

## Indian Standard

# MACHINE TOOLS — MOUNTING OF GRINDING WHEELS BY MEANS OF HUB FLANGES

### (First Revision)

#### 1 Scope

This International Standard specifies the essential requirements, especially dimensions, for hub flanges for plain grinding wheels according to ISO 603-1, ISO 603-2, ISO 603-4, ISO 603-6, ISO 603-7 and ISO 603-8 with a ratio of the bore diameter to the outside diameter  $H/D = 0,2$ . It is also applicable for super abrasives with vitrified or metal core having the same diameters as the grinding wheels according to those parts of ISO 603, independently from the material of the core. It applies to grinding wheels with peripheral speeds up to 50 m/s and driving powers of the wheel spindle up to 30 kW.

It is not applicable to mounting devices for cutting-off wheels.

#### 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 603-1:1999, *Bonded abrasive products — Dimensions — Part 1: Grinding wheels for external cylindrical grinding between centres*

ISO 603-2:1999, *Bonded abrasive products — Dimensions — Part 2: Grinding wheels for centreless external cylindrical grinding*

ISO 603-4:1999, *Bonded abrasive products — Dimensions — Part 4: Grinding wheels for surface grinding/peripheral grinding*

ISO 603-6:1999, *Bonded abrasive products — Dimensions — Part 6: Grinding wheels for tool and tool room grinding*

ISO 603-7:1999, *Bonded abrasive products — Dimensions — Part 7: Grinding wheels for manually guided grinding*

ISO 603-8:1999, *Bonded abrasive products — Dimensions — Part 8: Grinding wheels for deburring and fettling/snagging*

ISO 702-1:2001, *Machine tools — Connecting dimensions of spindle noses and work holding chucks — Part 1: Conical connection*

ISO 1119:1998, *Geometrical Product Specifications (GPS) — Series of conical tapers and taper angles*

ISO 2768-1:1989, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

ISO 4762:2004, *Hexagon socket head cap screws*

ISO 6103:2005, *Bonded abrasive products — Permissible unbalances of grinding wheels as delivered — Static testing*

# (PREVIEW)

IS 15299 : 2013

ISO 666 : 2006

ISO 12164-1:2001, *Hollow taper interface with flange contact surface — Part 1: Shanks — Dimensions*

ISO 12164-2:2001, *Hollow taper interface with flange contact surface — Part 2: Receivers — Dimensions*

ISO 13942:2000, *Bonded abrasive products — Limit deviations and run-out tolerances*