

CEP SERIES DOUBLE SUCTION SPLIT CASE PUMPS

TECHNICAL DETAILS:

- The Turbo-CEP series pumps designed for general purposes are made of double entry, single stage with casings axially split.
- Mounting arrangements are available in both horizontal and vertical forms.
- Removal of upper half of the casings allows easy pump inspection, maintenance and removal of entire rotating elements without disturbing piping or motor and pump alignment.
- Turbo-CEP series are fitted with casing wear rings with impeller wear rings provided on request.
- Turbo-CEP series pumps cover the range from 15 up to 3000 litres/sec with manometric head from 8 to 175 meters.
- Pumps are assembled for clockwise rotation when seen from drive end. Direction of rotation can be changed optionally.
- Operating temperature: -10°C up to +120°C
- Shafts of CEP series pumps are supported by 3 heavy duty type bearings which are greas lubricated as standard, oil lubrication available optionally.

- CEP series pumps have specially designed high efficiency (EFF)double suction, closed type impellers with curved vanes.



CEP SERIES PUMPS OPERATION RANGE : Qmax : 9500 m3/h Hmax : 180 m

COMPONENT	MATERIAL	
	BRONZ VERSION	CAST IRON VERSION
Casing	Cast iron (GJL 250) (EN-JL 1040)	Cast iron (GJL 250) (EN-JL 1040)
Impeller	Bronze / AISI 316	Cast iron (GJL 250) (EN-JL 1040)
Wear ring	Bronze	Cast iron (GJL 250) (EN-JL 1040)
Shaft	Stainless steel (AISI 420) (1.4021)	Carbon steel (1.0501)
Shaft sleeve	Stainless steel (AISI 420) (1.4021)	Stainless steel (1.4021)
Shaft sealing	Soft packing / Mechanical seal	Soft packing / Mechanical seal
Painting	RAL 5010	RAL 5010

- Different materials (Duplex Steel, AINi Bronze, AISI 316, Cast Steel, etc.) are available according to fluid specifications.

FIELDS OF APPLICATION

Turbo-CEP series pumps are suitable for

- Water Supply
 - Irrigation and spraying systems,
 - Drinking water supplies to buildings, communities and towns,
 - Pumping liquids with low viscosity (i.e gasoline, oil, acid base etc.) in industries,
- Cooling water systems,
 - Industrial plants on duty 24 hours a day, like Iron & Steel works.
 - Paper and cellulose industries.

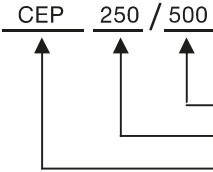
CEP V DOUBLE SUCTION VERTICAL SPLIT CASE PUMPS:

- The hydraulic characteristics and available sizes are same as Turbosan CEP series horizontal split case pumps.
- Vertical mounting arrangement allows drive motor to be mounted vertically, this is an advantage in installations where effective use of space is crucial.
- Drive motors can be mounted on CEP V series pumps by means of motor stool, or motor and pump can be connected by cardan shaft.
- Pump bases are of cast iron or sheet metal construction depending on pump size, where as motor stools are of sheet metal construction.

IMPELLER

- Due to the impeller being of double suction:
No axial thrust exerted on bearings
Pump can be operated at relatively unfavourable suction conditions.
- Every impeller is balanced statically and dynamically, according to ISO 1940 class 6,3.

DESIGNATION



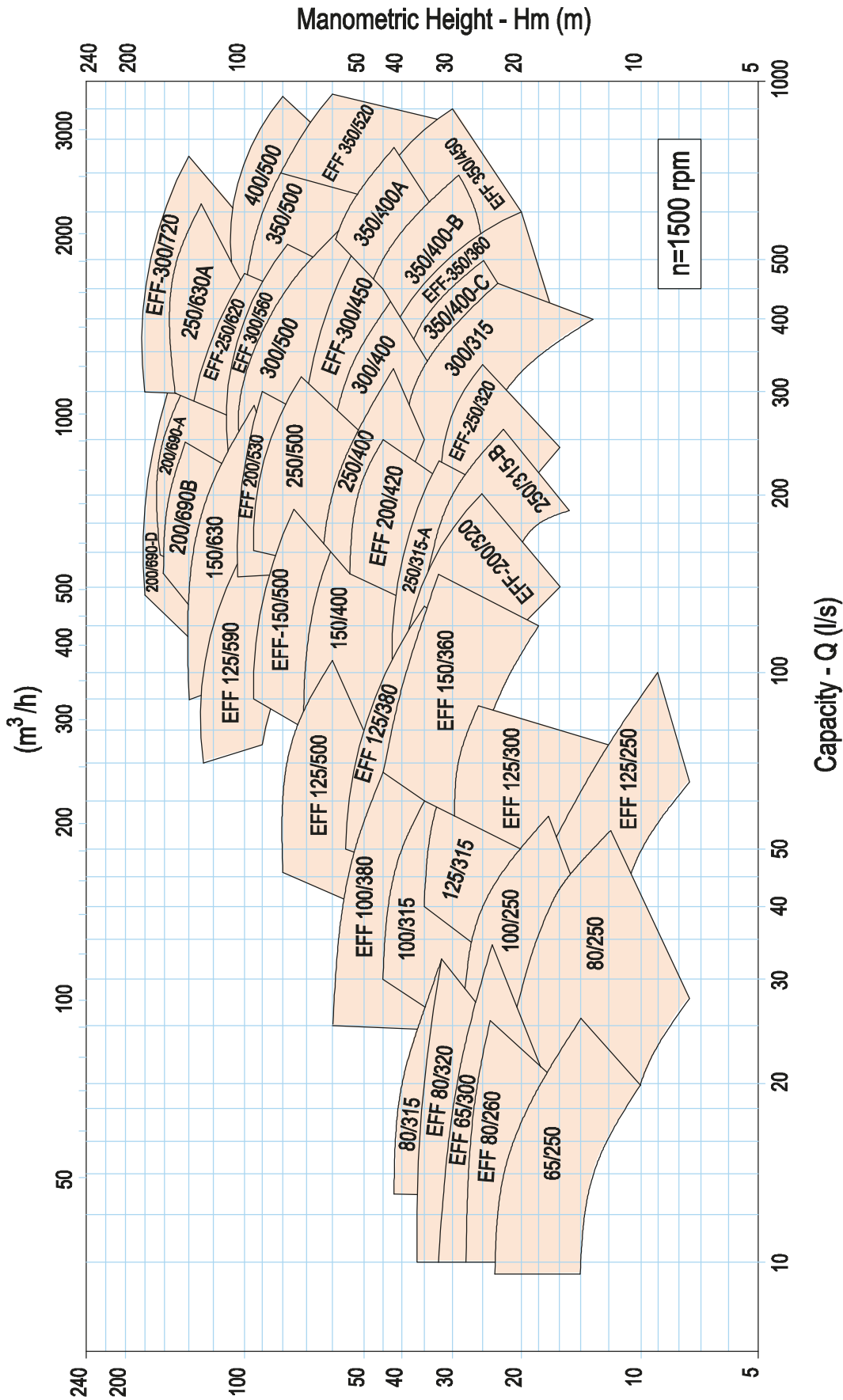
Impeller diameter
Discharge diameter
Pump type



Vertical execution

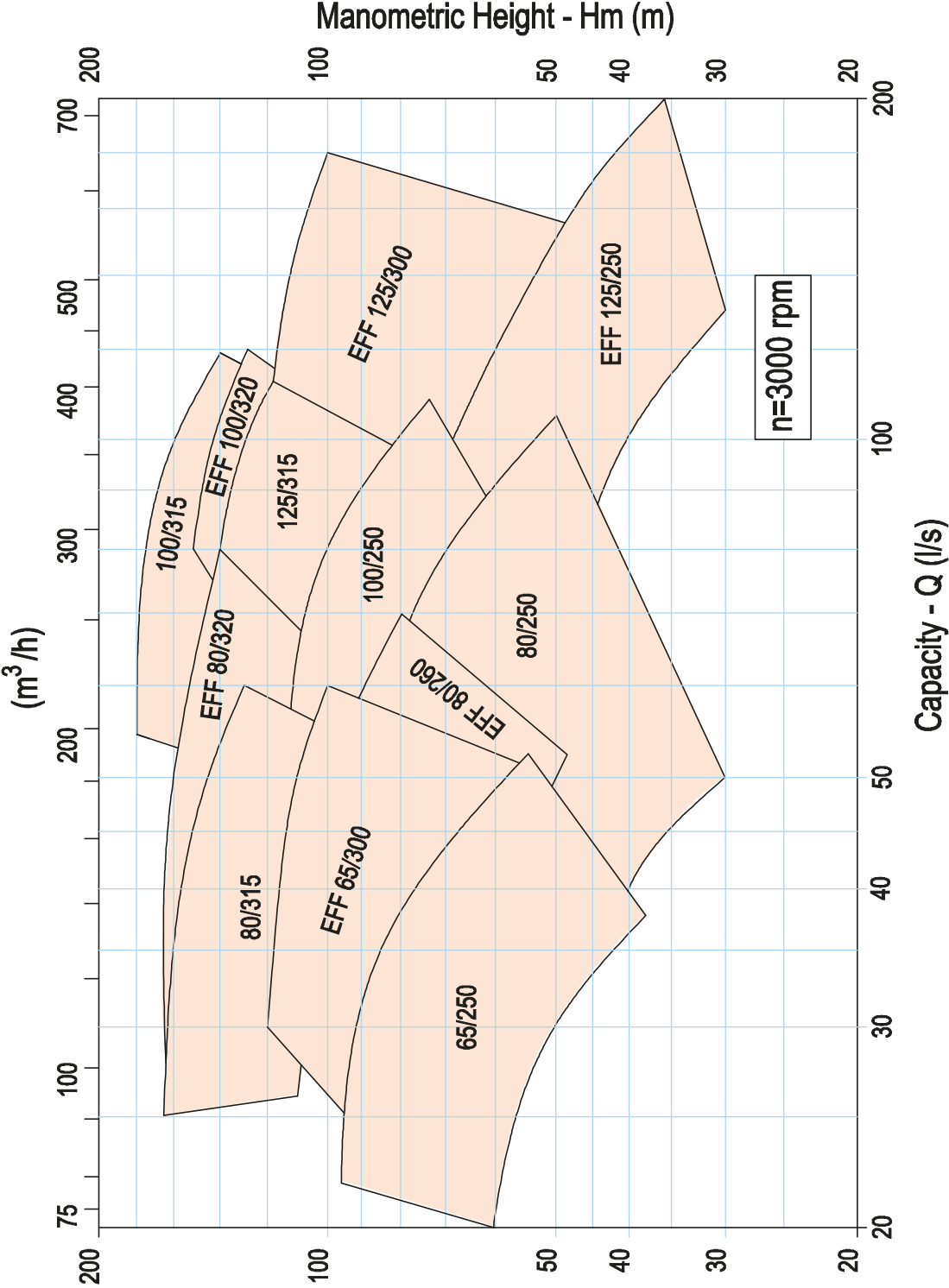
CEP SERIES PUMPS
GROUP PERFORMANCE CURVES

DOUBLE SUCTION SPLIT CASE PUMPS PERFORMANCE CURVES

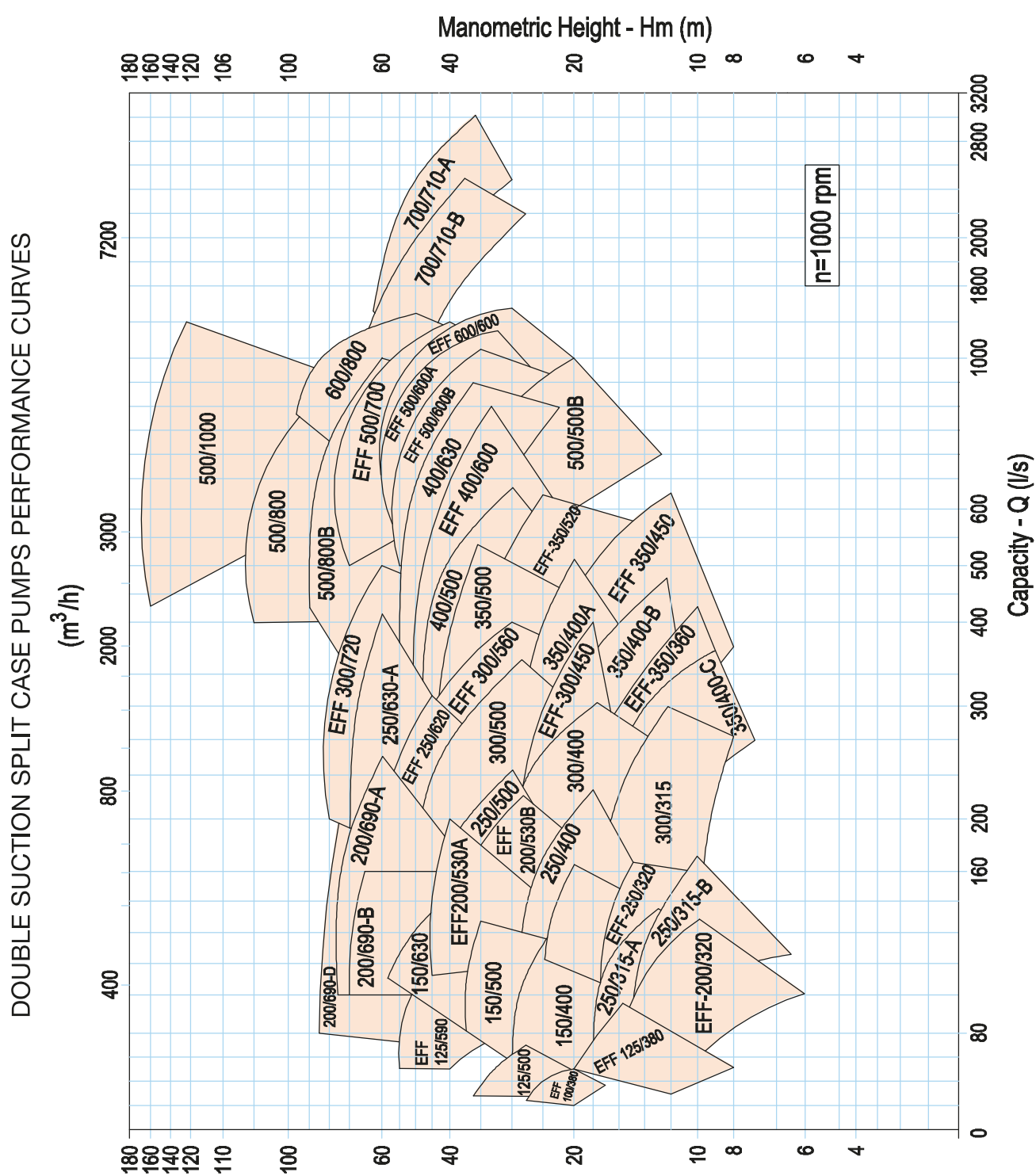


CEP SERIES PUMPS
GROUP PERFORMANCE CURVES

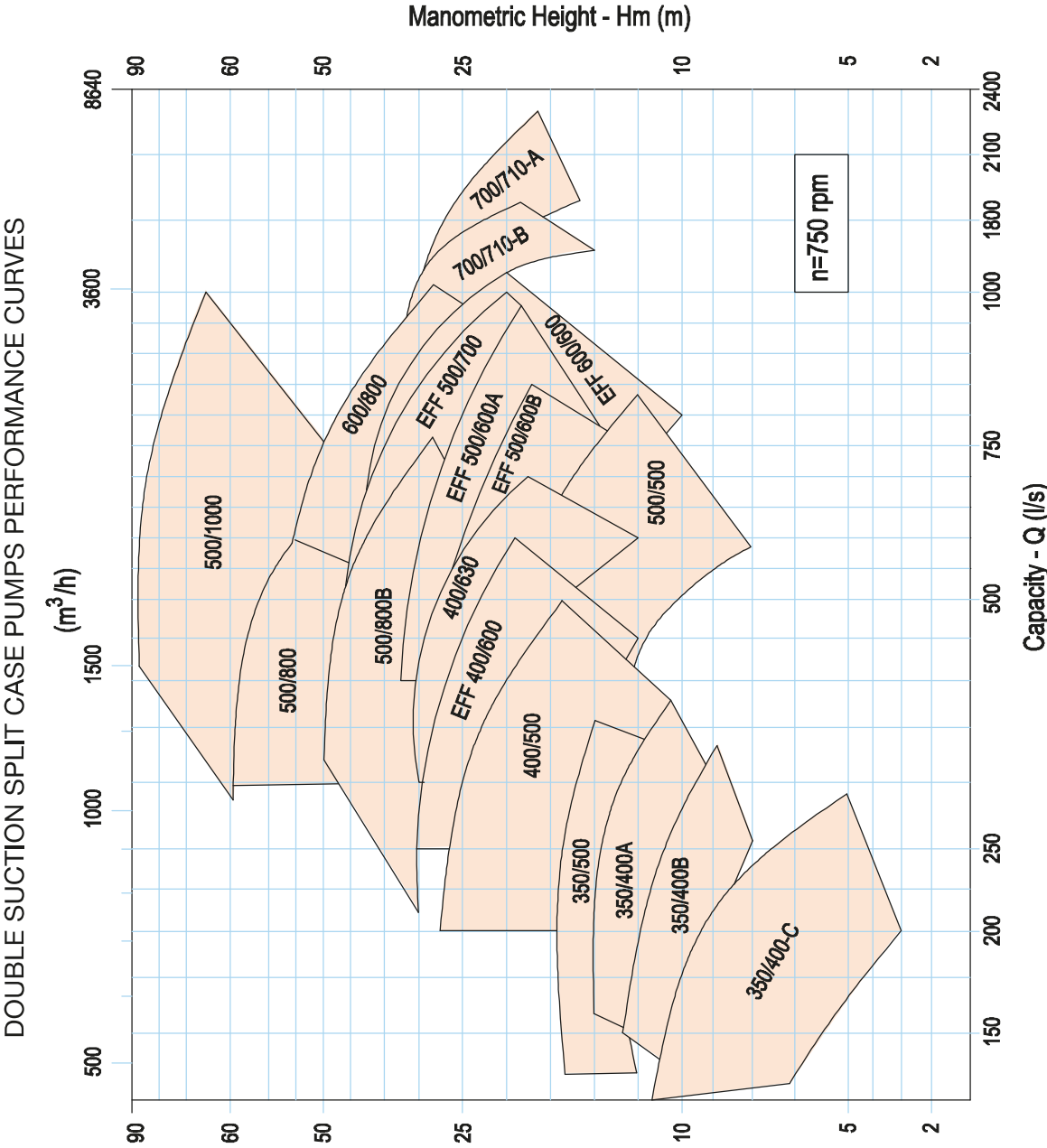
DOUBLE SUCTION SPLIT CASE PUMPS PERFORMANCE CURVES



CEP SERIES PUMPS GROUP PERFORMANCE CURVES

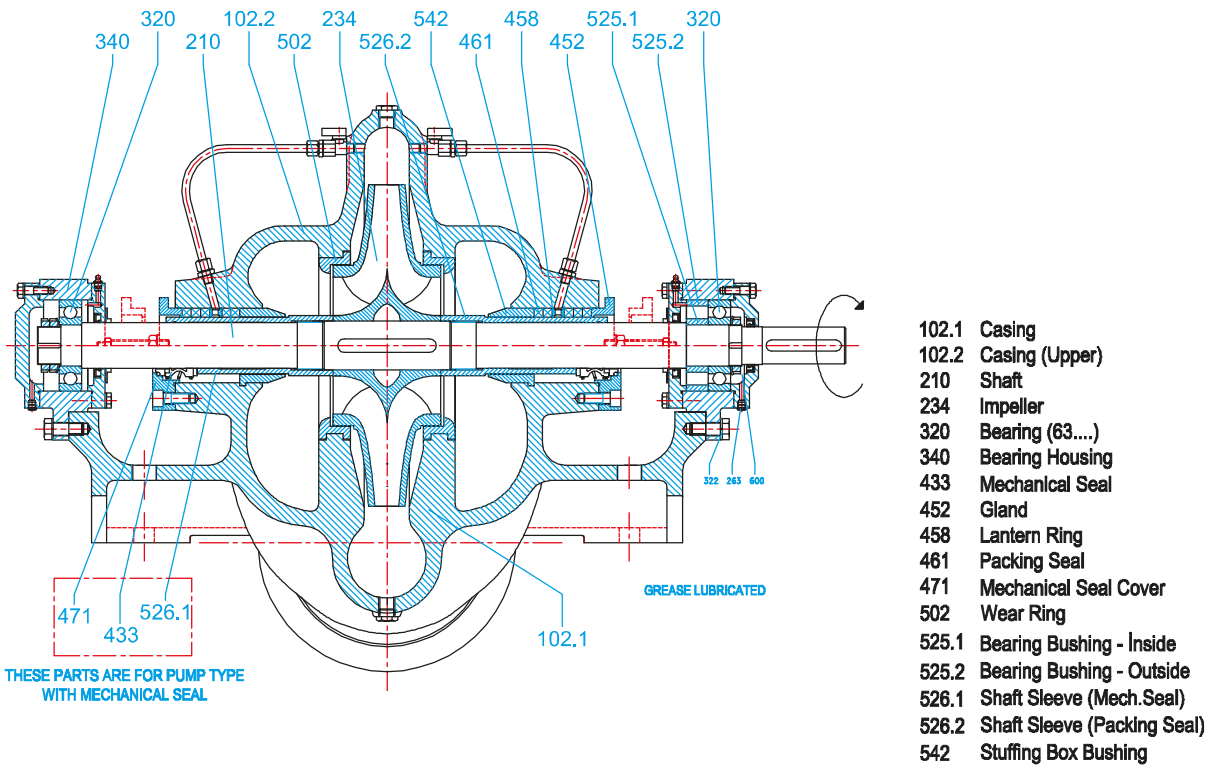


CEP SERIES PUMPS
GROUP PERFORMANCE CURVES

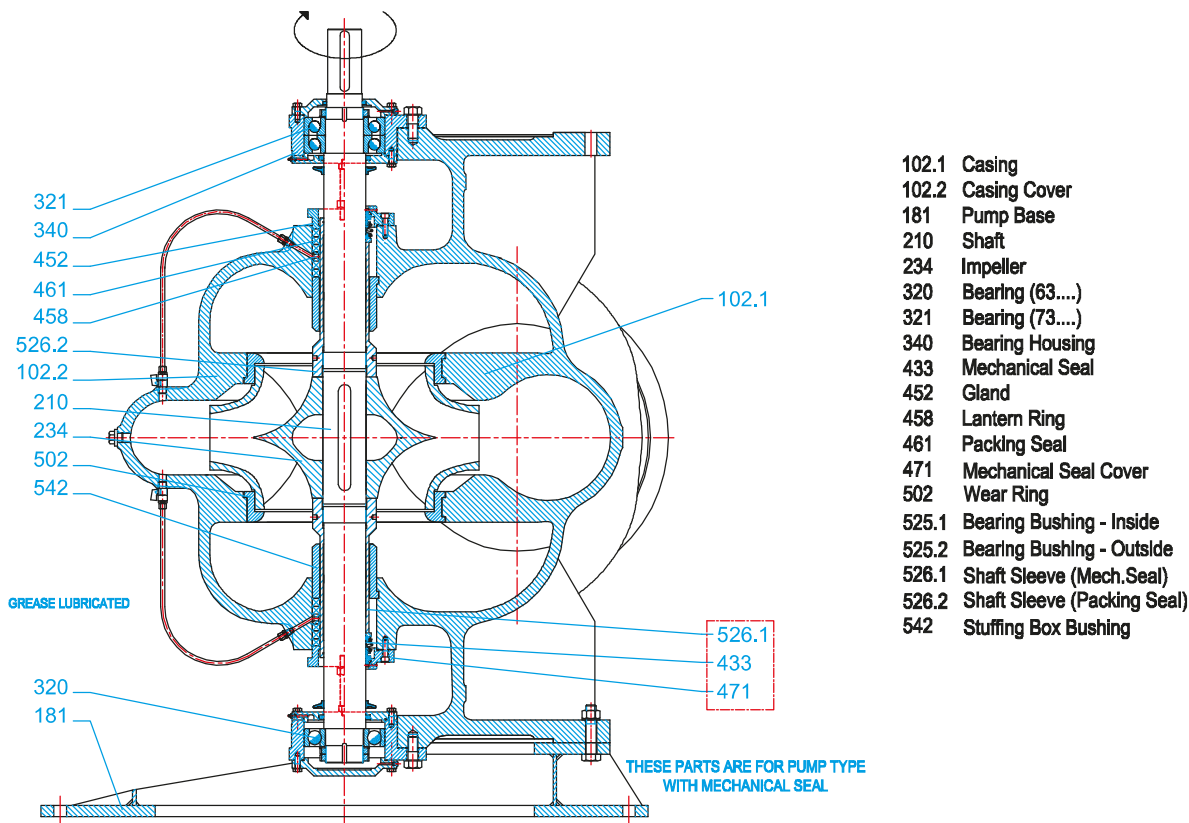


CEP SERIES PUMPS CROSS SECTIONAL
DRAWING & PARTS LIST

CEP SERIES HORIZONTAL PUMPS CROSS SECTIONAL DRAWING AND PARTS LIST

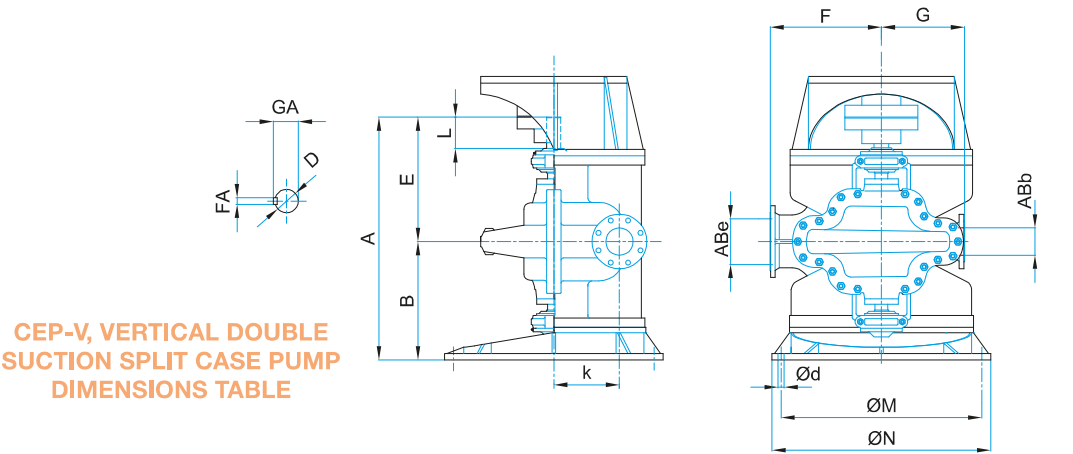


CEP - V SERIES VERTICAL PUMPS CROSS SECTIONAL DRAWING AND PARTS LIST



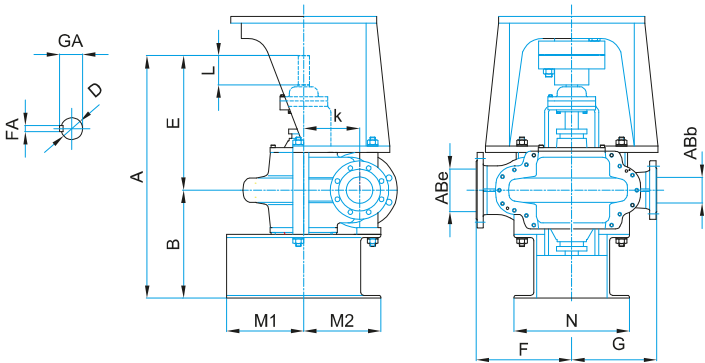
NOTE : Cross sectional drawing is for information, actual part list subject to change according to ordered type construction

VERTICAL SPLIT CASE CEP-V PUMPS
DIMENSIONS TABLE



PUMP TYPE	Discharge	Suction	A	B	E	F	G	N	M	Ød	Piece	k	L	D	GA	FA	GROUP
	ABb	ABe															
CEP 125/315	125	200	975	490	485	370	370					200					
CEP 150/400			1095	545	550	455	395					230	110	48	51.5	14	
CEP 150/630	150	250	1305	575	685	600	450					245	140	64	68	18	
CEP 200/690	200		1455	595	705	700	550	1200	1100	33	8	250	150	70	74.5	20	A
CEP 250/315		300	1170	535	635	450	400										
CEP 250/400	250		1160	530	630	550	450					225	140	64	68	18	
CEP 250/500						500	500										
CEP 250/630	250	400	1770	875	895	695	510					390	210	95	100	25	
CEP 300/315			1450	750	700	585	508					315	140	64	68	18	
CEP 300/400	300	350	1385	730	655	505	500					250	150				
CEP 300/500			1430		695	580	550					315					
CEP 350/400	350	400	1520	785	735	600	500	1625	1520	33	8		140	70	74.5	20	B
CEP 350/500						650	550										
CEP 400/400						705	505					355	150				
CEP 400/500	400	500	1670	855	815	680	550										
CEP 400/630			1750	885	865							450	170	90	95	25	
CEP 500/500	500	600	1825	910	915	800	650										
CEP 500/800	500	600	2005	1010	995	905	805	2200	2000	33	8	545					
CEP 600/800	600	700	2255	1110	1145	875	875					695	210	105	111	28	C
CEP 700/700	700	800	2650	1330	1320	1400	800					620					

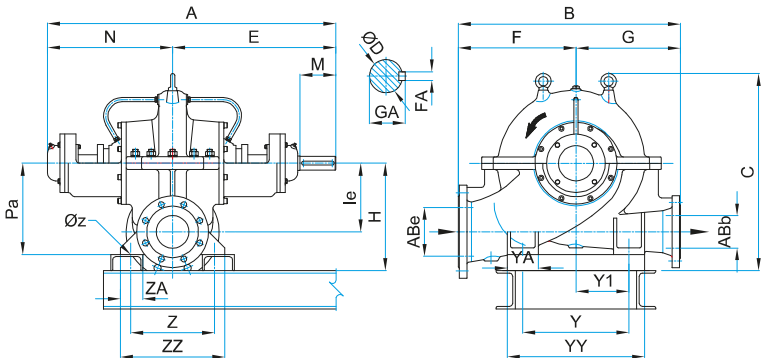
NOTE :
1) Dimensions "mm". Turbosan reserves right to make any changes in dimensions without giving prior notice.
2) Flanges conforming to DIN 2501 and TS EN 1092-2
3) Please consult Turbosan for other pumps size.



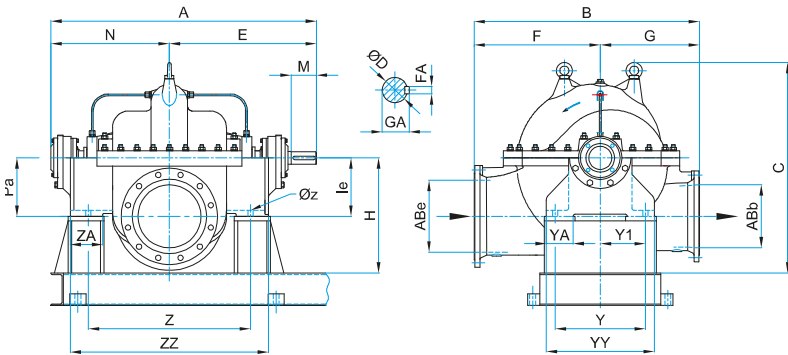
PUMP TYPE	ABb	ABe	A	B	E	M1	M2	F	G	N	k	L	D	GA	FA
CEP 65/250	65	100	575	260	315	190	190	280	225	330	130		28	31	8
CEP 80/250	80	125	685	370		250	250			380		60			
CEP 80/315			810		340	240	240	300	280	370	165		34	37	10
CEP 100/250			760	350	410	285	285	310	300	325	185	100	42	45	12
CEP 100/315	100	150	905	405	500	300	300	360	320	435	210	110			

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HORIZONTAL SPLIT CASE PUMP
DIMENSIONS TABLE



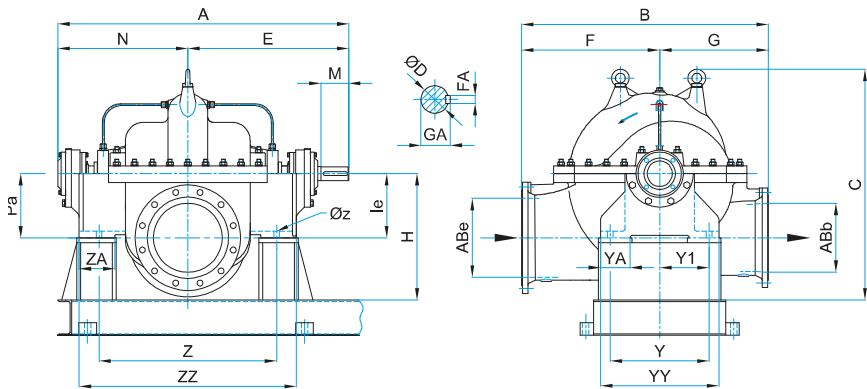
PUMP TYPE	ABb	ABe	A	B	C	N	E	F	G	H	Ie	Pa	M	D	GA	FA	Y	Y1	YY	YA	Z	ZZ	ZA	Øz	Weight (kg)
ÇEP 65/250	65	100	555	505	490	245	310	280	225	270	130	190	60	28	31	8	250	125	330	80	200	240	-	18	90
ÇEP-EFF 65/300		125	765	600	620	340	425	320	280	360	150	310	80	34	37	10	400	200	460	90	260	300	-	23	200
ÇEP-EFF 80/210			790	525	540	352	438	300	225	310	130	260					240	120	330	90	290	340	-		180
ÇEP 80/250			745	715	530	330	415	290	235		170						305	125	375	70	260	300	-		180
ÇEP-EFF 80/260	80	125	790	615	560	350	440	330	285		165		110	42	45	12	280	140	370	90		335	75	23	227
ÇEP 80/315			750	580	605	335	415	300	280		186	245									290		-		195
ÇEP-EFF 80/320			790	615	580	350	440		285		165	250											-		250
ÇEP-EFF 80/380	100	150	875	630	690	380	495		330	300	360	220	110	42	45	12	355	177.5	455	105		340	-	23	248
ÇEP 100/250			855	548	635	370	485		218		190	285					225	75	325	100	285	325	-		232
ÇEP 100/315			900		565	390	510		360		210									95	270	325	-		253
ÇEP-EFF 100/320			965	680	690	425	540		320	390	180	340					325	162.5	420				-		297
ÇEP-EFF 100/380			985	740	720	435	550	420		385	225	335					355	177.5	455	105	290	340	-		335
ÇEP-EFF 125/250	125	200	950	740	600	415	535	370	370	405	180	355					450	225	550	100		390	100		340



PUMP TYPE	ABb	ABe	A	B	C	N	E	F	G	H	Ie	Pa	M	D	GA	FA	Y	Y1	YY	YA	Z	ZZ	ZA	Øz	Weight (kg)					
ÇEP-EFF 125/300	125	200	1015	680	740	450	565		370	310	400	200	200	110	42	45	12	410	205	475	100	570	730	140	23	350				
ÇEP 125/315			925	740	700	405	520		370																				365	
ÇEP-EFF 125/380			1015	850	810	450	565	450	400	435	235	235	400					200		480	100	620	730	105		495				
ÇEP-EFF 125/500			960		870	425	535		450	450	295	250										120	530	650		130	560			
ÇEP 125/590			1175	950	980	515	660	525	425	530	330	330	140					62	66	18	410	205	500	110		650	795	150	700	
ÇEP-EFF 150/300	150	200	1075	900	730		595	500	400	400	200	200	110	42	45	12	400	200	465	100		790	140	23	466					
ÇEP 150/360			860				460																				520			
ÇEP 150/400			250	1055	850	850	470	585	455	395	480	230					230	48	51.5	14	360	180				590	750	135	565	
ÇEP-EFF 150/410			200	1095	900		490	495	450	450	480	260					260				360	180	465		100	640	785	140	595	
ÇEP-EFF 150/500			1235	1030	1020	545	690	600	430	560	315	315					140				62	66	18		445	222.5	525	125	680	880
ÇEP 150/630	200	250	1260	1050	1010	555	705		450	550	350	245	110	42	45	12	420	210	500	115	710	865	170	28	880					
ÇEP-EFF 200/320			1115	900	850	500	615	450	450	490	240	240					140	62	66	18	400	200	465		100	690	830	140	600	
ÇEP-EFF 200/420			1225	930	900	540	685	500	430	505	255	255					140	62	66	18	420	210	500		110	670	820		690	
ÇEP-EFF 200/530			1325	1100	1020	585	740	600	500	560	310	310					150	70	74.5	20	510	255	610		120	800	970	190	1060	
ÇEP 200/690			1265	1250		560	705	700	550	650	400	250									500	250	600		150	700	890	160	1280	
ÇEP EFF 200/700	1393	1200		618	775	650		640	350	350			620		880	1060					190	1280								
ÇEP 250/315	250	300	1143	850	850	500	643	450	400	480	225	225	140	62	66	18	420	210	500	110	620	750	130	28	870					
ÇEP-EFF 250/320			1320	1100	690	585	735	600	500	530	260	260					500	250	600	150	800	970	190		890					
ÇEP 250/400			1170	1000	910	510	660	550	450	480	225	225					420	210	500	110	620	770	140		705					
ÇEP-EFF 250/490			1320	1150	1010	580	740	600	550	560	300	300					500	250	600	150	780	930	160		738					
ÇEP 250/500			1170	1050	940	510	660	550	500	480	240	240					420	210	500	110	620	775	140		800					
ÇEP-EFF 250/620	300	350	1425	1200	1215	635	790	650	550	670	370	370	140	62	66	18	500	250	600	150	910	1090	180	28	1330					
ÇEP 250/630			400	1515	1205	1200	670	895	695		670	390					390	210	95	100.4	25	590	295		715	175	876	1075	235	1500
ÇEP 300/315			1290	1095	1020	570	720	585		610	315	315					450	225	550	125	780	910	140		980					
ÇEP 300/400			1250	1005	940	550	700	505	500	530	250	250					500	250			160	680	860		160	850				
ÇEP-EFF 300/450			400	1425	1200	1115	635	790	650	590	310	310					140	70	74.5	20	490	245	610		180	880	1060	190	1200	
ÇEP 300/500	300	350	350	1345	1130	1060	600	745	580	550	600	320	320	170	90	95	25	500	250		165	780	950	165	1065					
ÇEP-EFF 300/560			400	1705	1350	1170	760	945	700	670	350	350	640					320	760	180	1000	1250	220	33	1850					
ÇEP-EFF 300/720			400	1715	1400	1320	765	950	750	650	720	400	400					590	295	715	175	1070	1270	190	2200					
ÇEP-EFF 300/820			500	2080	1700	1700	920	1160	1000	700	950	525	525					225	104	110	28	680	340	800	200	1320	1540	190	4030	
ÇEP-EFF 350/360			400	1445	1250	1120	645	800	700	550	640	325	325					140	70	74.5	20	500	250	600	150	900	1100	180	28	1280
ÇEP 350/400	400	1325	1100	1060	590	735	600	500	630	315	315	500	250	600	150	800	970						1340							
ÇEP-EFF 350/450	500	1635	1500	1440	740	895	850	650	750	400	400	640	320	760	180	1060	1310					190	2200							
ÇEP 350/500	400	1320	1200	1140	585	735	650	550	670	355	355	170	90	95	25	500	250					600	150	800	965		1295			
ÇEP-EFF 350/520	500	1865	1500	1340	840		650	770								640	320					760	180	1180	1420	235	1277			
ÇEP-EFF 350/580	500	1870	1550	1370	845	1025	850	700	780	400	400	170	90	95	25	640	320	760	180	1180	1420	235	1303							

NOTE :
1) Dimensions "mm". Turbosan reserves right to make any changes in dimensions without giving prior notice.
2) Flanges conforming to DIN 2501 and TS EN 1092-2
3) (*) These pumps are on the project stage.

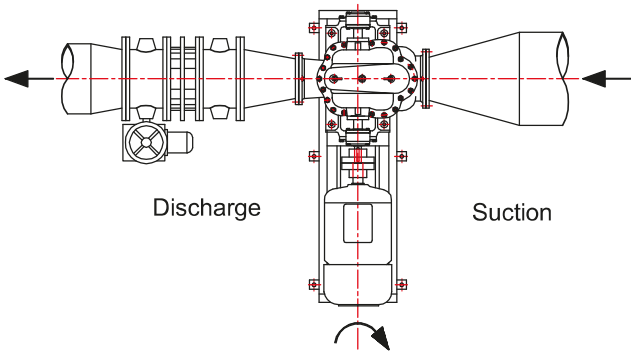
HORIZONTAL SPLIT CASE PUMP
DIMENSIONS TABLE



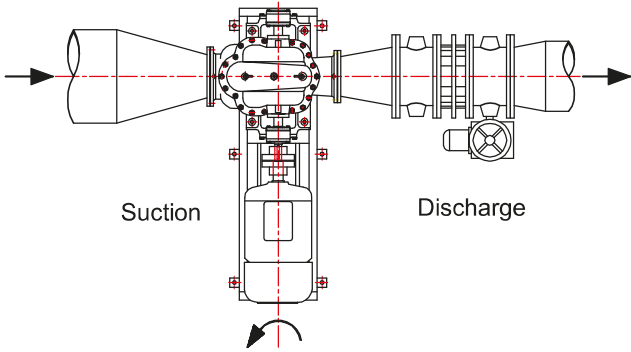
PUMP TYPE	ABb	ABe	A	B	C	N	E	F	G	H	Ie	Pa	M	D	GA	FA	Y	Y1	YY	YA	Z	ZZ	ZA	Øz	Weight (kg)
ÇEP 400/400	400	500	1475	1210	1180	660	815	705	505	720	355	355	140	70	74.5	20	550	275	680	160	950	1120	180	28	1740
ÇEP 400/500				1230	1200			680	550												930	1110			2150
* ÇEP-EFF 400/520			1895	1550	1380	855	1040	850	700	780	400	400									1260	1450	190		2185
ÇEP-EFF 400/600			1820	1550	1375	780	1000	800	750	775	395	395										1100	1380	240	3060
ÇEP 400/630	500	600	1560	1450	1400	690	870	800	650	820	450	450	170	90	95	25	600	300	770	180	910	1085	180		1900
ÇEP 500/500			1675	1455	1410	745	930	800	655	800											1000	1200			2260
ÇEP-EFF 500/600			1895	1900	1600	855	1040	1100	800	920											1260	1450			3580
ÇEP-EFF 500/700			1975	2100	1540	895	1080	1200	900	870											200	1350	1550		4800
ÇEP 500/800			1840	1710	1520	790	1050	905	805	960	545	545	250	125	132	32	800	400	1000	270	1000	1250	220	33	3800
ÇEP 500/800B																									3800
ÇEP 500/1000																									4860
ÇEP-EFF 600/600	600	700	2055	2100	1900	935	1120	1200	900	1100	500	500	170	90	95	25	680	340	800	200	1430	1630	180		3900
ÇEP 600/800	600	700	1940	1750	1720	850	1090	875	875	975	695	695	250	125	132	32	920	460	1220	300	970	1120			4950
ÇEP 700/710	700	800	2550	2200	1940	1155	1395	1400	800	1100	620	620	225	105	111	28	800	400	1000	270	1630	1890	240		6635

PUMP TYPE	ABb	ABe	A	B	C	N	E	F	G	H	Ie	Pa	M	D	GA	FA	Y	Y1	YY	YA	Z	ZZ	ZA	Øz	Weight (kg)
* ÇEP-EFF 150/600	150	250	1220	1050	1030	535	685	600	450	550	315	315	140	62	66	18	500	250	600	150	670	820	140	28	870
* ÇEP-EFF 150/650					1130					600	350	350													915
* ÇEP-EFF 250/360					1300					500	550	275													645
** ÇEP-EFF 250/800	250	300	1640	1500	1420	730	910	800	700	720	425	425	170	90	95	25	590	295	715	175	980	1195	190		1830
* ÇEP-EFF 350/720																									2640
* ÇEP-EFF 400/700	350	500	1770	1600	1430	795	975	850	750	810	405	405					680	340	800		1290	1080	240		2950
** ÇEP-EFF 500/860	400	600	2000	1750	1520	900	1100	1000	750	870	405	405													4300
** ÇEP-EFF 600/720	500	600	2160	2100	1870	950	1210	1200	900	950	520	520	250	125	132	32	800	400	1000	270	1400	1640	200	33	4300
** ÇEP-EFF 600/900					1740																				4450
** ÇEP-EFF 700/720	600	700	2255		1740	1010	1245				480	480	225	105	111	28	680	340	800	190	1470	1720	240		5240
** ÇEP-EFF 700/720	700	800	2550		2400	2050	1130	1420	1300	1100	1100	600	225	105	111	28	800	400	1000	270	1700	1980	280		6540

NOTE :
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2) Flanges conforming to DIN 2501 and TS EN 1092-2
3) (*) These pumps are on the project stage.



CEP SERIES PUMPS CLOCKWISE
ROTATION DIRECTION
(Standard production)



CEP SERIES PUMPS
COUNTER-CLOCKWISE ROTATION
DIRECTION
(Special production order)