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Leaflet to be classified in Volumes :

V - ROLLING STOCK

VI - TRACTION

VIII - TECHNICAL SPECIFICATIONS

800-50



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**ALLOWABLE VARIATIONS ON DIMENSIONS WHEN
NO TOLERANCES ARE INDICATED
FOR PARTS SHAPED BY REMOVAL OF METAL**

This leaflet shall apply to nominal dimensions where there is no indication of the permissible tolerances on parts, irrespective of the materials of which they are made, produced by removal of material, except in the case where particular standards relating to certain machining processes exist.

The values shown in Tables 1 and 2 represent the permissible allowances corresponding to the normal distribution of errors to which the usual manufacturing processes give rise. They relate to the nominal dimensions shewn on the drawings giving no indication of tolerance.

Permissible variations on dimensions where no tolerances are indicated shall not be shown after the nominal dimensions, but shall be shewn by a general indication (e.g. : "average", Leaflet No. 800-50), either in the panel on the drawing, or in other documents such as delivery specifications.

In cases where the tolerances other than those shown in this leaflet are necessary, these tolerances must be given on the drawings immediately after the nominal dimensions.

Table 1

Permissible tolerances for linear dimensions
Values in mm

Degree of accuracy	Range of nominal dimensions							
	> 0.5 ≤ 3	> 3 ≤ 6	> 6 ≤ 30	> 30 ≤ 120	> 120 ≤ 315	> 315 ≤ 1000	> 1000 ≤ 2000	> 2000 ≤ 4000
Average	± 0.1	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2
Coarse		± 0.2	± 0.5	± 0.8	± 1.2	± 2	± 3	± 4

Table 2

Permissible tolerances for angular dimensions

Method of showing the dimensions	Range of dimensions (length of the shortest side)			
	≤ 10	> 10 ≤ 50	> 50 ≤ 120	> 120 ≤ 400
On the slope : Permissible tolerances in mm for 100 mm	± 1.8	± 0.9	± 0.6	± 0.3
On the angle : Permissible tolerances in degrees or minutes	$\pm 1^\circ$	$\pm 30'$	$\pm 20'$	$\pm 10'$