

Duro-A - cylindrical center mount, 60°



APPLICATION

Premium power chuck with through-hole for the machining of bar, pipes and discs. With constant clamping force distribution for more than 500,000 cycles.

TYPE

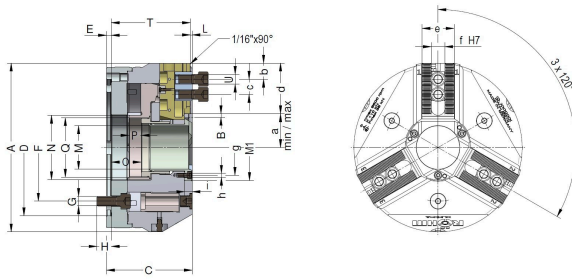
The Duro-A is a three-jaw chuck with a through-hole that can be clamped automatically (hydraulically) by a CNC machine. It is mainly used for turning cylindrical and disc-shaped blanks.

CUSTOMER BENEFITS

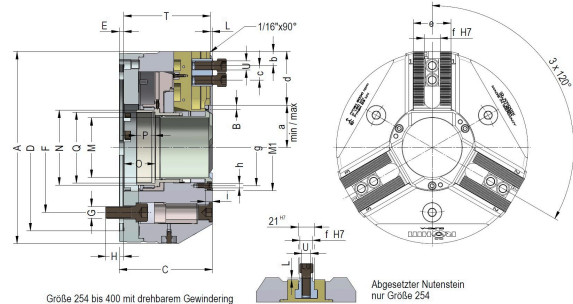
- ⊕ High clamping forces (up to 250 kN, in the 400-series version)
- ⊕ High speeds (up to 8,000 rpm in the 160-series version)
- ⊕ Reduced interference contour
- ⊕ Large through-hole

TECHNICAL FEATURES

- high axial- and radial accuracy; high repeating accuracy
- Durable over 500,000 clamping cycles
- Wedge hook principle
- Fixed base jaw, top jaws via sliding blocks
- Threaded ring ready prepared



Größe 110 bis 210 mit Festgewinde am Kolben



Größe 254 bis 400 mit drehbarem Gewinding

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Size	110	135	165	210	254	254	315	315	400	400
A [mm] outer diameter	110	135	165	210	254	254	315	315	400	400
B [mm] jaw stroke	3.2	3.2	3.5	4.5	5.5	5.5	6.2	6.2	7.5	7.5
C [mm] - Chuck height	78	88	97	107	121	123.5	132.5	137	159.5	159.5
D mount	ZA 60	ZA 115	ZA 140	ZA 170	ZA 170	ZA 220	ZA 220	ZA 300	ZA 380	ZA 380
E [mm] Mounting, depth	6	6	6	6	6	6	6	6	6	6
F [mm]	82.6	82.6	104.8	133.4	133.4	171.4	171.4	235	330.2	330.2
G Thread mounting screws	3xM10	3xM10	3xM10	3xM12	3xM12	3xM16	3xM16	3xM20	3xM24	3xM24
H [mm] Screw-in length of fixing screw	15	15	15	18	18	24	26.5	30	30	30
K [mm] Piston stroke	12	12	13	17	20,5	20,5	23	23	28	28
L [mm] Height of serration	2,5	2,2	2,2	2,2	2,5	2,5	2,5	2,5	3,2	3,2
M [mm] Passage (max)	27	34	46	54	79	79	98.5	98.5	133	133
M1 H7 [mm] Centering diameter	52	59	74	82	114	114	140	140	180.5	180.5
N [mm] - Piston neck	38	45	58	80	99	99	121	121	157,5	157,5
O [mm] Piston position, min	10,5	15,5	17,5	20,3	18,7	21,2	22,1	26,6	30,6	30,6
O [mm] Piston position, max	22,5	27,5	30,5	37,3	39,2	41,7	45,1	49,6	58,6	58,6
P [mm] Thread length piston	11,5	13,5	15,5	15,3	25	25	25	25	35	35
Q [mm] Spindle connection	M34x1,5	M38x1,5	M54x1,5	M74x1,5	M94x1,5	M94x1,5	M114x2	M114x2	M148x2	M148x2
T [mm] Chuck height 1	71,3	79,3	88,8	98,8	112,3	114,8	121,8	126,3	144,3	144,3
U thread T-nuts	M8	M8	M10	M12	M12	M12	M16	M16	M20	M20
a [mm] Jaw position, min	21,8	25,3	31,5	37,5	50,5	50,5	61,3	61,3	79,5	79,5
a [mm] Jaw position, max	25	28,5	35	42	56	56	67,5	67,5	87	87
b [mm] Slot setting, min	2,5	5	-1	15,5	15,5	15,5	15,5	15,5	20	20
b [mm] Slot setting, max	8,5	7,5	12	34,5	42	42	51	51	62	62
c [mm] Slot nut hole spacing	14	14	20	25	30	30	30	30	31	31
d [mm] Length of base jaw	30	39	47.5	63	71	71	90	90	113	113
e [mm] Base jaw width	24	25	32	40	50	50	50	50	60	60

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f [mm] H7 Groove width	10	10	12	14	16	16	21	21	25.5	25.5
g [mm]	43	48	61	69	101	101	125	125	166	166
h Thread protective bushing	M4	M4	M5	M5	M6	M6	M6	M6	M8	M8
i [mm] Countersunk screw protective bushing	6	6	6	6	6	6	6	6	6	6
Flying circle Ø top jaw [mm]	136	170	195	260	305	305	402	402	520	520
Operating force [kN] max.	17	25	30	38	53	53	62	62	90	90
Clamping force [kN] max., total	48	70	86	110	150	150	180	180	250	250
Speed [min-1], max. perm.	8500	8000	8000	6500	5000	5000	4200	4200	3150	3150
Moment of inertia J kgm ²	0,007	0,018	0,04	0,12	0,3	0,3	0,82	0,82	2,5	2,5
Weight without jaws approx. kg	4,3	6,9	11,5	19,6	33	33	56,8	56,8	108,6	108,6
Item no.	183722 ▲	183723 ▲	183724 ▲	183725 ▲	183726 ▲	183727 ▲	183728 ▲	183729 ▲	183730 ▲	183731 ▲