BS 4582 : Part 2 : 1978

UDC 621.833 : 621.914.6

Specification for

Fine pitch gears (metric module)

Part 2. Hobs and cutters

Spécification des engrenages à pas fin (module métrique)
Partie 2.Fraises-mères et outils à tailler

Spezifikation für feine Räder (metrischer Modul)
Teil 2. Wälzfräser und Schneidräder

British Standards Institution

Gr 7

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Foreword

This British Standard has been prepared under the direction of the Mechanical Engineering Standards Committee.

This standard is a metric revision of BS 978 'Fine pitch gears' Part 5 : 1965 'Hobs and cutters' but, in accordance with the UK policy of metrication, diametral pitch hobs and cutters have been replaced by metric hobs and cutters.

It should be noted that BS 978 : Part 5 will be retained in being as long as the other Parts of BS 978, which deal with the various types of fine pitch gears, are themselves retained as current standards.

This standard is specifically intended to apply to gears produced in accordance with BS 4582 'Fine pitch gears' Part 1 'Involute spur and helical gears' which deals exclusively with metric module gears. Provision is also made for cutters for gears made in accordance with the requirements of BS 978 : Part 2 which is based on modules, should a range of metric cutter blanks be desired.

The grades of cutters specified in this standard are related to similar grades of gears in BS 4582 : Part 1 as follows.

Grade A corresponds jointly to class A and class B gears in BS 4582 : Part 1.

Grade B corresponds to class C gears in BS 4582 : Part 1.

Grade C corresponds to class D gears in BS 4582 : Part 1

Grade A is intended for the production of precision gears which are defined in more detail in the specifications for classes A and B in BS 4582 : Part 1.

Grade B is for the production of gears for high class work and this is defined in more detail in the specification for class C gears in BS 4582 : Part 1.

Grade C is for general engineering gears according to the specification for class D gears given in BS 4582 : Part 1.

Dimensions of keys and keyways are taken from ISO 240, except in respect of those for the 19.05 mm bore hole for which keys and keyways are based on existing practice.