Prepare a displacement diagram and a fully dimensioned detail drawing of each of the plate cams in the following table as assigned by the instructor based on the given specifications below:

Base circle diameter : 96 mm
Hub diameter : 40 mm
Shaft diameter : 20 mm
Plate thickness : 25 mm
Hub thickness : 45 mm
Key-way : 3 x 3 mm
Material : Steel

No.	Cam Rotation	Follower Type	Cam Motion
1	CW	Roller (Ø6 mm)	0° - 120° : Rise of 38 mm with uniform acceleration 120° - 150° : Dwell at 150° : Sudden fall of 8 mm 150° - 180° : Dwell 180° - 240° : Fall of 14 mm with uniform velocity 240° - 360° : Fall of 16 mm with harmonic motion
2	CCW	Knife	0° - 100° : Rise of 16 mm with uniform velocity 100° - 120° : Dwell 120° - 240° : Rise of 16 mm with harmonic motion 240° - 260° : Dwell 260° - 360° : Fall of 32 mm with uniform deceleration
3	CCW	Flat-end	0° - 135° : Rise of 34 mm with harmonic motion 135° - 225° : Fall of 18 mm with uniform acceleration 225° - 240° : Dwell 240° - 360° : Fall of 16 mm with modified uniform velocity

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