

# TOOTH MOVEMENT PREDICTABILITY

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## Per aligner

	ROTATION	EXPANSION	RETRACTION	BUCCOLINGUAL TORQUE	MESIODISTAL AXIAL MOVEMENT	MESIALIZATION	DISTALIZATION	INTRUSION	EXTRUSION
<b>Upper incisors</b>	3° - 4°	0.3 - 0.4 mm	0.3 - 0.4 mm	1°	1°	0.2 - 0.3 mm	0.2 - 0.3 mm	0.2 mm	0.1 - 0.2 mm
<b>Small sized upper lateral incisors</b>	2° - 3°	0.3 mm	0.3 mm	0.5 °	0.5 °	0.1 - 0.2 mm	0.1 - 0.2 mm	0.1 - 0.15 mm	0.1 - 0.15 mm
<b>Lower incisors</b>	3° - 4°	0.3 - 0.4 mm	0.3 - 0.4 mm	1°	1°	0.2 - 0.3 mm	0.2 - 0.3 mm	0.1 - 0.2 mm	0.1 - 0.15 mm
<b>Canines</b>	3°	0.3 - 0.4 mm	0.3 - 0.4 mm	1°	0.5 ° - 1°	0.2 mm	0.2 mm	0.1 - 0.2 mm	0.1 - 0.15 mm
<b>Premolars</b>	1° - 2°	0.3 - 0.4 mm	0.2 - 0.3 mm	0.5 °	0.5 °	0.1 - 0.2 mm	0.2 mm	0.1 mm	0.1 mm
<b>Molars</b>	1°	0.3 - 0.4 mm	0.2 mm	0.5 °	0.5 °	0.1 - 0.2 mm	0.2 mm	0.1 mm	0.1 mm

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HIGH PREDICTABILITY	MODERATE PREDICTABILITY	LOW PREDICTABILITY
Simple spacing <4mm	Moderate spacing 4 - 8mm	Severe spacing >8mm
Simple crowding <4mm	Moderate crowding 4 - 8mm	Severe crowding >8mm
Posterior segment distalization <2 mm	Posterior segment distalization 2 - 4 mm	Posterior segment distalization >4 mm
-	Posterior segment mesialization <2 mm	Posterior segment mesialization >2 mm
Posterior segment expansion (quadrant) <2mm	Posterior segment expansion (quadrant) 2 - 3mm	Posterior segment expansion (quadrant) >3mm
Anterior crossbite - 1 tooth 2 - 3 mm expansion	Anterior crossbite - 2 teeth 2 - 4 mm expansion	Anterior crossbite - multiple teeth >4mm expansion

IMPORTANT: Low predictable movements require accessories (buttons and elastics) and/or TAD's to increase their predictability, and may require midcourse corrections/refinements

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HIGH PREDICTABILITY	MODERATE PREDICTABILITY	LOW PREDICTABILITY
Anterior intrusion <2mm	Anterior intrusion 2 - 3 mm	Anterior intrusion >3mm
Anterior extrusion <2mm	Anterior extrusion 2 - 3 mm	Anterior extrusion >3 mm
-	Posterior intrusion < 0.5 mm	Posterior intrusion > 0.5 mm
-	Premolars extrusion <0.5	Premolars extrusion >0.5
-	-	Molars extrusion <0,5

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HIGH PREDICTABILITY	MODERATE PREDICTABILITY	LOW PREDICTABILITY
Rotation - upper central incisors and lower incisors <25°	Rotation - upper central incisors and lower incisors 25° - 40°	Rotation - upper central incisors and lower incisors >40°
Rotation - upper lateral incisors <20°	Rotation - upper lateral incisors 20° - 30°	Rotation - upper lateral incisors >30°  Rotation - peg shaped upper lateral incisors
Rotation - canines <15°	Rotation - canines 15° - 20°	Rotation - canines >20°
Rotation - premolars <5°	Rotation - premolars 5° - 10°	Rotation - premolars >10°
-	Rotation - molars <5°	Rotation - molars >5°

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HIGH PREDICTABILITY	MODERATE PREDICTABILITY	LOW PREDICTABILITY
Root movement - anterior teeth <5°	Root movement - anterior teeth 5° - 10°	Root movement - anterior teeth >10°
-	Root movement - posterior teeth <5°	Root movement - posterior teeth 5-10°

IMPORTANT: Low predictable movements require accessories (buttons and elastics) and/or TAD's to increase their predictability, and may require midcourse corrections/refinements