


INTER PLANT STANDARD IN STEEL INDUSTRY		
 IPSS	SELECTION OF SHAFT DIAMETERS	IPSS:1-02-027-18 (First Revision)
	Corresponding IS does not exist	Formely : IPSS:1-02-027-85

0. FOREWORD

- 0.1 Interplant standardization in steel industry was initiated under the aegis of the Indian Standards Institution (ISI) and the Steel Authority of India Limited (SAIL). This IPSS was prepared by the standard committee on Basic Standards and Hydraulic, Pneumatic and Lubricating Equipment, IPSS 1:2 and adopted in February 1985. Committee meeting of IPSS 1:2 held in March 2017 and it was decided to shift this standard to the standard committee on Mechanical Drives, IPSS 1:1. Lastly, this has been revised by the standard committee on Mechanical Drives, IPSS 1:1 with first revision in **November, 2018** with the active participation of the representatives from major Indian steel plants and leading consultants.
- 0.2 This standard is intended to achieve rationalization and unification of parts and sub-assemblies used in steel plant equipment and accessories and provide guidelines for intending stores or equipment for existing and new installation in the steel plants. For exercising effective control on the inventories, it is advisable to select a fewer number of sizes (or type) from among those mentioned in this standard for the purpose of company standards of individual steel plants. It is not desirable to make deviations in technical requirements.

1. SCOPE

- 1.1 This Inter Plant Standard gives the guidelines for the selection of shaft diameters. This standard is intended to limit the arbitrarily chosen shaft diameters and thereby to control the inventory of the jigs and fixtures, gauges, tools, antifriction bearing etc.

2. SHAFT DIAMETERS

- 2.1 Preferred size for shaft diameters are given in Table 1. The sizes given in brackets shall not be preferred.

3. TOLERANCES

- 3.1 Tolerances on these diameters for shafts, shaft steps and shaft ends including truncated cones, meant for receiving journal or anti-friction bearings, couplings,

gears, wheels etc shall be provided in conformity with relevant Indian Standard/ Inter Plant Steel Standards (IPSS) depending upon the application.

TABLE 1 : SHAFT DIAMETERS

(Clause 2)

All Diameters are in millimeters.

Preferred Diameter	Non-Preferred Diameter	Preferred Diameter	Non-Preferred Diameter
10			(125)
12		140	
	(14)	160	
16			(170)
	(17)	180	
	(18)		(190)
20		200	
	(22)		(210)
25		220	
	(28)		(235)
30		250	
	(32)	280	
	(38)	320	
40		360	
	(42)	400	
	(48)		(440)
50		450	
60			(460)
	(65)	500	
	(75)	560	
80		630	
	(85)	710	
	(95)	800	
100		900	
120		1000	