

- Radial fine adjustment
- Use of standard collets
- Air sensing



Application/customer benefits

- Large selection of standard collets
- Low deformation clamping of thin walled workpieces
- Rigid axial stop, central or front stop
- Long lifetime due to case hardened parts and manual lubrication
- Sealed against the ingress of chips and coolant
- Use of high-precision collets when using premium adapter PA
- Use of expanding mandrels of the „Connect“ series

Technical features

- Air sensing (central or front)
- Radial fine adjustment

Standard equipment

Collet chuck
with bolts
with basic workstop (central M12)
with protection sleeve (with through-hole)

Ordering example

COMOT-AZ-65-Z170

Application Examples

Collet chuck COMOT-AZ with standard collet for O.D. Clamping



Clamping with standard collet



Collet chuck COMOT-AZ with premium adapter PA* for O.D. Clamping



*For the premium adapters please see the page of PA-Comot

Collet chuck COMOT-AZ* with extension mandrel EMX-F-CO „Connect“ for I.D. Clamping



*For the mandrels please see the page of the mandrels EMX-F-CO

Clamping with slotted high-precision collet

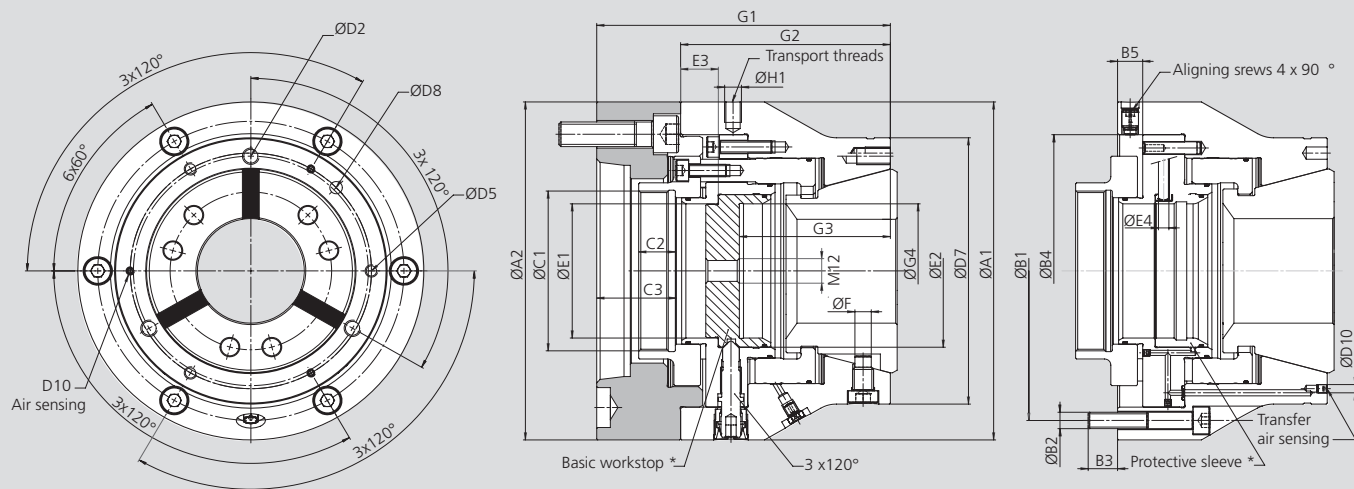


Clamping with extension mandrel „Connect“



COMOT-AZ

- ## Flexible collet chuck



6

SMW-AUTOBLOK Type		COMOT-AZ-42	COMOT-AZ-65	COMOT-AZ-100
Axial stroke	mm	5.5	5.5	8
Loading clearance in Ø min.*	mm	1	1	2
Reserve stroke in Ø min.*	mm	1	1	1.5
Max. Actuating force in kN	mm	35	45	65
Max. Clamping force radial	kN	80	105	150
Max. Speed rpm	1/min	7000	6000	5000
Weight without collets in kg	kg	6,9	9,2	19,8

** For complete Id. No's see the page of the flanges (ordering review chuck with flange)

Collets for COMOT 42

Steel collets with axial and radial grooves (Δ smooth, $\Delta\Delta$ radial grooves)
ROUND*

Ø	4Δ	5Δ	6Δ	7Δ	8$\Delta\Delta$	9$\Delta\Delta$	10$\Delta\Delta$	11	12	13	14	15	16
Id. No.	192173	192174	192175	192176	192177	192178	192179	192180	192181	192182	192183	192184	192185
Ø	17	18	19	20	21	22	23	24	25	26	27	28	29
Id. No.	192186	192187	192188	192189	192190	192191	192192	192193	192194	192195	192196	192197	192198
Ø	30	31	32	33	34	35	36	37	38	39	40	41	42
Id. No.	192199	192200	192201	192202	192203	192204	192205	192206	192207	192208	192209	192210	192211

Collets in 0.5 mm increments on request.

Steel collets with smooth clamping surface
ROUND*

Ø	4	5	6	7	8	9	10	11	12	13	14	15	16
Id. No.	192173	192174	192175	192176	192177	192178	192179	192180	192181	192182	192183	192184	192185
Ø	17	18	19	20	21	22	23	24	25	26	27	28	29
Id. No.	193144	192807	193145	192808	193146	193147	193148	193149	193150	193151	193152	193153	193154
Ø	30	31	32	33	34	35	36	37	38	39	40	41	42
Id. No.	193155	193156	193083	193157	193158	193159	193160	193161	193162	193163	193164	193165	193219

Collets in 0.5 mm increments on request.

SQUARE**

□	7Δ	8$\Delta\Delta$	9$\Delta\Delta$	10$\Delta\Delta$	11$\Delta\Delta$	12$\Delta\Delta$	13$\Delta\Delta$	14$\Delta\Delta$	15$\Delta\Delta$	16$\Delta\Delta$	17$\Delta\Delta$	18$\Delta\Delta$	19$\Delta\Delta$
Id. No.	192212	192213	192214	192215	192216	192217	192218	192219	192220	192221	192222	192223	192224
□	20$\Delta\Delta$	21$\Delta\Delta$	22$\Delta\Delta$	23$\Delta\Delta$	24$\Delta\Delta$	25$\Delta\Delta$	26$\Delta\Delta$	27$\Delta\Delta$	28$\Delta\Delta$	29$\Delta\Delta$	30$\Delta\Delta$		
Id. No.	192225	192226	192227	192228	192229	192230	192231	192232	192233	192234	192235		

HEXAGONAL**

⬡	7Δ	8$\Delta\Delta$	9$\Delta\Delta$	10$\Delta\Delta$	11$\Delta\Delta$	12$\Delta\Delta$	13$\Delta\Delta$	14$\Delta\Delta$	15$\Delta\Delta$	16$\Delta\Delta$	17$\Delta\Delta$	18$\Delta\Delta$	19$\Delta\Delta$
Id. No.	192236	192237	192238	192239	192240	192241	192242	192243	192244	192245	192246	192247	192248
⬡	20$\Delta\Delta$	21$\Delta\Delta$	22$\Delta\Delta$	23$\Delta\Delta$	24$\Delta\Delta$	25$\Delta\Delta$	26$\Delta\Delta$	27$\Delta\Delta$	28$\Delta\Delta$	29$\Delta\Delta$	30$\Delta\Delta$	31$\Delta\Delta$	32$\Delta\Delta$
Id. No.	192249	192250	192251	192252	192253	192254	192255	192256	192257	192258	192259	192260	192261

Soft steel collets (pre-bored)
ROUND

Ø	5	15	30										
Id. No.	192262	192263	192264										

Boring ring 42 for soft steel collets

Id. No.	193399												
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* Concentricity similar DIN 6343.

** Concentricity has to be agreed.

Changing unit

Accessories	Size	COMOT 42
Manual		196842
Pneumatic		192151

Collets for COMOT 65

Steel collets with axial and radial grooves (Δ smooth, $\Delta\Delta$ radial grooves)

ROUND*

Ø	5 Δ	6 Δ	7 Δ	8 $\Delta\Delta$	9 $\Delta\Delta$	10 $\Delta\Delta$	11	12	13	14	15	16	17
Id. No.	192265	192266	192267	192268	192269	192270	192271	192272	192273	192274	192275	192276	192277
Ø	18	19	20	21	22	23	24	25	26	27	28	29	30
Id. No.	192278	192279	192280	192281	192282	192283	192284	192285	192286	192287	192288	192289	192290
Ø	31	32	33	34	35	36	37	38	39	40	41	42	43
Id. No.	192291	192292	192293	192294	192295	192296	192297	192298	192299	192300	192301	192302	192303
Ø	44	45	46	47	48	49	50	51	52	53	54	55	56
Id. No.	192304	192305	192306	192307	192308	192309	192310	192311	192312	192313	192314	192315	192316
Ø	57	58	59	60	61	62	63	64	65				
Id. No.	192317	192318	192319	192320	192321	192322	192323	192324	192325				

Collets in 0.5 mm increments on request.

Steel collets with smooth clamping surface

ROUND*

Ø	5	6	7	8	9	10	11	12	13	14	15	16	17
Id. No.	192265	192266	192267	193172	193173	192682	193174	192787	193175	193176	193177	193169	193178
Ø	18	19	20	21	22	23	24	25	26	27	28	29	30
Id. No.	193179	193180	193181	193182	192683	193183	193170	193065	193184	193066	193068	193069	193070
Ø	31	32	33	34	35	36	37	38	39	40	41	42	43
Id. No.	193185	192684	193186	193187	193188	193189	193190	193191	193192	192685	193193	193194	193171
Ø	44	45	46	47	48	49	50	51	52	53	54	55	56
Id. No.	193196	193197	193198	193199	193200	193201	193202	193203	193204	193205	193206	193207	193208
Ø	57	58	59	60	61	62	63	64	65				
Id. No.	193195	193209	193210	193211	193212	193213	193214	193215	193216				

Collets in 0.5 mm increments on request.

SQUARE**

□	8 $\Delta\Delta$	9 $\Delta\Delta$	10 $\Delta\Delta$	11 $\Delta\Delta$	12 $\Delta\Delta$	13 $\Delta\Delta$	14 $\Delta\Delta$	15 $\Delta\Delta$	16 $\Delta\Delta$	17 $\Delta\Delta$	18 $\Delta\Delta$	19 $\Delta\Delta$	20 $\Delta\Delta$
Id. No.	192326	192327	192328	192329	192330	192331	192332	192333	192334	192335	192336	192337	192338
□	21 $\Delta\Delta$	22 $\Delta\Delta$	23 $\Delta\Delta$	24 $\Delta\Delta$	25 $\Delta\Delta$	26 $\Delta\Delta$	27 $\Delta\Delta$	28 $\Delta\Delta$	29 $\Delta\Delta$	30 $\Delta\Delta$	31 $\Delta\Delta$	32 $\Delta\Delta$	33 $\Delta\Delta$
Id. No.	192339	192340	192341	192342	192343	192344	192345	192346	192347	192348	192349	192350	192351
□	34 $\Delta\Delta$	35 $\Delta\Delta$	36 $\Delta\Delta$	37 $\Delta\Delta$	38 $\Delta\Delta$	39 $\Delta\Delta$	40 $\Delta\Delta$	41 $\Delta\Delta$	42 $\Delta\Delta$	43 $\Delta\Delta$	44 $\Delta\Delta$	45 $\Delta\Delta$	46 $\Delta\Delta$
Id. No.	192352	192353	192354	192355	192356	192357	192358	192359	192360	192361	192362	192363	192364

HEXAGONAL**

⬡	10 $\Delta\Delta$	11 $\Delta\Delta$	12 $\Delta\Delta$	13 $\Delta\Delta$	14 $\Delta\Delta$	15 $\Delta\Delta$	16 $\Delta\Delta$	17 $\Delta\Delta$	18 $\Delta\Delta$	19 $\Delta\Delta$	20 $\Delta\Delta$	21 $\Delta\Delta$	22 $\Delta\Delta$
Id. No.	192365	192366	192367	192368	192369	192370	192371	192372	192373	192374	192375	192376	192377
⬡	23 $\Delta\Delta$	24 $\Delta\Delta$	25 $\Delta\Delta$	26 $\Delta\Delta$	27 $\Delta\Delta$	28 $\Delta\Delta$	29 $\Delta\Delta$	30 $\Delta\Delta$	31 $\Delta\Delta$	32 $\Delta\Delta$	33 $\Delta\Delta$	34 $\Delta\Delta$	35 $\Delta\Delta$
Id. No.	192378	192379	192380	192381	192382	192383	192384	192385	192386	192387	192388	192389	192390
⬡	36 $\Delta\Delta$	37 $\Delta\Delta$	38 $\Delta\Delta$	39 $\Delta\Delta$	40 $\Delta\Delta$	41 $\Delta\Delta$	42 $\Delta\Delta$	43 $\Delta\Delta$	44 $\Delta\Delta$	45 $\Delta\Delta$	46 $\Delta\Delta$	47 $\Delta\Delta$	48 $\Delta\Delta$
Id. No.	192391	192392	192393	192394	192395	192396	192397	192398	192399	192400	192401	192402	192403
⬡	49 $\Delta\Delta$	50 $\Delta\Delta$											
Id. No.	192404	192405											

Soft steel collets (pre-bored)

ROUND

Ø	8	20	40										
Id. No.	192406	192407	192408										

Boring ring 65 for soft steel collets

Id. No.	193400												
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* Concentricity similar DIN 6343.

** Concentricity has to be agreed.

Changing unit

Accessories	Size	COMOT 65
	Manual	196844
	Pneumatic	192153

Collets for COMOT 100

Steel collets with axial and radial grooves

ROUND*

Ø	42	43	44	45	46	47	48	49	50	51	52	53	54
Id. No.	195081	195082	195083	195084	195085	195086	195087	195088	195089	195090	195091	195092	195093
Ø	55	56	57	58	59	60	61	62	63	64	65	66	67
Id. No.	195094	195095	195096	195097	195098	195099	195100	195101	195102	195103	195104	195105	195106
Ø	68	69	70	71	72	73	74	75	76	77	78	79	80
Id. No.	195107	195108	195109	195110	195111	195112	195113	195114	195115	195116	195117	195118	195119
Ø	81	82	83	84	85	86	87	88	89	90	91	92	93
Id. No.	195120	195121	195122	195123	195124	195125	195126	195127	195128	195129	195130	195131	195132
Ø	94	95	96	97	98	99	100						
Id. No.	195133	195134	195135	195136	195137	195138	194742						

Steel collets with smooth clamping surface

ROUND*

Ø	42	43	44	45	46	47	48	49	50	51	52	53	54
Id. No.	195141	195142	195143	195144	195145	195146	195147	195148	195149	195150	195151	195152	195153
Ø	55	56	57	58	59	60	61	62	63	64	65	66	67
Id. No.	195154	195155	195156	195157	195158	195159	195160	195161	195162	195163	195164	195165	195166
Ø	68	69	70	71	72	73	74	75	76	77	78	79	80
Id. No.	195167	195168	195169	195170	195171	195172	195173	195174	195175	195176	195177	195178	195179
Ø	81	82	83	84	85	86	87	88	89	90	91	92	93
Id. No.	195180	195181	195182	195183	195184	195185	195186	195187	195188	194743	195189	195190	195191
Ø	94	95	96	97	98	99	100						
Id. No.	195192	195193	195194	195195	195196	195197	195198						

* Concentricity similar DIN 6343.

Changing unit

		Size	
	Accessories		COMOT 100
	Pneumatic		194744

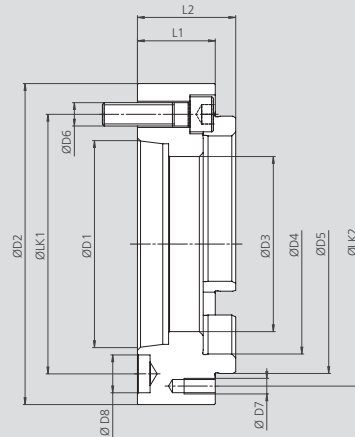
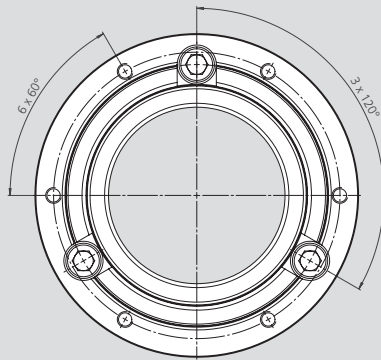
Adapters

■ COMOT have cylindrical mounting

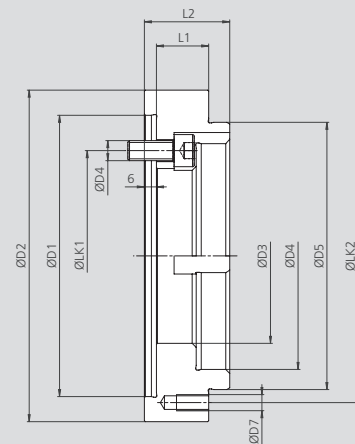
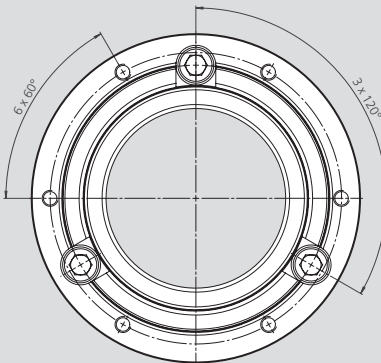
■ Adapters for DIN 55026 / ISO-A 702-1 / ISO-A 702-1 spindle noses

ISO-A for expanding mandrels

A



ZA



Subject to technical changes.
For more detailed information please ask our customer service.

Technical data

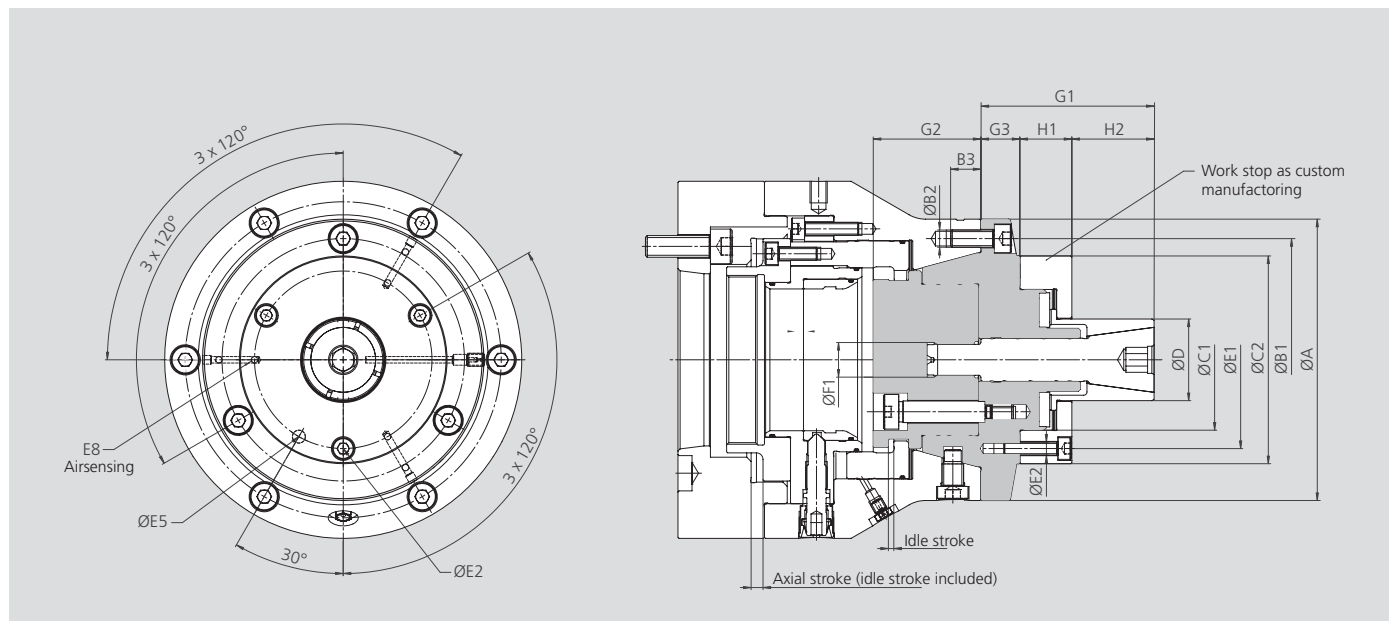
Id. No.	SMW-AUTOBLOK Type	Spindle head ISO 702-1 (A)	Spindle head ISO 702-4 (ZA)	D1	D2	D3	D4	D5	LK1	D6	LK2	D7	D8	L1	L2
9700220005	COMOT 42	mm	A5	-	82.563	144	65	90	110	104.8	3 x M10	126	6 x M8	16.3	48.5
9700220006		mm	A6	-	106.375	165	65	90	110	133.4	3 x M12	126	6 x M8	19.45	48.5
9700220140		mm	-	140	140	150	65	90	110	104.8	3 x M10	126	6 x M8	-	24
9700220170		mm	-	170	170	180	65	90	110	133.4	3 x M12	126	6 x M8	-	24
9700420005	COMOT 65	mm	A5	-	82.563	165	90	113	133	104.8	3 x M10	146	6 x M8	16.3	40
9700420006		mm	A6	-	106.375	165	90	113	133	133.4	3 x M12	146	6 x M8	19.45	40
9700420008		mm	A8	-	139.719	210	90	113	133	171.4	3 x M16	146	6 x M8	24.2	40
9700420140		mm	-	140	140	165	87	113	133	104.8	3 x M10	146	6 x M8	-	26
9700420170		mm	-	170	170	180	90	113	133	133.4	3 x M12	146	6 x M8	-	26
9700420220		mm	-	220	220	230	90	113	133	171.4	3 x M16	146	6 x M8	-	26
9700620006	COMOT 100	mm	A6	-	106.375	230	130 / 103	163	185	133.4	3 x M12	208	6 x M10	19.45	59
9700620008		mm	A8	-	139.719	230	130	163	185	171.4	3 x M16	208	6 x M10	24.2	54
9700620011		mm	A11	-	196.869	280	130	163	185	235	3 x M20	208	6 x M10	29.4	56
9700620170		mm	-	Z170	170	230	130	163	185	133.4	3 x M12	208	6 x M10	-	59
9700620220		mm	-	Z220	220	235	130	163	185	171.4	3 x M16	208	6 x M10	-	45

Ordering review (chuck with flange)

SMW-AUTOBLOK Type	COMOT-AZ-42	COMOT-NZ-42	COMOT-AZ-65	COMOT-NZ-65	COMOT-AZ-100	COMOT-NZ-100
Id No. Chuck without flange	9700210000	9720210000	9700410000	9720410000	9700610000	9720610000
A05	9700200005	9720200005	9700400005	9720400005	-	-
A06	9700200006	9720200006	9700400006	9720400006	9700600006	9720600006
A08	-	-	9700400008	9720400008	9700600008	9720600008
A11	-	-	-	-	9700600011	9720600011
Z140	9700200140	9720200140	9700400140	9720400140	-	-
Z170	9700200170	9720200170	9700400170	9720400170	9700600170	9720600170
Z220	-	-	9700400220	9720400220	9700600220	9720600220

Parts included: Collet chuck + Standard flange + mounting bolts

Extension sleeve mandrels EMX-F-CO for COMOT-AZ

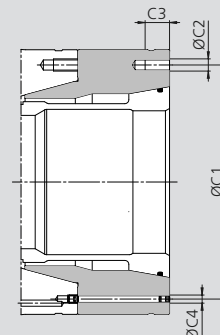
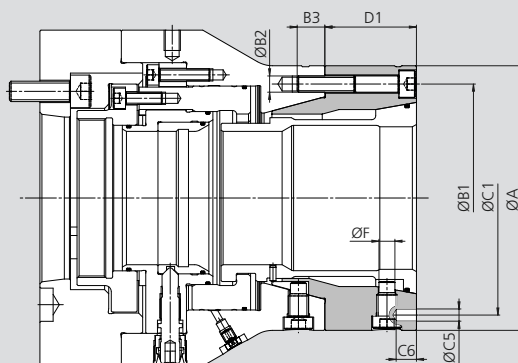
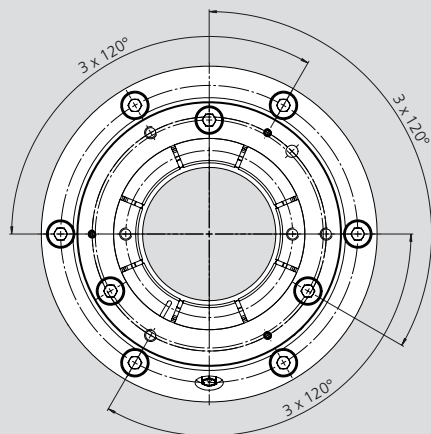


SMW-AUTOBLOK Chuck type		COMOT-AZ-42			COMOT-AZ-65				COMOT-AZ-100				
SMW-AUTOBLOK Mandrel type		EMX-F-1-CO-42	EMX-F-2-CO-42	EMX-F-3-CO-42	EMX-F-1-CO-65	EMX-F-2-CO-65	EMX-F-3-CO-65	EMX-F-4-CO-65	EMX-F1-CO-100	EMX-F2-CO-100	EMX-F3-CO-100	EMX-F4-CO-100	EMX-F5-CO-100
Id. No.		9700251100	9700251200	9700251300	9700451100	9700451200	9700451300	9700451400	9700651100	9700651200	9700651300	9700651400	9700651500
A		110			130				180				
B1		93			112				162				
B2		3 x M8			3 x M8				3 x M8	3 x M8	6 x M8	6 x M8	6 x M8
B3		12,6	12,6	14	12,6	12,6	12,6	12,6	12	12	12	12,6	12,6
C1		42	52	65	42	52	65	88	42	52	65	88	112
C2		110			130				130	130	130	180	180
D Clamping range		20 - 30	28 - 40	35 - 55	20 - 30	28 - 40	35 - 55	50 - 75	20 - 30	28 - 40	35 - 55	50 - 75	70 - 95
E1		65 / 93	75	90	65 / 112	75 / 112	90 / 112	112 / 162	65 / 112	75 / 112	90 / 112	112 / 162	162
E2 3 x 120° / depth / pitch circle E1		M6 / 12			M6 / 12			M8 / M6	M6 / 12	M6 / 12	M6 / 12	M8 / 16	M8 / 16
E4		65	75	90	65	75	90	112	65	75	90	112	135
E5 H7 / depth / pitch circle E4		Ø 6 / 12			Ø 6 / 12				Ø 6 / 12				
E7		65	75	90	65	75	90	115	65	75	90	112	135
E8 3 x 120° pitch circle E7		Ø3			Ø3				Ø3				
F1		M10 x 1	M14 x 1.5	M16 x 1.5	M10 x 1	M14 x 1.5	M16 x 1.5	M16 x 1.5	M10 x 1	M14 x 1.5	M16 x 1.5	M16 x 1.5	M20 x 1.5
G1		61	68	76	61	68	76	93	65	72	80	93	115
G2 Unclamped position		39	39,6	39	50	50,4	49,8	49,8	57	57,6	57	57	55
G3		16			16				20	20	20	16	16
H1 min.		18	18	22	18	18	22	25	18	18	22	25	30
H2 max.		27	34	38	27	34	38	52	27	34	38	52	69

SMW-AUTOBLOK Chuck type		COMOT-AZ-42			COMOT-AZ-65				COMOT-AZ-100				
Axial stroke chuck		5.5			5.5				8				
Idle stroke		2.5	2.7	2.5	2.5	2.7	2.5	2,5	5	5,6	5	5	3
Axial stroke mandrel		3	2,4	3	3	2,4	3	3	3	2,4	3	3	5
Expansion in Ø		0,6	0,6	0,8	0,6	0,6	0,8	0,8	0,6	0,6	0,8	0,8	1,2
Max. Actuating force in kN		12	20	25	12	20	25	25	12	20	25	25	30
Max. Clamping force radial in kN		61	90	113	61	90	113	113	61	90	113	113	159
Max. Speed r.p.m.		5000			4000				3500				

Note: Taper, Sleeve, disc see mandrel EMX-F.
A work stop must be specifically adapted to the workpiece.

Premium adapter PA COMOT



SMW-AUTOBLOK Chuck-Type			COMOT-AZ-65	COMOT-AZ-100
SMW-AUTOBLOK Premium adapter-Type			PA-65	PA-100
Id. No. Premium adapter			9700430000	9700630000
A	-0,02 / -0,05	mm	130	180
B1		mm	112	162
B2	3 x 120°		3 x M8	6 x M8
B3		mm	13.6	13.6
C1		mm	115	162
C2	3 x 120°		3 x M6	6 x M6
C3		mm	12	12
C4	3 x 120°		3 x M4	3 x M4
C5	H7	mm	6	6
C6		mm	10	10
D1		mm	45	55
F		mm	7.8	7.8