



LLAMBRICH

Super precision drill chucks



Catalogue 2007/2008

Precision is our standard



About Llambrich

From its beginnings, the basic activity of Llambrich Precisión, S.A. has been the design and manufacture of DRILL CHUCKS AND MACHINE-TOOL ACCESSORIES for machine-tools.

Our firm's motto has always been a job well done. Over the last 50 years we have exported our high quality finished products to the most industrial and technologically advanced countries in the world.

50th Anniversary

These 50 years of experience in a sector with continuous evolution, is a guarantee of accomplishment and excellence of product.

The aim of our business project is to offer top quality and precise solutions to the market. We are working, innovating and specializing to maintain this in the future. We should like to thank our partners, representatives, employees, customers and suppliers, for their support in making this possible.



LLAMBRICH

GARANTÍA DE PRECISIÓN

Este portabrocas de alta precisión LLAMBRICH® ha sido controlado individualmente y se suministra con una **excentricidad máxima de 0,04 mm**, para modelos SP, SPX, SPS-SOLID, NPU, y 0,03 mm, para portabrocas HEXA SYSTEM y PLANET SYSTEM. Garantizamos que la inspección de excentricidad se realiza siguiendo la norma más exigente del mercado.

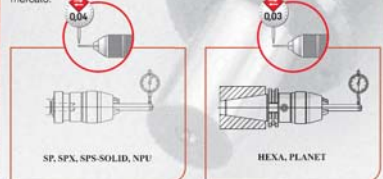
GARANTIE DE PRECISION

Ce mandrin de perçage de haute précision LLAMBRICH® est contrôlé individuellement et vient fourni avec une **excentricité maximum de 0,04 mm**, pour les modèles SP, SPX, SPS-SOLID, NPU, et 0,03 mm, pour les modèles HEXA SYSTEM et PLANET SYSTEM. Nous garantissons que l'inspection d'excentricité est réalisée conformément à la norme la plus exigeante du marché.

GARANZIA DI PRECISIONE

Questo mandrino portapunte di alta precisione LLAMBRICH® è stato controllato singolarmente. Garantiamo un'**eccentricità massima di 0,04 mm**, per i modelli SP, SPX, SPS-SOLID e NPU, e di 0,03 mm, per i modelli HEXA SYSTEM e PLANET SYSTEM.

La verifica dell'eccentricità viene fatta secondo la normativa più ristretta del mercato.



LLAMBRICH PRECISIÓN, S.A.

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Human resources

The business life span of Llambrich has always been based on an enthusiastic and professional team with one principle: Responsibility and pride in their work.

For years now, our company's attitude in this respect has produced professionals capable of successfully facing the challenges of the future.

Manufacturing programme

At Llambrich we offer two lines of drill chucks aimed at covering all drilling needs.

The Llambrich® line drill chucks are specially designed for high precision drilling. The extensive range ensures that top performance is achieved using the latest generation CNC machines with complete safety: one of the best drill chucks in the world!

The Chuck® line drill chucks - with key and automatic types - are designed to fit into portable electric drills - both for handy men and professionals - stationary drills, woodworking machinery, for industrial use and for percussion drills.

The Llambrich® line also includes revolving lathe centres, coolant pumps and coolant devices.

Precision Guarantee

Since 1983 our company has been leading the field in guaranteeing maximum precision concentricity of our drill chucks.

100% of our high precision drill chucks are individually controlled and supplied with a Certificate of Inspection, which guarantees a maximum run-out of 0,03 or 0,04 mm., according to the model.

Inspection for eccentricity is carried out following the most demanding standards on the market.



SP, SPX, SPS-SOLID, NPU



HEXA, PLANET



R&D



High Technology



Quality assurance



International Trade

Our brands...

LLAMBRICH
CHUCK

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Precision self-tightening
Drill Chucks

- SP
- SPX
- SP-INOX
- SPS-SOLID



Page 8-9

NPU - Precision self-tightening Drill
Chucks with integrated Shank

- DIN-69871, MAS-BT
- DIN-2080, CAT-ANSI
- VDI, STRAIGHT SHANK
- HSK
- NPU-B (drill chuck head)



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HEXA - Precision Drill Chucks with
integrated Shank and Hexagonal Key lock

- DIN-69871, MAS-BT
- DIN-2080, HSK
- MORSE, STRAIGHT SHANK
- VDI, CAT-ANSI
- R-8, HEXA-B (drill chuck head)



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PLANET - Precision Drill Chucks with
integrated Shank and Hook Key lock

- DIN-69871, MAS-BT
- DIN-2080, CAT-ANSI
- PLANET-B (drill chuck head)



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Arbors, Drill Sleeves
and Ejectors

- Arbors
- Drill Sleeves
- Ejectors



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Self-tightening Drill Chucks
- medium duty -

- CKS - Self-tightening
- CKX - Self-tightening +
with security lock



Note : Without notice, Llambrich reserve the right to change the design, material composition and dimensional specifications for all products offered in this catalogue.

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Keyless Drill Chuck for portable drilling machines

- CPL
- CPX
- CPM



Page 18-19

Key-type Drill Chucks/ SDS Drill Chuck

- CBB
- CY
- CL
- C-INOX
- SDS-Converter



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ER COLLET CHUCKS

- DIN-69871, MAS-BT
- HSK, DIN-2080
- Er Collets and Collet set
- Accessories and spare parts



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Revolving Lathe Centres and Dead Centres

- Precision Revolving Lathe Centres
- Revolving Lathe Centres with small casing diameter
- Dead Centres (Tool steel and carbide tipped)



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Accessories and spare parts

- Spare Parts for Precision Drill Chucks Llambrich®
- Spare Parts for Drill Chucks Chuck®
- Adapters for Drill Chucks
- Accessories for Drill Chucks



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Coolant Pumps

- Submergible (YX, BX)
- Side connection (YXD)
- Coolant Devices

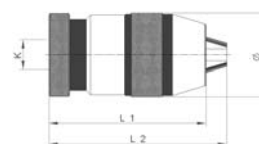




SP

Super Precision Keyless Drill Chuck

- Maximum total integrated run-out of 0,04 mm.
- Self-tightening feature automatically increases gripping force in proportion to increased torque to prevent tool shank slippage. For right-hand rotation applications only.
- Permits use on high accuracy drill presses, jig borers, milling machines and production drilling equipment.
- All components exposed to wear are completely hardened to maintain accuracy and extend chuck life.
- Also available with through hole, for EDM machines.



Ref. no.	capacity		mount K	sizes mm.			weight gr
	mm.	inches		Ø	L1	L2	
SP-03 B-6	0,3 - 3	1/64" - 1/8"	B - 6	24,5	44	47,5	200
SP-03 B-10	0,3 - 3	1/64" - 1/8"	B - 10	24,5	44	47,5	200
SP-03 J-0	0,3 - 3	1/64" - 1/8"	J - 0	24,5	44	47,5	200
SP-03 J-1	0,3 - 3	1/64" - 1/8"	J - 1	24,5	44	47,5	200
SP-03 R-5/16	0,3 - 3	1/64" - 1/8"	5/16" x 24	24,5	44	47,5	200
SP-06 B-10	0,3 - 6,5	1/64" - 1/4"	B - 10	33	62	70	360
SP-06 B-12	0,3 - 6,5	1/64" - 1/4"	B - 12	33	62	70	360
SP-06 J-1	0,3 - 6,5	1/64" - 1/4"	J - 1	33	62	70	360
SP-08 B-12	0,3 - 8	1/64" - 5/16"	B - 12	38	67	74	460
SP-08 J-1	0,3 - 8	1/64" - 5/16"	J - 1	38	67	74	460
SP-08 J-2S	0,3 - 8	1/64" - 5/16"	J - 2S	38	67	74	460
SP-08 R-3/8	0,3 - 8	1/64" - 5/16"	3/8" x 24	38	67	74	460
SP-10 B-12	0,5 - 10	1/32" - 3/8"	B - 12	43	81	89	720
SP-10 B-16	0,5 - 10	1/32" - 3/8"	B - 16	43	81	89	720
SP-10 J-2	0,5 - 10	1/32" - 3/8"	J - 2	43	81	89	720
SP-10 J-33	0,5 - 10	1/32" - 3/8"	J - 33	43	81	89	720
SP-10 R-3/8	0,5 - 10	1/32" - 3/8"	3/8" x 24	43	81	89	720
SP-10 R-1/2	0,5 - 10	1/32" - 3/8"	1/2" x 20	43	81	89	720
SP-13 B-16	1 - 13	1/32" - 1/2"	B - 16	49	91	103	1.000
SP-13 J-2	1 - 13	1/32" - 1/2"	J - 2	49	91	103	1.000
SP-13 J-33	1 - 13	1/32" - 1/2"	J - 33	49	91	103	1.000
SP-13 J-6	1 - 13	1/32" - 1/2"	J - 6	49	91	103	1.000
SP-13 R-1/2	1 - 13	1/32" - 1/2"	1/2" x 20	49	91	103	1.000
SP-16 B-16	3 - 16	1/8" - 5/8"	B - 16	55	95	107	1.320
SP-16 B-18	3 - 16	1/8" - 5/8"	B - 18	55	95	107	1.320
SP-16 J-33	3 - 16	1/8" - 5/8"	J - 33	55	95	107	1.320
SP-16 J-6	3 - 16	1/8" - 5/8"	J - 6	55	95	107	1.320

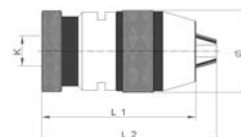
SP



SPX

Super Precision Keyless Drill Chuck, with supplementary gripping torque

- SPX drill chucks offer the same features as SP, with the advantage of being furnished with milled wrench flats and spanner wrench to allow application of supplementary gripping torque. Light tightening increases gripping torque up to 3 times higher than hand tightening.
- For use on CNC machines in drilling, boring, counter-boring and milling operations requiring heavy feed.
- Resistance to tool loosening on high-speed machines with instant spindle stop.



Ref. no.	capacity		mount K	sizes mm.			weight gr
	mm.	inches		Ø	L1	L2	
SPX-06 B-10	0,3 - 6,5	1/64" - 1/4"	B-10	33	62	70	580
SPX-06 B-12	0,3 - 6,5	1/64" - 1/4"	B-12	33	62	70	580
SPX-06 J-1	0,3 - 6,5	1/64" - 1/4"	J-1	33	62	70	580
SPX-08 B-12	0,3 - 8	1/64" - 5/16"	B-12	38	67	74	680
SPX-08 J-1	0,3 - 8	1/64" - 5/16"	J-1	38	67	74	680
SPX-08 J-2S	0,3 - 8	1/64" - 5/16"	J-2S	38	67	74	680
SPX-10 B-12	0,5 - 10	1/32" - 3/8"	B-12	43	81	89	940
SPX-10 B-16	0,5 - 10	1/32" - 3/8"	B-16	43	81	89	940
SPX-10 J-2	0,5 - 10	1/32" - 3/8"	J-2	43	81	89	940
SPX-10 J-33	0,5 - 10	1/32" - 3/8"	J-33	43	81	89	940
SPX-13 B-16	1 - 13	1/32" - 1/2"	B-16	49	91	103	1.220
SPX-13 J-2	1 - 13	1/32" - 1/2"	J-2	49	91	103	1.220
SPX-13 J-33	1 - 13	1/32" - 1/2"	J-33	49	91	103	1.220
SPX-13 J-6	1 - 13	1/32" - 1/2"	J-6	49	91	103	1.220
SPX-16 B-16	3 - 16	1/8" - 5/8"	B-16	55	95	107	1.540
SPX-16 B-18	3 - 16	1/8" - 5/8"	B-18	55	95	107	1.540
SPX-16 J-33	3 - 16	1/8" - 5/8"	J-33	55	95	107	1.540
SPX-16 J-6	3 - 16	1/8" - 5/8"	J-6	55	95	107	1.540

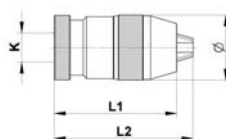
SPX



SP-INOX

STAINLESS STEEL Super Precision Keyless Drill Chuck

- For use in medical, dental and food industries.



Ref. no.	capacity		mount K	sizes mm.			weight gr
	mm.	inches		Ø	L1	L2	
SP-03 R-3/8 SS	0,3 - 3	1/64" - 1/8"	3/8" x 24	24,5	44	47,5	200
SP-06 R-3/8 SS	0,3 - 6,5	1/64" - 1/4"	3/8" x 24	33	62	70	360

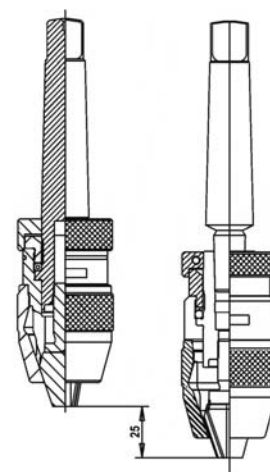
SP-INOX



SPS-SOLID

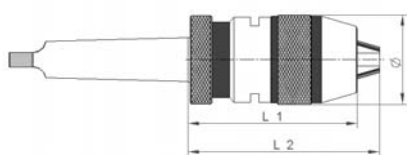
Super Precision Keyless Drill Chuck
with Integrated Shank (Morse taper,
straight shank or R-8)

- Arbor integrated in internal socket of drill chuck; compact design.
- No possibility of taper slipping from drill chuck.
- Greater rigidity and precision.
- Maximum total integrated run-out of 0,04 mm.
- Self-tightening feature automatically increases gripping force in proportion to increased torque to prevent tool shank slippage. For right-hand rotation applications only.
- Furnished with milled wrench flats and spanner wrench to allow application of supplementary gripping torque. Light tightening increases gripping torque up to 3 times higher than hand tightening.
- Resistance to tool loosening on high-speed machines with instant spindle stop.

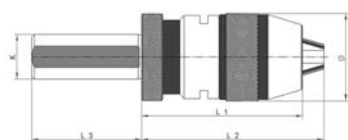


SPS-13 MT-3 SPX-13 + arbor MT-3

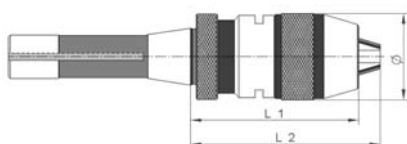
Morse Taper



Straight Shank



R-8



Ref. no.	capacity		mount	sizes mm.				weight
	mm.	inches		Ø	L1	L2	L3	
SPS-08 MT-2	0,3 - 8	1/64" - 5/16"	morse taper 2	38	65	72		800
SPS-10 MT-2	0,5 - 10	1/32" - 3/8"	morse taper 2	43	73	82		1.020
SPS-13 MT-2	1 - 13	1/32" - 1/2"	morse taper 2	48	80	92		1.200
SPS-13 MT-3	1 - 13	1/32" - 1/2"	morse taper 3	48	80	92		1.320
SPS-13 MT-4	1 - 13	1/32" - 1/2"	morse taper 4	48	80	92		1.580
SPS-16 MT-2	3 - 16	1/8" - 5/8"	morse taper 2	54	85	96		1.600
SPS-16 MT-3	3 - 16	1/8" - 5/8"	morse taper 3	54	85	96		1.720
SPS-16 MT-4	3 - 16	1/8" - 5/8"	morse taper 4	54	85	96		1.980
SPS-13 CIL-20	1 - 13	1/32" - 1/2"	Ø mm. 20	48	80	92	60	1.320
SPS-13 CIL-25	1 - 13	1/32" - 1/2"	Ø mm. 25	48	80	92	61	1.320
SPS-13 CIL-32	1 - 13	1/32" - 1/2"	Ø mm. 32	48	80	92	63	1.440
SPS-16 CIL-20	3 - 16	1/8" - 5/8"	Ø mm. 20	54	88	98	60	1.600
SPS-16 CIL-25	3 - 16	1/8" - 5/8"	Ø mm. 25	54	88	98	61	1.680
SPS-16 CIL-32	3 - 16	1/8" - 5/8"	Ø mm. 32	54	88	98	63	1.800
SPS-13 R-8	1 - 13	1/32" - 1/2"	R-8	48	82	90		1.580
SPS-16 R-8	3 - 16	1/8" - 5/8"	R-8	54	87	98		1.800



NPU

Super Precision Short Keyless Drill Chuck with Integrated Shank



- For use on CNC machining centres.
- Single taper connection between drill chuck and shank eliminates intermediate arbors to ensure high tool rigidity and drilling accuracy.
- Furnished with milled wrench flats and spanner wrench to allow application of supplementary gripping torque.
- Resistance to tool loosening on high-speed machines with instant spindle stop.
- Maximum total integrated run-out of 0,04 mm.

ADVANTAGES

A

COMPACT CONSTRUCTION

- Drill chuck model SPX-13 with DIN-69871 ISO 40 shank is 67 mm longer than drill chuck NPU-13 with the same shank. Greater rigidity and precision.

B

MAXIMUM CONNECTION RIGIDITY

- The connection with a short Morse taper is the best due to its rigidity and precision.

C

RETENSION SCREW

- Guarantees a perfect connection between the internal arbor taper and the external arbor taper.

K

HIGHER PRECISION

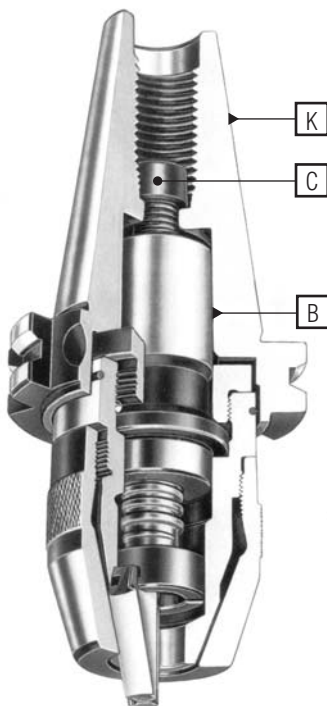
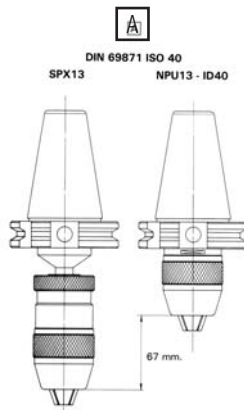
- The eccentricity is controlled by the single taper connection to the machine and no intermediate arbor is needed as with the standard drill chuck.

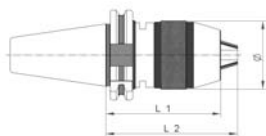
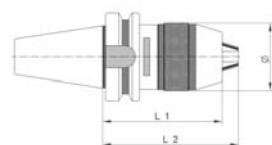
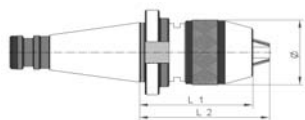
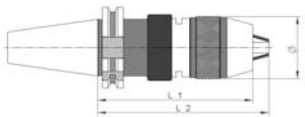
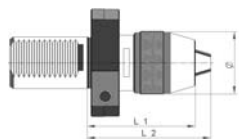
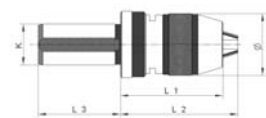
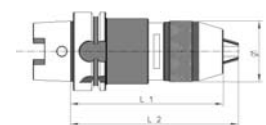
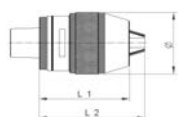
ADVANTAGES OF SUPPLEMENTARY TIGHTENING BY WRENCH:

- Increases gripping torque up to three times higher than hand tightening.



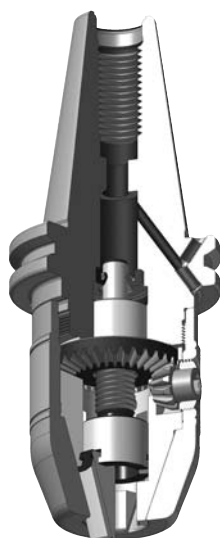
Capacities 0-3 mm and 0-6,5 mm
available on request for all NPU
models



DIN-69871-A

MAS 403-BT [JIS-6339A]

DIN-2080

CAT-ANSI

DIN-69880 VDI 3425/2

STRAIGHT SHANK

DIN-69893-A [HSK]

NPU-B


Ref. no.	capacity		mount ISO	sizes mm.				thread p.stud	weight kg
	mm.	inches		Ø	L1	L2	L3		
NPU-08 ID 30	0,3 - 8	1/64" - 5/16"	30	38	77	83		M12	1,10
NPU-08 ID 40	0,3 - 8	1/64" - 5/16"	40	38	70	76		M16	1,50
NPU-08 ID 40/110	0,3 - 8	1/64" - 5/16"	40/110	38	110	116		M16	1,95
NPU-10 ID 30	0,5 - 10	1/32" - 3/8"	30	43	86	94		M12	1,30
NPU-10 ID 40	0,5 - 10	1/32" - 3/8"	40	43	74	82		M16	1,60
NPU-10 ID 40/110	0,5 - 10	1/32" - 3/8"	40/110	43	114	122		M16	1,95
NPU-13 ID 40	1 - 13	1/32" - 1/2"	40	48	80	91		M16	1,70
NPU-13 ID 40/125	1 - 13	1/32" - 1/2"	40/125	48	130	141		M16	2,45
NPU-13 ID 45	1 - 13	1/32" - 1/2"	45	48	78	89		M20	2,50
NPU-13 ID 50	1 - 13	1/32" - 1/2"	50	48	78	89		M24	3,65
NPU-16 ID 40	3 - 16	1/8" - 5/8"	40	55	97	108		M16	2,15
NPU-16 ID 50	3 - 16	1/8" - 5/8"	50	55	76	89		M24	3,75
NPU-16 ID 50/125	3 - 16	1/8" - 5/8"	50/125	55	130	140		M24	4,90
NPU-08 BT 30	0,3 - 8	1/64" - 5/16"	30	38	73	79		M12	1,10
NPU-08 BT 40	0,3 - 8	1/64" - 5/16"	40	38	78	84		M16	1,50
NPU-08 BT 40/110	0,3 - 8	1/64" - 5/16"	40/110	38	78	84		M16	1,90
NPU-10 BT 30	0,5 - 10	1/32" - 3/8"	30	43	89	97		M12	1,30
NPU-10 BT 40	0,5 - 10	1/32" - 3/8"	40	43	79	87		M16	1,70
NPU-10 BT 40/110	0,5 - 10	1/32" - 3/8"	40/110	43	109	117		M16	2,10
NPU-13 BT 40	1 - 13	1/32" - 1/2"	40	48	86	97		M16	1,90
NPU-13 BT 40/130	1 - 13	1/32" - 1/2"	40/130	48	136	147		M16	2,70
NPU-13 BT 50	1 - 13	1/32" - 1/2"	50	48	97	108		M24	4,60
NPU-16 BT 40	3 - 16	1/8" - 5/8"	40	55	105	116		M16	2,30
NPU-16 BT 50	3 - 16	1/8" - 5/8"	50	55	95	106		M24	4,70
NPU-16 BT 50/145	3 - 16	1/8" - 5/8"	50/145	55	145	156		M24	5,80
NPU-08 DIN 30	0,3 - 8	1/64" - 5/16"	30	38	70	76		M12	1,00
NPU-08 DIN 40	0,3 - 8	1/64" - 5/16"	40	38	63	69		M16	1,40
NPU-10 DIN 30	0,5 - 10	1/32" - 3/8"	30	43	77	85		M12	1,20
NPU-10 DIN 40	0,5 - 10	1/32" - 3/8"	40	43	72	80		M16	1,60
NPU-13 DIN 40	1 - 13	1/32" - 1/2"	40	48	78	89		M16	1,70
NPU-13 DIN 50	1 - 13	1/8" - 5/8"	50	48	90	101		M24	3,60
NPU-16 DIN 40	3 - 16	1/8" - 5/8"	40	55	90	101		M16	2,10
NPU-16 DIN 50	3 - 16	1/8" - 5/8"	50	55	72	83		M24	3,75
NPU-08 CA 30-A	0,3 - 8	1/64" - 5/16"	30	38	101	107		1/2"-13	0,85
NPU-08 CA 40-A	0,3 - 8	1/64" - 5/16"	40	38	82	88		5/8"-11	1,30
NPU-13 CA 40-A	1 - 13	1/32" - 1/2"	40	48	115	126		5/8"-11	1,85
NPU-13 CA 45-A	1 - 13	1/32" - 1/2"	45	48	96	107		3/4"-10	2,25
NPU-13 CA 50-A	1 - 13	1/32" - 1/2"	50	48	96	107		1"-8	2,50
NPU-16 CA 40-A	3 - 16	1/8" - 5/8"	40	55	120	131		5/8"-11	3,65
NPU-16 CA 50-A	3 - 16	1/8" - 5/8"	50	55	94	105		1"-8	3,85
NPU-08 VDI 30	0,3 - 8	1/64" - 5/16"	30	38	72	79			1,85
NPU-13 VDI 30	1 - 13	1/32" - 1/2"	30	48	94	105			2,10
NPU-13 VDI 40	1 - 13	1/32" - 1/2"	40	48	85	92			2,40
NPU-16 VDI 40	3 - 16	1/8" - 5/8"	40	55	85	96			2,60
NPU-16 VDI 50	3 - 16	1/8" - 5/8"	50	55	87	98			3,65
NPU-16 VDI 60	3 - 16	1/8" - 5/8"	60	55	87	98			5,40
NPU-08 CIL 25	0,3 - 8	1/64" - 5/16"	25	38	66	73	56		0,85
NPU-08 CIL 30	0,3 - 8	1/64" - 5/16"	30	38	66	73	56		1,30
NPU-08 CIL 32	0,3 - 8	1/64" - 5/16"	32	38	66	73	56		1,85
NPU-13 CIL 32	1 - 13	1/32" - 1/2"	32	48	80	92	65		2,25
NPU-13 CIL 40	1 - 13	1/32" - 1/2"	40	48	80	92	65		2,50
NPU-16 CIL 40	3 - 16	1/8" - 5/8"	40	55	84	96	70		3,65
NPU-16 CIL 50	3 - 16	1/8" - 5/8"	50	55	84	96	70		3,85
NPU-13 HSK 50	1 - 13	1/32" - 1/2"	50	48	120	131			2,10
NPU-13 HSK 63	1 - 13	1/32" - 1/2"	63	48	120	131			2,30
NPU-16 HSK 63	3 - 16	1/8" - 5/8"	63	55	131	142			2,65
NPU-16 HSK 80	3 - 16	1/8" - 5/8"	80	55	134	145			3,40
NPU-16 HSK 100	3 - 16	1/8" - 5/8"	100	55	134	145			4,40
NPU-03 B	0,3 - 3	1/64" - 5/16"	B-12	24	38	41			0,12
NPU-06 B	0,3 - 6,5	1/64" - 5/16"	B-18	33	52	59			0,28
NPU-08 B	0,3 - 8	1/64" - 5/16"	B-18	38	57	64			0,38
NPU-10 B/30 (1)	0,5 - 10	1/32" - 3/8"	B-18	43	64	74			0,54
NPU-10 B/40 (2)	0,5 - 10	1/32" - 3/8"	B-18	43	64	74			0,54
NPU-13 B	1 - 13	1/32" - 1/2"	MORSE-3	48	72	84			0,76
NPU-16 B/40 (2)	3 - 16	1/8" - 5/8"	MORSE-3	54	76	88			1,06
NPU-16 B/50 (3)	3 - 16	1/8" - 5/8"	MORSE-3	54	76	88			1,06

(1) for taper 30
 (2) for taper 40
 (3) for taper 50

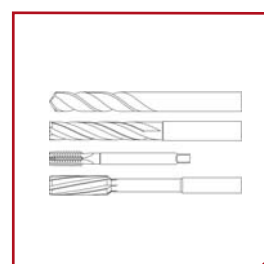
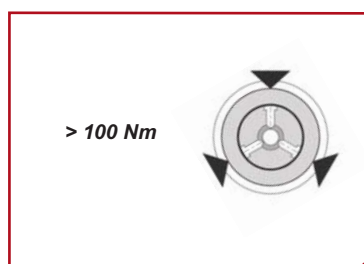
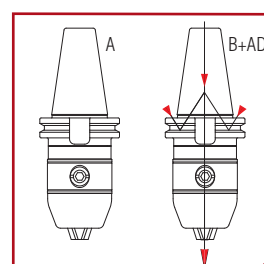
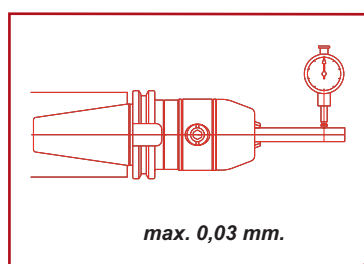
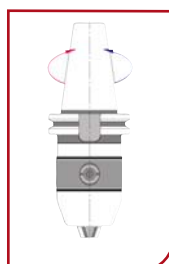


HEXA

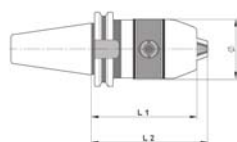
Precision drill chuck with integrated shank and hexagonal key lock



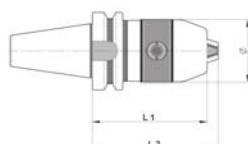
- For use on high-speed CNC machines, optional through coolant for drilling, milling, reaming and tapping.
- Hexagonal key lock system.
- Permits clockwise and counterclockwise turning.
- High gripping torque, exceeding 100 Nm.
- Maximum total integrated run-out of 0.03 mm.
- Maximum coolant pressure: 50 bar.
- Maximum revolutions per minute without balancing: 8000.
- Optional balancing service up to 25.000 rpm G6,3.



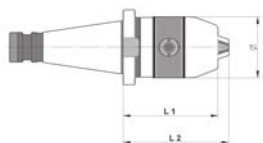
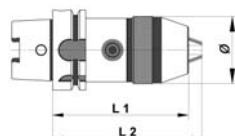
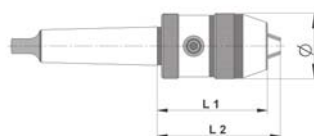
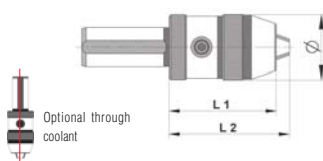
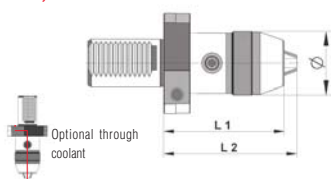
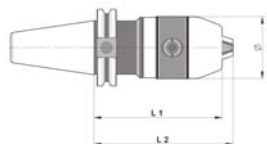
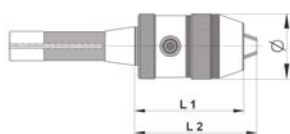
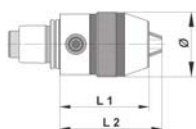
DIN-69871-A A, B, AD



MAS 403-BT [JIS-6339A] A, B, AD



Ref. no.	capacity		mount ISO	through coolant	sizes mm.			thread p.stud	weight kg
	mm.	inches			Ø	L1	L2		
HX-10 ID-40	0,5 - 10	1/32" - 3/8"	40	--	43	77	85,5	M16	1,30
HX-10 ID-40/R	0,5 - 10	1/32" - 3/8"	40	B+AD	43	77	85,5	M16	1,30
HX-13 ID-40	1 - 13	1/32" - 1/2"	40	--	54	91	100	M16	1,92
HX-13 ID-40/R	1 - 13	1/32" - 1/2"	40	B+AD	54	91	100	M16	1,92
HX-13 ID-50	1 - 13	1/32" - 1/2"	50	--	54	93	102	M24	3,46
HX-13 ID-50/R	1 - 13	1/32" - 1/2"	50	B+AD	54	93	102	M24	3,46
HX-16 ID-40	3 - 16	1/8" - 5/8"	40	--	57	94	101	M16	2,10
HX-16 ID-40/R	3 - 16	1/8" - 5/8"	40	B+AD	57	94	101	M16	2,10
HX-16 ID-50	3 - 16	1/8" - 5/8"	50	--	57	96	103	M24	3,56
HX-16 ID-50/R	3 - 16	1/8" - 5/8"	50	B+AD	57	96	103	M24	3,56
HX-10 BT-40	0,5 - 10	1/32" - 3/8"	40	--	43	86	95	M16	1,38
HX-10 BT-40/R	0,5 - 10	1/32" - 3/8"	40	B+AD	43	86	95	M16	1,38
HX-13 BT-40	1 - 13	1/32" - 1/2"	40	--	54	96	105	M16	2,04
HX-13 BT-40/R	1 - 13	1/32" - 1/2"	40	B+AD	54	96	105	M16	2,04
HX-13 BT-50	1 - 13	1/32" - 1/2"	50	--	54	107	116	M24	4,38
HX-13 BT-50/R	1 - 13	1/32" - 1/2"	50	B+AD	54	107	116	M24	4,38
HX-16 BT-40	3 - 16	1/8" - 5/8"	40	--	57	99	106	M16	2,22
HX-16 BT-40/R	3 - 16	1/8" - 5/8"	40	B+AD	57	99	106	M16	2,22
HX-16 BT-50	3 - 16	1/8" - 5/8"	50	--	57	110	117	M24	4,48
HX-16 BT-50/R	3 - 16	1/8" - 5/8"	50	B+AD	57	110	117	M24	4,48

DIN-2080

DIN-69893-A [HSK]

MORSE

STRAIGHT SHANK

**DIN-69880 VDI
A, AD**

**CAT-ANSI
A, AD**

R-8

HEXA-B


Ref. no.	capacity		mount ISO	through coolant	sizes mm.			thread p.stud	weight kg
	mm.	inches			Ø	L1	L2		
HX-10 DIN-40	0,5 - 10	1/32" - 3/8"	40	--	43	72	81	M16	1,22
HX-13 DIN-40	1 - 13	1/32" - 1/2"	40	--	54	82	91	M16	1,84
HX-13 DIN-50	1 - 13	1/32" - 1/2"	50	--	54	85	94	M24	3,32
HX-16 DIN-40	3 - 16	1/8" - 5/8"	40	--	57	85	92	M16	2,00
HX-16 DIN-50	3 - 16	1/8" - 5/8"	50	--	57	88	95	M24	3,42
HX-13 HSK-50	1 - 13	1/32" - 1/2"	50	--	54	112	121	--	1,38
HX-13 HSK-50 /R	1 - 13	1/32" - 1/2"	50	AD	54	112	121	--	1,38
HX-13 HSK-63	1 - 13	1/32" - 1/2"	63	--	54	98	107	--	1,78
HX-13 HSK-63 /R	1 - 13	1/32" - 1/2"	63	AD	54	103	112	--	1,78
HX-13 HSK-100	1 - 13	1/32" - 1/2"	100	--	54	110	119	--	4,38
HX-13 HSK-100 /R	1 - 13	1/32" - 1/2"	100	AD	54	98	107	--	4,38
HX-16 HSK-50	3 - 16	1/8" - 5/8"	50	--	57	115	122	--	1,88
HX-16 HSK-50 /R	3 - 16	1/8" - 5/8"	50	AD	57	115	122	--	1,88
HX-16 HSK-63	3 - 16	1/8" - 5/8"	63	--	57	101	108	--	4,48
HX-16 HSK-63 /R	3 - 16	1/8" - 5/8"	63	AD	57	106	113	--	4,48
HX-16 HSK-100	3 - 16	1/8" - 5/8"	100	--	57	113	120	--	4,48
HX-16 HSK-100 /R	3 - 16	1/8" - 5/8"	100	AD	57	101	108	--	4,48
HX-13 MT-2	1 - 13	1/32" - 1/2"	MT-2	--	54	85	94	--	1,32
HX-13 MT-3	1 - 13	1/32" - 1/2"	MT-3	--	54	85	94	--	1,48
HX-13 MT-4	1 - 13	1/32" - 1/2"	MT-4	--	54	85	94	--	1,80
HX-16 MT-2	3 - 16	1/8" - 5/8"	MT-2	--	57	88	95	--	1,42
HX-16 MT-3	3 - 16	1/8" - 5/8"	MT-3	--	57	88	95	--	1,56
HX-16 MT-4	3 - 16	1/8" - 5/8"	MT-4	--	57	88	95	--	1,88
HX-13 CIL-20	1 - 13	1/32" - 1/2"	20	--	54	85	94	--	1,30
HX-13 CIL-25	1 - 13	1/32" - 1/2"	25	--	54	82	91	--	1,40
HX-13 CIL-32	1 - 13	1/32" - 1/2"	32	--	54	82	91	--	1,56
HX-13 CIL-40	1 - 13	1/32" - 1/2"	40	--	54	82	91	--	1,86
HX-16 CIL-20	3 - 16	1/8" - 5/8"	20	--	57	88	95	--	1,40
HX-16 CIL-25	3 - 16	1/8" - 5/8"	25	--	57	85	92	--	1,48
HX-16 CIL-32	3 - 16	1/8" - 5/8"	32	--	57	85	92	--	1,64
HX-16 CIL-40	3 - 16	1/8" - 5/8"	40	--	57	85	92	--	1,94
HX-13 VDI-30	1 - 13	1/32" - 1/2"	30	--	54	90	99	--	1,74
HX-13 VDI-40	1 - 13	1/32" - 1/2"	40	--	54	92	101	--	2,30
HX-13 VDI-50	1 - 13	1/32" - 1/2"	50	--	54	96	105	--	3,32
HX-16 VDI-30	3 - 16	1/8" - 5/8"	30	--	57	93	100	--	1,82
HX-16 VDI-40	3 - 16	1/8" - 5/8"	40	--	57	95	102	--	2,38
HX-16 VDI-50	3 - 16	1/8" - 5/8"	50	--	57	99	106	--	3,40
HX-10 CA40	0,5 - 10	1/32" - 3/8"	40	--	43	100	108,5	M16	1,50
HX-10 CA40/R	0,5 - 10	1/32" - 3/8"	40	B+AD	43	100	108,5	M16	1,50
HX-13 CA40	1 - 13	1/32" - 1/2"	40	--	54	107	116	M16	2,18
HX-13 CA40/R	1 - 13	1/32" - 1/2"	40	B+AD	54	107	116	M16	2,18
HX-13 CA50	1 - 13	1/32" - 1/2"	50	--	54	88	97	M24	3,86
HX-13 CA50/R	1 - 13	1/32" - 1/2"	50	B+AD	54	94	103	M24	3,86
HX-16 CA40	3 - 16	1/8" - 5/8"	40	--	57	110	117	M16	2,30
HX-16 CA40/R	3 - 16	1/8" - 5/8"	40	B+AD	57	110	117	M16	2,30
HX-16 CA50	3 - 16	1/8" - 5/8"	50	--	57	91	98	M24	3,96
HX-16 CA50/R	3 - 16	1/8" - 5/8"	50	B+AD	57	97	104	M24	3,96
HX-13 R-8	1 - 13	1/32" - 1/2"	R-8	--	54	85	94	--	1,58
HX-16 R-8	3 - 16	1/8" - 5/8"	R-8	--	57	88	95	--	1,66
HX-10 B	0,5 - 10	1/32" - 3/8"	Morse 4	--	43	60	69	--	0,72
HX-10 B/R	0,5 - 10	1/32" - 3/8"	Morse 4	B+AD	43	60	69	--	0,72
HX-13 B	1 - 13	1/32" - 1/2"	Morse 4	--	54	73	85	--	1,12
HX-13 B/R	1 - 13	1/32" - 1/2"	Morse 4	B+AD	54	73	85	--	1,12
HX-16 B	3 - 16	1/8" - 5/8"	Morse 4	--	57	76	87	--	1,22
HX-16 B/R	3 - 16	1/8" - 5/8"	Morse 4	B+AD	57	76	87	--	1,22

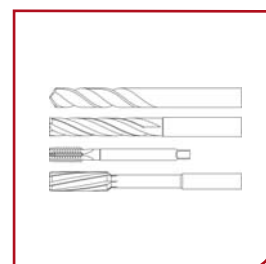
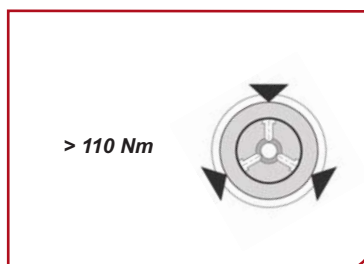
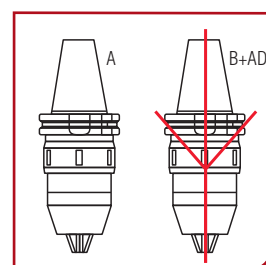
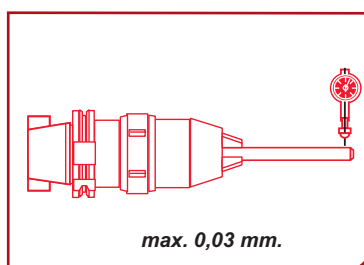
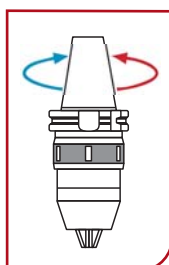


Four-gear system, PATENTED

PLANET

Precision drill chuck with integrated shank and hook key lock

- For use on high-speed CNC machines, optional through coolant for drilling, milling, reaming and tapping.
- Innovative design, patented by Llambrich.
- Hook key lock system.
- Permits clockwise and counterclockwise turning.
- High gripping torque, exceeding 110 Nm.
- Maximum total integrated run-out of 0.03 mm.
- Maximum coolant pressure: 50 bar.
- Maximum revolutions per minute without balancing: 8000.
- Optional balancing service up to 25.000 rpm G6,3.



FASTEST TOOL CHANGE WITH THE PLANET SYSTEM

- New design (PATENTED) combining initial manual closing and then final key tightening.
- Hook key for final tightening, the same traditional style of grip used in collet chucks.
- The grip applied with the hook key is simpler and more powerful than with other systems.

GRIPPING TORQUE EXCEEDING 110 Nm

- Most suitable for preventing the tool from slipping.
- Most suitable for gripping hard metal tools.
- There is no other drill chuck on the market with a tighter grip.
- The PLANET SYSTEM gripping torque is close to the grip achieved by collet chucks.

MAXIMUM CONCENTRICITY

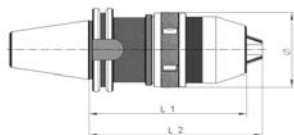
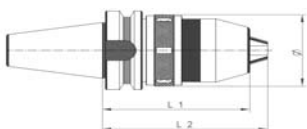
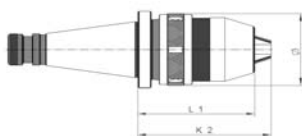
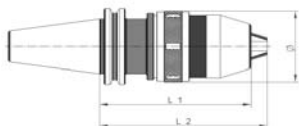
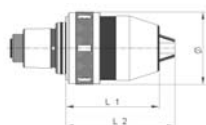
- Precision is our manufacturing standard at Llambrich. Since 1983 we have been pioneers in guaranteeing that 100% of our precision drill chucks are tested under strict conditions.
- The excellent true running of the PLANET SYSTEM (max. run-out 0.03mm) enables milling operations under the most demanding conditions and especially the gripping of carbide tools. Due to their hardness these tools are more sensitive to breakage when the drill chuck is not of high precision.

STRONGER SYSTEM

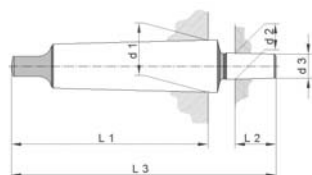
- The 4-gear system in a "planetary" arrangement is capable of bearing extreme force, unlike other systems with just one gear.

SUPERIOR DESIGN DUE TO DYNAMIC PRE-BALANCING

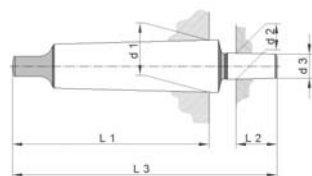
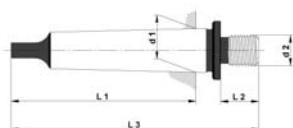
- The PLANET SYSTEM design with its 4 gears in a symmetrical pattern enables rotation at 8,000 rpm without dynamic balancing.

DIN-69871
 A, B, AD

MAS 403-BT [JIS-6339A]
 A, B, AD

DIN-2080
 A, AD

CAT-ANSI
 A, AD

PLANET-B


Ref. no.	capacity		mount ISO	through coolant	sizes mm.			thread p.stud	weight kg
	mm.	inches			Ø	L1	L2		
PS-08 ID-40	0,3 - 8	1/64" - 5/16"	40	--	40	90	97	M16	1,56
PS-08 ID-40/R	0,3 - 8	1/64" - 5/16"	40	B+AD	40	90	97	M16	1,56
PS-13 ID-40	1 - 13	1/32" - 1/2"	40	--	57	113	125	M16	2,25
PS-13 ID-40/R	1 - 13	1/32" - 1/2"	40	B+AD	57	113	125	M16	2,25
PS-13 ID-50	1 - 13	1/32" - 1/2"	50	--	57	93	105	M24	4,05
PS-13 ID-50/R	1 - 13	1/32" - 1/2"	50	B+AD	57	93	105	M24	4,05
PS-16 ID-40	3 - 16	1/8" - 5/8"	40	--	57	115	127	M16	2,40
PS-16 ID-40/R	3 - 16	1/8" - 5/8"	40	B+AD	57	115	127	M16	2,40
PS-16 ID-50	3 - 16	1/8" - 5/8"	50	--	57	96	107	M24	4,20
PS-16 ID-50/R	3 - 16	1/8" - 5/8"	50	B+AD	57	96	107	M24	4,20
PS-08 BT-40	0,3 - 8	1/64" - 5/16"	40	--	40	75	82	M16	1,56
PS-08 BT-40/R	0,3 - 8	1/64" - 5/16"	40	B+AD	40	75	82	M16	1,56
PS-13 BT-40	1 - 13	1/32" - 1/2"	40	--	57	99	110	M16	2,25
PS-13 BT-40/R	1 - 13	1/32" - 1/2"	40	B+AD	57	99	110	M16	2,25
PS-13 BT-50	1 - 13	1/32" - 1/2"	50	--	57	110	122	M24	4,95
PS-13 BT-50/R	1 - 13	1/32" - 1/2"	50	B+AD	57	110	122	M24	4,95
PS-16 BT-40	3 - 16	1/8" - 5/8"	40	--	57	101	112	M16	2,30
PS-16 BT-40/R	3 - 16	1/8" - 5/8"	40	B+AD	57	101	112	M16	2,30
PS-16 BT-50	3 - 16	1/8" - 5/8"	50	--	57	110	121	M24	5,20
PS-16 BT-50/R	3 - 16	1/8" - 5/8"	50	B+AD	57	110	121	M24	5,20
PS-08 DIN-40	0,3 - 8	1/64" - 5/16"	40	--	40	60	67	M16	1,35
PS-08 DIN-40/R	0,3 - 8	1/64" - 5/16"	40	AD	40	60	67	M16	1,35
PS-13 DIN-40	1 - 13	1/32" - 1/2"	40	--	57	88	100	M16	2,05
PS-13 DIN-40/R	1 - 13	1/32" - 1/2"	40	AD	57	88	100	M16	2,05
PS-13 DIN-50	1 - 13	1/32" - 1/2"	50	--	57	86	98	M24	4,05
PS-13 DIN-50/R	1 - 13	1/32" - 1/2"	50	AD	57	86	98	M24	4,05
PS-16 DIN-40	3 - 16	1/8" - 5/8"	40	--	57	91	102	M16	2,20
PS-16 DIN-40/R	3 - 16	1/8" - 5/8"	40	AD	57	91	102	M16	2,20
PS-16 DIN-50	3 - 16	1/8" - 5/8"	50	--	57	89	100	M24	4,00
PS-16 DIN-50/R	3 - 16	1/8" - 5/8"	50	AD	57	89	100	M24	4,00
PS-08 CAT-40	0,3 - 8	1/64" - 5/16"	40	--	40	92	99	5/8"-11	1,56
PS-08 CAT-40/R	0,3 - 8	1/64" - 5/16"	40	AD	40	92	99	5/8"-11	1,56
PS-13 CAT-40	1 - 13	1/32" - 1/2"	40	--	57	113	125	5/8"-11	2,25
PS-13 CAT-40/R	1 - 13	1/32" - 1/2"	40	AD	57	113	125	5/8"-11	2,25
PS-13 CAT-50	1 - 13	1/32" - 1/2"	50	--	57	93	150	1"-8	4,05
PS-13 CAT-50/R	1 - 13	1/32" - 1/2"	50	AD	57	93	105	1"-8	4,05
PS-16 CAT-40	3 - 16	1/8" - 5/8"	40	--	57	115	127	5/8"-11	2,40
PS-16 CAT-40/R	3 - 16	1/8" - 5/8"	40	AD	57	115	127	5/8"-11	2,40
PS-16 CAT-50	3 - 16	1/8" - 5/8"	50	--	57	96	107	1"-8	4,20
PS-16 CAT-50/R	3 - 16	1/8" - 5/8"	50	AD	57	96	107	1"-8	4,20
PS-08 B	0,3 - 8	1/64" - 5/16"	Morse 3	--	40	52	59	--	0,56
PS-08 B/R	0,3 - 8	1/64" - 5/16"	Morse 3	B+AD	40	52	59	--	0,56
PS-13 B	1 - 13	1/32" - 1/2"	Morse 4	--	57	73	85	--	1,28
PS-13 B/R	1 - 13	1/32" - 1/2"	Morse 4	B+AD	57	73	85	--	1,28
PS-16 B	3 - 16	1/8" - 5/8"	Morse 4	--	57	75	86	--	1,38
PS-16 B/R	3 - 16	1/8" - 5/8"	Morse 4	B+AD	57	75	86	--	1,38


**Arbors
DIN-228 taper**


* for SP, SPX and CKS, with shortered B18 taper

**Arbors
Jacobs taper**

**Threaded
arbors UNF**


Taper shank arbors for Drill Chucks

- Taper Arbors: DIN-228 and JACOBS
- Threaded arbors: UNF

- The arbor is an intermediary gripping element between the drill chuck (type CKS, SP and SPX) and the spindle of the machine.
- Llambrich arbors are totally hardened and precision ground, ensuring a close fit.
- Available in a wide range of DIN-228, JACOBS Morse tapers and UNF thread.
- Maximum concentricity.

Ref. no.	taper		sizes mm.						weight gr
	Morse	DIN-228	d1	d2	d3	L1	L2	L3	
E-10/1	1	10	12,065	10,095	9,4	62	14,5	85	60
E-12/1	1	12	12,065	12,065	11,1	62	18,5	89	66
E-12/2	2	12	17,78	12,065	11,1	75	18,5	106	145
E-12/3	3	12	23,825	12,065	11,1	94	18,5	126	305
E-16/1	1	16	12,065	15,733	14,5	62	24	99	90
E-16/2	2	16	17,78	15,733	14,5	75	24	111	170
E-16/3	3	16	23,825	15,733	14,5	94	24	134	335
E-16/4	4	16	31,267	15,733	14,5	117,5	24	158	650
E-16/5	5	16	44,399	15,733	14,5	149,5	24	194	1.585
E-18/1	1	18	12,065	17,78	16,2	62	32	96	105
E-18/2	2	18	17,78	17,78	16,2	75	32	118	200
E-18/3	3	18	23,825	17,78	16,2	94	32	140	355
E-18/4	4	18	31,267	17,78	16,2	117,5	32	166,5	675
E-18/5	5	18	44,399	17,78	16,2	149,5	32	202	1.605
E-18c*/1	1	18c*	12,065	17,42	16,2	62	23	86	90
E-18c*/2	2	18c*	17,78	17,42	16,2	75	23	108	185
E-18c*/3	3	18c*	23,825	17,42	16,2	94	23	131	325
E-18c*/4	4	18c*	31,267	17,42	16,2	117,5	23	158	650
E-18c*/5	5	18c*	44,399	17,42	16,2	149,5	23	189	1.570
E-22/2	2	22	17,78	21,793	19,8	75	40,5	130	265
E-22/3	3	22	23,825	21,793	19,8	94	40,5	147	410
E-22/4	4	22	31,267	21,793	19,8	117,5	40,5	176	740
E-22/5	5	22	44,399	21,793	19,8	149,5	40,5	213	1.665

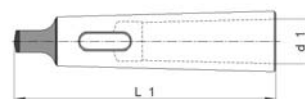
DRILL SLEEVES



Drill Sleeves

DIN-2185

- Completely hardened and ground, both internally and externally.
- Wide range.



Ref. no.	morse taper		sizes mm.		weight gr
	outside	inside	d1	L1	
CR-2 x 1	2	1	12,065	92	100
CR-3 x 1	3	1	12,065	99	220
CR-3 x 2	3	2	17,78	112	190
CR-4 x 1	4	1	12,065	124	535
CR-4 x 2	4	2	17,780	124	460
CR-4 x 3	4	3	23,825	140	405
CR-5 x 1	5	1	12,065	156	1.700
CR-5 x 2	5	2	17,780	156	1.520
CR-5 x 3	5	3	23,825	156	1.360
CR-5 x 4	5	4	31,267	171	950
CR-6 x 2	6	2	17,780	219	4.300
CR-6 x 3	6	3	23,825	219	4.100
CR-6 x 4	6	4	31,267	219	3.600
CR-6 x 5	6	5	44,390	219	2.550

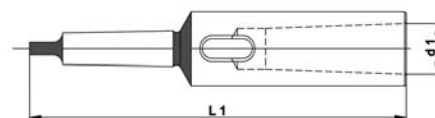
EXTENSION SLEEVES



Extension Sleeves

DIN-2187

- Completely hardened and ground, both internally and externally.
- Wide range.



Ref. no.	morse taper		sizes mm.		weight gr
	outside	inside	d1	L1	
CP 1x1	1	1	12,065	145	190
CP 1x2	1	2	17,78	160	400
CP 2x1	2	1	12,065	160	290
CP 2x2	2	2	17,78	175	500
CP 2x3	2	3	23,825	196	600
CP 3x1	3	1	12,065	175	410
CP 3x2	3	2	17,78	194	620
CP 3x3	3	3	23,825	215	890
CP 3x4	3	4	31,267	240	1.550
CP 4x1	4	1	12,065	200	810
CP 4x2	4	2	17,78	215	1.000
CP 4x3	4	3	23,825	240	1.270
CP 4x4	4	4	31,267	265	1.930
CP 4x5	4	5	44,39	300	3.180
CP 5x1	5	1	12,065	232	1.790
CP 5x2	5	2	17,78	247	2.000
CP 5x3	5	3	23,825	268	2.270
CP 5x4	5	4	31,267	300	2.930
CP 5x5	5	5	44,39	335	4.180
CP 6x4	6	4	31,267	355	5.180
CP 6x5	6	5	44,39	390	6.430

EJECTORS



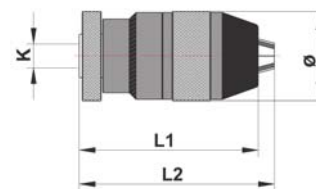
Ejectors

DIN-317

- Tempered steel.
- To eject Morse tapers arbors from sleeves or machine spindle.



Ref. no.	for morse taper	weight gr
CE 1 - 2	1, 2	40
CE 2 - 3	2, 3	80
CE 3 - 4	3, 4	160
CE 4 - 5	4, 5	340
CE 5 - 6	5, 6	620

CHUCK


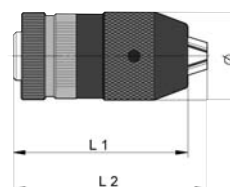
CKS

KEYLESS Drill Chuck for portable drilling machines or stationary machines

- Drill chucks for industrial use (medium duty), available with screw fittings for professional portable drilling machines and with taper fittings for stationary drilling machines.
- Automatic fitting for efficient, fast change of tools.
- Self-tightening mechanism automatically increases the grip in proportion to the increase in torque during the drilling and avoids the tool slipping in clockwise rotation.
- Fits tools of up to 20 mm in diameter.
- Machine fitting via DIN-228 or JACOBS tapers and UNF thread fittings.

BL = blister packaging

Ref. no.	capacity		mount K	sizes mm.			weight gr
	mm.	inches		Ø	L1	L2	
CKS-04 B-10	0,5 - 4	1/64" - 5/32"	B - 10	26	50	55	170
CKS-04 J-1	0,5 - 4	1/64" - 5/32"	J - 1	26	50	55	170
CKS-06 B-10	0,5 - 6,5	1/64" - 1/4"	B - 10	34	63	70	310
CKS-06 B-12	0,5 - 6,5	1/64" - 1/4"	B - 12	34	63	70	310
CKS-06 J-1	0,5 - 6,5	1/64" - 1/4"	J - 1	34	63	70	310
CKS-06 R-3/8	0,5 - 6,5	1/64" - 1/4"	3/8" x 24h.	34	63	70	310
CKS-08 B-10	0,8 - 8	1/32" - 5/16"	B - 10	37	72	78	450
CKS-08 B-12	0,8 - 8	1/32" - 5/16"	B - 12	37	72	78	430
CKS-08 R-3/8	0,8 - 8	1/32" - 5/16"	3/8" x 24h.	37	72	78	450
CKS-08 R-1/2	0,8 - 8	1/32" - 5/16"	1/2" x 20h.	37	72	78	450
CKS-08 J-1	0,8 - 8	1/32" - 5/16"	J - 1	37	72	78	430
CKS-08 J-2S	0,8 - 8	1/32" - 5/16"	J - 2	37	72	78	430
CKS-10 B-12	0,8 - 10	1/32" - 3/8"	B - 12	40	79	86	560
CKS-10 B-16	0,8 - 10	1/32" - 3/8"	B - 16	40	79	86	560
CKS-10 R-3/8	0,8 - 10	1/32" - 3/8"	3/8" x 24h.	37	72	78	450
CKS-10 R-3/8 BL	0,8 - 10	1/32" - 3/8"	3/8" x 24h.	37	72	78	450
CKS-10 R-1/2	0,8 - 10	1/32" - 3/8"	1/2" x 20h.	37	72	78	445
CKS-10 R-1/2 BL	0,8 - 10	1/32" - 3/8"	1/2" x 20h.	37	72	78	445
CKS-10 J-2	0,8 - 10	1/32" - 3/8"	J - 2	40	79	86	560
CKS-10 J-33	0,8 - 10	1/32" - 3/8"	J - 33	40	79	86	560
CKS-13 B-12	1 - 13	1/32" - 1/2"	B - 12	47	93	103	940
CKS-13 B-16	1 - 13	1/32" - 1/2"	B - 16	47	93	103	940
CKS-13 J-2	1 - 13	1/32" - 1/2"	J - 2	47	93	103	940
CKS-13 J-33	1 - 13	1/32" - 1/2"	J - 33	47	93	103	940
CKS-13 J-6	1 - 13	1/32" - 1/2"	J - 6	47	76	103	940
CKS-13 R-3/8	2 - 13	1/16" - 1/2"	3/8" x 24h.	40	76	83	560
CKS-13 R-3/8 BL	2 - 13	1/16" - 1/2"	3/8" x 24h.	40	76	83	585
CKS-13 R-1/2	2 - 13	1/16" - 1/2"	1/2" x 20h.	40	76	83	560
CKS-13 R-1/2 BL	2 - 13	1/16" - 1/2"	1/2" x 20h.	40	76	83	585
CKS-16 B-16	3 - 16	1/8" - 5/8"	B - 16	52	95	105	1.160
CKS-16 B-18	3 - 16	1/8" - 5/8"	B - 18	52	95	105	1.160
CKS-16 J-33	3 - 16	1/8" - 5/8"	J - 33	52	95	105	1.140
CKS-16 J-6	3 - 16	1/8" - 5/8"	J - 6	52	95	105	1.135
CKS-16 R-1/2	3 - 16	1/8" - 5/8"	1/2" x 20h.	52	95	105	1.160
CKS-16 R-5/8	3 - 16	1/8" - 5/8"	5/8" x 16h.	52	95	105	1.160
CKS-20 B-18	5 - 20	13/64" - 3/4"	B - 18	64	121	131	2.200
CKS-20 B-22	5 - 20	13/64" - 3/4"	B - 22	64	121	131	2.220
CKS-20 J-3	5 - 20	13/64" - 3/4"	J - 3	64	121	131	2.200

CHUCK


CKX

KEYLESS Drill Chuck with SECURITY LOCK for percussion drilling machines

- Drill chucks with self-tightening system and a safety locking device that avoids any slipping of the drill bit.
- Optimum for hammer and stationary drills with instant spindle stoppage.
- Fits tools of up to 13 mm in diameter.
- Machine fitting via DIN-228 and UNF thread fittings.

BL = blister packaging

Ref. no.	capacity		mount K	sizes mm.			weight gr
	mm.	inches		Ø	L1	L2	
CKX-10 B-12	0,8 - 10	1/32" - 3/8"	B - 12	36	65	74	360
CKX-10 R-3/8	0,8 - 10	1/32" - 3/8"	3/8" x 24h.	36	65	74	350
CKX-10 R-3/8 BL	0,8 - 10	1/32" - 3/8"	3/8" x 24h.	36	65	74	350
CKX-10 R-1/2	0,8 - 10	1/32" - 3/8"	1/2" x 20h.	36	65	74	350
CKX-10 R-1/2 BL	0,8 - 10	1/32" - 3/8"	1/2" x 20h.	36	65	74	350
CKX-13 B-12	1 - 13	1/32" - 1/2"	B - 12	44	86	96	650
CKX-13 B-16	1 - 13	1/32" - 1/2"	B - 16	44	86	96	650
CKX-13 R-3/8	1 - 13	1/32" - 1/2"	3/8" x 24h.	44	83	92	670
CKX-13 R-3/8 BL	1 - 13	1/32" - 1/2"	3/8" x 24h.	44	83	92	670
CKX-13 R-1/2	1 - 13	1/32" - 1/2"	1/2" x 20h.	44	83	92	670
CKX-13 R-1/2 BL	1 - 13	1/32" - 1/2"	1/2" x 20h.	44	83	92	670

CPL



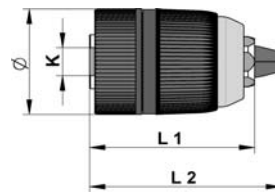
CPL

Keyless Drill Chuck for portable drilling machines

- Ideal for portable electric drilling machines, on mains or battery operated.
- Does not require a chuck key for tightening or loosening, enabling production increase.
- Ergonomic design, using materials which eliminate the possibility of oxidation.
- Fits any type of drill, via UNF thread, male and female.
- Wide range of ACCESSORIES (see page 25).

Note :

M* = means male thread
BL = blister packaging


CHUCK

Ref. no.	capacity		mount K	sizes mm.			weight gr
	mm.	inches		Ø	L1	L2	
CPL-10 R-3/8	1 - 10	1/32" - 3/8"	3/8" x 24 UNF	41	57	65	180
CPL-10 R-3/8 BL	1 - 10	1/32" - 3/8"	3/8" x 24 UNF	41	57	65	190
CPL-10 R-3/8M*	1 - 10	1/32" - 3/8"	3/8" x 24 UNF M*	41	57	65	200
CPL-10 R-3/8M* BL	1 - 10	1/32" - 3/8"	3/8" x 24 UNF M*	41	57	65	210
CPL-10 R-1/2	1 - 10	1/32" - 3/8"	1/2" x 20 UNF	41	57	65	180
CPL-10 R-1/2 BL	1 - 10	1/32" - 3/8"	1/2" x 20 UNF	41	57	65	190
CPL-13 R-3/8	2 - 13	1/16" - 1/2"	3/8" x 24 UNF	43	65	75	260
CPL-13 R-3/8 BL	2 - 13	1/16" - 1/2"	3/8" x 24 UNF	43	65	75	270
CPL-13 R-3/8M*	2 - 13	1/16" - 1/2"	3/8" x 24 UNF M*	43	65	75	280
CPL-13 R-3/8M* BL	2 - 13	1/16" - 1/2"	3/8" x 24 UNF M*	43	65	75	300
CPL-13 R-1/2	2 - 13	1/16" - 1/2"	1/2" x 20 UNF	43	65	75	260
CPL-13 R-1/2 BL	2 - 13	1/16" - 1/2"	1/2" x 20 UNF	43	65	75	270
CPL-13 SDS PLUS	2 - 13	1/16" - 1/2"	SDS PLUS	43	65	75	320

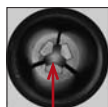
CPX



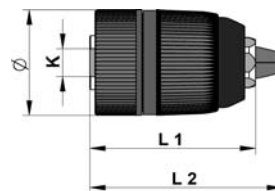
CPX

Keyless Drill Chuck with PLASTIC body, LOCKING mechanism and CARBIDE JAW-inserts

- With a locking mechanism, no key is required for closing or opening, for hammer drilling and also screwdriver operations.
- Carbide jaw-inserts (for 13 mm. capacity) reduce bit slippage and enhance wear resistance.
- Ergonomic design, using materials that eliminate the possibility of rust.
- With through hole for clockwise and anticlockwise rotation.
- Supplied with screw M5 (R-3/8") or M6 (R-1/2") to fix chuck to drilling machine.
- Fits any type of drill (up to 1000 W) via UNF thread, male and female.
- Wide range of ACCESSORIES (see page 25).



Carbide
jaw-inserts



New locking mechanism, increased gripping force.

Now with metal rear sleeve, for greater durability

Ref. no.	capacity		mount K	sizes mm.			weight gr
	mm.	inches		Ø	L1	L2	
CPX-10 R-3/8	1 - 10	1/32" - 3/8"	3/8" x 24 UNF	41	57	66	220
CPX-10 R-3/8 BL	1 - 10	1/32" - 3/8"	3/8" x 24 UNF	41	57	66	230
CPX-10 R-3/8M*	1 - 10	1/32" - 3/8"	3/8" x 24 UNF M*	41	57	66	240
CPX-10 R-3/8M* BL	1 - 10	1/32" - 3/8"	3/8" x 24 UNF M*	41	57	66	250
CPX-10 R-1/2	1 - 10	1/32" - 3/8"	1/2" x 20 UNF	41	57	66	220
CPX-10 R-1/2 BL	1 - 10	1/32" - 3/8"	1/2" x 20 UNF	41	57	66	230
CPX-13 R-3/8	2 - 13	1/16" - 1/2"	3/8" x 24 UNF	42	65	75	280
CPX-13 R-3/8 BL	2 - 13	1/16" - 1/2"	3/8" x 24 UNF	42	65	75	290
CPX-13 R-3/8M*	2 - 13	1/16" - 1/2"	3/8" x 24 UNF M*	42	65	75	295
CPX-13 R-3/8M* BL	2 - 13	1/16" - 1/2"	3/8" x 24 UNF M*	42	65	75	300
CPX-13 R-1/2	2 - 13	1/16" - 1/2"	1/2" x 20 UNF	42	65	75	280
CPX-13 R-1/2 BL	2 - 13	1/16" - 1/2"	1/2" x 20 UNF	42	65	75	290
CPX-13 SDS PLUS	2 - 13	1/16" - 1/2"	SDS PLUS	42	65	75	340

CPM



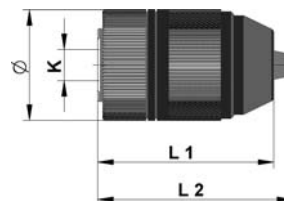
CPM

Keyless Drill Chuck with METAL BODY, LOCKING mechanism and CARBIDE JAW-inserts

- With a locking mechanism, no key is required for closing or opening, for hammer drilling and also screwdriver operations.
- Carbide jaw-inserts (for 13 mm. capacity) reduce bit slippage and enhance wear resistance.
- Ergonomic and strong design with full metal sleeves in black oxide finish that eliminates the possibility of rust.
- With through hole for clockwise and anticlockwise rotation.
- Supplied with screw M5 (R-3/8") or M6 (R-1/2") to fix chuck to drilling machine.
- Fits any type of drill (up to 1000 W) via UNF thread, male and female.
- Wide range of ACCESSORIES (see page 25).



Carbide
jaw-inserts



New locking mechanism, increased gripping force

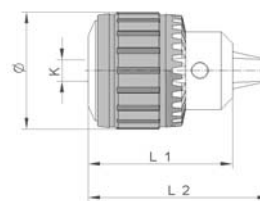
Ref. no.	capacity		mount K	sizes mm.			weight gr
	mm.	inches		Ø	L1	L2	
CPM-10 R-3/8	1 - 10	1/32" - 3/8"	3/8" x 24 UNF	40	58	66	300
CPM-10 R-3/8 BL	1 - 10	1/32" - 3/8"	3/8" x 24 UNF	40	58	66	310
CPM-10 R-3/8M*	1 - 10	1/32" - 3/8"	3/8" x 24 UNF M*	40	58	66	320
CPM-10 R-3/8M* BL	1 - 10	1/32" - 3/8"	3/8" x 24 UNF M*	40	58	66	330
CPM-10 R-1/2	1 - 10	1/32" - 3/8"	1/2" x 20 UNF	40	58	66	300
CPM-10 R-1/2 BL	1 - 10	1/32" - 3/8"	1/2" x 20 UNF	40	58	66	310
CPM-13 R-3/8	2 - 13	1/16" - 1/2"	3/8" x 24 UNF	42	67	75	380
CPM-13 R-3/8 BL	2 - 13	1/16" - 1/2"	3/8" x 24 UNF	42	67	75	390
CPM-13 R-3/8M*	2 - 13	1/16" - 1/2"	3/8" x 24 UNF M*	42	67	75	400
CPM-13 R-3/8M* BL	2 - 13	1/16" - 1/2"	3/8" x 24 UNF M*	42	67	75	410
CPM-13 R-1/2	2 - 13	1/16" - 1/2"	1/2" x 20 UNF	42	67	75	380
CPM-13 R-1/2 BL	2 - 13	1/16" - 1/2"	1/2" x 20 UNF	42	67	75	390
CPM-13 SDS PLUS	2 - 13	1/16" - 1/2"	SDS PLUS	42	67	75	440

CHUCK

CBB

BALL-BEARING Drill Chuck with key for production drilling equipment

- Drill chuck with key for industrial applications that require the toughest machining conditions.
- Equipped with ball bearings to reduce friction in the tightening mechanism and provide a better grip on the drill shaft.
- All the pieces are hardened and ground.
- The one-piece gear ring and sleeve eliminate the possibility of tooth breakage.
- Fits tools of up to 25 mm. (1"), machine fitting via Jacobs tapers.



Ref. no.	capacity		mount K	sizes mm.			weight gr.
	mm.	inches		Ø	L 1	L 2	
CBB-08 J2	1 - 8	1/32" - 5/16"	J - 2S	47	55	70	500
CBB-10 J2	1 - 10	1/32" - 3/8"	J - 2S	47	55	70	500
CBB-13 J6	1 - 13	1/32" - 1/2"	J - 6	62	75	94	1.120
CBB-13 J33	1 - 13	1/32" - 1/2"	J - 33	62	75	94	1.125
CBB-13 J3	1 - 13	1/32" - 1/2"	J - 3	62	75	94	1.115
CBB-16 J3	1 - 16	1/32" - 5/8"	J - 3	67	81	102	1.470
CBB-19 J4	1 - 19	1/32" - 3/4"	J - 4	75	99	125	2.145
CBB-25 J5	5 - 25	13/64" - 1"	J - 5	93	112	147	3.645

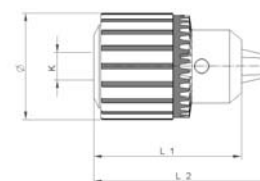
CBB

CY

INDUSTRIAL Drill Chuck with key for stationary machines and portable drilling machines

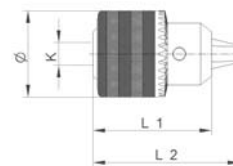
- Specially designed for stationary drilling, turning, milling and wood working machines.
- The one-piece gear ring and sleeve eliminate the possibility of tooth breakage.
- The jaws, gear ring and body are all totally hardened to avoid wear and lengthen the life of the drill chuck.
- Fits tools of up to 19 mm in diameter. (3/4").
- Machine fitting via DIN-228 or JACOBS tapers and UNF screw fittings.
- Wide range of ACCESSORIES (see page 25).

* Extra heavy duty model



Ref. no.	capacity		mount K	sizes			weight gr.
	mm.	inches		Ø	L 1	L 2	
CY-04 B-10	0,8 - 4	1/32" - 5/32"	B - 10	22	38	44	120
CY-04 J-0	0,8 - 4	1/32" - 5/32"	J - 0	22	29	36	100
CY-04 R-5/16	0,8 - 4	1/32" - 5/32"	5/16" x 24	22	38	44	130
CY-06 B-10	0,8 - 6,5	1/32" - 1/4"	B - 10	32	42	51	220
CY-06 B-12	0,8 - 6,5	1/32" - 1/4"	B - 12	32	44	54	210
CY-06 J-1	0,8 - 6,5	1/32" - 1/4"	J - 1	32	40	49	200
CY-06 R-3/8	0,8 - 6,5	1/32" - 1/4"	3/8" x 24	32	42	52	220
CY-06 R-3/8 SP*	0,8 - 6,5	1/32" - 1/4"	3/8" x 24	37	51	63	340
CY-10 B-12	1 - 10	1/32" - 3/8"	B - 12	37	51	60	300
CY-10 B-16	1 - 10	1/32" - 3/8"	B - 16	43	53	68	400
CY-10 J-1	1 - 10	1/32" - 3/8"	J - 1	37	51	60	310
CY-10 J-2	1 - 10	1/32" - 3/8"	J - 2	37	51	60	300
CY-10 J-2 SP*	1 - 10	1/32" - 3/8"	J - 2	43	55	68	420
CY-10 R-3/8	1 - 10	1/32" - 3/8"	3/8" x 24	37	51	60	300
CY-10 R-3/8 SP*	1 - 10	1/32" - 3/8"	3/8" x 24	43	53	68	420
CY-10 R-1/2	1 - 10	1/32" - 3/8"	1/2" x 20	37	51	60	300
CY-10 R-1/2 SP*	1 - 10	1/32" - 3/8"	1/2" x 20	43	53	68	420
CY-13 B-12	1 - 13	1/32" - 1/2"	B - 12	46	62	77	480
CY-13 B-16	1 - 13	1/32" - 1/2"	B - 16	46	62	77	460
CY-13 J-6	1 - 13	1/32" - 1/2"	J - 6	46	62	77	480
CY-13 J-33	1 - 13	1/32" - 1/2"	J - 33	46	62	77	480
CY-13 R-3/8	1 - 13	1/32" - 1/2"	3/8" x 24	46	62	77	500
CY-13 R-1/2	1 - 13	1/32" - 1/2"	1/2" x 20	46	62	77	480
CY-13 R-5/8	1 - 13	1/32" - 1/2"	5/8" x 16	46	62	77	490
CYX-13 J-2*	1 - 13	1/32" - 1/2"	J - 2	53	69	89	760
CYX-13 J-6*	1 - 13	1/32" - 1/2"	J - 6	53	69	89	740
CYX-13 J-33*	1 - 13	1/32" - 1/2"	J - 33	53	69	89	750
CY-16 B-16	1 - 16	1/32" - 5/8"	B - 16	57	77	95	920
CY-16 B-18	1 - 16	1/32" - 5/8"	B - 18	57	77	95	920
CY-16 J-6	1 - 16	1/32" - 5/8"	J - 6	57	77	95	970
CY-16 J-33	1 - 16	1/32" - 5/8"	J - 33	57	77	95	980
CY-16 J-3	1 - 16	1/32" - 5/8"	J - 3	57	77	95	940
CY-16 R-1/2	1 - 16	1/32" - 5/8"	1/2" x 20	57	77	95	990
CY-16 R-5/8	1 - 16	1/32" - 5/8"	5/8" x 16	57	77	95	1.000
CY-19 B-22	5 - 19	13/64" - 3/4"	B - 22	65	85	110	1.440
CY-19 J-3	5 - 19	13/64" - 3/4"	J - 3	65	85	110	1.440
CY-19 J-4	5 - 19	13/64" - 3/4"	J - 4	68	97	120	1.500
CY-19 R-3/4	5 - 19	13/64" - 3/4"	3/4" x 16	65	85	110	1.500
CY-19 R-5/8	5 - 19	13/64" - 3/4"	5/8" x 16	65	85	110	1.540

CY

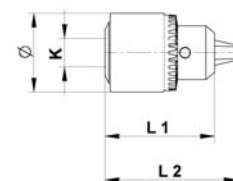
CHUCK


CL

LIGHT-DUTY Drill Chuck with key for portable drilling machines

- Ideal for electric portable drilling machines, with or without batteries, cutting direction reversible or non reversible.
- Fits tools of up to 16 mm.
- Fits to machine via UNF screw fittings, male and female, DIN-228 and E-6.3.
- Wide range of ACCESSORIES (see page 25).

Ref. no.	capacity		mount K	sizes mm.			weight gr
	mm.	inches		Ø	L1	L2	
CL-06 B-10	0,8 - 6,5	1/32" - 1/4"	B-10	30	44	55	180
CL-06 R-3/8	0,8 - 6,5	1/32" - 1/4"	3/8"x24h	30	44	55	190
CL-06 R-3/8 BL	0,8 - 6,5	1/32" - 1/4"	3/8"x24h	30	44	55	200
CL-06 ATOR	0,8 - 6,5	1/32" - 1/4"	E-6,3	30	44	55	205
CL-10 B-12	1 - 10	1/32" - 3/8"	B-12	33	50	60	240
CL-10 R-3/8	1 - 10	1/32" - 3/8"	3/8"x24h	33	50	60	240
CL-10 R-3/8 BL	1 - 10	1/32" - 3/8"	3/8"x24h	33	50	60	255
CL-10 R-3/8M*	1 - 10	1/32" - 3/8"	3/8"x24h M*	33	50	60	255
CL-10 R-3/8M* BL	1 - 10	1/32" - 3/8"	3/8"x24h M*	33	50	60	270
CL-10 R-1/2	1 - 10	1/32" - 3/8"	1/2"x20h.	33	50	60	235
CL-10 R-1/2 BL	1 - 10	1/32" - 3/8"	1/2"x20h.	33	50	60	245
CL-10 ATOR	1 - 10	1/32" - 3/8"	E-6,3	33	50	60	255
CL-13 B-12	1,5 - 13	3/64" - 1/2"	B-12	43	59	73	360
CL-13 B-16	1,5 - 13	3/64" - 1/2"	B-16	43	59	73	355
CL-13 R-3/8	1,5 - 13	3/64" - 1/2"	3/8"x24h	43	59	73	380
CL-13 R-3/8 BL	1,5 - 13	3/64" - 1/2"	3/8"x24h	43	59	73	390
CL-13 R-3/8M*	1,5 - 13	3/64" - 1/2"	3/8"x24h M*	43	59	73	395
CL-13 R-3/8M* BL	1,5 - 13	3/64" - 1/2"	3/8"x24h M*	43	59	73	410
CL-13 R-1/2	1,5 - 13	3/64" - 1/2"	1/2"x20h.	43	59	73	375
CL-13 R-1/2 BL	1,5 - 13	3/64" - 1/2"	1/2"x20h.	43	59	73	385
CL-13 R-5/8	1,5 - 13	3/64" - 1/2"	5/8"x16h.	43	59	73	390
CL-13 R-5/8 BL	1,5 - 13	3/64" - 1/2"	5/8"x16h.	43	59	73	395
CL-13 SDS PLUS	1,5 - 13	3/64" - 1/2"	SDS PLUS	43	59	73	420
CL-16 B-16	3 - 16	1/8" x 5/8"	B-16	54	66	85	685
CL-16 B-18	3 - 16	1/8" x 5/8"	B-18	54	66	85	685
CL-16 R-1/2	3 - 16	1/8" x 5/8"	1/2"x20h.	54	66	85	685
CL-16 R-5/8	3 - 16	1/8" x 5/8"	5/8"x16h.	54	66	85	695
CL-16 SDS PLUS	3 - 16	1/8" x 5/8"	SDS PLUS	54	66	85	730

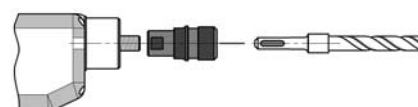
CL
CHUCK


C-INOX

STAINLESS STEEL Drill Chuck with key

- For use in medical, dental and food industries.
- The one-piece gear ring and sleeve eliminate the possibility of tooth breakage.
- In Stainless Steel.
- Machine fitting via 3/8 x 24 UNF screw fitting.
- Chuck key also made of Stainless Steel.

Ref. no.	capacity		mount K	sizes mm.			weight gr
	mm.	inches		Ø	L1	L2	
CSS-04 R-3/8	0,8 - 4	1/32" - 5/32"	3/8" x 24 UNF	22	41	48	75
CSS-06 R-3/8	0,8 - 6,5	1/32" - 1/4"	3/8" x 24 UNF	30	41	48	195
CSS-10 R-3/8	0,8 - 10	1/32" - 3/8"	3/8" x 24 UNF	37	51	63	310

C-INOX
CHUCK


SDS

Quick Change drill chuck for SDS drills

- Most suitable to fix SDS drills in percussion drilling machines.
- Quick Change system enabling production increase.

Ref. no.	mount K	weight gr
SDS-CONVERT	1/2" x 20 UNF	180

SDS

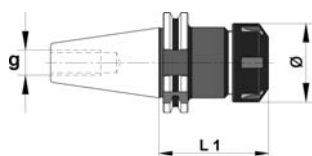


ER Collet Chucks

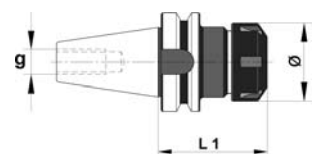
Precision collet chucks for ER type (DIN 6499) collets

- Ground thread on the collet chuck body provides more clamping force.
- Standard and extended lengths.
- Taper accuracy AT3 or better - true contact with machine spindle.
- Holders have concentricity up to 0,005 mm - smooth cut, longer tool life.
- Internal (AD) and lateral (B) coolant supply.
- Pre-balanced up to 10.000 rpm, G6,3 (taper 40 only).
- For drilling, milling, reaming and tapping.
- Supplied with nut, without collet or wrench.

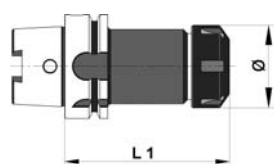
DIN-69871 AD + B



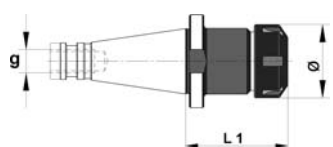
MAS 403-BT AD



DIN-69893 A [HSK]



DIN-2080 AD



Ref. no.	capacity mm.	mount ISO	Collet	sizes mm.		thread p.stud	weight kg
				Ø	L1		
ER16.DIN40.063	0,5-10	40	ER 16	28	63	M16	1,04
ER16.DIN40.100	0,5-10	40	ER 16	28	100	M16	1,18
ER16.DIN40.160	0,5-10	40	ER 16	28	160	M16	1,30
ER20.DIN40.070	1-13	40	ER 20	35	70	M16	1,14
ER20.DIN40.100	1-13	40	ER 20	35	100	M16	1,34
ER20.DIN40.160	1-13	40	ER 20	35	160	M16	1,72
ER25.DIN40.060	1-16	40	ER 25	42	60	M16	1,11
ER25.DIN40.100	1-16	40	ER 25	42	100	M16	1,54
ER25.DIN40.160	1-16	40	ER 25	42	160	M16	1,70
ER32.DIN40.070	2-20	40	ER 32	50	70	M16	1,28
ER32.DIN40.100	2-20	40	ER 32	50	100	M16	1,56
ER32.DIN40.160	2-20	40	ER 32	50	160	M16	2,18
ER40.DIN40.080	3-26	40	ER 40	63	80	M16	1,54
ER40.DIN40.100	3-26	50	ER 40	63	100	M16	1,82
ER25.DIN50.100	1-16	50	ER 25	42	100	M24	3,68
ER25.DIN50.160	1-16	50	ER 25	42	160	M24	3,94
ER32.DIN50.070	2-20	50	ER 32	50	70	M24	3,50
ER32.DIN50.100	2-20	50	ER 32	50	100	M24	3,84
ER32.DIN50.160	2-20	50	ER 32	50	160	M24	4,70
ER40.DIN50.100	3-26	50	ER 40	63	100	M24	4,32
ER40.DIN50.160	3-26	50	ER 40	63	160	M24	5,72
ER16.BT40.063	0,5-10	40	ER 16	28	63	M16	1,16
ER16.BT40.100	0,5-10	40	ER 16	28	100	M16	1,32
ER16.BT40.160	0,5-10	40	ER 16	28	160	M16	1,30
ER20.BT40.070	1-13	40	ER 20	35	70	M16	1,24
ER20.BT40.100	1-13	40	ER 20	35	100	M16	1,44
ER20.BT40.160	1-13	40	ER 20	35	160	M16	1,82
ER25.BT40.060	1-16	40	ER 25	42	60	M16	1,20
ER25.BT40.100	1-16	40	ER 25	42	100	M16	1,60
ER25.BT40.160	1-16	40	ER 25	42	160	M16	1,72
ER32.BT40.070	2-20	40	ER 32	50	70	M16	1,36
ER32.BT40.100	2-20	40	ER 32	50	100	M16	1,68
ER32.BT40.160	2-20	40	ER 32	50	160	M16	2,08
ER40.BT40.080	3-26	40	ER 40	63	80	M16	1,62
ER40.BT40.100	3-26	40	ER 40	63	100	M16	1,82
ER25.BT50.100	1-16	50	ER 25	42	100	M24	4,12
ER25.BT50.160	1-16	50	ER 25	42	160	M24	4,76
ER32.BT50.070	2-20	50	ER 32	50	70	M24	3,84
ER32.BT50.100	2-20	50	ER 32	50	100	M24	4,28
ER32.BT50.160	2-20	50	ER 32	50	160	M24	5,14
ER40.BT50.100	3-26	50	ER 40	63	100	M24	4,58
ER40.BT50.160	3-26	50	ER 40	63	160	M24	6,02
ER16.HSK63.100	0,5-10	63	ER 16	28	100	--	1,02
ER20.HSK63.100	1-13	63	ER 20	35	100	--	1,14
ER25.HSK63.100	1-16	63	ER 25	42	100	--	1,34
ER32.HSK63.100	2-20	63	ER 32	50	100	--	1,52
ER40.HSK63.100	3-26	63	ER 40	63	100	--	1,60
ER32.HSK100.100	2-20	100	ER 32	50	100	--	2,88
ER40.HSK100.100	3-26	100	ER 40	63	100	--	3,20
ER16.ISO40.063	0,5-10	40	ER 16	28	63	M16	1,00
ER25.ISO40.060	1-16	40	ER 25	42	60	M16	1,14
ER32.ISO40.070	2-20	40	ER 32	50	70	M16	1,30
ER40.ISO40.080	3-26	40	ER 40	63	80	M16	1,18
ER32.ISO50.070	2-20	50	ER 32	50	70	M24	3,14
ER40.ISO50.080	3-26	50	ER 40	63	80	M24	3,54

CLAMPING NUTS


Ref. no.

for
collet
 ER16.T04
 ER20.T04
 ER25.T04
 ER32.T04
 ER40.T04

 ER 16
 ER 20
 ER 25
 ER 32
 ER 40

WRENCHES


Ref. no.

for
Clamping Nut
 ER16.L12
 ER20.L12
 ER25.L12
 ER32.L12
 ER40.L12

 ER 16
 ER 20
 ER 25
 ER 32
 ER 40

ADJUSTING SCREW


Ref. no.

for
Collet Chuck
 M08x15
 M12x18
 M12x30

 ER 16
 HSK
 ER 25, ER 32, ER 40

COLLET SET


Ref. no.

capacity

Quantity

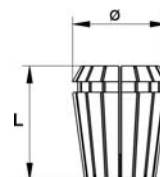
 ER16.T04
 ER20.T04
 ER25.T04
 ER32.T04
 ER40.T04

 0,5 mm. - 10 mm.
 1 mm. - 13 mm.
 1 mm. - 16 mm.
 2 mm. - 20 mm.
 3 mm. - 26 mm.

 10
 12
 15
 18
 23

 ER
 16
 20
 25
 32
 40

 Ø
 17
 21
 26
 33
 41

 L
 27
 31
 34
 40
 46

COLLETS ER

Ref. no.

 capacity
 Minimum Maximum

ER 16
(0,5-10 mm.)

 ER16.010
 ER16.020
 ER16.030
 ER16.040
 ER16.050
 ER16.060
 ER16.070
 ER16.080
 ER16.090
 ER16.100

 0,5 1
 1 2
 2 3
 3 4
 4 5
 5 6
 6 7
 7 8
 8 9
 9 10

ER 32
(2-20 mm.)


Ref. no.

 capacity
 Minimum Maximum

 ER32.030
 ER32.040
 ER32.050
 ER32.060
 ER32.070
 ER32.080
 ER32.090
 ER32.100
 ER32.110
 ER32.120
 ER32.130
 ER32.140
 ER32.150
 ER32.160
 ER32.170
 ER32.180
 ER32.190
 ER32.200

 2 3
 3 4
 4 5
 5 6
 6 7
 7 8
 8 9
 9 10
 10 11
 11 12
 12 13
 13 14
 14 15
 15 16
 16 17
 17 18
 18 19
 19 20

ER 20
(1-13 mm.)

 ER20.020
 ER20.030
 ER20.040
 ER20.050
 ER20.060
 ER20.070
 ER20.080
 ER20.090
 ER20.100
 ER20.110
 ER20.120
 ER20.130

 1 2
 2 3
 3 4
 4 5
 5 6
 6 7
 7 8
 8 9
 9 10
 10 11
 11 12
 12 13

ER 40
(2-26 mm.)

 ER40.030
 ER40.040
 ER40.050
 ER40.060
 ER40.070
 ER40.080
 ER40.090
 ER40.100
 ER40.110
 ER40.120
 ER40.130
 ER40.140
 ER40.150
 ER40.160
 ER40.170
 ER40.180
 ER40.190
 ER40.200
 ER40.210
 ER40.220
 ER40.230
 ER40.240
 ER40.250
 ER40.260

 2 3
 3 4
 4 5
 5 6
 6 7
 7 8
 8 9
 9 10
 10 11
 11 12
 12 13
 13 14
 14 15
 15 16
 16 17
 17 18
 18 19
 19 20
 20 21
 21 22
 22 23
 23 24
 24 25
 25 26

ER 25
(1-16 mm.)

 ER25.020
 ER25.030
 ER25.040
 ER25.050
 ER25.060
 ER25.070
 ER25.080
 ER25.090
 ER25.100
 ER25.110
 ER25.120
 ER25.130
 ER25.140
 ER25.150
 ER25.160

 1 2
 2 3
 3 4
 4 5
 5 6
 6 7
 7 8
 8 9
 9 10
 10 11
 11 12
 12 13
 13 14
 14 15
 15 16



Revolving Lathe Centres

For accurate work holding in conventional or CNC lathes

- Llambrich revolving lathe centres are of high precision, with a maximum run-out of 0.003 mm for Morse tapers no. 2, 3, 4 and 0.004 mm for Morse taper no. 5.
- Capable of bearing up to 1,000 kg workload and speeds of up to 5,000 rpm, according to the model.
- Fully hardened and precision ground.
- Standard or extended spindle configurations.
- Maintenance free.

N - For a wide range of general turning work.

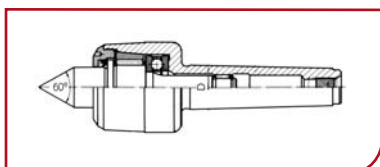
C - Increases tool clearance and operator visibility for work on small parts or machining close to workpiece end

H - With centre bore 60° and metric taper point(1:20) that permits attachment of special purpose accessories.

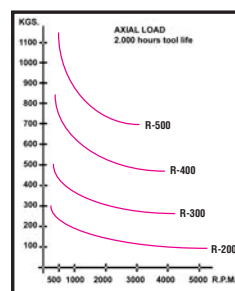
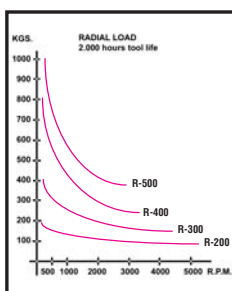
Note 1 : The special purpose accessories are not supplied by Llambrich.



Note 2 : Llambrich revolving lathe centres may reach temperatures of up to 80° C due to the fine adjustment of the bearings with the spindle.

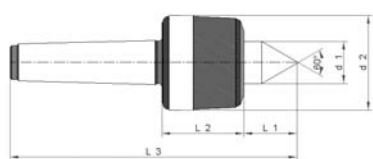


The use of needle bearings in the head and end of the turning axle, as well as the assembly of precision axial bearings, means that heavy duty work can be carried out with reduced body sizes.

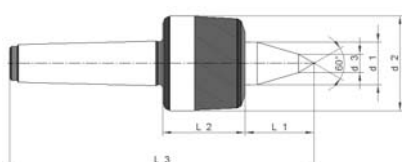


model	maximum run-out
R-200	0,003 mm
R-300	0,003 mm
R-400	0,003 mm
R-500	0,004 mm

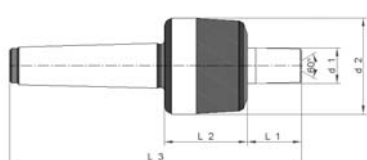
Model N



Model C



Model H



Ref. no.	morse taper	load factor kg	sizes mm.						weight kg
			d1	d2	d3	L1	L2	L3	
R-200-N	2	180	18	42		24	35	128	0,430
R-300-N	3	400	22	49		29	47	163	0,875
R-400-N	4	800	30	63		35	52	196	1,505
R-500-N	5	1.750	33	85		48	64	250	3,955
R-300-C	3	400	22	49	10	38	47	174	0,875
R-400-C	4	800	30	63	11	46	52	207	1,505
R-500-C	5	1.750	33	85	18	64	64	266	3,955
R-300-H	3	550	22	49		29	47	163	0,905
R-400-H	4	900	24	63		37	52	196	1,540
R-500-H	5	2.100	35	85		48	64	250	4,035



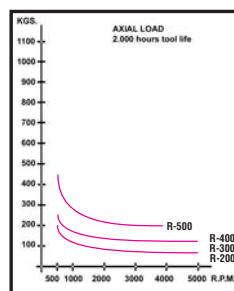
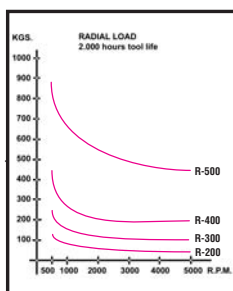
Revolving Lathe Centres

with small casing diameter

- With small diameter for optimum accessibility.
- Additional bearings to compensate the axial load.
- Morse tapers hardened and ground.
- High concentricity.
- Lubricated for life span, maintenance free.

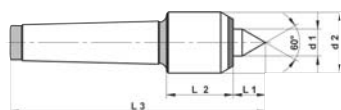
RN - For a wide range of general turning work.

RC & RE - Increases tool clearance and operator visibility for work on small parts or machining close to workpiece end.

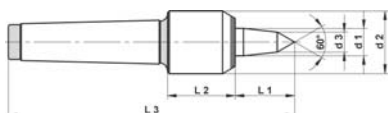


model	maximum run-out
R-200	0,005 mm
R-300	0,005 mm
R-400	0,005 mm
R-500	0,008 mm

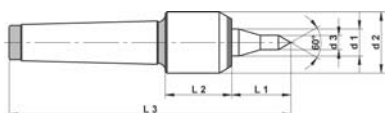
Model RN



Model RC



Model RE



Ref. no.	morse taper	load factor kg	sizes mm.						weight kg
			d1	d2	d3	L1	L2	L3	
R-200-RN	2	200	15	32		20	39	127	0,300
R-300-RN	3	400	15	34		20	40	145	0,500
R-400-RN	4	800	20	43		26	42	180	1,000
R-500-RN	5	1.200	30	58		37	60	235	2,500
R-200-RC	2	150	15	32	8	30	39	137	0,300
R-300-RC	3	300	15	34	8	30	40	155	0,500
R-400-RC	4	700	20	43	10	36	42	190	1,000
R-500-RC	5	1.000	30	58	12	51	60	245	2,500
R-200-RE	2	130	15	32	6	30	39	137	0,300
R-300-RE	3	280	15	34	8	31	40	155	0,500
R-400-RE	4	650	20	43	10	38	42	190	1,000
R-500-RE	5	930	30	58	12	49	60	245	2,500

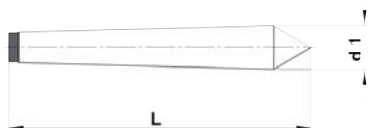


Dead Centres

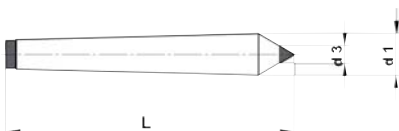
Tool Steel and Carbide Tipped

- For grinding with high accuracy.
- Tool steel models produced from ball-bearing steel.
- Carbide Tipped models for machine operation subject to heavy wear.
- Fully hardened and precision ground.

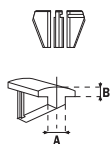
Tool Steel



Carbide Tipped



Ref. no.	morse taper		sizes mm.						weight kg
			d1	d2	d3	L1	L2	L3	
PFN-100	1		12,2			80			0,060
PFN-200	2		18			100			0,160
PFN-300	3		24,1			125			0,360
PFN-400	4		31,6			160			0,780
PFN-500	5		44,7			200			1,960
PFN-600	6		63,8			270			5,200
PFD-100	1		12,2	7		80			0,060
PFD-200	2		18	7		100			0,160
PFD-300	3		24,1	11		125			0,360
PFD-400	4		31,6	14		160			0,780
PFD-500	5		44,7	18		200			1,960
PFD-600	6		63,8	18		270			5,200

**Spare Parts for Drill Chucks
 SP, SPX, SPS, NPU, HEXA and PLANET**
**Jaws
 (set of 3)**


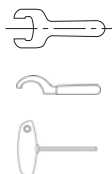
Ref. no.	for drill chuck capacity (mm.)	sizes AxB mm.	weight gr
SP-03061	0 - 3	2,5 x 1,5	12
SP-06061	0 - 6,5	3,75 x 1,5	14
SP-08061	0 - 8	4,4 x 1,5	14
SP-08062	0 - 8	4,4 x 2,5	18
SP-10060	0 - 10	4,4 x 1,5	20
SP-10061	0 - 10	4,4 x 2,5	24
SP-13062	1 - 13	5 x 2,5	32
SP-16062	3 - 16	5 x 2,5	38

Screw


Ref. no.	for drill chuck model	weight gr
SP-0305	SP / NPU-03	10
SP-0605	SP / NPU-06	10
SP-0805	SP / SPX-08	14
SP-1005	SP / SPX-10	25
SP-1305	SP / SPX-13	36
SP-1605	SP / SPX-16	48
NPU-0805	NPU / SPS-08	20
NPU-1005	NPU / SPS-10	25
NPU-1305*	NPU* / SPS-13	40
NPU-13051**	NPU-13**	40
NPU-1605	NPU / SPS-16	52

Hood


SP-0304	SP / NPU-03	50
SP-0604	SP / NPU-06	80
SP-0804	SP / SPX / SPS / NPU-08	100
SP-1004	SP / SPX / SPS / NPU-10	170
SP-1304	SP / SPX / SPS / NPU-13	250
SP-1604	SP / SPX / SPS / NPU-16	320
PS-0804	PS-08	100
PS-1304	HX / PS-13	250
PS-1604	HX / PS-16	320

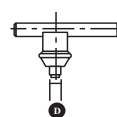
Wrenches


SPX-0612	SPX-06	145
SPX-0812	SPX / SPS / NPU-08	195
SPX-1012	SPX / SPS / NPU-10	190
SPX-1312	SPX / SPS *** / NPU-13	185
SPX-1612	SPX / SPS / NPU-16	170
PS-0812	PS-08	150
PS-3612	PS-13 / PS-16	170
HX-1012	HX-10	60
HX-1312	HX-13 / HX-16	80

* P = 3 mm..

** P = 2,25 mm. (for modelo NPU-13 from May 2000).

*** Ref. nos. SPS-13 MT-4, CIL-32 & R-8 require SPX-1612 wrench.

Keys for Drill Chucks CL, CH, CY, CBB and CSS


STAINLESS
STEEL

Ref. no.	D mm.	n° teeth	for drill chuck model	weight gr
S2/K34	6	12	CL-10*, CL-13, CH-10, CH-13*, CY-10	52
S3	8	12	CL-16*, CY-16*, CBB-13	82
S7/K1	4	11	CY-06*	24
S9/K32	6,3	10	CY-13*, CBB-10	62
S10/K3	8	11	CL-16*, CY-13*, CY-16*	92
S13/K4	9,5	12	CY-19*, CBB-16, CBB-19	150
S14/KG	6	11	CL-06*, CL-10*	40
S17/K2	6,3	11	CH-13*	50
K0	3,2	11	CY-04	22
K5	11	12	CBB-25	250
CK4	5,5	12	CY-06, CH-10	40
11/Ø5	5	11	CL-06*, CY-06*	40
11/Ø9	9	11	CY-19*	150
K0SS	3,2	11	CSS-04	50
CK3SS	4	12	CSS-06	60
CK4SS	5,5	12	CSS-10	85

* in case you do not know the appropriate key reference, please indicate -in your orders- the drill chuck type and serial num. marked on it (i.e.Key for CL-10 R-3/8 0402A)

Spare Parts for Drill Chucks CKS
**Jaws
 (set of 3)**

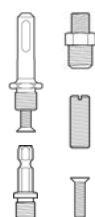
Screw

Hood


Ref. no.	for drill chuck model	weight gr
CKS-0406	CKS-04	15
CKS-0686	CKS-06	15
SP-08062	CKS-08, CKS-10, CKS-13 ⁽¹⁾	18
SP-13062	CKS-13 ⁽²⁾ , CKS-16	32
SP-16062	CKS-20	38
CKS-0405	CKS-04	16
CKS-0605	CKS-06	16
SP-1005	CKS-08, CKS-10	25
CKS-13051	CKS-13 ⁽¹⁾	34
SP-1305	CKS-13 ⁽²⁾	36
CKS-16051	CKS-16	70
CKS-20051	CKS-20	115
CKS-0404	CKS-04	92
CKS-0684	CKS-06	92
CKS-08041	CKS-08, CKS-10 ⁽¹⁾	120
CKS-10041	CKS-10 ⁽²⁾	134
CKS-13041	CKS-13 ⁽²⁾	146
CKS-13042	CKS-13 ⁽¹⁾	146
CKS-16041	CKS-16	290
CKS-20041	CKS-20	560

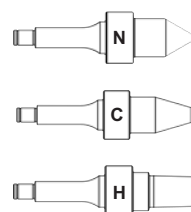
(1) Drill chuck with thread mount UNF

(2) Drill chuck with taper DIN or JACOBS

Accessories for Drill Chucks


Ref. no.	thread	fitting	weight gr
C - 51	3/8" x 24	3/8" x 24	20
C - 52	3/8" x 24	1/2" x 20	35
C - 53	1/2" x 20	SDS - PLUS*	52
C - 54	3/8" x 24	Hex. 1/4" DIN-3126	20
C - 56	M6	1/2" x 20	5
C - 57	M5	3/8" x 24	5

* C-53 includes screw M6 left

**Spindle
 (spare parts)**


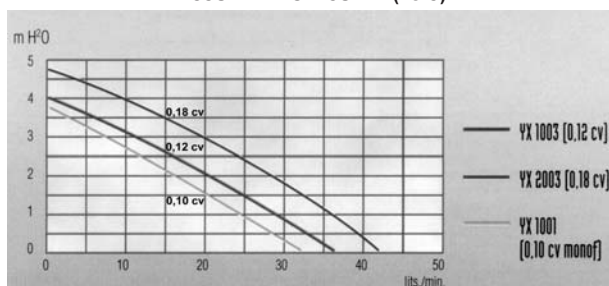
Ref. no.	For revolving centres model	weight gr
202-N	R-200-N	140
302-N	R-300-N	240
302-C	R-300-C	260
302-H	R-300-H	280
402-N	R-400-N	520
402-C	R-400-C	540
402-H	R-400-H	540
502-N	R-500-N	980
502-C	R-500-C	1.060
502-H	R-500-H	1.120



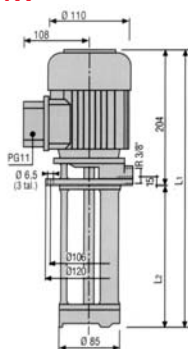
Coolant Pumps

- Ready to be adapted to any coolant tank in machine tools or for the movement of fluids in other industrial machines that do not affect the materials of the pump: coolant fluid, cutting oils, water and others.
- Very robust materials and modern design.
- Ventilated to avoid overheating.
- Submersible (models YX and BX) and with side connection (model YXD).
- Various column lengths (L2).
- Low consumption.
- Stainless steel shaft and screws, permitting its use with water.
- Comply with EC norms.

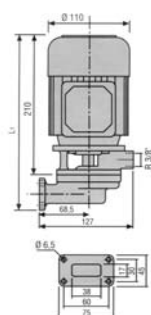
PRESSURE - FLOW CURVE (20°C)



Mod. YX

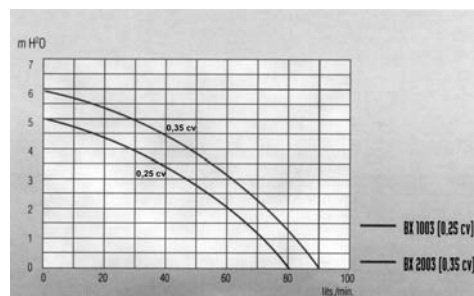
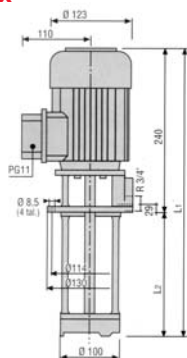


Mod. YXD



Ref. no.	power		sizes mm.		electrical characteristics					services		weight
	Kw.	HP	L1	L2	V	Net	Hz	A	rpm	l/min.	H (m.)	
YXN-1001	0,08	0,10	340	136	230	1~	50	0,8	2740	16	2	4,6
YXN-1003	0,09	0,12	340	136	230/400	3~	50	0,7/0,4	2740	21	2	4,2
YXN-2003	0,135	0,18	340	136	230/400	3~	50	0,7/0,4	2750	28	2	4,5
YXM-1001	0,08	0,10	404	200	230	1~	50	0,8	2740	16	2	4,9
YXM-1003	0,09	0,12	404	200	230/400	3~	50	0,7/0,4	2740	21	2	4,5
YXM-2003	0,135	0,18	404	200	230/400	3~	50	0,7/0,4	2750	28	2	4,8
YXL-1001	0,08	0,10	464	260	230	1~	50	0,8	2740	16	2	5,1
YXL-1003	0,09	0,12	464	260	230/400	3~	50	0,7/0,4	2740	21	2	4,6
YXL-2003	0,135	0,18	464	260	230/400	3~	50	0,7/0,4	2750	28	2	4,9
YXD-1001	0,08	0,10	260		230	1~	50	0,8	2740	16	2	4,2
YXD-1003	0,09	0,12	260		230/400	3~	50	0,7/0,4	2740	21	2	3,8
YXD-2003	0,135	0,18	260		230/400	3~	50	0,7/0,4	2750	28	2	4,1

IMPORTANT : Connect the pump to EARTH in all cases, using the screw provided for this purpose. The direction of the pump rotation is anti-clockwise; to invert, switch the position of the power source connection cables.

PRESSURE - FLOW CURVE (20°C)

Mod. BX

Spare parts

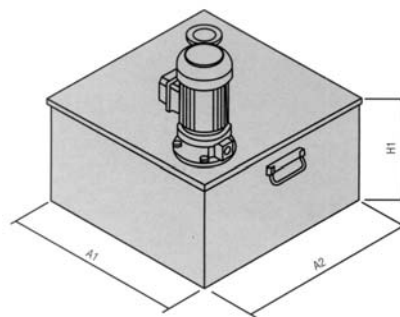
0002 DIFFUSER



0003 PROPELLER



Ref. no.	power		sizes mm.		electrical characteristics					services		weight kg
	Kw.	HP	L1	L2	V	Net	Hz	A	rpm	l/min.	H (m.)	
BXC-1003	0,18	0,25	350	110	230/400	3~	50	1/0,6	2760	60	2	5,5
BXC-2003	0,25	0,35	350	110	230/400	3~	50	1,4/0,8	2790	72	2	6,1
BXN-1003	0,18	0,25	430	190	230/400	3~	50	1/0,6	2760	60	2	6,3
BXN-2003	0,25	0,35	430	190	230/400	3~	50	1,4/0,8	2790	72	2	6,7
BXL-1003	0,18	0,25	520	280	230/400	3~	50	1/0,6	2760	60	2	6,7
BXL-2003	0,25	0,35	520	280	230/400	3~	50	1,4/0,8	2790	72	2	7,1
for coolant pumps model												
YX-0002						YX						0,120
BX-0002						BX						0,220
YX-0003						YX / YXD						0,020
BX-0003						BX						0,120


Coolant Devices

- Device made up of a Llambrich electric pump assembled onto iron sheeting and available in three sizes, to guarantee the following functions:
 - to avoid an increase in temperature of the fluid in circulation.
 - to make the fluid flow sufficiently slowly to facilitate the decanting of the particles in suspension.
 - to ensure that the pump does not work "dry".

Ref. no.	capacity litres tank	tank sizes A1 x A2 x H1 (mm.)	pump assembled	weight tank + pump kg
JX-15	15	285 x 285 x 200	YXN-1003	10
JX-30	30	370 x 370 x 220	YXN-1003	13
CX-65	65	450 x 450 x 320	BXN-1003	24

LLAMBRICH

Super Precision Drill Chucks

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tools for machine-tools