
International Standard



5414/1

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Tool chucks (end mill holders) with clamp screws for flatted parallel shank tools — Part 1 : Dimensions of the driving system of tool shanks

Mandrins porte-outils, à vis de blocage, pour outils à queue cylindrique à meplat — Partie 1 : Dimensions du système d'entraînement des queues d'outils

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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 5414/1 was developed by Technical Committee ISO/TC 29, *Small tools*, and was circulated to the member bodies in November 1980.

It has been approved by the member bodies of the following countries:

Australia	India	Romania
Austria	Israel	South Africa, Rep. of
Belgium	Italy	Spain
China	Japan	Sweden
Czechoslovakia	Korea, Rep. of	Switzerland
France	Mexico	United Kingdom
Germany, F. R.	Netherlands	USSR
Hungary	Poland	

No member body expressed disapproval of the document.

Tool chucks (end mill holders) with clamp screws for flatted parallel shank tools —

Part 1 : Dimensions of the driving system of tool shanks

1 Scope and field of application

This part of ISO 5414 lays down the dimensions of tool chucks (end mill holders) with clamp screws designed for driving of flatted parallel shanks and specifies the clamp screws used.

It also gives the maximum diameter of the chuck nose.

Two types of drives are defined :

- chucks with bores of $d_1 \leq 20$ mm are intended for driving parallel shank tools with a single flat; these tools being provided with either a single or a double cutting part;
- chucks with bores of $d_1 \geq 25$ mm are intended for driving parallel shank tools with a double flat; these tools being provided with a single cutting part only.

The connecting dimensions of the various types of chucks are dealt with in ISO 5414/2.

The flatted parallel shanks mounted into these chucks shall conform with ISO 3338/2.

2 References

ISO 3338/2, *Parallel shanks for milling cutters — Part 2 : Dimensional characteristics of flatted parallel shanks.*

ISO 5414/2, *Tool chucks (end mill holders) with clamp screws for flatted parallel shank tools — Part 2 : Connecting dimensions of chucks.*