Werk Nr 2D- 3 axis	Bladsy Nr / van / Page No of
Projek Kinematics	Datum 24-6-21
Bereken deur RAP	Nagesien SA-CNC-CLUB
Machine Coord: Y, Z, A (joints) Work Cond: y, Z, X (world) CAMsoftware gives y, Z, X (TCP) Control sofware needs Y, Z, A +able A	to de workpiece
• Forward transformation $Q_y + D_y = bc + c$: (from joint to work coord.) ab = de + ab = Py con A + Pz sin A clf = Pz con A - Py sin A
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	(from work to joint coord.)
$P_{5} = ag - hc$ $P_{2} = gc + he$	= $(Q_y + D_y) \cos A - (Q_2 + D_2) \sin A$ = $(Q_y + D_y) \sin A + (Q_2 + D_2) \cos A$
$ \begin{array}{c} Or \\ P_2 \end{array} = \begin{bmatrix} O \\ S \end{bmatrix} $ $ A = \emptyset$	$\begin{array}{cccc} \cos A & -\sin A \end{array} \begin{bmatrix} Q_{11} + D_{12} \\ Q_{12} + D_{12} \end{bmatrix} & \longrightarrow INV. \end{array}$