

## APPLICATION

Fan designed for transporting non-aggressive and non-explosive gases without contamination. Typical applications:

- pneumatic transport,
- blowing in drying systems (e.g. graphic machines, plastic processing),
- air blowing systems in combustion / heat treatment systems (e.g. melting furnaces),
- air transport in ventilation installations and technological lines.

## CONSTRUCTION

- high-pressure, centrifugal fan with direct drive,
- the impeller is welded from galvanized steel sheet with backward curved blades, dynamically balanced in accordance with ISO1940-1,
- welded sheet steel housing,
- painted in RAL 5010 (corrosivity category C3),
- maximum medium temperature 80°C,
- ambient temperature range from -20°C to +40°C,
- standard LG270 positions.

## MOTOR

- asynchronous, three-phase 230V/400V 50Hz (power to 2,2 kW),
- asynchronous, three-phase 400V/690V 50Hz (power from 4 kW),
- efficiency class IE3,
- degree of protection IP55,
- insulation class F,
- three-phase motors are adapted for frequency converter.

## ON REQUEST

- different positions LG/RD,
- painting in a different color,
- painting in higher category of corrosivity,
- maximum medium temperature above 80°C,
- ambient temperature range below -20°C and above +40°C,
- different motor voltage and frequency,
- different motor degree of protection,
- motor equipped with sensors or additional cooling,
- radial shaft sealing.

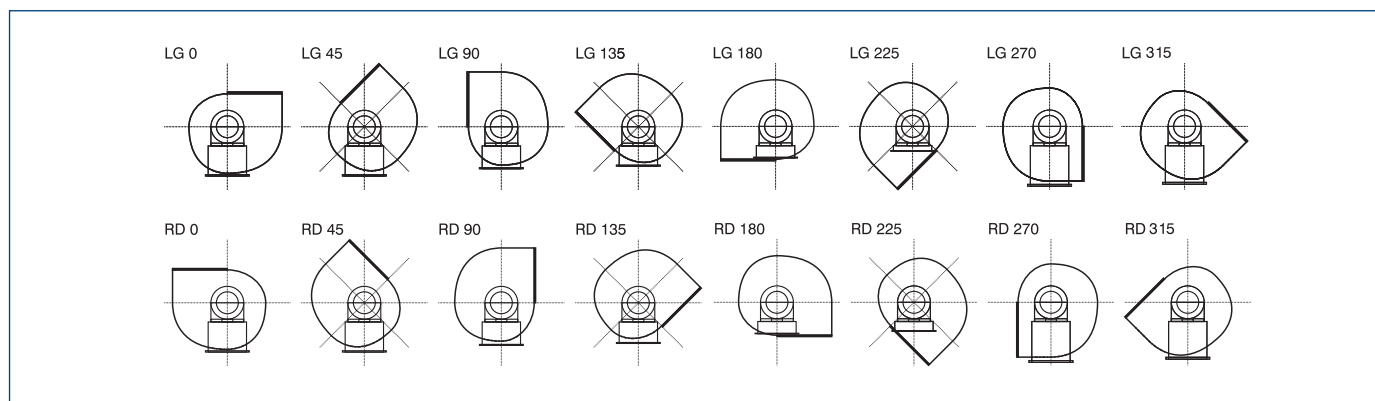


WWW



CE

## POSITIONS



## TECHNICAL CHARACTERISTICS

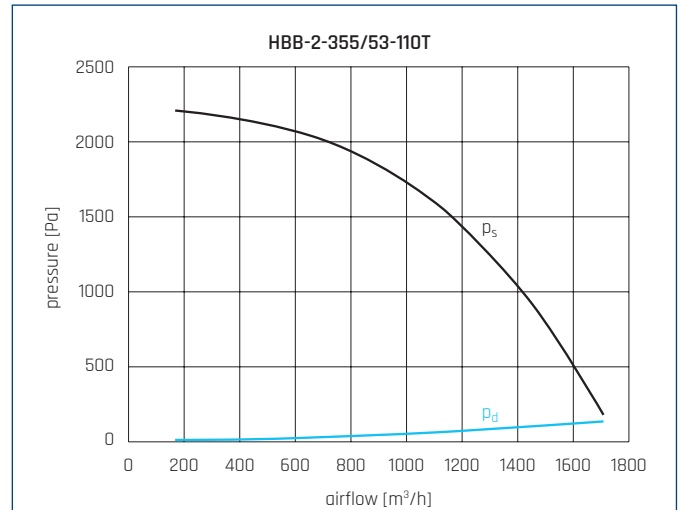
Type	airflow max	pressure max	maximum absorbed power	speed	maximum absorbed current	voltage	sound pressure level*	weight	ErP	article number
	[m³/h]	[Pa]	[kW]	[r.p.m.]	[A]	[V]	[dB(A)]	[kg]		
HBB-2-355/53-110T	1708	2180	1,1	2890	4,3/2,5	230/400	87	59	2015	435513010
HBB-2-400/63-220T	2606	2660	2,2	2885	7,9/4,6	230/400	97	73	2015	435513020
HBB-2-450/71-400T	3720	3320	4	2895	7,4/4,3	400/690	95	75	2015	435513030-08
HBB-2-500/85-750T	5500	4480	7,5	2830	13,8/8,0	400/690	98	152	2015	435513045
HBB-2-560/95-1100T	9520	5350	11	2945	19,6/11,3	400/690	98	191	2015	435513050
HBB-2-630/106-1850T	8830	6560	18,5	2955	32,8/19,0	400/690	101	257	2015	435513060
HBB-2-630/106-2200T	15900	6560	22	2955	39/22,5	400/690	104	305	2015	435513065
HBB-2-710/85-2200T	8993	7830	22	2955	39/22,5	400/690	105	356	2015	435513070
HBB-2-710/106-3000T	12220	7830	30	2965	53/31	400/690	108	390	2015	435513082
HBB-2-800/132-4500T	12980	10870	45	2972	63/36,5	400/690	110	672	2015	435513090
HBB-2-800/132-5500T	16350	10870	55	2969	92/54	400/690	111	750	2015	435513092
HBB-2-800/132-7500T	24300	10870	75	2978	126/73	400/690	117	947	2015	435513094

\* measured at a distance of 1,5m from the fan at  $q=2/3 \cdot q_{max}$

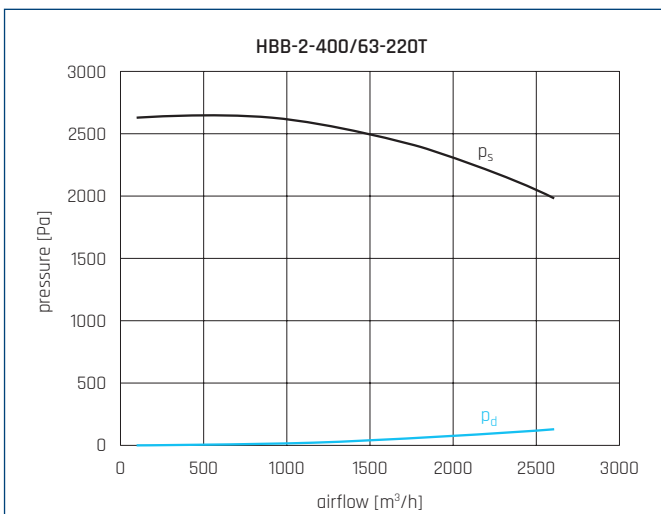
## PERFORMANCE CURVES

- $p_s$  - static pressure
- $p_d$  - dynamic pressure

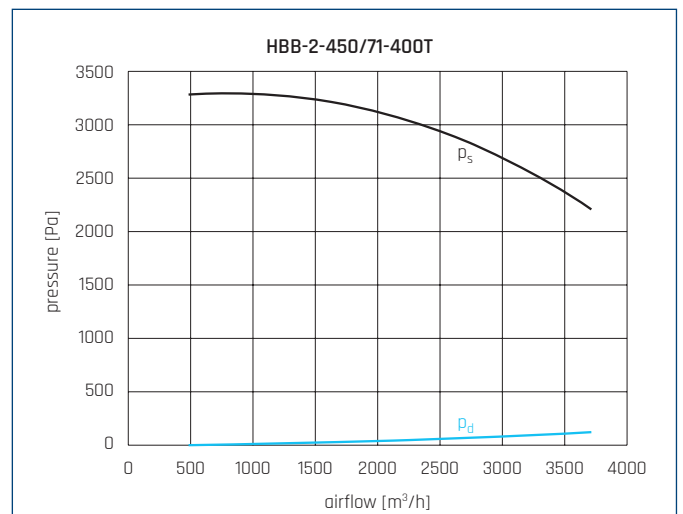
- MC Measurement category
- EC Efficiency category
- VSD Speed control: supplied with the fan
- SR Specific ratio
- $\eta$  [%] Efficiency
- N Efficiency grade
- [kW] Absorbed power
- [m³/h] Airflow
- [Pa] Static pressure
- [RPM] Speed



MC	EC	VSD	SR	$\eta$ [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	72,2	83,8	0,781	932	2180	2952

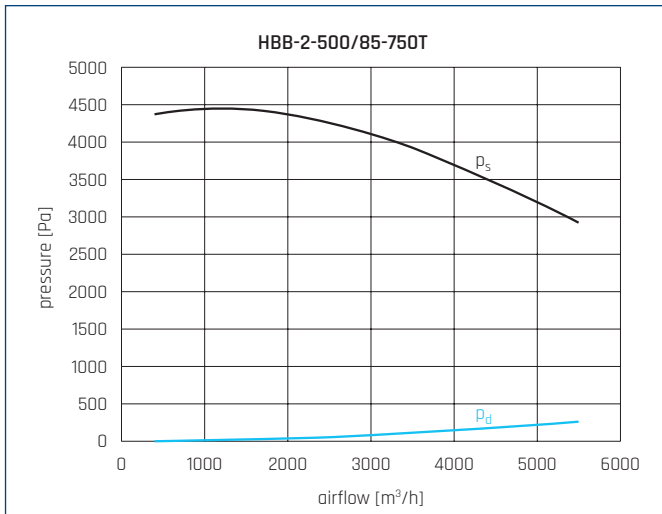


MC	EC	VSD	SR	$\eta$ [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	62,8	69,8	2,14	2032	2382	2880

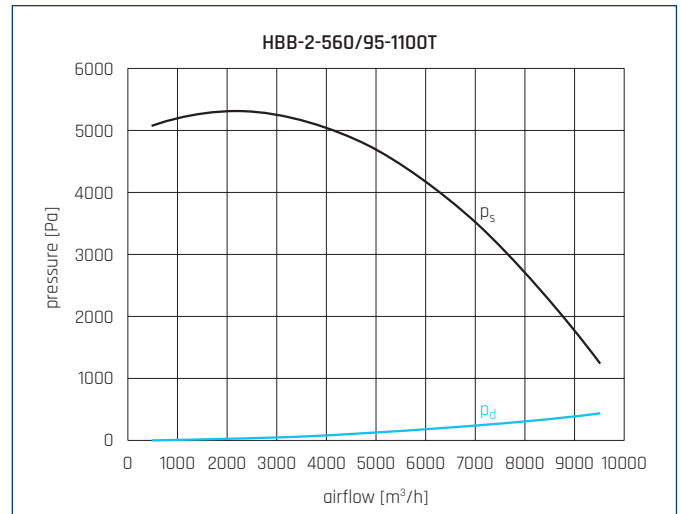


MC	EC	VSD	SR	$\eta$ [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	56,2	61,0	3,46	2288	3058	2925

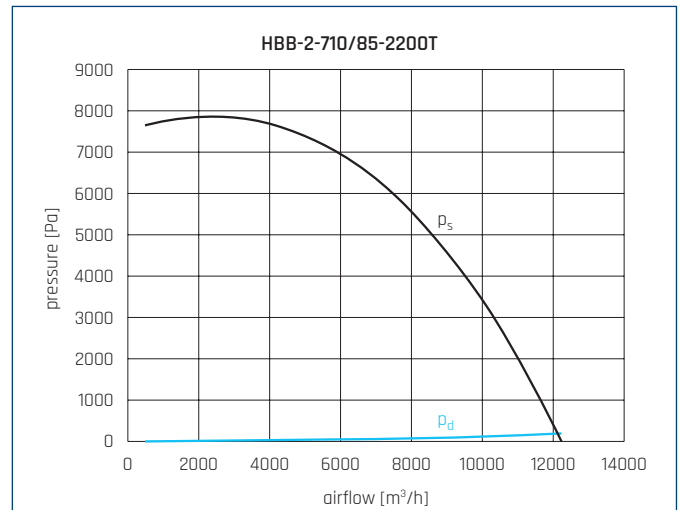
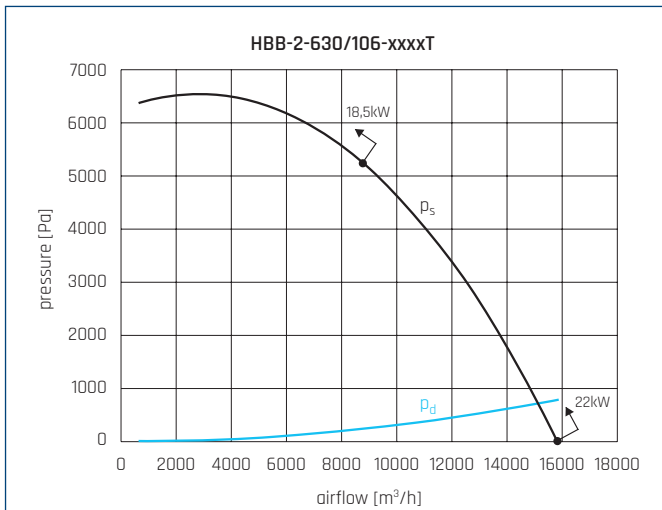
## PERFORMANCE CURVES



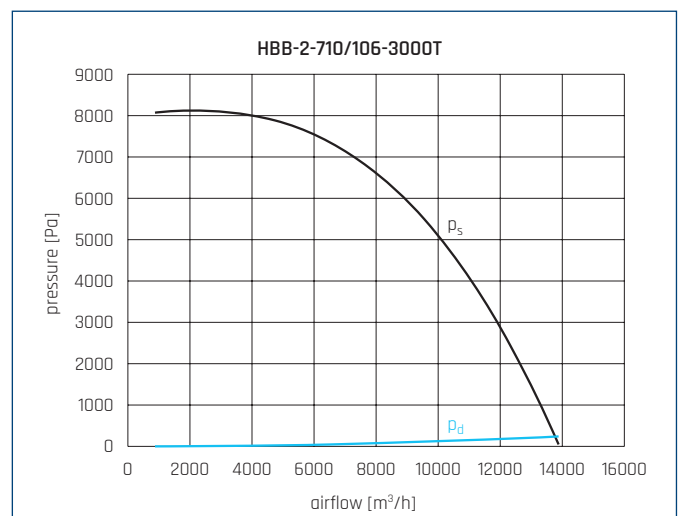
MC	EC	VSD	SR	$\eta$ [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	62,24	64,3	6,42	3419	4214	2930



MC	EC	VSD	SR	$\eta$ [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	68,21	72,2	8,86	4817	4582	2961

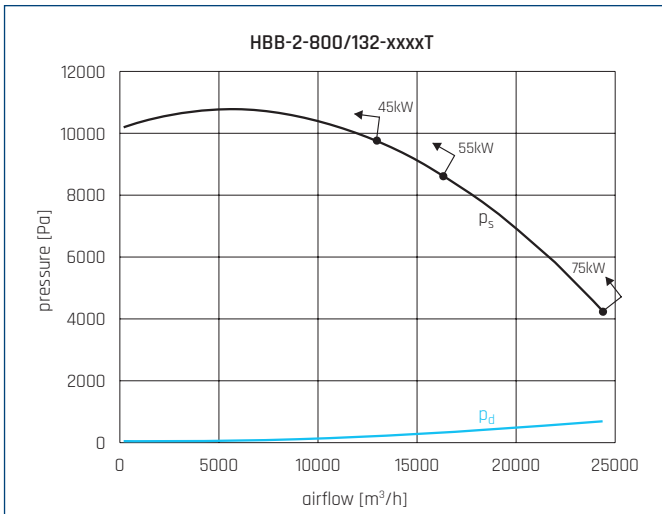


MC	EC	VSD	SR	$\eta$ [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	No	1	62,1	61,5	18,021	5846	6925	2900

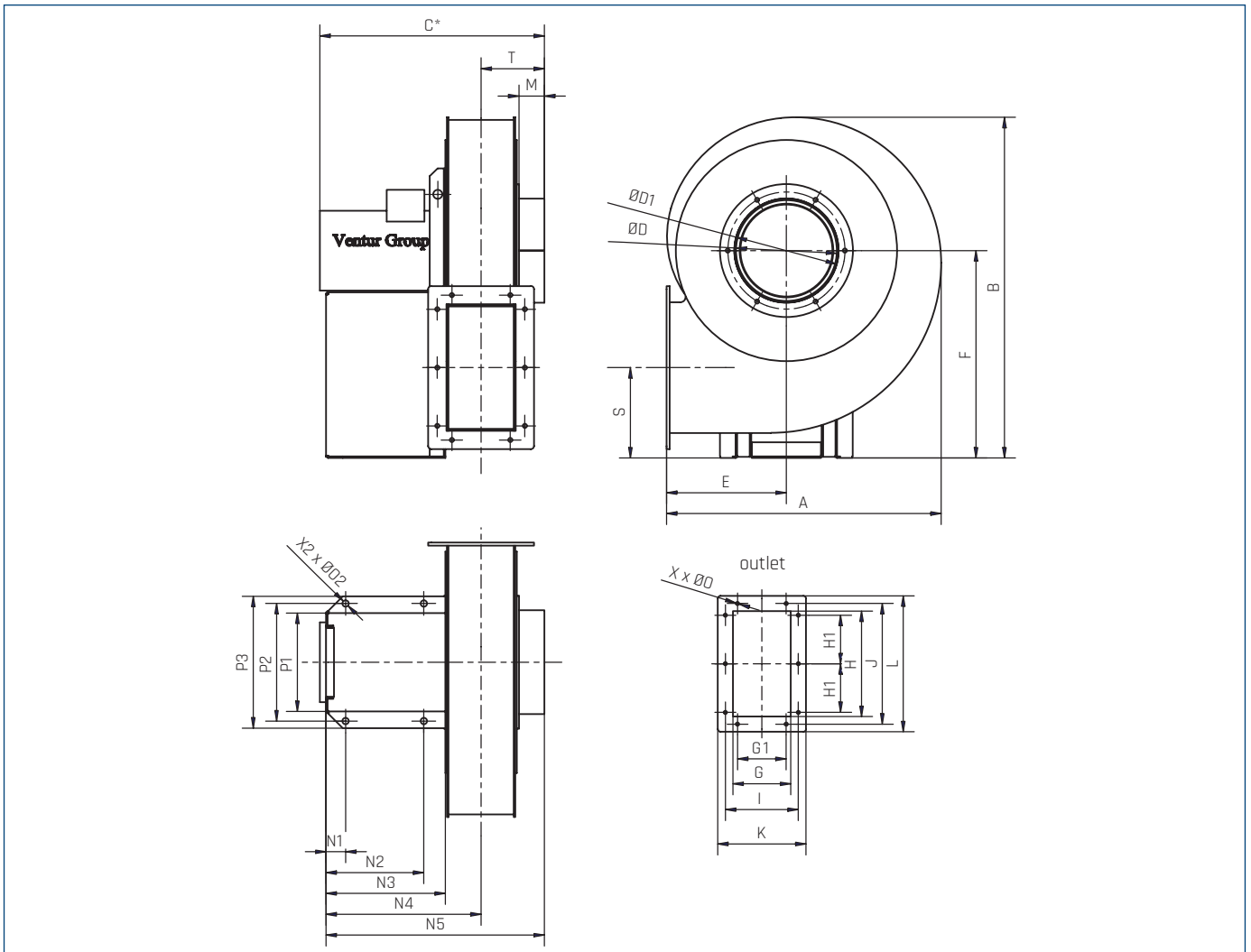


MC	EC	VSD	SR	$\eta$ [%]	N	[kW]	[m³/h]	[Pa]	[RPM]
C	Static	Yes	1	69,3%	68,65	19,24	6 390	7 509	2950

## PERFORMANCE CURVES



## DIMENSIONS [mm]

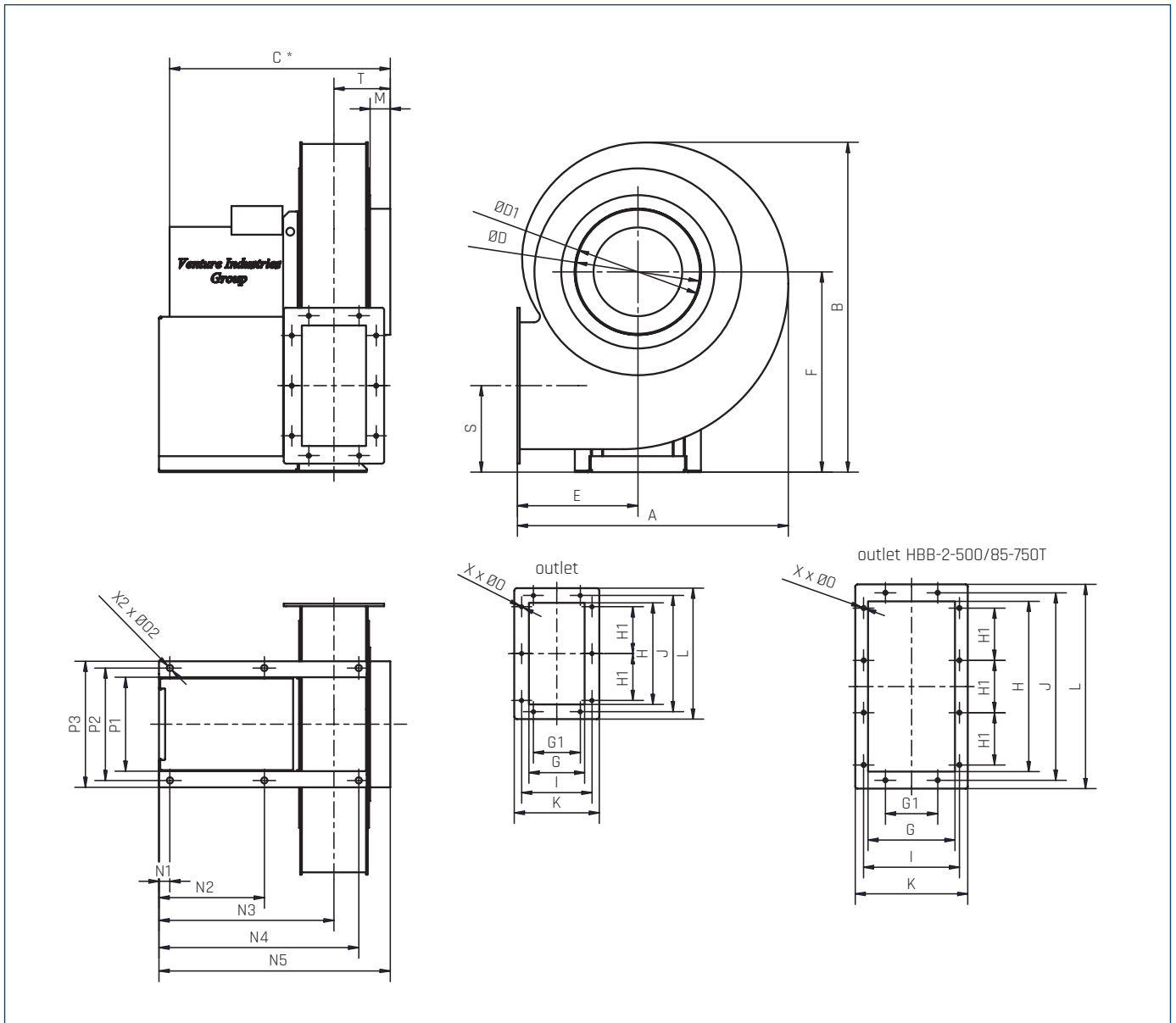


Type	A	B	C*	ØD	ØD1	E	F	G1	G	H1	H	I	J	K	L	M	N1	N2	N3	N4	N5
HBB-2-355/53-110T	527	654	422	193	199	230	398	112	125	112	235	168	278	203	313	49	37	187	229	297	419

Type	P1	P2	P3	S	T	X	Ø	X2	Ø02
HBB-2-355/53-110T	189	226	253	173	122	10	8	4	12

\* dimension C dependent on the used motor

## DIMENSIONS [mm]

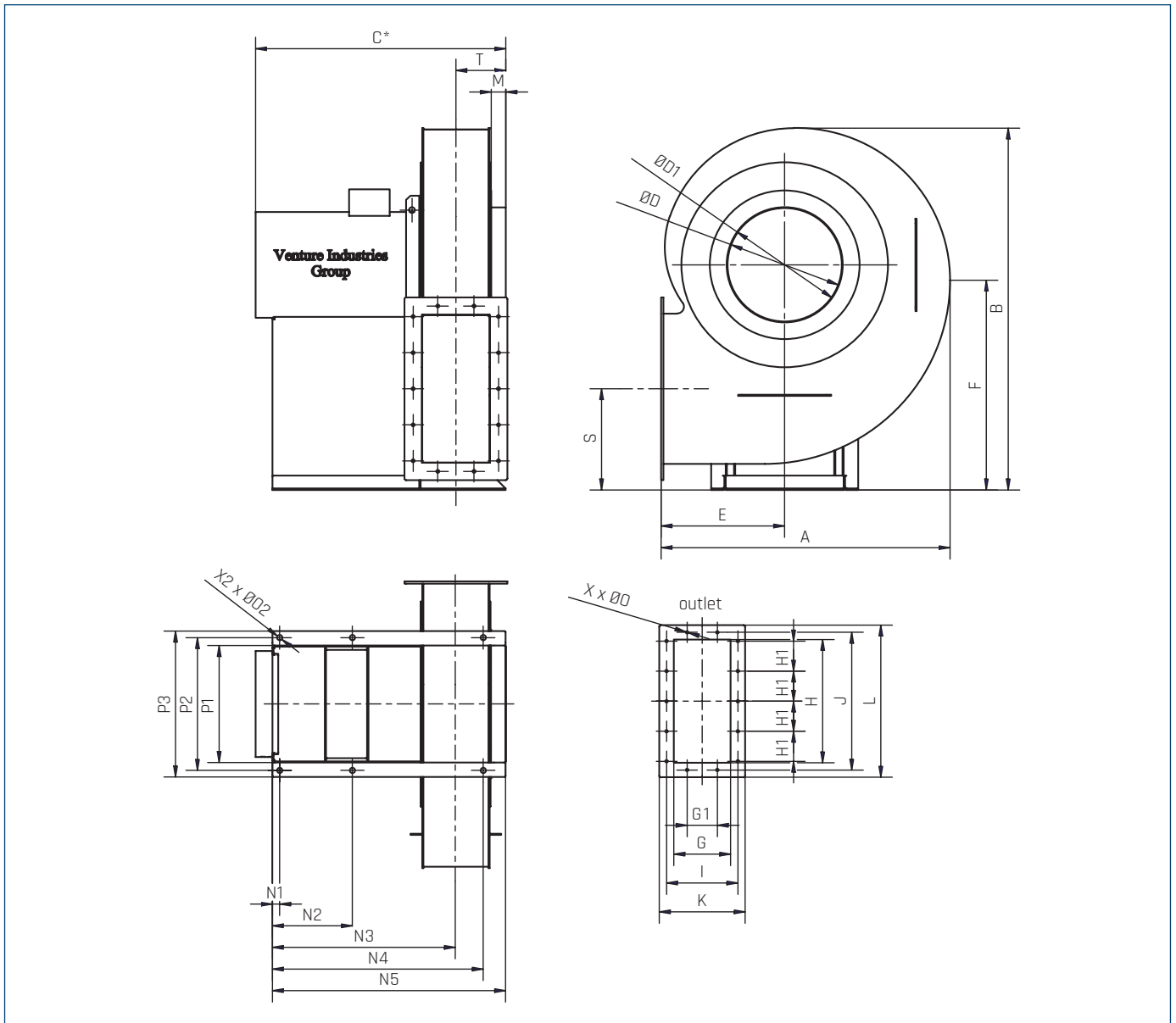


Type	A	B	C*	Ø0	Ø01	E	F	G1	G	H1	H	I	J	K	L	M	N1	N2	N3	N4	N5
HBB-2-400/63-220T	629	804	516	243	249	265	500	125	158	125	328	158	368	238	408	49	31	221	361	411	497
HBB-2-450/71-400T	675	819	550	308	314	300	499	125	170	125	308	210	348	248	386	50	27	262	435	497	575
HBB-2-500/85-750T	899	1003	677	308	314	452	609	125	201	125	400	229	448	269	488	53	25	225	542	575	705
HBB-2-560/95-1100T	786	940	781	348	354	359	560	125	201	125	323	251	363	291	403	50	46	371	618	696	781

Type	P1	P2	P3	S	T	X	Ø0	X2	Ø02
HBB-2-400/63-220T	196	240	276	227	136	10	10	6	12
HBB-2-450/71-400T	250	280	314	215	140	10	10	6	15
HBB-2-500/85-750T	308	360	394	308	163	12	10	6	15
HBB-2-560/95-1100T	365	420	465	237	163	10	10	6	18

\* dimension C dependent on the used motor

## DIMENSIONS [mm]

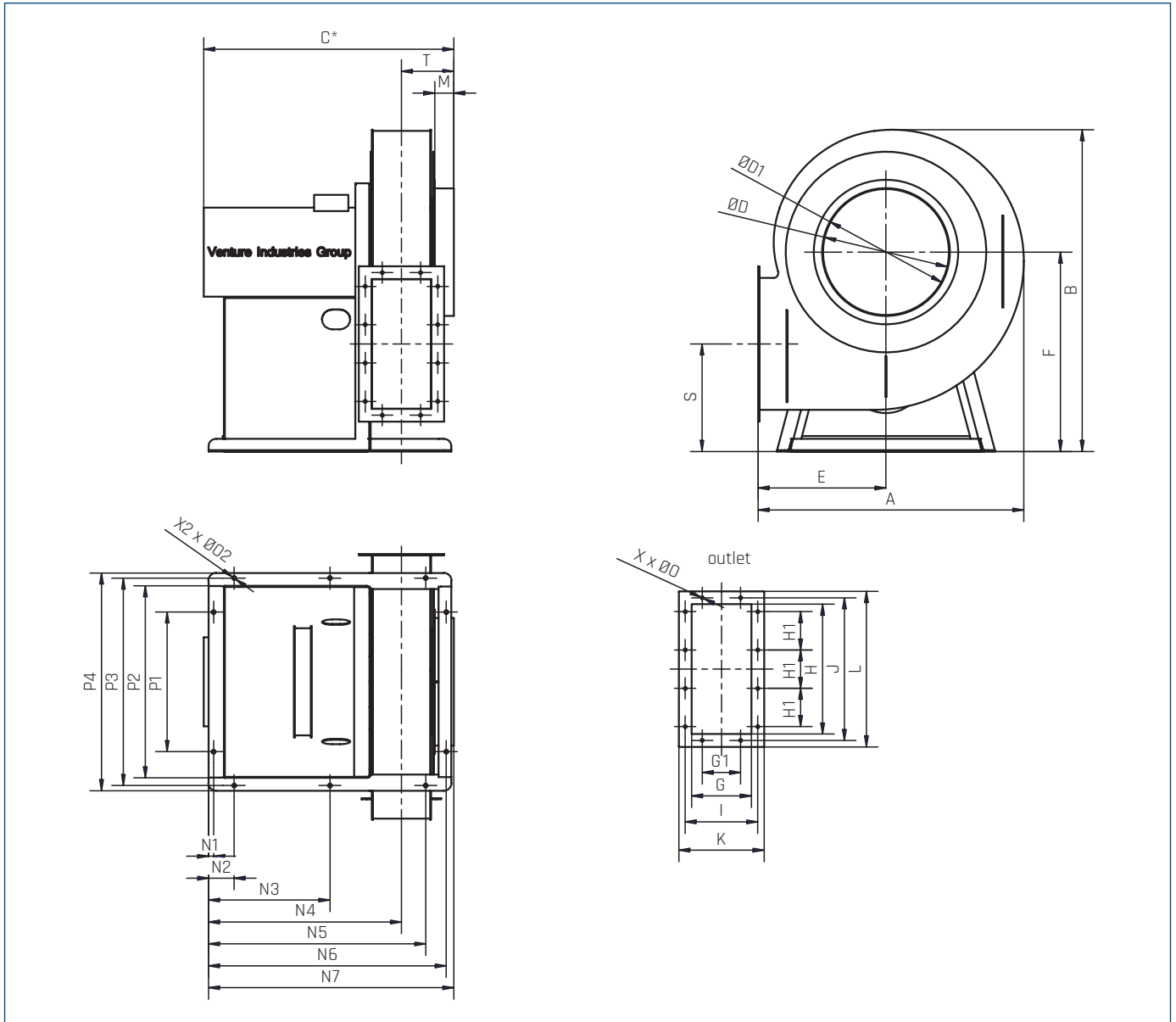


Type	A	B	C*	$\varnothing D$	$\varnothing D1$	E	F	G1	G	H1	H	I	J	K	L	M	N1	N2	N3	N4	N5
HBB-2-630/106	994	1254	849	393	399	425	780	125	224	125	500	294	573	354	633	50	25	275	631	725	803

Type	P1	P2	P3	S	T	X	$\varnothing 0$	X2	$\varnothing 02$
HBB-2-630/106	425	460	505	351	174	14	10	6	18

\* dimension C dependent on the used motor

## DIMENSIONS [mm]

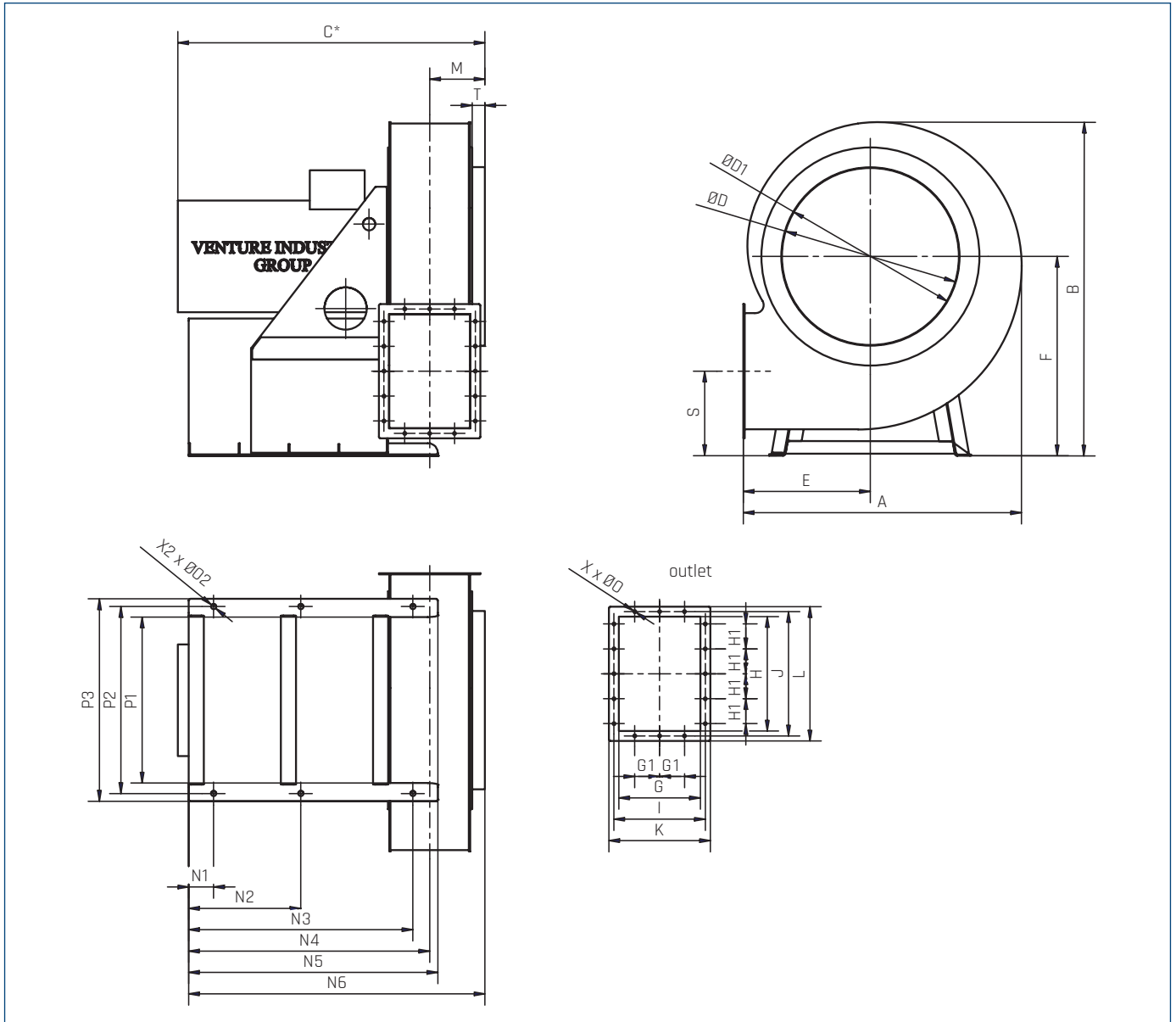


Type	A	B	C*	$\emptyset D$	$\emptyset D1$	E	F	G1	G	H1	H	I	J	K	L	M	N1	N2	N3	N4	N5	N6	N7
HBB-2-710/85-2200T	1019	1291	862	493	499	443	805	125	208	125	531	270	592	330	652	75	36	436	683	836	868	930	960
HBB-2-710/106-3000T	1040	1259	972	493	499	500	780	150	234	150	508	284	558	333	607	75	100	475	755	850	930	930	954

Type	P1	P2	P3	P4	S	T	X	$\emptyset 0$	X2	$\emptyset 02$
HBB-2-710/85-2200T	428	491	536	388	185	14	12	6	18	15
HBB-2-710/106-3000T	546	752	812	852	421	199	12	15	10	15

\* dimension C dependent on the used motor

## DIMENSIONS [mm]



Type	A	B	C*	$\varnothing D$	$\varnothing D1$	E	F	G1	G	H1	H	I	J	K	L	M	N1	N2	N3	N4	N5	N6
HBB-2-800/132-xxxxT	1117	1339	1238	710	716	510	800	100	327	100	459	367	499	407	539	51	100	450	900	968	1000	1189

Type	P1	P2	P3	S	T	X	$\varnothing 0$	X2	$\varnothing 02$
HBB-2-800/132-xxxxT	684	750	812	339	222	16	12	6	21

\* dimension C dependent on the used motor