

INTERNATIONAL STANDARD



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Rotary drilling equipment — Roller bits and blade drag bits

Équipement de forage rotatif — Tréfans à cônes et tréfans à lames

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Rotary drilling equipment – Roller bits and blade drag bits

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the tolerance on sizes, size and style of connections, marking and packaging of roller bits and blade drag bits intended for rotary drilling.

2 REQUIRED CHARACTERISTICS

2.1 Sizes

The roller bits and the blade drag bits shall be delivered in the sizes specified in the purchase order, with the size and style of connection as shown in tables 1, 2 and 3.

2.2 Tolerances

The gauge diameter of the cutting edge of the bits shall comply with the size designation on the purchase order, within the tolerances shown in table 1.

2.3 Connections

2.3.1 Roller bits shall be delivered with the size and style of pin connection shown in table 2.

2.3.2 Blade drag bits shall be delivered with the size and style of pin or box connection shown in table 3, as specified on the purchase order.

3 HEAT TREATMENT

On agreement between the producer and the purchaser, the rotary shouldered connections of the bits shall be treated by a suitable anti-galling method.

4 MARKING

Bits shall be die stamped at a visible location in a manner to protect the inscription, indicating at least the following :

- the manufacturer’s name or trade mark (Y);
- the bit size;
- the size and style of connection;
- the number of this International Standard.

Example of marking of a 193,7 mm (7 5/8 in) bit with 4 1/2 REG connection, manufactured by the Y company, according to ISO 3395 :

Y – 193,7 (7 5/8) – 4 1/2 REG – ISO 3395

5 PACKAGING

The threaded connections shall be covered before shipment with a suitable lubricant in order to minimize corrosion, and shall be adequately protected to prevent damage to the threads during shipment, storage and handling.¹⁾

TABLE 1

Size of bit		Tolerance	
mm	in	mm	in
85,7 to 349,3 incl.	3 3/8 to 13 3/4 incl.	+ 0,8 0	+ 1/32 0
355,6 to 444,5 incl.	14 to 17 1/2 incl.	+ 1,6 0	+ 1/16 0
≥ 447,7	≥ 17 5/8	+ 2,4 0	+ 3/32 0

1) Thread compounds specifically formulated for casing and tubing threads may produce excess make-up if used on rotary shouldered connections and are therefore not recommended for this purpose.