

bilz

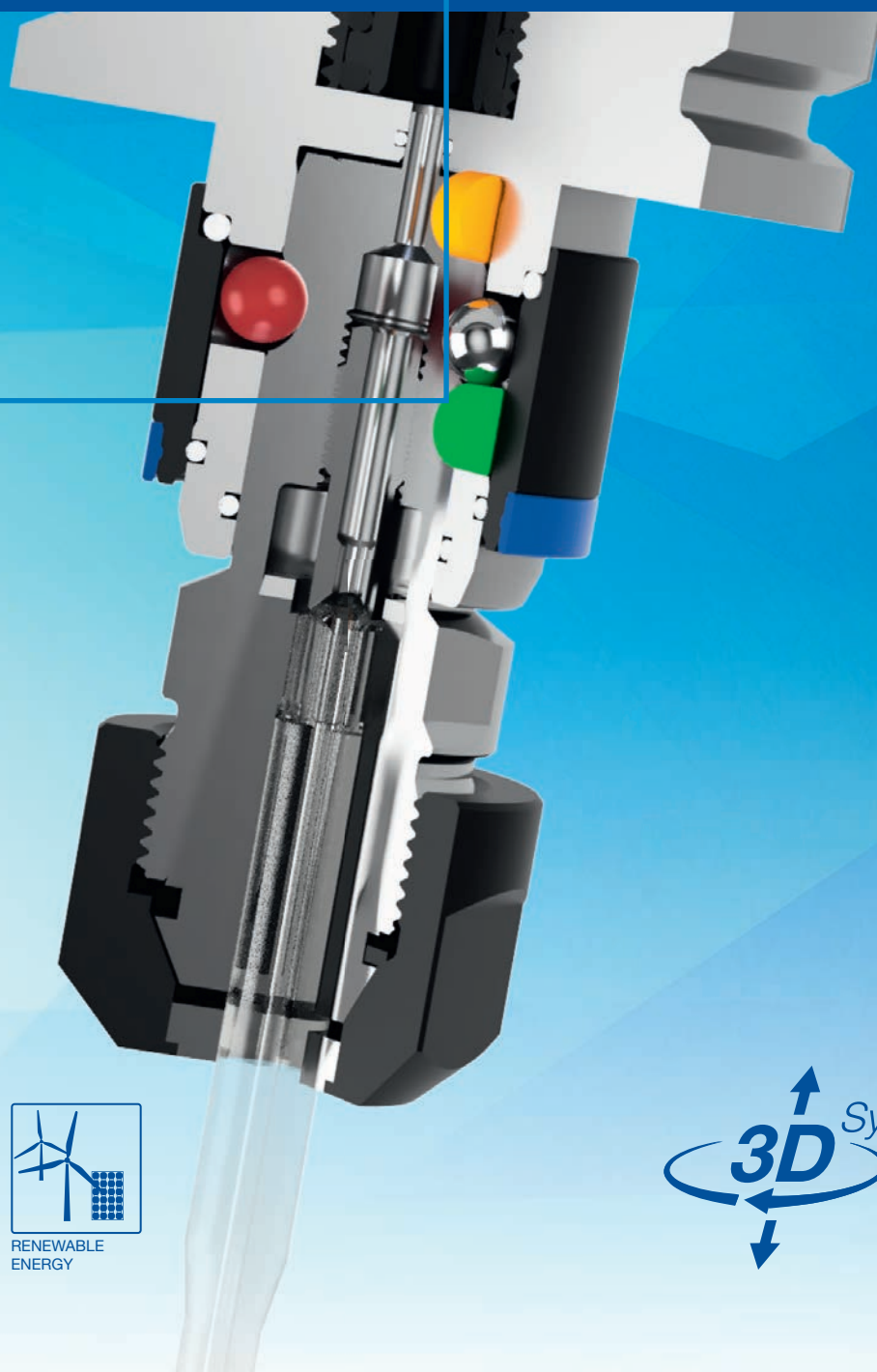
Kampanj - Nettopriser

3D Synchro

Synchro tapping chuck



HORN Sverige & Danmark
Powered by JR TOOL



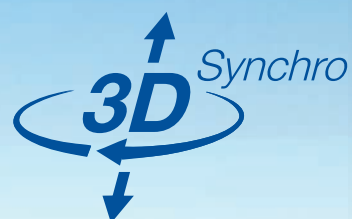
AUTOMOTIVE



GENERAL
MECHANICAL
ENGINEERING



RENEWABLE
ENERGY



Features

- Minimum length compensation in compression and tension direction
- Ball bearing mounted (i.e. torque independent) suspension
- Suitable for internal coolant supply up to 80 bar
- Suitable for taps and thread formers
- Suitable for right-hand and left-hand threads
- Optimized spring-damper technology ($\pm 0.5\text{mm}$)
- 3D Synchro completely encapsulated function chamber (washable up to 80°C)
- Optimized seal (comparable to IP68)

Tool presetting via axial adjustment screw possible from both sides
(screw is not included in the scope of delivery)

Advantag

- Reduction of the pressure on the thread flanks Compensation of synchronization errors
- Higher process stability
Longer tap life
- Better thread quality

Our
spring-damper technology
reduces stresses during
tapping and forming

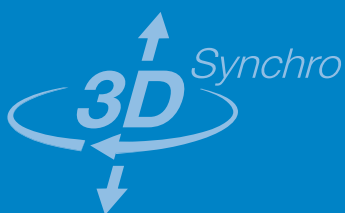
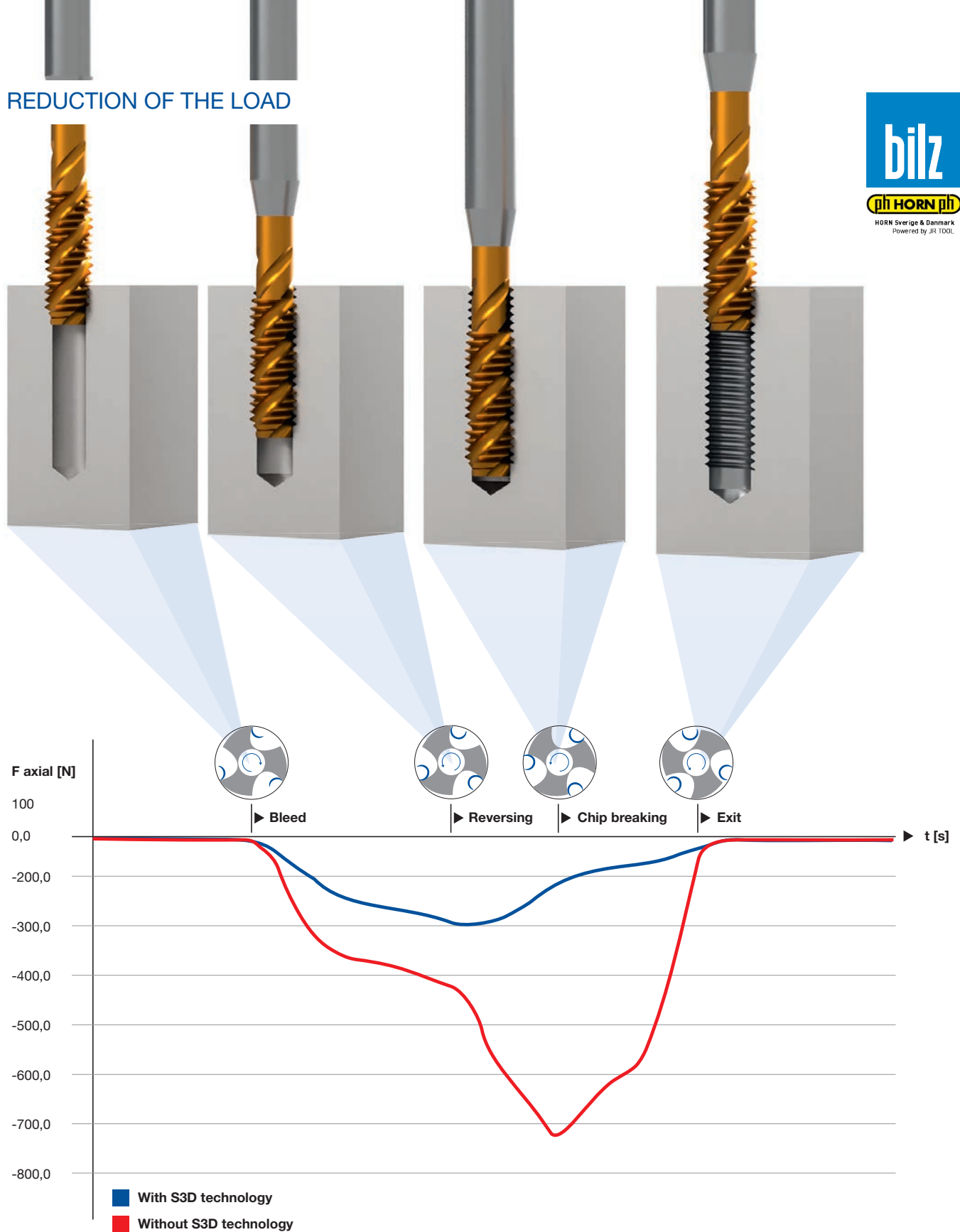
3D^{Synchro}
**Direction
of rotation**
Damping during
chip breaking

3D^{Synchro}
Direction of pull
Compensate
the synchronization errors

3D^{Synchro}
Print direction
Steaming at the gate



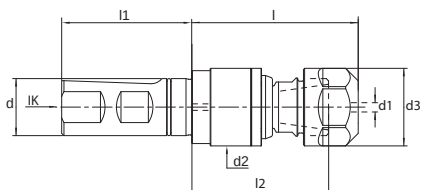
REDUCTION OF THE LOAD



The elastomers used are dimensionally stable and resistant to all coolants/lubricants. Due to the defined length compensation, plastic deformation of the damping elements is excluded.

This results in consistent cutting behavior over the entire life of the tool.

S3D – Synchro Chuck for M4-M12



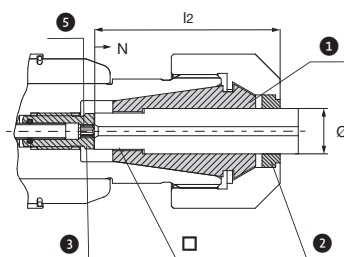
Accessories:

S3D1-ER20-K1-W DIN1835B+E									Introduktionspris Nettopris
	Designation/Id. No.		d	d2	d3	l	l1	l2	
M4-M12	S3D1-ER20-73-K1-W20 5185755	+/-0,5	20	34	34	73		60	5427kr
M4-M12	S3D1-ER20-73-K1-W25 5181694	+/-0,5	25	34	34	73		60	5112kr

Allen key / length adjustment		
		
Designation	Id. No.	Pris
SCK-2,5-90, (l < 104mm)	5012199	152kr
SCK-2,5-180, (l > 104mm)	9172118	165kr

Allen key is not included in delivery

ER/ESX20 – Clamping units



-  Collet
 -  Sealing disc
 -  Adjusting screw
- N = Adjustment
l2 = Insert depth
Ø = Shaft diameter
□ = Drive square

ER/ESX...GB auf DIN6499B / ISO15488B / 428E

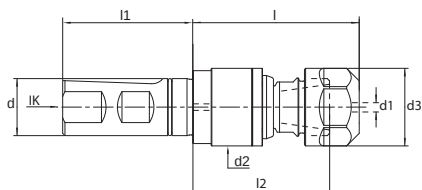
Clamping unit– ER Version C (consisting of collet, sealing disc, adjusting screw)

	Designation/Id. No.	S3D.../ ER...	DIN 371	DIN 374 DIN 376	ISO	l2	N		Introduktionspris Nettopris
Ø x □								5	
4,5 x 3,4	SPE4,5x3,4C-ESX20 5013770	ER20/ ESX20	M4	M6		29		2,5	1401kr
5,0 x 4,0	SPE5x4C-ESX20 5013774				M5	30			1502kr
6,0 x 4,9	SPE6x4,9C-ESX20 5012479		M5, M6	M8		31			1401kr
6,3 x 5,0	SPE6,3x5C-ESX20 5073202				M6 M8				1401kr
7,0 x 5,5	SPE7x5,5C-ESX20 5208940		M7	M9, M10					1401kr
7,1 x 5,6	SPE7,1x5,6C-ESX20 5073203				M9				1502kr
8,0 x 6,2/6,3	SPE8x6,2/6,3C-ESX20 5012481		M8	M11	M8 M10	36	3		1401kr
9,0 x 7,0/7,1	SPE9x7/7,1C-ESX20 5012482		M9	M12	M12	37			1401kr
10,0 x 8,0	SPE10x8C-ESX20 5012483		M10		M10	41			1401kr
11,0 x 9,0	SPE11x9C-ESX20 5013775			M14		42			1401kr
11,2 x 9,0	SPE11,2x9C-ESX20 5035343				M14				1502kr
12,0 x 9,0	SPE12x9C-ESX20 5198365		M12						1401kr

Tightening torques of clamping nut see page 21

Priserna i kampanjen giltig till: 2024-01-31

S3D – Synchro Chuck for M8-M20



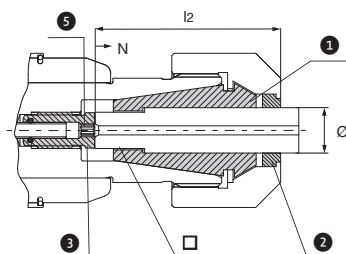
S3D2-ER32-K1-W DIN1835B+E									Introduktionspris Nettopris
d1	Designation/Id. No.		d	d2	d3	l	l1	l2	
M8-M20	S3D2-ER32-87,5-K1-W25 5190629	+/-0,5	25	50	50	87,5		73	5616kr

Allen key is not included in delivery

Accessories:

Allen key / length adjustment		
Designation	Id. No.	Nettopris
SCK-3-90, (l < 104mm)	5012201	152kr
SCK-3-180, (l > 104mm)	9172126	165kr

ER/ESX32 – Clamping units



- Collet N = Adjustment
- Sealing disc l2 = Insert depth
- Adjusting screw Ø = Shaft diameter
- Drive square

ER/ESX..GB auf DIN6499B / ISO15488B / 428E									Introduktionspris Nettopris
Clamping unit– ER Version C (consisting of collet, sealing disc, adjusting screw)									
 Ø x □	Designation/Id. No.	S3D.../ ER...	DIN 371	DIN 374 DIN 376	ISO	l2	N	 5	
6,0 x 4,9	SPE6x4,9C-ESX32 5013821	ER32/ ESX32	M5, M6	M8		31	3	3	1565kr
6,3 x 5,0	SPE6,3x5C-ESX32 5073204								1666kr
7,0 x 5,5	SPE7x5,5C-ESX32 5013822		M7	M9, M10					1565kr
7,1 x 5,6	SPE7,1x5,6C-ESX32 5073205					1666kr			
8,0 x 6,2/6,3	SPE8x6,2/6,3C-ESX32 5013823		M8	M11	M8 M10	36			1565kr
9,0 x 7,0/7,1	SPE9x7/7,1C-ESX32 5012485		M9	M12	M12	37			1565kr
10,0 x 8,0	SPE10x8C-ESX32 5012486		M10		M10	41			1565kr
11,0 x 9,0	SPE11x9C-ESX32 5012487			M14		42			1565kr
11,2 x 9,0	SPE11,2x9C-ESX32 5073206				M14				1666kr
12,0 x 9,0	SPE12x9C-ESX32 5012488		M12	M16					1565kr
12,5x10					M16				1565kr
14,0 x 11,0/11,2	SPE14x11/11,2C-ESX32 5012489			M18	M18	44			
16,0 x 12,0/12,5	SPE16x12/12,5C-ESX32 5012490			M20	M22	45			
18,0 x 14,5	SPE18x14,5C-ESX32 5013787			M22, M24		47			

Tightening torques of clamping nut see page 21

Priserna i kampanjen giltig till: 2024-01-31

Customer proximity and innovative spirit
have characterized our actions since 1919.

bilz

ph HORN ph
HORN Sverige & Danmark
Powered by J&T TOOL

- Thermogrip® shrink fit machines
- Thread tensioning technology
- Pendulum holder
- Special tools
- Shrink fit chucks
- Complete supplier for
- Tool clamping technology

Our novelties at a glance



- **Engraving chuck - ETO**
Engraving at almost all surfaces
- **ThermoGrip® Corona Jet 2.0**
Optimized coolant supply that sets standards
- **AOCS Quick Change System for industrial robots**
Coupling and uncoupling of Machining tools
- **ThermoGrip® BIONICS**
Shrink fit chucks with bionic Structural Optimization



Visit us at www.bilz.de
or scan the QR code.