



APPLICATION

Premium power chucks with through-hole for maximum speeds and optimized centrifugal forces.

TYPE

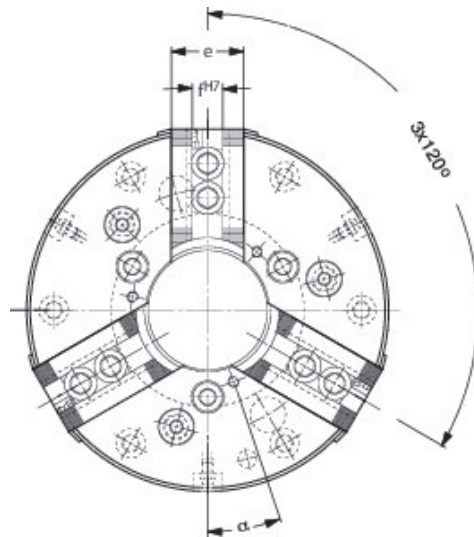
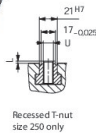
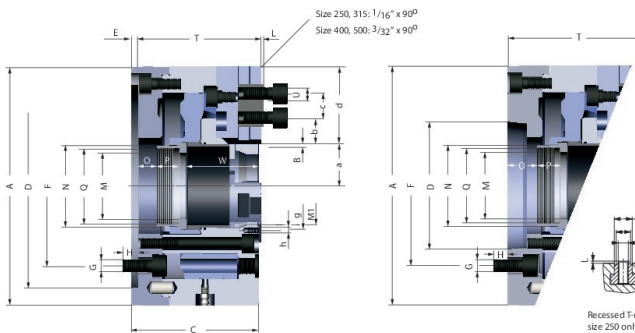
Power chuck available with cylindrical centre mount or short taper mount.
3-jaw version with serration 90° or tongue and groove.
2-jaw version with serration (90°).

CUSTOMER BENEFITS

- ③ Low centrifugal force losses and high Speeds thanks to special wedge hook system with annular piston
- ③ Larger than average through-hole for wide range of workpieces
- ③ Maximum precision thanks to rigid chuck construction
- ③ If necessary quick conversion to a different spindle nose by simple exchanging the centering adapter

TECHNICAL FEATURES

- Universal construction of the piston connection (piston does not project into the spindle bore area, even with the piston position moved back)
- Long jaw guide
- Clamping inserts can be used for bar machining (special version)
- **Included in the scope of delivery:** Chuck, chuck and jaw mounting screws, mounting wrench, slot nuts (without top jaws)



C 15 3 jaw power chuck KFD-HS, with tightening thread, serration 90° Cylindrical center mount, connection dimensions in acc. with DIN 6353/short taper mount (KK) for ISO 702-1 (DIN 55026/55021)

Item no.	149405	142477	142690	142478	143893	142479	142691	143726	143748 ▲	143749 ▲	143750 ▲	143751 ▲	143752	146228
Size	110	130	140	160	175	200	250	250	315	315	400	400	500	500
Number of jaws	3	3	3	3	3	3	3	3	3	3	3	3	3	3
A mm	110	130	140	160	175	200	250	250	315	315	400	400	500	500
Stroke per jaw B mm	3.2	3.2	3.2	4	4	5	6.2	6.2	6.2	6.2	7.5	7.5	7.5	7.5
C mm	86	90	92	108	108	112	130	130	130	143	156	156	156	156
Mount D	KK 4 1)	KK 4 ¹⁾	KK 5	KK 5	KK 5	KK 6	KK 8	KK 6	KK 8	KK 11	KK 11	KK 15	KK 15	KK 11
E mm	13	13	15	16	16	16	19	15	19	21	18	21	21	18
F mm	82.6	82.6	104.8	104.8	104.8	133.4	171.4	133.4	171.4	235	235	330.2	330.2	235
G	3xM10	3xM10	3xM10	3xM10	3xM10	3xM12	3xM16	3xM12	3xM16	3xM20	3xM20	3xM24	3xM24	3xM20
H mm	14	14	17	14	14	17	24	18	24	30	30	30	30	30
Piston stroke K mm	12	12	12	15	15	18,5	23	23	23	23	28	28	28	28
L mm	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	3,5	3,5	3,5	3,5
M max. mm	26	32	37	46	56	66	86	66	86	108	126	165	165	165
M1H7 mm	32	32	37	46	56	66	94	94	94	115	172	172	172	172
N mm	38	42	48	58	68	80	99	80	99	126	142	180	180	142
O min.	11	12	13	16	16	16,5	2	2	2	1	0	-6	-6	0

¹⁾ ISO 702-1 (DIN 55026) only (DIN 55021 on request)

KFD-HS

Item no.	149405	142477	142690	142478	143893	142479	142691	143726	143748 ▲	143749 ▲	143750 ▲	143751 ▲	143752	146228
O max.	23	24	25	31	31	35	25	25	25	24	28	22	22	28
P mm	12	14	14	16	16	15	25	25	25	25	35	35	35	35
Q mm	M34x1,5	M38x1,5	M44x1,5	M54x1,5	M65x1,5	M74x1,5	M94x1,5	M74x1,5	M94x1,5	M120x1,5	M132x1,5	M172x3	M172x3	M132x1,5
T mm	84	88	90	106	106	110	132	132	132	145	159	159	159	159
U mm	M8	M6	M6	M8	M8	M12	M12	M12	M16	M16	M20	M20	M20	M20
W mm							74	74	74	85	88	88	88	88
a min.	10,8	14,3	16,8	24	29	35	43,8	43,8	43,8	54,8	80,5	80,5	80,5	80,5
a max.	14	17,5	20	28	33	40	50	50	50	61	88	88	88	88
b min.	3	0	0	0	0	8,5	6	6	10,5	10,5	14,5	14,5	14,5	14,5
b max.	23	23,5	26	22	24,5	32,5	47,5	47,5	72	61	66,5	66,5	116,5	116,5
c mm	15	2x12	2x12	2x15	2x15	19	19	19	25	25	31	31	31	31
d mm	41	47.5	50	52	54.5	60	75	75	107.5	96.5	112	112	162	162
e mm	24	25	25	32	32	40	50	50	50	50	60	60	60	60
f ^{H7} _{-0,025} mm	10	10	10	12	12	17	17	17	21	21	25.5	25.5	25.5	25.5
g mm	50	75	68	76	76	84	108	108	108	136	190	190	190	190
h	M5x8	M5x8	M5x8	M6x10	M6x10	M6x10	M6x10	M6x10	M6x10	M8x12	M8x12	M8x12	M8x12	M8x12
α	0°	15°	22° 30'	20°	20°	20°	0°	15°	0°	0°	15°	15°	15°	15°
Max. swing top jaws mm	113	170	180	195	210	250	305	305	380	380	520	520	620	620
Maximum actuating force kN	18	25	25	35	40	48	65	65	80	80	110	110	110	110
Max. total clamping force kN	48	70	70	86	95	110	150	150	180	180	250	250	250	250
Max. RPM min ⁻¹	8500	8000	8000	8000	7000	6500	5000	5000	4200	4200	3150	3150	2800	2800
Moment of inertia J kgm ²	0,007	0,015	0,022	0,0415	0,057	0,1	0,35	0,35	0,74	0,74	2,4	2,4	6	6
Weight without jaws approx. kg	5	7	9	12	15	20	40	40	56	56	120	120	190	190
Actuating cylinders (recommended)	OVS-85 / SZS-37/7/		OVS-105 SZS-37/7/	OVS-105 SZS-46/1/	OVS-105 SZS-52/1/	OVS-130 SZS-67/1/	OVS-150 SZS-86/2/	OVS-150 SZS-67/1/	OVS-200 SZS-86/2/	OVS-200 SZS-110/	OVS-200 SZS-127/	OVS-200 -		

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