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Business card

Look to our complete portfolio
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Swiss Quality

Version EN 02.24

Subsidiary of : RBC BEARINGS

TOOLHOLDERS

HYDRONUT

HIGH PERFORMANCE COOLING

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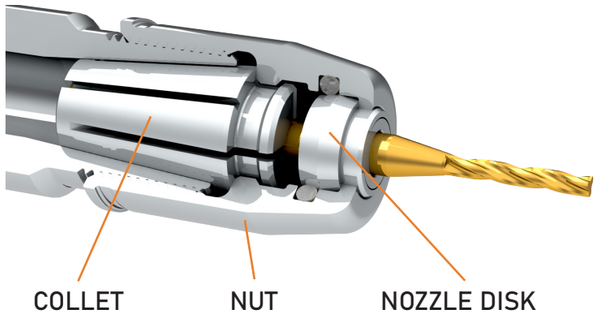
SCHAUBLIN

HYDRONUT

PATENT PENDING

The newest solution by SCHAUBLIN to **efficiently bring fluid** to the cutting edge.
The nut is equipped with nozzle, which **accelerates** and **directs** the coolant, creating a concentric and stable flow.



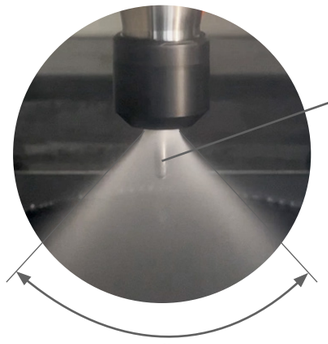
Compared to existing solutions:

NON-HYDRONUT

High dispersion angle (α)

High rotational speed increases the dispersion of the coolant.
The cooling effect is lost far away from the cutting area.

» BAD CHIP EVACUATION



Low flow concentration

The density of the flow is weak, only few droplets are directed to the cutting edge. A lot of heat penetrates into the tool.

» INEFFICIENT COOLING

The new technology of HydroNut can achieve:

No dispersion angle

» The fluid disperses only after the contact with the tool.

High flow concentration

» The tool is never visible through the cooling jet.

Up to 2x extended tool-life

Pressure: 40 bar; 580 PSI

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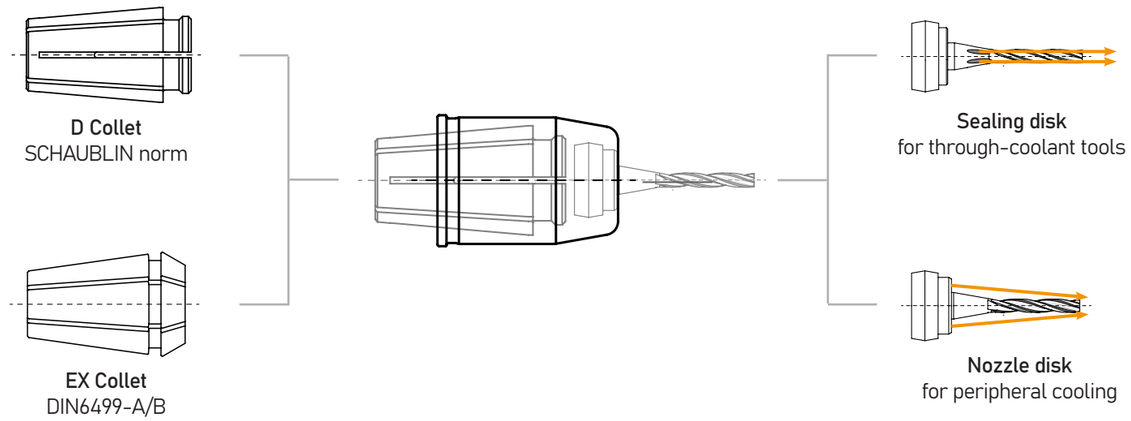
MODULAR SOLUTION

Suitable for **through-coolant** or **standard** tools.

The same collet + nut configuration can be equipped with sealing or nozzle disk:

- **SEALING DISK** » through cooling for tools with inner holes
- **NOZZLE DISK** » peripheral cooling for standard tools



	COLLET		NUT		DISK				
Type	Art.	Ø range [mm]	Art.	Thread	Sealing Art.	Nozzle Art.	Wrench	Head	Torque wrench
D10	74-10000	0.5 - 6.0	68-10850	M12x0.75	68-10791	89-96010	68-99089	68-99199	68-99207*1
D12	74-12000	0.5 - 7.0	68-12850	M15x0.75	68-12791	89-96012	68-99092	68-99201	68-99207*1
D14	74-14000	0.5 - 9.0	68-14850	M17x1	68-14791	89-96014	68-99092	68-99201	68-99207*1
D16	74-16000	0.5 - 10.0	68-16850	M20x1	68-16791	89-96016	68-99094	68-99202	68-99208*2
D20	74-20000	0.5 - 12.7	68-20850	M24x1	68-20791	89-96020	68-99095	68-99203	68-99208*2
D24	74-24000	0.5 - 16.0	68-24790	M28x1	68-24791	-	-	-	-
D29	74-29000	1.0 - 20.0	68-29790	M34x1	68-29791	-	-	-	-
EX12	75-12200	0.5 - 7.0	61-12850	M14x0.75	68-12791	89-96012	68-99091	68-99205	68-99207*1
EX16	75-16200	0.3 - 10.0	61-16852	M19x1	68-16791	89-96016	68-99094	68-99202	68-99208*2
EX16	75-16200	0.3 - 10.0	61-16851	M20x1	68-16791	89-96016	68-99094	68-99202	68-99208*2
EX16	75-16200	0.3 - 10.0	61-16850	M22x1.5	68-16791	89-96016	68-99095	68-99203	68-99208*2
EX20	75-20200	1.0 - 13.0	61-20851	M24x1	68-20791	89-96020	68-99095	68-99203	68-99208*2
EX20	75-20200	1.0 - 13.0	61-20850	M25x1.5	68-20791	89-96020	68-99095	68-99203	68-99208*2

*1 Art. HOFFMANN: 656055 25
*2 Art. HOFFMANN: 656055 60

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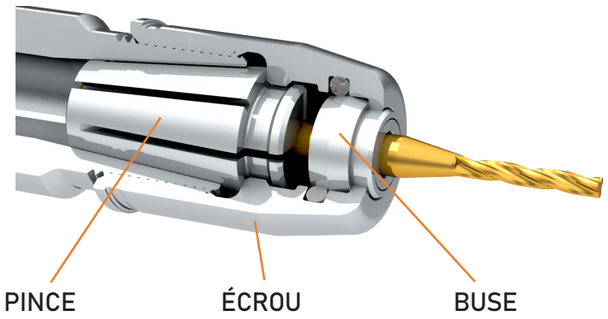
HYDRONUT

PATENT PENDING

La nouvelle solution de SCHAUBLIN pour amener **efficacement le liquide d'arrosage sur les arêtes de coupe**.

L' écrou est equipé d'une buse qui **accélère** et **dirige** le liquide de refroidissement, créant un flux concentrique et stable.



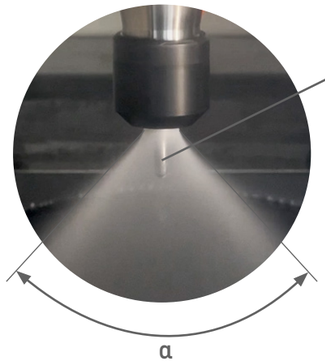
Par rapport aux solutions existantes:

NON-HYDRONUT

Angle de dispersion élevé (α)

Une vitesse de rotation élevée augmente la dispersion du liquide de refroidissement. L' effet de refroidissement est loin de la zone de coupe.

» MAUVAISE EVACUATION DES COPEAUX



Concentration à faible débit

La densité de flux est faible, seules quelques gouttes sont dirigées vers les arêtes de coupe. Beaucoup de chaleur pénètre dans l'outil.

» REFROIDISSEMENT INEFFICACE

Ce que la nouvelle technologie HydroNut peut réaliser:

Aucun angle de dispersion

» Le fluide ne se disperse qu' après le contact avec l'outil.

Concentration à haut débit

» L' outil n' est jamais visible à travers le jet de refroidissement.

Durée de vie de l'outil jusqu'à 2x prolongée

Pression: 40 bars; 580 PSI

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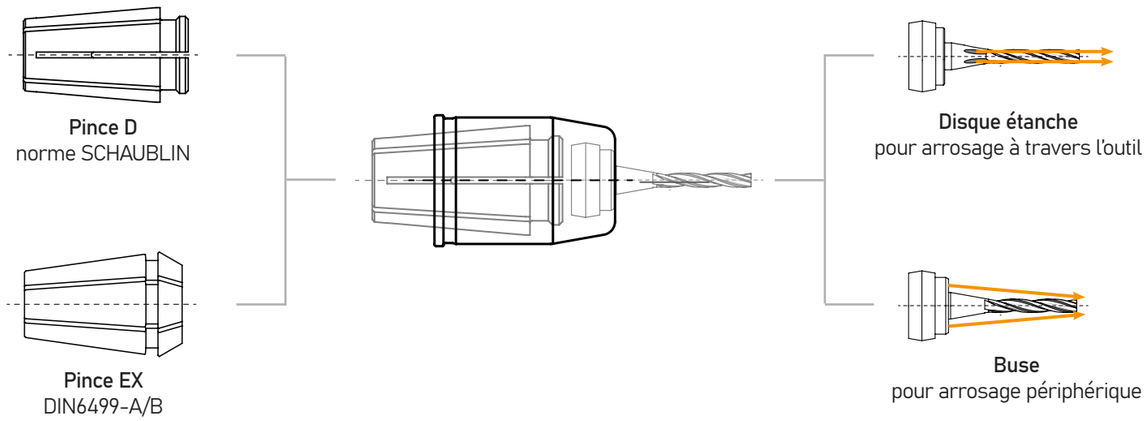
SOLUTION MODULAIRE

Adapté aux outils **avec arrosage par le centre** ou aux outils **standards**.

La même configuration pince + écrou peut être équipée d'un disque étanche ou d'une buse :

- **DISQUE ÉTANCHE** » arrosage à travers l'outil pour outils avec trous intérieurs
- **BUSE** » arrosage périphérique pour outils standards



	PINCE		ÉCROU		DISQUE				
Type	Art.	Ø-serrage [mm]	Art.	Filet	Étanche Art.	Buse Art.	Clé	Tête	Clé dynamo-métrique
D10	74-10000	0.5 - 6.0	68-10850	M12x0.75	68-10791	89-96010	68-99089	68-99199	68-99207*1
D12	74-12000	0.5 - 7.0	68-12850	M15x0.75	68-12791	89-96012	68-99092	68-99201	68-99207*1
D14	74-14000	0.5 - 9.0	68-14850	M17x1	68-14791	89-96014	68-99092	68-99201	68-99207*1
D16	74-16000	0.5 - 10.0	68-16850	M20x1	68-16791	89-96016	68-99094	68-99202	68-99208*2
D20	74-20000	0.5 - 12.7	68-20850	M24x1	68-20791	89-96020	68-99095	68-99203	68-99208*2
D24	74-24000	0.5 - 16.0	68-24790	M28x1	68-24791	-	-	-	-
D29	74-29000	1.0 - 20.0	68-29790	M34x1	68-29791	-	-	-	-
EX12	75-12200	0.5 - 7.0	61-12850	M14x0.75	68-12791	89-96012	68-99091	68-99205	68-99207*1
EX16	75-16200	0.3 - 10.0	61-16852	M19x1	68-16791	89-96016	68-99094	68-99202	68-99208*2
EX16	75-16200	0.3 - 10.0	61-16851	M20x1	68-16791	89-96016	68-99094	68-99202	68-99208*2
EX16	75-16200	0.3 - 10.0	61-16850	M22x1.5	68-16791	89-96016	68-99095	68-99203	68-99208*2
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