

**Round plain head nails**  
for use in automatic nailing machines

**DIN**  
**1143**  
Part 1

Maschinenstifte, rund, lose

*In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.*

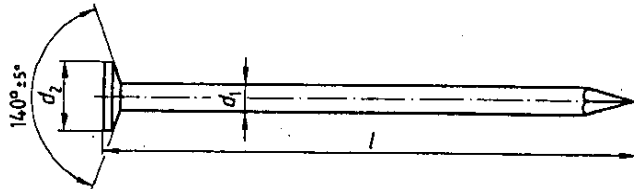
Dimensions in mm

### 1 Scope and field of application

This standard specifies requirements for round plain head nails for use in automatic nailing machines.

### 2 Dimensions and designation

Details left unspecified are to be selected as appropriate.



Designation of a round plain head (L) nail of size 20 × 40:

Nail DIN 1143 - 20 × 40 - L

Designation for ordering 100 kg of DIN 1143 - 20 × 40 - L nails:

100 kg nails DIN 1143 - 20 × 40 - L

Size	$d_1$		$d_2$		$l$	
		Limit deviations		Limit deviations		Limit deviations
18 × 35	1,80	± 0,06	4,5	± 0,20	35	+0 -2
20 × 40	2		5	± 0,25	40	
20 × 45	2		5	± 0,25	45	
22 × 50	2,2		5,5	± 0,30	50	
25 × 55	2,5	± 0,08	6,3	± 0,30	55	
25 × 60	2,5		6,3	± 0,30	60	
28 × 65	2,8		7	± 0,35	65	
31 × 70	3,1		7	± 0,35	70	
31 × 80	3,1		7	± 0,35	80	+0 -3
34 × 90	3,4	8	± 0,40	90		

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### 3 Material

Nails shall be made of steel (grade at manufacturer's discretion), with a tensile strength of at least 640 N/mm<sup>2</sup>.

### 4 Finish and workmanship

The face of plain head round nails shall be smooth, and normal to the nail shank. Edges and transitions shall be rounded. The finish of such nails shall be bright.

### 5 Form of supply

Nails shall be supplied in cardboard boxes, with a net weight of 25 kg each.

### Explanatory notes

This standard has been prepared by the *Normenausschuß Stahldraht und Stahldrahterzeugnisse* (Steel Wire and Wire Products Standards Committee), the intention being to specify a nail which is economical to produce and is suitable for a wide range of applications, the variety of types being kept to a minimum.

The standard does not deal with special nail systems, particularly those where the nails are fed to the machine on strips or coils and which are normally to comply with special requirements with regard to dimensions and finish.

The requirements specified here are more stringent than those specified for wire nails in DIN 1151. This applies particularly to the underhead ribbing which, though unavoidable owing to two-part tools being used in their manufacture, shall not be pronounced and shall be rounded. This and the rounding at transitions is of particular significance to ensure that nails are fed easily to the nailing machine. Since the responsible committee found it not feasible to specify values for ribbing, it should be up to the manufacturer and user of such nails to reach an agreement on this matter.

### International Patent Classification

F 16 B 15/00