



HYDRAULIC CHUCK



2025 Catalog

World-class products

Precise quality

Satisfied customer



HYDRAULIC CHUCK

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HYDRAULIC CHUCK TOOL HOLDERS

Hydraulic chucks are designed to be used in applications where high accuracy and rigidity is needed.

Hydraulic chucks are effective for reaming, drilling, threading at high spindle speeds.

Features:

- Powerful clamping force
- Exact axial length adjustment
- With intermediate sleeves, Will have versatile clamping range
- Hydraulic chuck are easy to handle and easy tool change
- Minimum tool run out ensures, good surface finish and extends tool life.

HYDRAULIC CHUCKS are available in following shank

- * BT (MAS 403)
- * PLBT (FACE-CONTACT)
- * HSK A (69893)
- * SK (DIN69871)

Mounting Instruction

1. Check tool holders for damage before each use – if damaged, do not use them.
2. The max. tightening torque for the Hydraulic chuck can be found in the data sheet provided below
3. To secure the clamping force, the clamping bore and groove have to be cleaned after every tool change with a cleaning agent which contain solvents(rust preventive oil).
4. For the best lubrication of the clamping screw, We are recommending the use of GREASE/Copper paste (Cu7439) MOLYKOTE which has higher retention capability

Cleaning Instruction:

- * Holder and Bore to be cleaned with fresh cloth before use- Never use compressed air
- * The contact surfaces of the tool holder and the machine must be clean.

Torque Details:

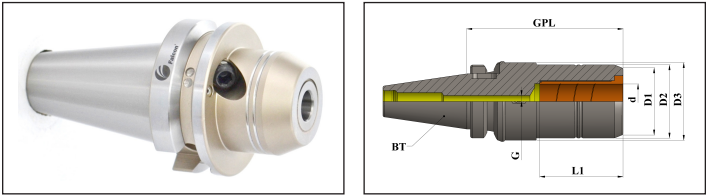
	HYDRAULIC CHUCK - HEAVY DUTY			HYDRAULIC CHUCK- NORMAL									
Tool Holder Size (mm)	ø12	ø20	ø32	ø6	ø8	ø10	ø12	ø14	ø16	ø18	ø20	ø25	ø32
Minimum Clamping Length (mm)	38	43	53	28	28	33	38	38	41	41	43	49	53
Torque (N-m)	110	520	900	16	23	45	90	110	185	240	330	450	650

Balancing G2.5 @ 25000 RPM

HYDRAULIC CHUCK

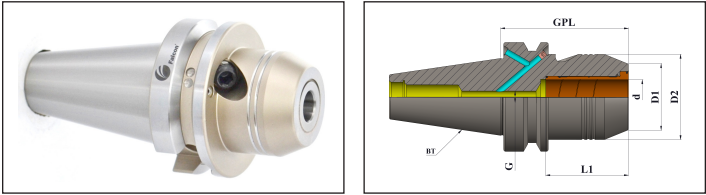
HCHD HYDRAULIC CHUCK-HEAVY DUTY

BT30- HCHD



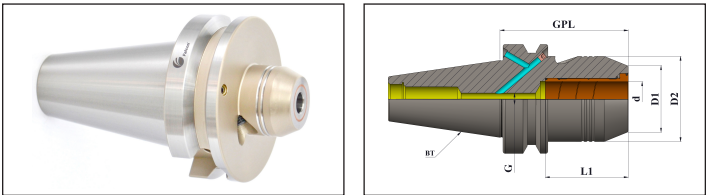
ITEMS	Product name	Form	d.	D1	D2	D3	L1	G	GPL	Group
F1B301H-HCHD12069	BT30 AD HYDRAULIC CHUCK HEAVY DUTY 12 069	AD	12	32	42	44.5	46	M8X1	069	B1500
F1B301H-HCHD20090	BT30 AD HYDRAULIC CHUCK HEAVY DUTY 20 090	AD	20	38	42	44.5	51	M8X1	090	B1500

BT40 - HCHD



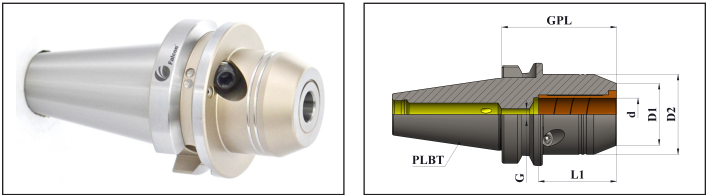
ITEMS	Product name	Form	d.	D1	D2	L1	G	GPL	Group
F1B409H-HCHD12058	BT40 ADB HYDRAULIC CHUCK HEAVY DUTY 12 058	AD/B	12	32	42	46	M8X1	058	B1500
F1B409H-HCHD20073	BT40 ADB HYDRAULIC CHUCK HEAVY DUTY 20 72.5	AD/B	20	38	49.25	51	M8X1	72.5	B1500

BT50 - HCHD



ITEMS	Product name	Form	d.	D1	D2	L1	G	GPL	Group
F1B509H-HCHD12069	BT50 ADB HYDRAULIC CHUCK HEAVY DUTY 12 069	AD/B	12	32	42	46	M8X1	069	B1500
F1B509H-HCHD20084	BT50 ADB HYDRAULIC CHUCK HEAVY DUTY 20 83.5	AD/B	20	38	49.25	51	M8X1	83.5	B1500
F1B509H-HCHD32090	BT50 ADB HYDRAULIC CHUCK HEAVY DUTY 32 090	AD/B	32	58.5	72	61	M8X1	090	B1500

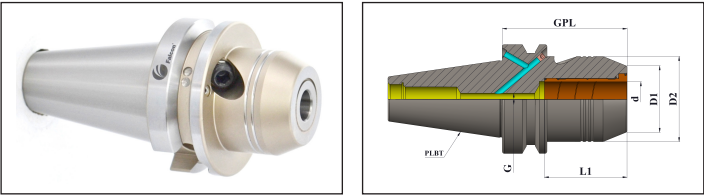
PLBT30 - HCHD



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F1B321H-HCHD12069	PLBT 30 AD HYDRAULIC CHUCK HEAVY DUTY 12 069	AD	12	32	42	46	M8X1	069	B1500
F1B321H-HCHD20090	PLBT30 AD HYDRAULIC CHUCK HEAVY DUTY 20 090	AD	20	38	42	51	M8X1	090	B1500

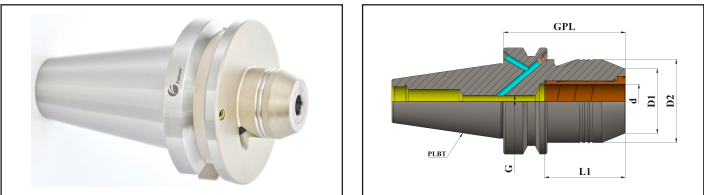
HYDRAULIC CHUCK

PLBT40 - HCHD



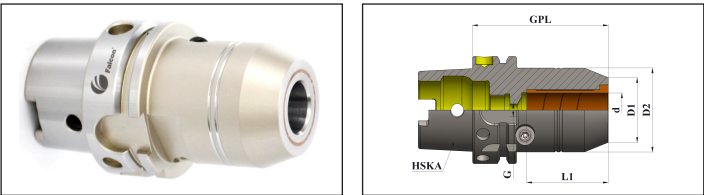
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F1B429H-HCHD12058	PLBT40 ADB HYDRAULIC CHUCK HEAVY DUTY 12 058	AD/B	12	32	42	46	M8X1	058	B1500
F1B429H-HCHD20073	PLBT40 ADB HYDRAULIC CHUCK HEAVY DUTY 20 72.5	AD/B	20	38	49.25	51	M8X1	72.5	B1500

PLBT50 - HCHD



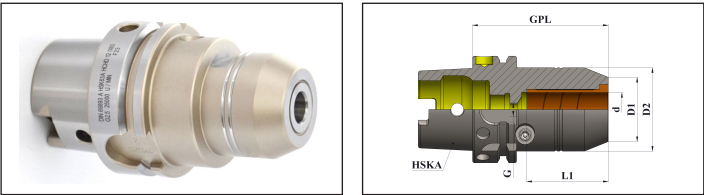
ITEMS	Product name	Form	d.	D1	D2	L1	G	GPL	Group
F1B529H-HCHD12069	PLBT50 ADB HYDRAULIC CHUCK HEAVY DUTY 12 069	AD/B	12	32	42	46	M8X1	069	B1500
F1B529H-HCHD20084	PLBT50 ADB HYDRAULIC CHUCK HEAVY DUTY 20 83.5	AD/B	20	38	49.25	51	M8X1	83.5	B1500
F1B529H-HCHD32090	PLBT50 ADB HYDRAULIC CHUCK HEAVY DUTY 32 090	AD/B	32	58.5	72	61	M8X1	090	B1500

HSK A50 - HCHD



ITEMS	Product name	Taper	d.	D1	D2	L1	G	GPL	Group
F1A050H-HCHD12085	HSK A50 HYDRAULIC CHUCK HEAVY DUTY 12 085	HSKA50	12	32	42	46	M8X1	085	B1500
F1A050H-HCHD20090	HSK A50 HYDRAULIC CHUCK HEAVY DUTY 20 090	HSKA50	20	38	42	51	M8X1	090	B1500

HSK A63 - HCHD



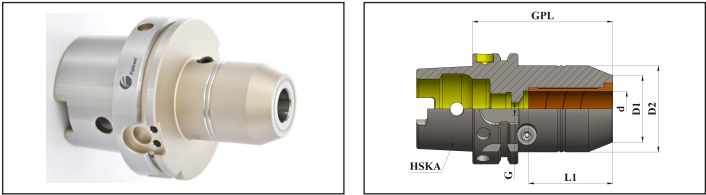
ITEMS	Product name	Taper	d.	D1	D2	L1	G	GPL	Group
F1A063H-HCHD12080	HSK A63 HYDRAULIC CHUCK HEAVY DUTY 12 080	HSKA63	12	32	42	46	M8X1	080	B1500
F1A063H-HCHD20080	HSK A63 HYDRAULIC CHUCK HEAVY DUTY 20 080	HSKA63	20	38	49.25	51	M8X1	080	B1500

Balancing G2.5 @ 25000 RPM

HYDRAULIC CHUCK

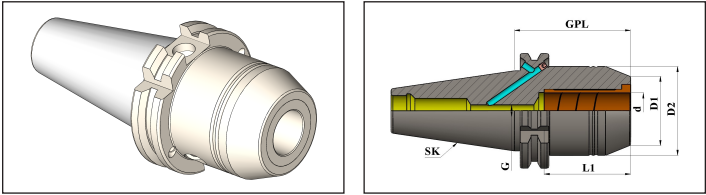
HCHD HYDRAULIC CHUCK-HEAVY DUTY

HSK A100-HCHD



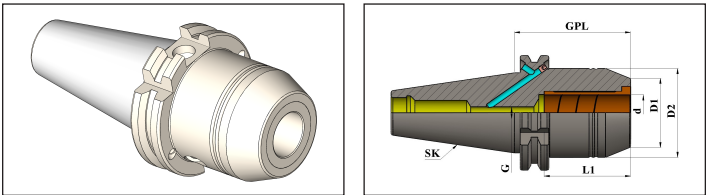
ITEMS	Product name	Taper	d.	D1	D2	L1	G	GPL	Group
F1A100H-HCHD12095	HSK A100 HYDRAULIC CHUCK HEAVY DUTY 12 095	HSKA100	12	32	42	46	M8X1	095	B1500
F1A100H-HCHD20090	HSK A100 HYDRAULIC CHUCK HEAVY DUTY 20 090	HSKA100	20	38	49.25	51	M8X1	090	B1500
F1A100H-HCHD32100	HSK A100 HYDRAULIC CHUCK HEAVY DUTY 32 100	HSKA100	32	58.5	72	61	M8X1	100	B1500

SK40 - HCHD



ITEMS	Product name	Form	d.	D1	D2	L1	G	GPL	Group
F1S409H-HCHD12050	SK40 ADB HYDRAULIC CHUCK HEAVY DUTY 12 050	AD/B	12	32	42	46	M8X1	050	B1500
F1S409H-HCHD20065	SK40 ADB HYDRAULIC CHUCK HEAVY DUTY 20 64.5	AD/B	20	38	49.25	51	M8X1	64.5	B1500

SK50 - HCHD



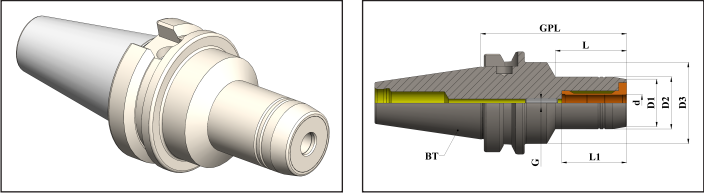
ITEMS	Product name	Form	d.	D1	D2	L1	G	GPL	Group
F1S509H-HCHD12050	SK50 ADB HYDRAULIC CHUCK HEAVY DUTY 12 050	AD/B	12	32	42	46	M8X1	050	B1500
F1S509H-HCHD20065	SK50 ADB HYDRAULIC CHUCK HEAVY DUTY 20 64.5	AD/B	20	38	49.25	51	M8X1	64.5	B1500
F1S509H-HCHD32081	SK50 ADB HYDRAULIC CHUCK HEAVY DUTY 32 081	AD/B	32	58.5	72	61	M8X1	081	B1500

Balancing G2.5 @ 25000 RPM



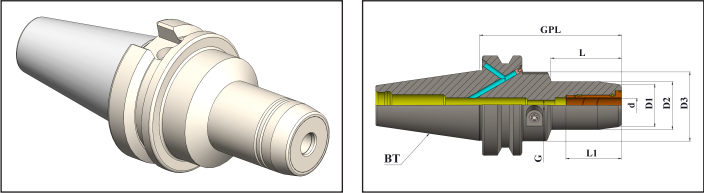
HYDRAULIC CHUCK

BT30 - HCNL



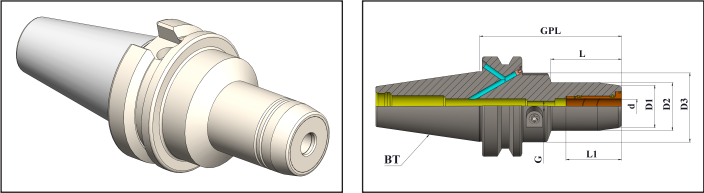
ITEMS	Product name	Form	d.	D1	D2	D3	L	L1	GPL	G	Group
F1B301H-HCNL06055	BT30 AD HYDRAULIC CHUCK NORMAL 06 055	AD	6	22.8	26	46	17.8	37	55	M5	B1500
F1B301H-HCNL08055	BT30 AD HYDRAULIC CHUCK NORMAL 08 055	AD	8	24.8	28	46	18.4	37	55	M6	B1500
F1B301H-HCNL10055	BT30 AD HYDRAULIC CHUCK NORMAL 10 055	AD	10	26.8	30	46	19	41	55	M8X1	B1500
F1B301H-HCNL12055	BT30 AD HYDRAULIC CHUCK NORMAL 12 055	AD	12	28.8	32	46	19.5	46	55	M10X1	B1500
F1B301H-HCNL16090	BT30 AD HYDRAULIC CHUCK NORMAL 16 090	AD	16	34.7	38	45	50	49	90	M10X1	B1500
F1B301H-HCNL20090	BT30 AD HYDRAULIC CHUCK NORMAL 20 090	AD	20	37.7	42	45	50	51	90	M6	B1500

BT40 - HCNL



ITEMS	Product name	Form	d.	D1	D2	D3	L	L1	GPL	G	Group
F1B409H-HCNL06090	BT40 ADB HYDRAULIC CHUCK NORMAL 06 090	AD/B	6	22	26	44.5	43	37	90	M5	B1500
F1B409H-HCNL08090	BT40 ADB HYDRAULIC CHUCK NORMAL 08 090	AD/B	8	24	28	44.5	44.5	37	90	M6	B1500
F1B409H-HCNL10090	BT40 ADB HYDRAULIC CHUCK NORMAL 10 090	AD/B	10	26	30	44.5	44.5	41	90	M8X1	B1500
F1B409H-HCNL12090	BT40 ADB HYDRAULIC CHUCK NORMAL 12 090	AD/B	12	28	32	44.5	44.5	46	90	M10X1	B1500
F1B409H-HCNL16090	BT40 ADB HYDRAULIC CHUCK NORMAL 16 090	AD/B	16	34	38	44.5	47.5	49	90	M12X1	B1500
F1B409H-HCNL20090	BT40 ADB HYDRAULIC CHUCK NORMAL 20 090	AD/B	20	37.65	42	44.5	47.5	51	90	M16X1	B1500
F1B409H-HCNL32100	BT40 ADB HYDRAULIC CHUCK NORMAL 32 100	AD/B	32	58.5	62	-	63	61	100	M16X1	B1500

BT50 - HCNL



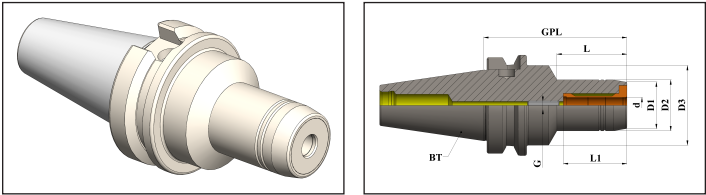
ITEMS	Product name	Form	d.	D1	D2	D3	L	L1	GPL	G	Group
F1B509H-HCNL12090	BT50 ADB HYDRAULIC CHUCK NORMAL 12 090	AD/B	12	28	32	44.5	34	46	90	M10X1	B1500
F1B509H-HCNL20090	BT50 ADB HYDRAULIC CHUCK NORMAL 20 090	AD/B	20	38	42	44.5	34	51	90	M16X1	B1500
F1B509H-HCNL32120	BT50 ADB HYDRAULIC CHUCK NORMAL 32 120	AD/B	32	60	64	70.25	62.5	61	120	M16X1	B1500

Balancing G2.5 @ 25000 RPM

HYDRAULIC CHUCK

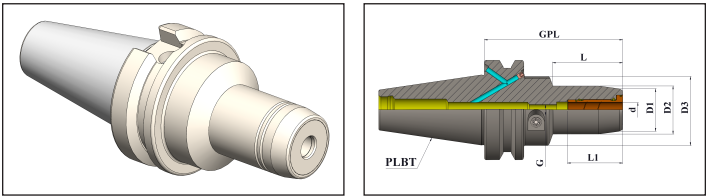
HCNL HYDRAULIC CHUCK-NORMAL

PLBT30 - HCNL



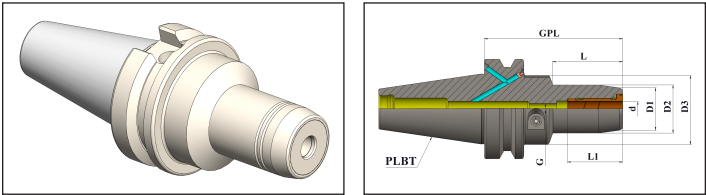
ITEMS	Product name	Form	d.	D1	D2	D3	L	L1	GPL	G	Group
F1B321H-HCNL06055	PLBT30 AD HYDRAULIC CHUCK NORMAL 06 055	AD	6	22.8	26	46	17.8	37	55	M5	B1500
F1B321H-HCNL08055	PLBT30 AD HYDRAULIC CHUCK NORMAL 08 055	AD	8	24.8	28	46	18.4	37	55	M6	B1500
F1B321H-HCNL10055	PLBT30 AD HYDRAULIC CHUCK NORMAL 10 055	AD	10	26.8	30	46	19	41	55	M8X1	B1500
F1B321H-HCNL12055	PLBT30 AD HYDRAULIC CHUCK NORMAL 12 055	AD	12	28.8	32	46	19.5	46	55	M10X1	B1500
F1B321H-HCNL16090	PLBT30 AD HYDRAULIC CHUCK NORMAL 16 090	AD	16	34.7	38	45	50	49	90	M10X1	B1500
F1B321H-HCNL20090	PLBT30 AD HYDRAULIC CHUCK NORMAL 20 090	AD	20	37.7	42	45	50	51	90	M6	B1500

PLBT40- HCNL



ITEMS	Product name	Form	d.	D1	D2	D3	L	L1	GPL	G	Group
F1B429H-HCNL06090	PLBT40 ADB HYDRAULIC CHUCK NORMAL 06 090	AD/B	6	22	26	44.5	43	37	90	M5	B1500
F1B429H-HCNL08090	PLBT40 ADB HYDRAULIC CHUCK NORMAL 08 090	AD/B	8	24	28	44.5	44.5	37	90	M6	B1500
F1B429H-HCNL10090	PLBT40 ADB HYDRAULIC CHUCK NORMAL 10 090	AD/B	10	26	30	44.5	44.5	41	90	M8X1	B1500
F1B429H-HCNL12090	PLBT40 ADB HYDRAULIC CHUCK NORMAL 12 090	AD/B	12	28	32	44.5	44.5	46	90	M10X1	B1500
F1B429H-HCNL16090	PLBT40 ADB HYDRAULIC CHUCK NORMAL 16 090	AD/B	16	34	38	44.5	47.5	49	90	M12X1	B1500
F1B429H-HCNL20090	PLBT40 ADB HYDRAULIC CHUCK NORMAL 20 090	AD/B	20	37.62	42	44.5	47.5	51	90	M16X1	B1500
F1B429H-HCNL32100	PLBT40 ADB HYDRAULIC CHUCK NORMAL 32 100	AD/B	32	58.5	62	-	63	61	100	M16X1	B1500

PLBT50-HCNL



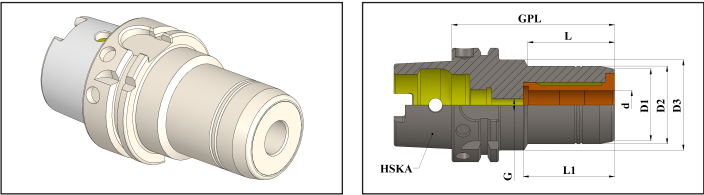
ITEMS	Product name	Form	d.	D1	D2	D3	L	L1	GPL	G	Group
F1B529H-HCNL12090	PLBT50 ADB HYDRAULIC CHUCK NORMAL 12 090	AD/B	12	28	32	44.5	34	46	90	M10X1	B1500
F1B529H-HCNL20090	PLBT50 ADB HYDRAULIC CHUCK NORMAL 20 090	AD/B	20	38	42	44.5	34	51	90	M16X1	B1500
F1B521H-HCNL32120	PLBT50 ADB HYDRAULIC CHUCK NORMAL 32 120	AD/B	32	60	64	70.25	62.5	61	120	M16X1	B1500

Balancing G2.5 @ 25000 RPM



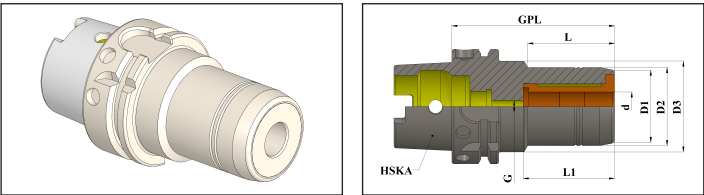
HYDRAULIC CHUCK

HSKA50 - HCNL



ITEMS	Product name	Taper	d.	D1	D2	D3	L	L1	GPL	G	Group
F1A050H-HCNL06070	HSK A50 HYDRAULIC CHUCK NORMAL 06 070	HSKA50	6	22	26	40	28	37	70	M5	B1500
F1A050H-HCNL08070	HSK A50 HYDRAULIC CHUCK NORMAL 08 070	HSKA50	8	24	28	40	28	37	70	M6	B1500
F1A050H-HCNL10075	HSK A50 HYDRAULIC CHUCK NORMAL 10 075	HSKA50	10	26	30	40	34	41	75	M8X1	B1500
F1A050H-HCNL12085	HSK A50 HYDRAULIC CHUCK NORMAL 12 085	HSKA50	12	28	32	40	44	46	85	M10X1	B1500
F1A050H-HCNL14085	HSK A50 HYDRAULIC CHUCK NORMAL 14 085	HSKA50	14	30	34	40	44	46	85	M10X1	B1500
F1A050H-HCNL16090	HSK A50 HYDRAULIC CHUCK NORMAL 16 090	HSKA50	16	34	38	53	30	49	90	M10X1	B1500
F1A050H-HCNL18090	HSK A50 HYDRAULIC CHUCK NORMAL 18 090	HSKA50	18	36	40	57	30	49	90	M10X1	B1500
F1A050H-HCNL20090	HSK A50 HYDRAULIC CHUCK NORMAL 20 090	HSKA50	20	38	42	60	29	51	90	M10X1	B1500

HSK A63 - HCNL



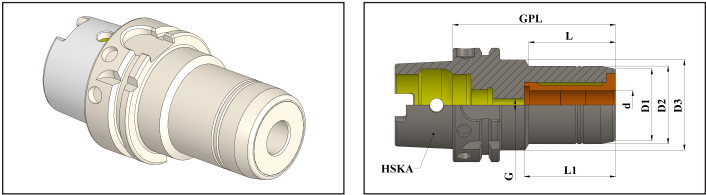
ITEMS	Product name	Taper	d.	D1	D2	D3	L	L1	GPL	G	Group
F1A063H-HCNL06070	HSK A63 HYDRAULIC CHUCK NORMAL 06 070	HSKA63	6	22	26	50	24	37	70	M5	B1500
F1A063H-HCNL08070	HSK A63 HYDRAULIC CHUCK NORMAL 08 070	HSKA63	8	24	28	50	25	37	70	M6	B1500
F1A063H-HCNL10080	HSK A63 HYDRAULIC CHUCK NORMAL 10 080	HSKA63	10	26	30	50	35	41	80	M8X1	B1500
F1A063H-HCNL12085	HSK A63 HYDRAULIC CHUCK NORMAL 12 085	HSKA63	12	28	32	50	40	46	85	M10X1	B1500
F1A063H-HCNL14085	HSK A63 HYDRAULIC CHUCK NORMAL 14 085	HSKA63	14	30	34	50	40	46	85	M10X1	B1500
F1A063H-HCNL16090	HSK A63 HYDRAULIC CHUCK NORMAL 16 090	HSKA63	16	34	38	50	46	49	90	M12x1	B1500
F1A063H-HCNL18090	HSK A63 HYDRAULIC CHUCK NORMAL 18 090	HSKA63	18	36	40	50	47	49	90	M12x1	B1500
F1A063H-HCNL20090	HSK A63 HYDRAULIC CHUCK NORMAL 20 090	HSKA63	20	38	42	50	48	51	90	M16X1	B1500
F1A063H-HCNL25120	HSK A63 HYDRAULIC CHUCK NORMAL 25 120	HSKA63	25	53	57	-	94	57	120	M16X1	B1500
F1A063H-HCNL32125	HSK A63 HYDRAULIC CHUCK NORMAL 32 125	HSKA63	32	58	62	-	99	61	125	M16X1	B1500

Balancing G2.5 @ 25000 RPM

HYDRAULIC CHUCK

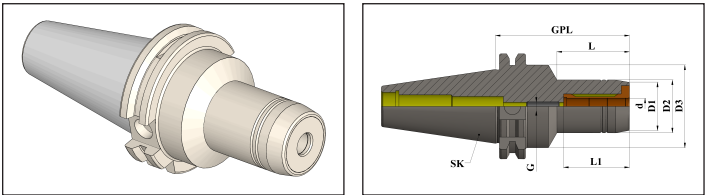
HCNL HYDRAULIC CHUCK-NORMAL

HSK A100 - HCNL



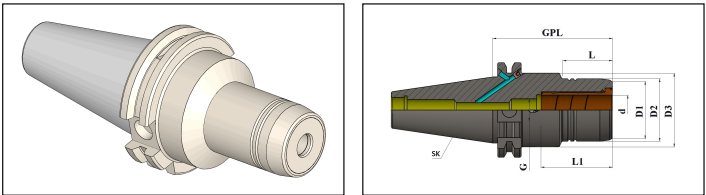
ITEMS	Product name	Taper	d.	D1	D2	D3	L	L1	GPL	G	Group
F1A100H-HCNL06075	HSK A100 HYDRAULIC CHUCK NORMAL 06 075	HSKA100	6	22	26	50	26	37	75	M5	B1500
F1A100H-HCNL08075	HSK A100 HYDRAULIC CHUCK NORMAL 08 075	HSKA100	8	24	28	50	26	37	75	M6	B1500
F1A100H-HCNL10090	HSK A100 HYDRAULIC CHUCK NORMAL 10 090	HSKA100	10	26	30	50	42	41	90	M8X1	B1500
F1A100H-HCNL12095	HSK A100 HYDRAULIC CHUCK NORMAL 12 095	HSKA100	12	28	32	50	47	46	95	M10X1	B1500
F1A100H-HCNL14095	HSK A100 HYDRAULIC CHUCK NORMAL 14 095	HSKA100	14	30	34	50	47	46	95	M10X1	B1500
F1A100H-HCNL16100	HSK A100 HYDRAULIC CHUCK NORMAL 16 100	HSKA100	16	34	38	50	53	49	100	M12X1	B1500
F1A100H-HCNL18100	HSK A100 HYDRAULIC CHUCK NORMAL 18 100	HSKA100	18	36	40	50	53	49	100	M12X1	B1500
F1A100H-HCNL20105	HSK A100 HYDRAULIC CHUCK NORMAL 20 105	HSKA100	20	38	42	50	59	51	105	M16X1	B1500
F1A100H-HCNL25110	HSK A100 HYDRAULIC CHUCK NORMAL 25 110	HSKA100	25	53	57	63	62	57	110	M16X1	B1500
F1A100H-HCNL32110	HSK A100 HYDRAULIC CHUCK NORMAL 32 110	HSKA100	32	60	64	75	62	61	110	M16X1	B1500

SK30 - HCNL



ITEMS	Product name	Form	d.	D1	D2	D3	L	L1	GPL	G	Group
F1S301H-HCNL06055	SK30 AD HYDRAULIC CHUCK NORMAL 06 055	AD	6	23	26	45	20	37	55	M5	B1500
F1S301H-HCNL08055	SK30 AD HYDRAULIC CHUCK NORMAL 08 055	AD	8	25	28	45	20	37	55	M6	B1500
F1S301H-HCNL10055	SK30 AD HYDRAULIC CHUCK NORMAL 10 055	AD	10	27	30	45	21	41	55	M8X1	B1500
F1S301H-HCNL12055	SK30 AD HYDRAULIC CHUCK NORMAL 12 055	AD	12	29	32	45	22	46	55	M10X1	B1500
F1S301H-HCNL16090	SK30 AD HYDRAULIC CHUCK NORMAL 16 090	AD	16	35	38	45	50	49	90	M6	B1500
F1S301H-HCNL20090	SK30 AD HYDRAULIC CHUCK NORMAL 20 090	AD	20	38	42	45	50	51	90	M6	B1500

SK40 - HCNL



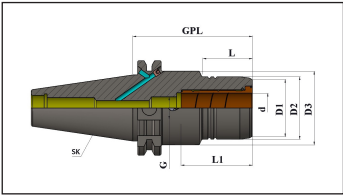
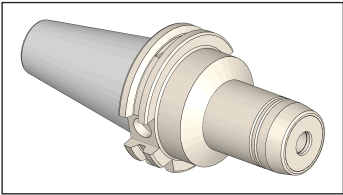
ITEMS	Product name	Form	d.	D1	D2	D3	L	L1	GPL	G	Group
F1S409H-HCNL06081	SK40 ADB HYDRAULIC CHUCK NORMAL 06 081	AD/B	6	22	26	49.5	29.5	37	80.5	M5	B1500
F1S409H-HCNL08081	SK40 ADB HYDRAULIC CHUCK NORMAL 08 081	AD/B	8	24	28	49.5	30	37	80.5	M6	B1500
F1S409H-HCNL10081	SK40 ADB HYDRAULIC CHUCK NORMAL 10 081	AD/B	10	26	30	49.5	31	41	80.5	M8X1	B1500
F1S409H-HCNL12081	SK40 ADB HYDRAULIC CHUCK NORMAL 12 081	AD/B	12	28	32	49.5	31.5	46	80.5	M10X1	B1500
F1S409H-HCNL16081	SK40 ADB HYDRAULIC CHUCK NORMAL 16 081	AD/B	16	34	38	49.5	33	49	80.5	M12X1	B1500
F1S409H-HCNL18081	SK40 ADB HYDRAULIC CHUCK NORMAL 18 081	AD/B	18	38.25	42	49.5	34.2	52.5	80.5	M12X1	B1500
F1S409H-HCNL20081	SK40 ADB HYDRAULIC CHUCK NORMAL 20 081	AD/B	20	38	42	49.5	34	57	80.5	M16X1	B1500
F1S409H-HCNL25081	SK40 ADB HYDRAULIC CHUCK NORMAL 25 081	AD/B	25	53	55	66	22	57	80.5	M16X1	B1500
F1S409H-HCNL32081	SK40 ADB HYDRAULIC CHUCK NORMAL 32 081	AD/B	32	60	63	80	25.5	61	80.5	M16X1	B1500

Balancing G2.5 @ 25000 RPM

HYDRAULIC CHUCK

HCNL HYDRAULIC CHUCK-NORMAL

SK50 - HCNL

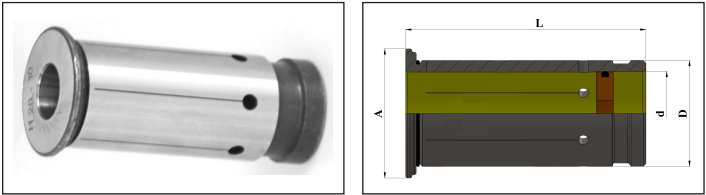


ITEMS	Product name	Form	d.	D1	D2	D3	L	L1	G	GPL	Group
F1S509H-HCNL20081	SK50 ADB HYDRAULIC CHUCK NORMAL 20 081	AD/B	20	38	42	49.5	34	51	M16X1	80.5	B1500
F1S509H-HCNL32103	SK50 ADB HYDRAULIC CHUCK NORMAL 32 103	AD/B	32	60	64	70	62.5	61	M16X1	103.2	B1500

Balancing G2.5 @ 25000 RPM

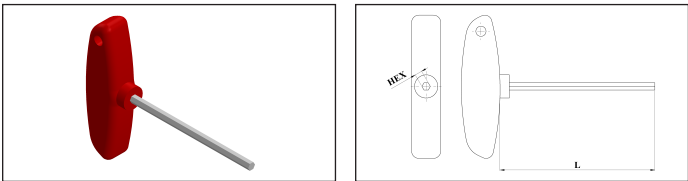
HYDRAULIC CHUCK

Reduction Sleeve



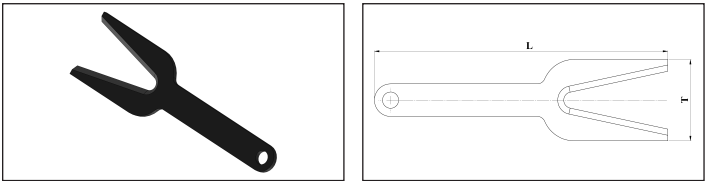
ITEMS	Product name	D	d.	A	L	Group
F16200-12D03	HYDRAULIC CHUCK REDUCTION SLEEVE 12 D03	12	3	16.5	44	B1500
F16200-12D04	HYDRAULIC CHUCK REDUCTION SLEEVE 12 D04	12	4	16.5	44	B1500
F16200-12D06	HYDRAULIC CHUCK REDUCTION SLEEVE 12 D06	12	6	16.5	44	B1500
F16200-12D08	HYDRAULIC CHUCK REDUCTION SLEEVE 12 D08	12	8	16.5	44	B1500
F16200-20D03	HYDRAULIC CHUCK REDUCTION SLEEVE 20 D03	20	3	24	52.5	B1500
F16200-20D04	HYDRAULIC CHUCK REDUCTION SLEEVE 20 D04	20	4	24	52.5	B1500
F16200-20D06	HYDRAULIC CHUCK REDUCTION SLEEVE 20 D06	20	6	24	52.5	B1500
F16200-20D08	HYDRAULIC CHUCK REDUCTION SLEEVE 20 D08	20	8	24	52.5	B1500
F16200-20D10	HYDRAULIC CHUCK REDUCTION SLEEVE 20 D10	20	10	24	52.5	B1500
F16200-20D12	HYDRAULIC CHUCK REDUCTION SLEEVE 20 D12	20	12	24	52.5	B1500
F16200-20D14	HYDRAULIC CHUCK REDUCTION SLEEVE 20 D14	20	14	24	52.5	B1500
F16200-20D16	HYDRAULIC CHUCK REDUCTION SLEEVE 20 D16	20	16	24	52.5	B1500
F16200-32D06	HYDRAULIC CHUCK REDUCTION SLEEVE 32 D06	32	6	39	63.2	B1500
F16200-32D08	HYDRAULIC CHUCK REDUCTION SLEEVE 32 D08	32	8	39	63.2	B1500
F16200-32D10	HYDRAULIC CHUCK REDUCTION SLEEVE 32 D10	32	10	39	63.2	B1500
F16200-32D12	HYDRAULIC CHUCK REDUCTION SLEEVE 32 D12	32	12	39	63.2	B1500
F16200-32D14	HYDRAULIC CHUCK REDUCTION SLEEVE 32 D14	32	14	39	63.2	B1500
F16200-32D16	HYDRAULIC CHUCK REDUCTION SLEEVE 32 D16	32	16	39	63.2	B1500
F16200-32D18	HYDRAULIC CHUCK REDUCTION SLEEVE 32 D18	32	18	39	63.2	B1500
F16200-32D20	HYDRAULIC CHUCK REDUCTION SLEEVE 32 D20	32	20	39	63.2	B1500
F16200-32D25	HYDRAULIC CHUCK REDUCTION SLEEVE 32 D25	32	25	39	63.2	B1500

SPARES ALLEN KEY



ITEMS	Product name	L	Hex	Group
F1ALKY-100M05	ALLEN KEY	100	M5	B1500
F1ALKY-100M06	ALLEN KEY	100	M6	B1500

SLEEVE SPANNER (Remover)



ITEMS	Product name	L	T	Group
F155SP-50HRS	REDUCTION SLEEVE SPANNER	182	50	B1500

Balancing G2.5 @ 25000 RPM



HYRS
HYDRAULIC CHUCK
REDUCTION SLEEVE



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