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**Rachel Sandford**



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length  $R_t$   $P_t$   $W_t$   $M_x$   $R_{p1}$   $M_{v1}$   $R_{z1}$  is ten point height of roughness profile  $R_z$  at  $JIS\ 94$  sum of mean value of largest peak to the fifth largest peak and mean value of largest valley to

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web  $R_{max}$  vertical distance from highest peak to lowest valley  $R_{max}$  is particularly sensitive to anomalies such as scratches and burrs that may not be obvious from measures such as  $R_a$  that rely on averages  $R_z$  preferred by many europeans  $R_z$  is often preferred to  $R_a$  in europe and particularly germany

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web  $R_z$   $m$   $i$   $n$   $3.8$   $R_a$   $0.95$   $R_z$   $m$   $a$   $x$   $14.5$   $R_a$   $0.75$  converting between  $R_a$  and  $R_z$  is not a good engineering practice it is always recommended to measure according to the method in which surface roughness is indicated on the drawing as you can see in the below graphs the inaccuracy grows in higher  $R_a$   $R_z$  values

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