
Model		Stroke			Sensor switch				
TD	Dual rod cylinder	6	10~50 mm		Blank	Without sensor switch			
Bore size		10	10~100 mm		SE	Sensor switch code(CS-30E)			
6	6mm	16	10~250 mm		SD	Sensor switch code (CS-9D)			
10	10mm	20	10~250 mm		SB	Sensor switch code (CS-9B)			
16	16mm	25	10~250 mm		Note: Φ6, Φ40 are not suitable.				
20	20mm	32	10~250 mm		Number of sensor switch				
25	25mm	40	10~150 mm		1	1 pcs			
32	32mm				2	2 pcs			
40	40mm								

Theoretical force

Bore size(mm)	Piston rod dia(mm)	Action	Piston area (cm²)	Air pressure (kgf/cm²)						
				1	2	3	4	5	6	7
6	4	Push	0.5	-	1.0	1.5	2.0	2.5	3.0	3.5
		Pull	0.3	-	0.6	0.9	1.2	1.5	1.8	2.1
10	6	Push	1.5	-	3.1	4.7	6.2	7.8	9.3	10.9
		Pull	1.0	-	2.0	3.0	4.0	5.0	6.0	7.0
16	8	Push	4.0	4.0	8.0	12.0	16.0	20.1	24.1	28.1
		Pull	3.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0
20	10	Push	6.2	6.2	12.5	18.8	25.1	31.4	37.6	43.9
		Pull	4.7	4.7	9.4	14.1	18.8	23.5	28.2	32.9
25	12	Push	9.8	9.8	19.6	29.4	39.2	49.1	58.8	68.5
		Pull	7.5	7.5	15.1	22.6	30.2	37.7	45.3	52.8
32	16	Push	16.0	16.0	32.1	48.2	64.3	80.4	96.4	112.5
		Pull	12.0	12.1	24.1	36.2	48.2	60.3	72.4	84.4
40	20	Push	25.1	25.1	50.3	76.5	100.5	125.7	150.8	175.9
		Pull	18.8	18.8	37.7	26.5	75.4	94.2	131.1	131.9

Note : Above are theoretical data ; please take into consideration the frictional resistance and the mechanical efficiency of value should be added calculation before using. (About 70%~80%)

Inner structure and material of major parts



No.	Item	Material	No.	Item	Material
1	Body	Aluminum alloy	11	Piston packing	NBR
2	Rod	Carbon steel(chrome plated)	12	Rod packing	NBR
3	Front cover	Aluminum alloy	13	Front cover O-Ring	NBR
4	End cover	Aluminum alloy	14	End cover O-Ring	NBR
5	Piston	Copper	15	Piston O-Ring	NBR
6	Wear ring	Teflon	16	Snap	Spring steel
7	Magnet	Rare earth metals/Plastic magnet	17	Screw	Alloy steel
8	Magnet	Copper	18	Screw	Alloy steel
9	Sliding block	Iron / Aluminum alloy	19	Nut	Medium carbon steel
10	Stopper	Rubber / Bearing steel			

Note: TDΦ6, Φ10, Φ16, Φ20 Plate material is Iron; TD Φ25, Φ32, Φ40 Plate material is aluminum alloy.

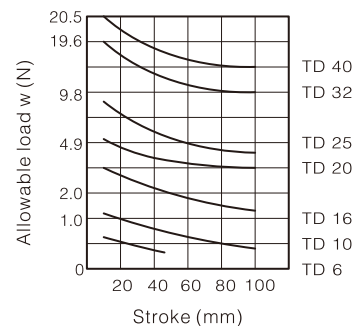
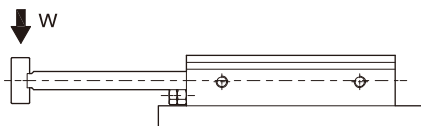
Packing and O-Ring list

Item	Piston packing	Rod packing	End cover O-ring	Front cover O-ring	Piston O-ring
Bore size	No.	2	2	2	2
6	MYA-3(4 PCS)	EM0407	5×1.0	5×1.0	-
10	DYP-10(4 PCS)	EM0609	8×1.0	8×1.0	2.9×1.0
16	PSD-16	EM0811	13.2×1.5	13.2×1.5	8×1.0
20	COP-20	EM1014	17.5×1.5	17.5×1.5	10×1.0
25	COP-25	EM1214	20.8×2.0	20.8×2.0	12×1.0
32	COP-32	EM1620	28.5×2.0	28.5×2.0	16×1.5
40	COP-40	EM2025	36×2.0	36×2.0	20×1.5

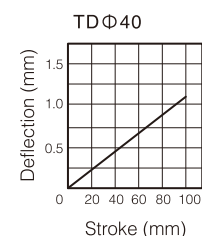
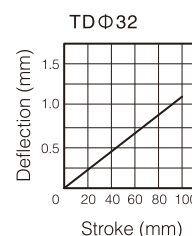
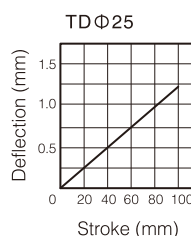
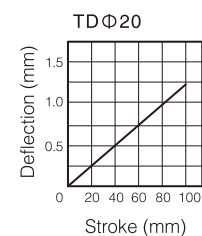
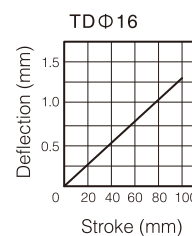
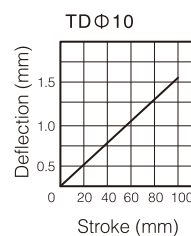
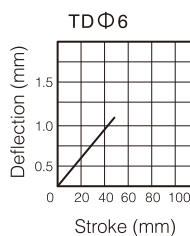
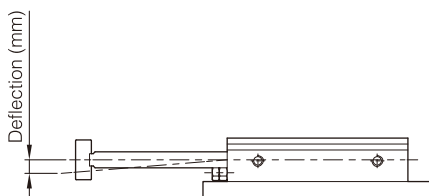
Weight

Bore size(mm)	Weight (kg)										
	Stroke (mm)										
	10	20	30	40	50	75	100	125	150	175	200
6	0.1	0.1	0.1	0.1	0.1	-	-	-	-	-	-
10	0.10	0.11	0.13	0.14	0.15	0.19	0.22	-	-	-	-
16	0.31	0.34	0.36	0.39	0.42	0.49	0.56	0.62	0.69	0.76	0.83
20	0.46	0.49	0.53	0.56	0.60	0.69	0.78	0.87	0.96	1.04	1.13
25	0.77	0.81	0.87	0.92	0.97	1.09	1.15	1.34	1.46	1.61	1.76
32	1.51	1.56	1.68	1.78	1.87	2.08	2.32	2.55	2.77	3.00	3.25
40	2	2.2	2.4	2.7	2.9	3.1	3.4	3.6	3.8	-	-

Allowable load



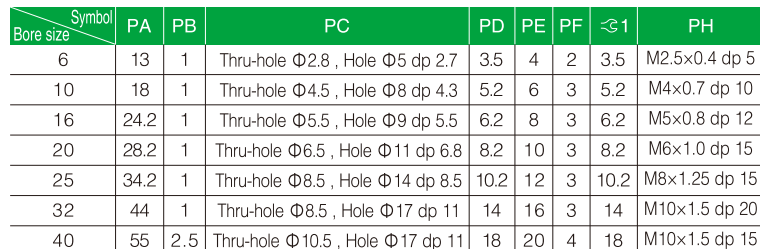
Allowable deflection



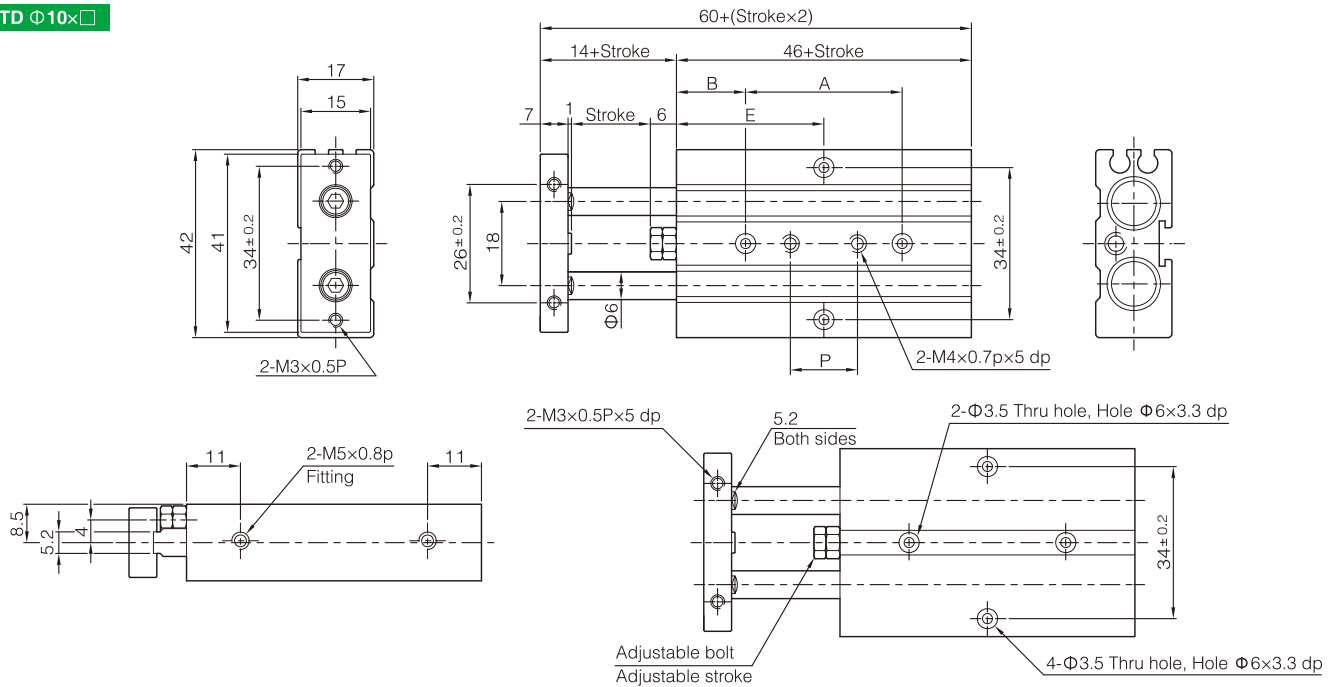
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NCXSW
NMGP
NMGG
NCU
NCUJ
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NCY3R
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NCY1L
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NMHF2
NMHS2
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NMSQ
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NCRQ2
NCRB2
ACK
SRC
QCK
NCK1

Mounting type

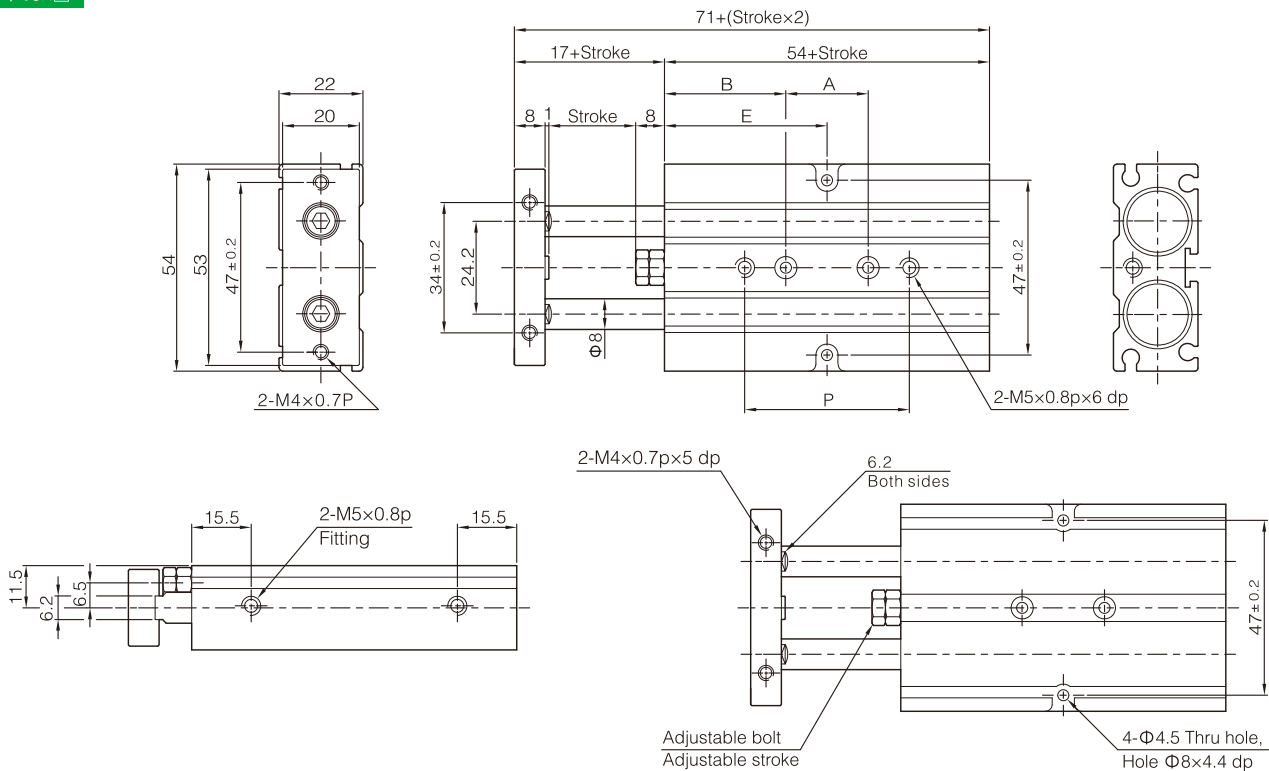
TD $\Phi 6 \times \square$ 

TD $\Phi 10 \times \square$



Code \ Stroke	10	20	25	30	40	50	75	100
A	20	30	35	40	50	60	85	110
B	18	18	18	18	18	18	18	18
C	28	33	35.5	38	43	43	60.5	73
P	-	-	15	20	30	30	65	90

TD $\Phi 16 \times \square$



Code \ Stroke	10	20	25	30	40	50	75	100	125	150	175	200	250
A	20	20	20	20	30	40	60	80	100	100	100	100	120
B	22	27	29.5	32	32	32	34.5	37	39.5	52	64.5	77	92
C	32	37	39.5	42	47	52	64.5	77	89.5	102	114.5	127	152
P	-	-	40	40	50	60	80	100	120	120	120	120	150

Cylinder

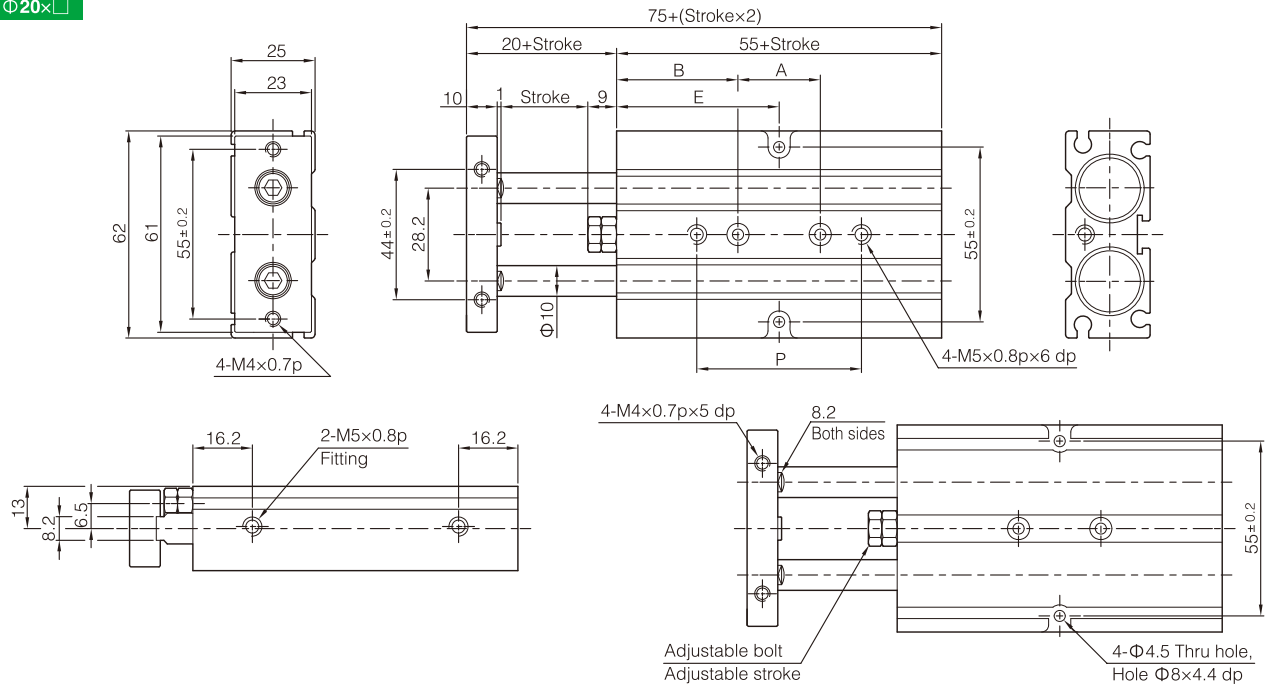
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NCXS
NCXSW
NMGP
NMGG
NCU
NCUJ
NCY3B
NCY3R
NCY1S
NCY1L
STM
NMXH
NMXS
NMXQ
NMHZ2
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NMHT2
NMHW2
NMHF2
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ACK
SRC
QCK
NCK1

Cylinder

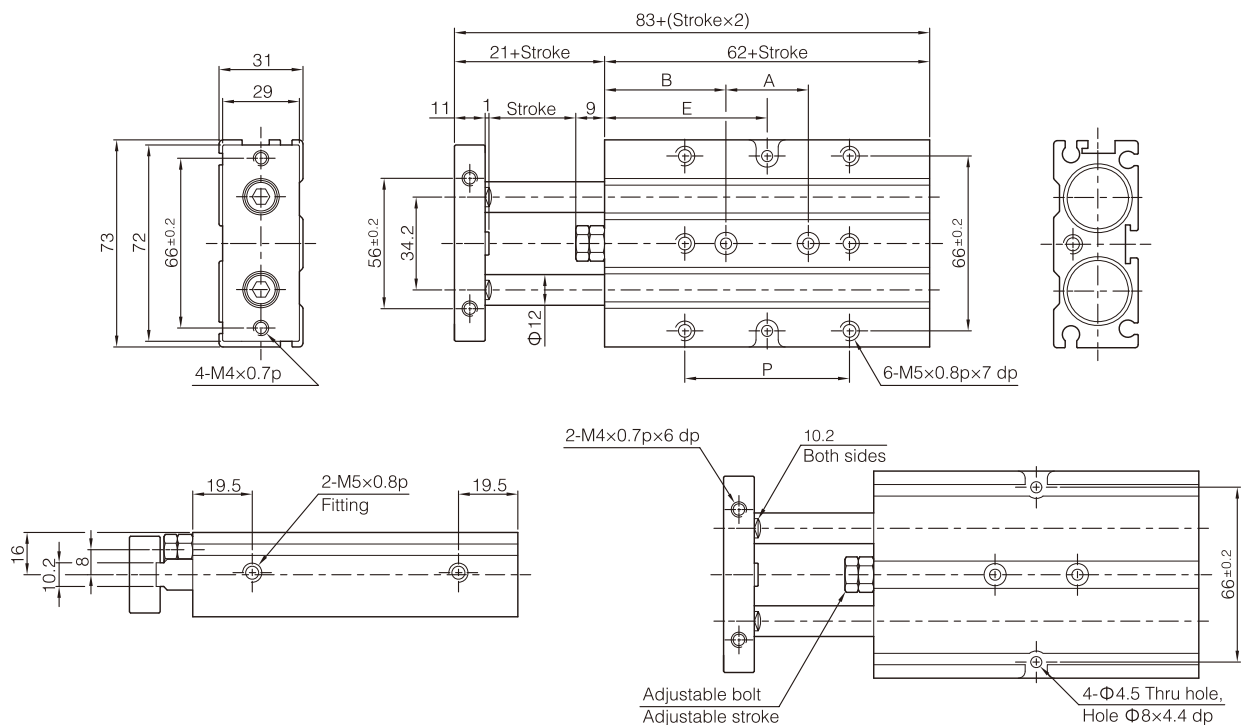
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TD
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NCXS
NCXSW
NMGP
NMGG
NCU
NCUJ
NCY3B
NCY3R
NCY1S
NCY1L
STM
NMXH
NMXS
NMXQ
NMHZ2
NMHC2
NMHL2
NMHY2
NMHT2
NMHW2
NMHF2
NMHS2
NMHS3
NMHS4
NMRHQ
NMSQ
NCRA1
NCRQ2
NCRB2
ACK
SRC
QCK
NCK1

TD $\Phi 20 \times \square$



Code	Stroke	10	20	25	30	40	50	75	100	125	150	175	200	250
A		20	20	20	20	30	40	60	80	100	100	100	100	120
B		22.5	27.5	30	32.5	32.5	32.5	35	37.5	40	52.5	65	77.5	92.5
C		32.5	37.5	40	42.5	47.5	52.5	65	77.5	90	102.5	115	127.5	152.5
P		-	-	40	40	50	60	80	100	120	120	120	120	150

TD $\Phi 25 \times \square$



Code	Stroke	10	20	25	30	40	50	75	100	125	150	175	200	250
A		20	20	20	20	30	40	60	80	100	100	100	100	120
B		26	31	33.5	36	36	36	38.5	41	43.5	56	68.5	81	96
C		36	41	43.5	46	51	56	68.5	81	93.5	106	118.5	131	156
P		-	-	40	40	50	60	80	100	120	120	120	120	150

