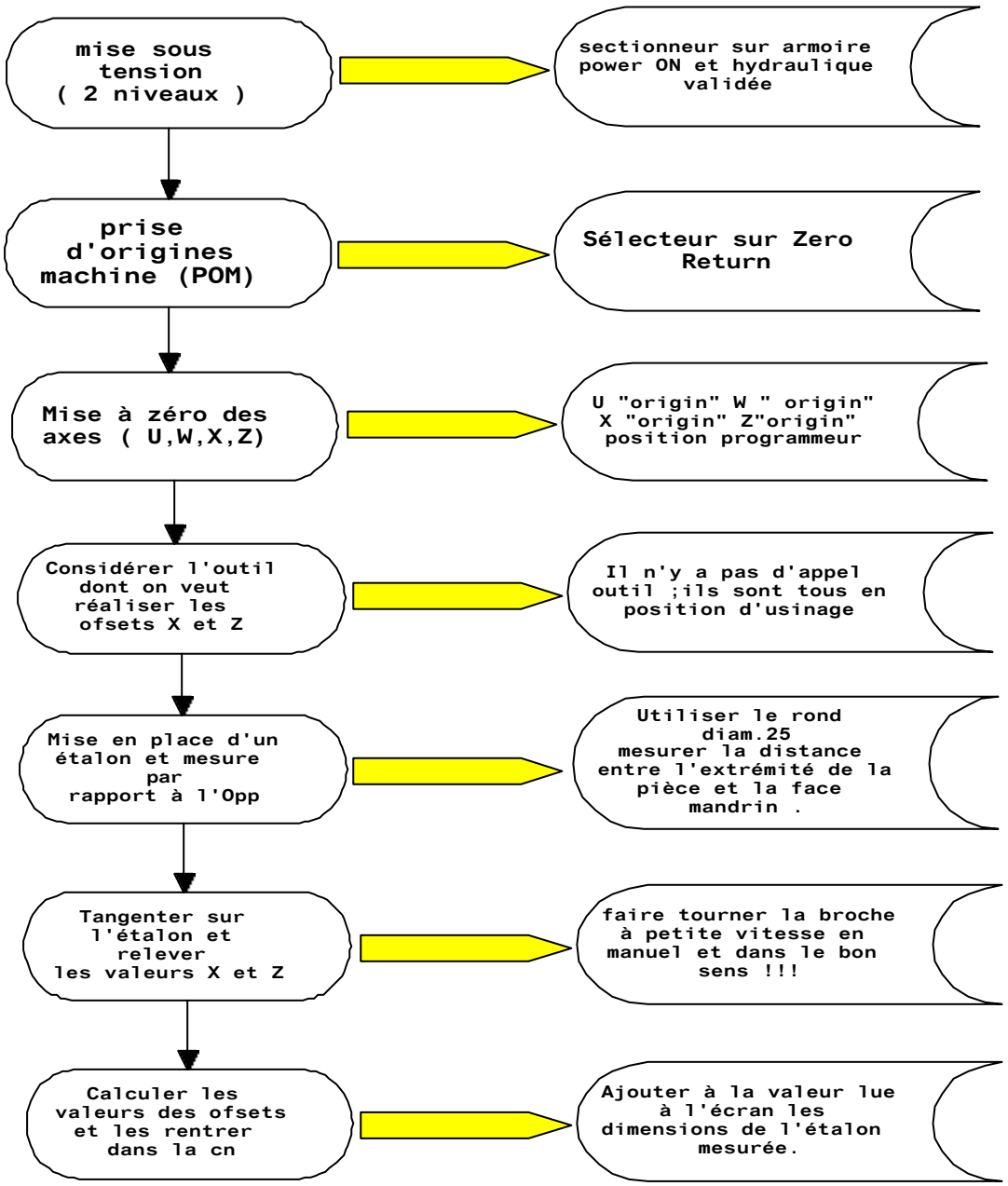Mesures de offsets sur traub