



PI0705

Product Information

NORIS-INNENSPAN

The reliable alternative for large threads



Ernst Reime –
The tradition continues.

NORIS-INNENSPAN machine taps

Large threads require extraordinary tools!

The outstanding advantages of the **NORIS-INNENSPAN** compared to a conventional machine tap ensure that you get maximum productivity, universality and safety for both blind and through hole threads.

Technical features for better threads

The recess on the front of the tool allows tapped thread depths of up to $2 \times D$ in blind holes without having to empty chips.

More cutting teeth than conventional tools ensure perfect chip distribution.

Maximum self-control is achieved by the non-grooved guide section.



These features ensure superb results in terms of process reliability, trueness to gauge and surface quality whilst also satisfying the high demands required for the production of turbines and maritime engines, for example.

The **NORIS-INNENSPAN** machine tap is available from stock in a solid version (see page 3) and a mounted version (see page 4) depending on the thread size.

Large thread dimensions should only be produced using a tool mounting with a safety coupling and a length compensation unit.

The **NORIS quick-change thread tapping chuck** type ISP (see page 7) is ideal for this purpose.

Reduce costs by regrinding

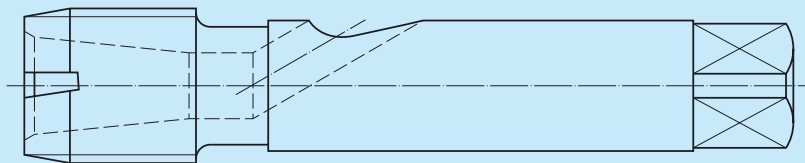
Prompt regrinding of the tool ensures maximum tool profitability and the protection of existing resources. We offer an on-site regrind service for this purpose.

NORIS-INNENSPAN – the robust colleague for large thread dimensions.

The current range

The standard dimensions are set out on the appropriate pages of the thread technology catalogue

NORIS-INNENSPAN machine tap
Order No. 7682
(Solid version)



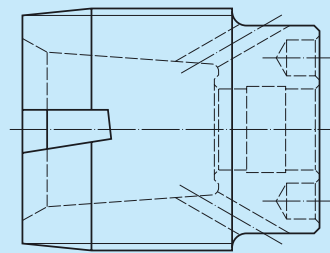
Thread type	Abbreviation	Dimensions
Metric ISO standard thread DIN 13	M	M20 to M64
Metric ISO fine thread DIN 13	MF	M27x2 to M72x6
Pipe thread DIN EN ISO 228	G	G 1/2 to G 1
Unified thread ASME-B1.1	UN	UN 1 1/8 - 8 to UN 2 - 8
Unified coarse thread ASME-B1.1	UNC	UNC 3/4 - 10 to UNC 1 - 8
Please note: We also produce special dimensions to order – just tell us what you want.		



The current range

The standard dimensions are set out on the appropriate pages of the thread technology catalogue

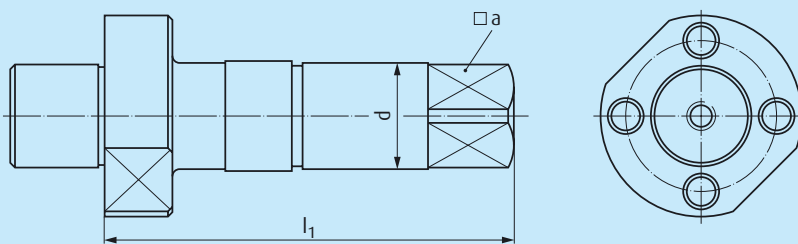
NORIS-INNENSPAN machine tap Order No. 7692 (Mounted version)



Thread type	Abbreviation	Dimensions
Metric ISO standard thread DIN 13	M	M56 to M64
Metric ISO fine thread DIN 13	MF	M52x3 to M120x6
Pipe thread DIN EN ISO 228	G	G 1 1/2 to G 2
Unified thread ASME-B1.1	UN	UN 2 1/4 - 8 to UN 2 1/2 - 8
Please note: We also produce special dimensions to order – just tell us what you want.		

The current range

NORIS-INNENSPAN mounted shafts Order No. 9940



Thread tap diameter	Shaft size	l_1 mm	d mm	a mm
> 45 - 54 mm	I L	169	25	20
> 54 - 63 mm	II L	183	28	22
> 63 - 74 mm	III L	225	32	24
> 74 - 84 mm	IV L	247	40	32
> 84 - 99 mm	V L	279	45	35
> 99 - 120 mm	VI L	317	50	39
> 120 - 165 mm	VII L	355	56	44
> 165 - 250 mm	VIII L	345	63	49
Please note: We also produce special dimensions to order – just tell us what you want.				



Practical machining example



NORIS-INNENSPAN
M64 - ISO 2
Order No. 7682AAQAA

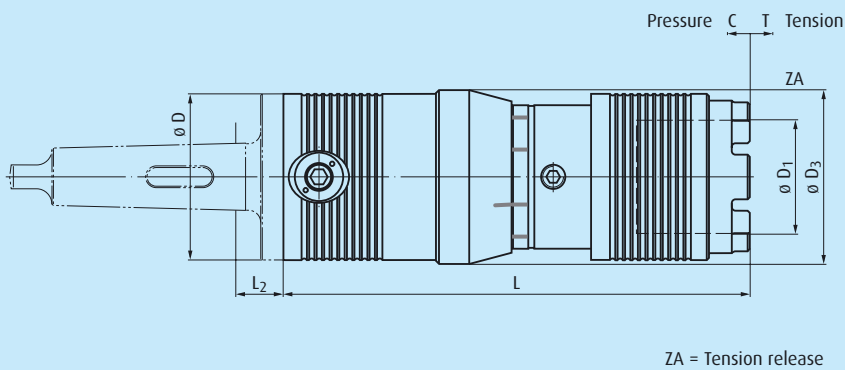
Machine:	jib drill
Mounting:	NORIS quick change thread tapping chuck type ISP 30
Material:	C 45 – approx. 700 N/mm ²
Dimension:	M64 - ISO 2
Hole type:	Blind hole
Core hole depth:	146 mm
Thread depth:	129 mm – fully cut
Cutting speed:	approx. 6 m/min
Lubricant:	NORIS thread tapping paste HT
Machining time:	3.90 min

Applications

The NORIS quick change thread tapping chucks type ISP are primarily used on large drills and drill units.

NORIS quick change thread tapping chucks ISP

NORIS quick change thread tapping chuck
Order No. AFH0



Description

Series ISP was specially developed for tapping large threads.

The integral length compensation unit works in the pressure and tension directions.

The safety coupling type ISP 30 is designed for a maximum torque of 3000 Nm.

Can be used both for right-hand and left-hand threads.

Series ISP can also be supplied with internal cutting fluid supply to order.

Special feature

By blocking the length compensation unit with a locking screw it is also possible to carry out drilling and countersink operations without changing the tool mounting. This eliminates the need for cost-intensive retooling of the mounting.





How do I machine large threads?

**With the NORIS-INNENSPAN
from the thread specialist REIME of course**



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Please call us if you require technical support for using this tool.

This brochure contains information about NORIS products from REIME.