Generating 10-dimensioned Halton-set

The *i*th 10-dimensioned sample

Normal distribution by Box-Muller transformation

Error model (Eq. 6) for L/R mechanism

Output errors $\Delta x_{pj}$, $\Delta y_{pj}$, and $\Delta z_{pj}$ for 4 screws ($j=1, 2, 3, \text{ or } 4$)

Maximum $\Delta r$ defined in Eq.(12) $\Delta r = \max(\Delta r_j)$ ($j=1, 2, 3, \text{ or } 4$)

$\Delta r < \Delta r_0$ Y

Maximum $\Delta z$ defined in Eq.(13) $\Delta z = \max(\Delta z_k - \Delta z_t)$ ($k, t=1, 2, 3, \text{ or } 4$) ($k \neq t$)

$\Delta z < \Delta z_0$ Y

Response function processing

Count = Count + 1

Count < N Y

Stack-up = Count / N

End