

Involute Splines Testing and Gauges for Side Fit

DIN
5480
Part 15

Zahnwellen-Verbindungen mit Evolventenflanken; Prüfung und Lehren bei Flankenextrudierung

Dimensions in mm

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1. Symbols and denominations

b_1	face width
b_2	width of plug gauge
b_3	see Figure 9 and Table 2
b_4 to b_8	see Figure 10 and Table 3
b_9	width of ring gauge
b_{10}	measured width, see Figure 12
d	pitch diameter
d_{e1}	major diameter - external spline
d_{i2}	minor diameter - internal spline
d_{r1}	minor diameter - external spline
d_{r2}	major diameter - internal spline
D_m	ball or pin diameter
d_s	reference diameter
d_{sr1}	form diameter - external spline
d_{sr2}	form diameter - internal spline
d_7 to d_{10}	see Figure 8 and Table 1
d_{11} to d_{13}	see Figure 9 and Table 2
d_{14} to d_{20}	see Figure 10 and Table 3
d_{21} to d_{23}	see Figure 11
e_2	nominal space width of internal spline
f_p	adjacent pitch variation
f_{ms}	tooth alignment variation
g	length of handle
l_1 , l_2	length of plug gauge
l_3	length of pilot
m	module

p	pitch at pitch circle
s_1	nominal tooth thickness of the external spline (pitch)
z	number of teeth
A_{es}	upper space width allowance
A_{ei}	lower space width allowance
A_{eIE}	lower space width allowance (for actual measurement)
A_{es}	upper tooth thickness allowance
A_{eIE}	upper tooth thickness allowance (for actual measurement)
A_{ei}	lower tooth thickness allowance
D_{11} , D_{12}	see Figure 12 and Table 4
F_r	total profile variation
F_p	cumulative pitch variation
F_r	radial run-out
IQ	quality of gauge
M_e	test dimension over pins for external splines
M_i	test dimension between pins for internal splines
T	total tolerance (Go-gauge)
T_E	machining tolerance (for actual measurement)
w	base tangent length
α	pressure angle
α_M	pressure angle at pin centre point
$\text{inv } \alpha$	involute α
γ	space width semi-angle

Continued on pages 2 to 11
Explanations on page 12

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