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Marine Propulsion Systems**

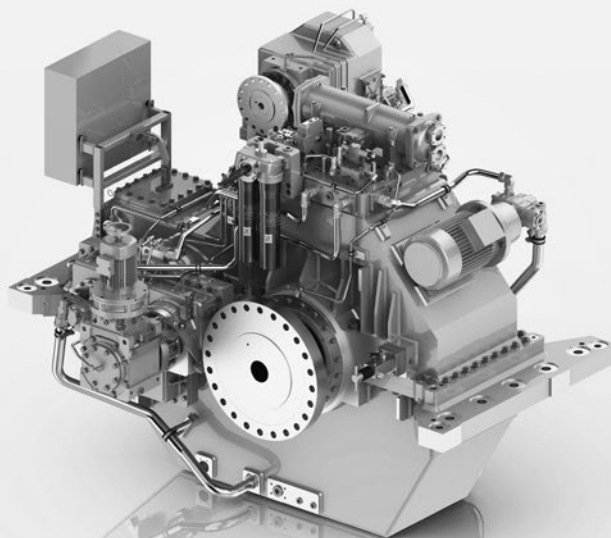
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PRODUCT SELECTION GUIDE 2017



Marine Propulsion Systems



MOTION AND MOBILITY



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TRANSMISSION CONFIGURATION AND TYPE

	PARALLEL OFFSET
TRANSMISSION FAMILY (2 Speed)	
ZF 90	ZF 90 TS
ZF 115	
ZF 325	ZF 325 TS
ZF 550	ZF 550-1 TS
ZF 665	ZF 665 TS

OFFSET DOWN-ANGLE	INTEGRAL V-DRIVE	REMOTE V-DRIVE
ZF 90 ATS	ZF 90 IVTS	
ZF 115 ATS	ZF 115 IVTS	
ZF 325 ATS	ZF 325 IVTS	
ZF 550-1 ATS		
ZF 665 ATS		

PLEASURE DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				2300 RPM		2800 RPM		3200 RPM		4500 RPM				
ZF 220	1.000, 1.128*, 1.237*, 1.400*, 1.500*, 1.963, 2.478	0.0985	0.1321	227	304	276	370	315	423	443	594	63	139	SAE 2, 3, 3 CAT
	3.000	0.0855	0.1147	197	264	239	321	274	367	385	516			
ZF 220 A 10 degrees	1.235*, 1.533, 1.750*, 2.040	0.0932	0.1250	214	288	261	350	298	400	419	563	50	110	SAE 2, 3, 3 CAT, B/W
	2.455*	0.0855	0.1147	197	264	239	321	274	367	385	516			
				2500 RPM		2800 RPM		3300 RPM		3600 RPM				
ZF 280 IV 14 degrees	1.252*, 1.561*, 1.772*, 2.063	0.1398	0.1875	350	469	391	525	461	619	503	675	106	234	SAE 2, 3, 3 CAT
	2.276, 2.556*	0.1205	0.1616	301	404	337	452	398	533	434	582			
	3.094*	0.1016	0.1362	254	340	284	381	335	449	366	490			
ZF 280-1	0.814*, 1.000, 1.056*, 1.139*, 1.214*, 1.300, 1.514*, 2.000	0.1398	0.1875	350	469	391	525	461	619	503	675	73	161	SAE 1, 2, 3, 3 CAT
	2.478	0.1205	0.1616	301	404	337	452	398	533	434	582			
	3.000	0.1142	0.1531	286	383	320	429	377	505	411	551			
ZF 280-1 A 7 degrees	1.118*, 1.483, 1.769, 2.000, 2.227	0.1398	0.1875	350	469	391	525	461	619	503	675	73	161	SAE 1, 2, 3, 3 CAT
	2.476*	0.1205	0.1616	301	404	337	452	398	533	434	582			
ZF 286	1.237*, 1.400*, 1.500, 1.966	0.1715	0.2300	429	575	480	644	566	759	617	828	86	190	SAE 1, 2, 3, 3 CAT
	0.923*, 1.000*, 2.269	0.1641	0.2201	410	550	459	616	542	726	591	792			
	2.481*	0.1506	0.2020	377	505	422	566	497	667	542	727			
	2.917	0.1297	0.1739	324	435	363	487	428	574	467	626			
ZF 286 A 7 degrees	1.200*, 1.484*, 1.750, 1.962	0.1715	0.2300	429	575	480	644	566	759	617	828	77	170	SAE 1, 2, 3, 3 CAT
	2.208	0.1506	0.2020	377	505	422	566	497	667	542	727			
	2.391	0.1471	0.1973	368	493	412	552	485	651	530	710			
	2.500	0.1377	0.1847	344	462	386	517	454	610	496	665			
ZF 286 IV 14 degrees	1.266*, 1.535, 2.011	0.1715	0.2300	429	575	480	644	566	759	617	828	130	287	SAE 1, 2, 3, 3 CAT
	2.322*	0.1620	0.2172	405	543	454	608	535	717	583	782			
	2.539	0.1491	0.1999	373	500	417	560	492	660	537	720			
				2300 RPM		2500 RPM		2800 RPM		3000 RPM				
ZF 301-1 A 10 degrees	1.190*, 1.516*, 2.005, 2.551*, 2.901*	0.1285	0.1723	296	396	321	431	360	482	386	517	87	192	SAE 1, 2, 3, 3 CAT
ZF 301-1 C	1.236*, 1.408*, 1.862, 2.694	0.1446	0.1939	333	446	362	485	405	543	434	582	87	192	SAE 1, 2, 3, 3 CAT
	1.004*	0.1116	0.1497	257	344	279	374	312	419	335	449			

* Special Order Ratio.

PLEASURE DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1800 RPM		2000 RPM		2100 RPM		2300 RPM				
ZF 7650 NR2	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.4031	1.8816	2526	3387	2806	3763	2947	3951	3227	4328	705	1554	
	3.174*	1.3403	1.7974	2413	3235	2681	3595	2815	3775	3083	4134			
ZF 7650 NR2B	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.4031	1.8816	2526	3387	2806	3763	2947	3951	3227	4328	720	1587	
	3.174*	1.3403	1.7974	2413	3235	2681	3595	2815	3775	3083	4134			
ZF 7650 NR2H ⁹	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.4031	1.8816	2526	3387	2806	3763	2947	3951	3227	4328	705	1554	
	3.174*	1.3403	1.7974	2413	3235	2681	3595	2815	3775	3083	4134			
ZF 7650 V 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957, 3.286*	1.4031	1.8816	2526	3387	2806	3763	2947	3951	3227	4328	1125	2480	
	3.450*	1.3613	1.8255	2450	3286	2723	3651	2859	3834	3131	4199			
ZF 9055	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.7595	2.3595	3167	4247	3519	4719	3695	4955	4047	5427	1400	3086	SAE 00
	3.250*	1.6571	2.2222	2983	4000	3314	4444	3480	4667	3811	5111			
	3.360*	1.6190	2.1711	2914	3908	3238	4342	3400	4559	3724	4994			
	3.448*	1.5833	2.1232	2850	3822	3167	4246	3325	4459	3642	4883			
ZF 9055 A 8 degrees	1.381*, 1.514*, 1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.7595	2.3595	3167	4247	3519	4719	3695	4955	4047	5427	1380	3042	SAE 00
	3.208*	1.6571	2.2222	2983	4000	3314	4444	3480	4667	3811	5111			
	3.462*	1.5833	2.1232	2850	3822	3167	4246	3325	4459	3642	4883			
ZF 9055 NR2	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.7595	2.3595	3167	4247	3519	4719	3695	4955	4047	5427	1040	2293	
	3.250*	1.6571	2.2222	2983	4000	3314	4444	3480	4667	3811	5111			
	3.360*	1.6190	2.1711	2914	3908	3238	4342	3400	4559	3724	4994			
	3.448*	1.5833	2.1232	2850	3822	3167	4246	3325	4459	3642	4883			
ZF 9055 NR2B	1.186*, 1.515*, 1.576*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.7595	2.3595	3167	4247	3519	4719	3695	4955	4047	5427	1040	2293	
	3.250*	1.6571	2.2222	2983	4000	3314	4444	3480	4667	3811	5111			
	3.360*	1.6190	2.1711	2914	3908	3238	4342	3400	4559	3724	4994			
	3.448*	1.5833	2.1232	2850	3822	3167	4246	3325	4459	3642	4883			

⁹ Left and Right version available.

* Special Order Ratio.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	'A' POS	'B' POS	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					2800 RPM		3000 RPM		3600 RPM		5000 RPM				
ZF 12 M ¹²	2.136	1.955	0.0118	0.0158	33	44	35	47	42	57	50	67	13	29	SAE 4, 5, 6, B/W, Yanmar JH
	2.632	1.955	0.0099	0.0133	28	37	30	40	36	48	50	67			
ZF 15 M ¹²	1.556	1.955	0.0137	0.0184	38	52	41	55	49	66	50	67	13	29	SAE 4, 5, 6, B/W, Yanmar JH Ratio 1.556 'B' Pos max torque 120 Nm. Ratio 1.875 'B' Pos max torque 120 Nm.
	1.875	1.955													
ZF 15 MA ¹² 8 degrees	1.875	1.955	0.0137	0.0184	38	52	41	55	49	66	50	67	14	30	SAE 4, 5, 6, B/W, Yanmar JH Ratio 1.875 'B' Pos max torque 120 Nm.
	2.136	1.955	0.0118	0.0158	33	44	35	47	42	57	50	67			
	2.632	1.955	0.0099	0.0133	28	37	30	40	36	48	50	67			
ZF 15 MIV ¹² 15 degrees	2.134	2.224	0.0137	0.0184	38	52	41	55	49	66	50	67	20	44	SAE 4, 5, B/W, Yanmar JH Ratio 2.134 'B' Pos max torque 120 Nm.
	2.718	2.224	0.0099	0.0133	28	37	30	40	36	48	50	67			
	2.995	2.224													
					2100 RPM		2500 RPM		2800 RPM		5500 RPM				
ZF 25	1.969	1.969	0.0249	0.0334	52	70	62	84	70	94	137	184	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	2.800	2.800	0.0239	0.0321	50	67	60	80	67	90	131	177			
ZF 25 A 8 degrees	1.548	1.548	0.0249	0.0334	52	70	62	84	70	94	137	184	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	1.926	1.926													
	2.292	2.292													
	2.480*	2.480*													
	2.714	2.714	0.0239	0.0321	50	67	60	80	67	90	131	177			
					2800 RPM		3000 RPM		3600 RPM		5000 RPM				
ZF 25 M ¹²	1.880	2.095	0.0236	0.0316	66	88	71	95	72	96	72	96	19	41	SAE 4, 5, B/W, Yanmar JH
	2.273	2.095	0.0194	0.0260	54	73	58	78	70	94	72	96			
	2.737	2.722	0.0159	0.0213	45	60	48	64	57	77	72	96			
ZF 25 MA ¹² 8 degrees	2.227	2.737	0.0194	0.0260	54	73	58	78	70	94	72	96	21	46	SAE 4, 5, B/W, Yanmar JH Ratio 2.227 'B' Pos max torque 169 Nm.
	2.737	2.737	0.0159	0.0213	45	60	48	64	57	77	72	96			

¹² Reduced power capacity by the following shock factors: 1 cylinder engine ÷ 1.25, 2 cylinder engine ÷ 1.20, 3 cylinder engine ÷ 1.15

* Special Order Ratio.
'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP		KW		HP		KW	LB	
				2100 RPM		2300 RPM		2450 RPM		2600 RPM				
ZF 3310 ⁸	2.467*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.5052	0.6775	1061	1423	1162	1558	1238	1660	1314	1762	665	1466	SAE 00, 0, 1
ZF 3311 ^{8, 14}	2.467*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.5052	0.6775	1061	1423	1162	1558	1238	1660	1314	1762	850	1874	SAE 00, 0, 1
ZF 3350 ⁸	2.467*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.5614	0.7528	1179	1581	1291	1731	1375	1844	1460	1957	665	1466	SAE 00, 0, 1
ZF 3351 ^{8, 14}	2.467*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.5614	0.7528	1179	1581	1291	1731	1375	1844	1460	1957	850	1874	SAE 00, 0, 1
ZF 3355 ⁸	2.467*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.5847	0.7841	1228	1647	1345	1803	1433	1921	1520	2039	670	1477	SAE 00, 0, 1
ZF 3356 ^{8, 14}	2.467*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.5847	0.7841	1228	1647	1345	1803	1433	1921	1520	2039	855	1885	SAE 00, 0, 1
				2100 RPM		2300 RPM		2450 RPM		2450 RPM				
ZF 3360 ⁸	2.467*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.6674	0.8950	1402	1880	1535	2059	1635	2193	1635	2193	670	1477	SAE 00, 0, 1
ZF 3361 ^{8, 14}	2.467*, 3.000*, 3.519*, 4.000, 4.250*, 4.478, 4.727*, 5.000	0.6674	0.8950	1402	1880	1535	2059	1635	2193	1635	2193	850	1874	SAE 00, 0, 1
				2100 RPM		2300 RPM		2450 RPM		2600 RPM				
ZF 3711 ⁸	3.767*, 4.250*, 5.545, 5.952	0.5052	0.6775	1061	1423	1162	1558	1238	1660	1314	1762	920	2028	SAE 0, 1
ZF 3751 ⁸	3.767*, 4.250*, 5.545, 5.952	0.5614	0.7528	1179	1581	1291	1731	1375	1844	1460	1957	920	2028	SAE 0, 1
ZF 3756 ⁸	3.767*, 4.250*, 5.545, 5.952	0.5847	0.7841	1228	1647	1345	1803	1433	1921	1520	2039	920	2028	SAE 0, 1
				2100 RPM		2300 RPM		2450 RPM		2450 RPM				
ZF 3761 ⁸	3.767*, 4.250*, 5.545, 5.952	0.6674	0.8950	1402	1880	1535	2059	1635	2193	1635	2193	920	2028	SAE 0, 1
				1800 RPM		2100 RPM		2300 RPM		2600 RPM				
ZF 5000	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.7508	1.0068	1351	1812	1577	2114	1727	2316	1952	2618	740	1631	SAE 00, 0
ZF 5000 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.7508	1.0068	1351	1812	1577	2114	1727	2316	1952	2618	750	1653	SAE 00, 0
	3.222*	0.6675	0.8951	1202	1611	1402	1880	1535	2059	1736	2327			
ZF 5000 D ^{3, 9}	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.7508	1.0068	1351	1812	1577	2114	1727	2316	1952	2618	765	1687	

³ For diagonal (D) transmissions limitations apply.
Please ask for technical assistance.
⁸ U-drive version also available.
⁹ Left and Right version available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1800 RPM		2000 RPM		2100 RPM		2300 RPM				
ZF 9361 ⁸	2.471*, 3.034*, 3.538, 3.760*, 3.958, 4.217*, 4.522	1.8590	2.4930	3346	4487	3718	4986	3904	5235	4276	5734	2430	5357	SAE 00
	4.958*	1.7048	2.2862	3069	4115	3410	4572	3580	4801	3921	5258			
	5.185*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			
				1800 RPM		2000 RPM		2100 RPM		2100 RPM				
ZF 23560 C (IV=1.000)	1.721, 2.278, 2.839, 3.577	2.6639	3.5723	4795	6430	5328	7145	5594	7502	5594	7502	2600	5732	
ZF 23560 C (IV=1.130)	4.042	2.3574	3.1613	4243	5690	4715	6323	4951	6639	4951	6639	2600	5732	
ZF 23560 C (IV=1.273)	4.552*	2.0926	2.8062	3767	5051	4185	5612	4394	5893	4394	5893	2600	5732	
ZF 23560 C (IV=1.432)	5.122*	1.8601	2.4944	3348	4490	3720	4989	3906	5238	3906	5238	2600	5732	
				750 RPM		900 RPM		1000 RPM		1050 RPM				
ZF 23860 C (IV=0.492)	0.697*, 0.847*, 1.121*, 1.397*, 1.760*	5.4141	7.2604	4061	5445	4873	6534	5414	7260	5685	7623	2600	5732	
				1800 RPM		2000 RPM		2100 RPM		2100 RPM				
ZF 24060 D ^{9, 14}	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.6597	3.5667	4787	6420	5319	7133	5585	7490	5585	7490	2650	5842	
	3.947*	2.4063	3.2269	4331	5808	4813	6454	5053	6776	5053	6776			
ZF 24060 NR2	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.6597	3.5667	4787	6420	5319	7133	5585	7490	5585	7490	1890	4167	
	3.947*	2.4063	3.2269	4331	5808	4813	6454	5053	6776	5053	6776			
ZF 24060 NR2B	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.6597	3.5667	4787	6420	5319	7133	5585	7490	5585	7490	1890	4167	
	3.947*	2.4063	3.2269	4331	5808	4813	6454	5053	6776	5053	6776			
ZF 24060 NR2H ⁹	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.6597	3.5667	4787	6420	5319	7133	5585	7490	5585	7490	1860	4101	
	3.947*	2.4063	3.2269	4331	5808	4813	6454	5053	6776	5053	6776			

⁸ U-drive version also available.
⁹ Left and Right version available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

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MEDIUM DUTY
SINGLE SPEED



PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	'A' POS	'B' POS	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					2100 RPM		2500 RPM		2800 RPM		4500 RPM				
ZF 85 A 8 degrees	1.567	1.567	0.0838	0.1124	176	236	210	281	235	315	377	506	69	152	SAE 2, 3, 3 CAT, B/W, Volvo D4-D6
	1.750	1.750													
	1.962	1.962													
	2.500	2.500													
					2100 RPM		2500 RPM		2800 RPM		3500 RPM				
ZF 85 IV 12 degrees	1.644	1.638	0.0889	0.1192	187	250	222	298	249	334	311	417	86	190	SAE 2, 3, 3 CAT, B/W, Volvo D4-D6
	2.008	1.996													
	2.493	2.468	0.0838	0.1124	176	236	210	281	235	315	293	393			

'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1800 RPM		1900 RPM		2100 RPM		2600 RPM				
ZF 5351 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464, 5.040	0.7466	1.0012	1344	1802	1419	1902	1568	2103	1941	2603	1290	2844	SAE 00, 0
				1800 RPM		2000 RPM		2250 RPM		2600 RPM				
ZF 5355 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464	0.8906	1.1943	1603	2150	1781	2389	2004	2687	2316	3105	950	2094	SAE 00, 0
	5.040	0.8377	1.1234	1508	2022	1675	2247	1885	2528	2178	2921			
	5.500	0.7447	0.9987	1340	1798	1489	1997	1676	2247	1936	2597			
				1800 RPM		1900 RPM		2100 RPM		2600 RPM				
ZF 5356 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464	0.8906	1.1943	1603	2150	1692	2269	1870	2508	2316	3105	1290	2844	SAE 00, 0
	5.040	0.8377	1.1234	1508	2022	1592	2134	1759	2359	2178	2921			
	5.500	0.7447	0.9987	1340	1798	1415	1898	1564	2097	1936	2597			
				1600 RPM		1800 RPM		2000 RPM		2300 RPM				
ZF 7600	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.2356	1.6570	1977	2651	2224	2983	2471	3314	2842	3811	970	2138	SAE 00
	2.905	1.1937	1.6008	1910	2561	2149	2881	2387	3202	2746	3682			
	3.174*	1.0577	1.4184	1692	2269	1904	2553	2115	2837	2433	3262			
ZF 7600 A 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957	1.2356	1.6570	1977	2651	2224	2983	2471	3314	2842	3811	1125	2480	SAE 00
	3.286*, 3.450*	0.9958	1.3354	1593	2137	1792	2404	1992	2671	2290	3071			
ZF 7600 NR2	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.2356	1.6570	1977	2651	2224	2983	2471	3314	2842	3811	705	1554	
	2.905	1.1937	1.6008	1910	2561	2149	2881	2387	3202	2746	3682			
	3.174*	1.0577	1.4184	1692	2269	1904	2553	2115	2837	2433	3262			
ZF 7600 NR2B	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.2356	1.6570	1977	2651	2224	2983	2471	3314	2842	3811	705	1554	
	2.905	1.1937	1.6008	1910	2561	2149	2881	2387	3202	2746	3682			
	3.174*	1.0577	1.4184	1692	2269	1904	2553	2115	2837	2433	3262			
ZF 7600 NR2H ⁹	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.2356	1.6570	1977	2651	2224	2983	2471	3314	2842	3811	705	1554	
	2.905	1.1937	1.6008	1910	2561	2149	2881	2387	3202	2746	3682			
	3.174*	1.0577	1.4184	1692	2269	1904	2553	2115	2837	2433	3262			

⁸ U-drive version also available.

⁹ Left and Right version available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

CONTINUOUS DUTY
SINGLE SPEED



PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	'A' POS	'B' POS	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					1800 RPM		2300 RPM		2600 RPM		5000 RPM				
ZF 12 M ¹²	2.136	1.955	0.0105	0.0141	19	25	24	32	27	37	40	53	13	29	SAE 4, 5, 6, B/W, Yanmar JH
	2.632	1.955	0.0094	0.0126	17	23	22	29	24	33	40	53			
ZF 15 M ¹²	1.556	1.955	0.0126	0.0169	23	30	29	39	33	44	40	53	13	29	SAE 4, 5, 6, B/W, Yanmar JH
	1.875	1.955	0.0115	0.0154	21	28	26	35	30	40	40	53			
ZF 15 MA ¹² 8 degrees	1.875	1.955	0.0115	0.0154	21	28	26	35	30	40	40	53	14	30	SAE 4, 5, 6, B/W, Yanmar JH
	2.136	1.955	0.0103	0.0138	19	25	24	32	27	36	40	53			
	2.632	1.955	0.0094	0.0126	17	23	22	29	24	33	40	53			
ZF 15 MIV ¹² 15 degrees	2.134	2.224	0.0115	0.0154	21	28	26	35	30	40	40	53	20	44	SAE 4, 5, B/W, Yanmar JH
	2.718	2.224	0.0094	0.0126	17	23	22	29	24	33	40	53			
	2.995	2.224													
					1800 RPM		2100 RPM		2400 RPM		3800 RPM				
ZF 25	1.969	1.969	0.0172	0.0231	31	42	36	49	41	55	55	74	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	2.800	2.800	0.0166	0.0223	30	40	35	47	40	54	53	71			
ZF 25 A 8 degrees	1.548	1.548	0.0172	0.0231	31	42	36	49	41	55	55	74	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	1.926	1.926													
	2.292	2.292													
	2.480*	2.480*													
	2.714	2.714	0.0166	0.0223	30	40	35	47	40	54	53	71			
					1800 RPM		2300 RPM		2600 RPM		5000 RPM				
ZF 25 M ¹²	1.880	2.095	0.0189	0.0253	34	46	43	58	49	66	57	76	19	41	SAE 4, 5, B/W, Yanmar JH
	2.273	2.095	0.0153	0.0205	28	37	35	47	40	53	57	76			
	2.737	2.722	0.0127	0.0170	23	31	29	39	33	44	57	76			
ZF 25 MA ¹² 8 degrees	2.227	2.737	0.0153	0.0205	28	37	35	47	40	53	57	76	21	46	SAE 4, 5, B/W, Yanmar JH
	2.737	2.737	0.0126	0.0169	23	30	29	39	33	44	57	76			
ZF 30 M ¹²	2.148	2.636	0.0173	0.0232	31	42	40	53	45	60	68	92	23	51	4 & 5 Yanmar JH
	2.696	2.636													

¹² Reduced power capacity by the following shock factors: 1 cylinder engine ÷ 1.25, 2 cylinder engine ÷ 1.20, 3 cylinder engine ÷ 1.15

* Special Order Ratio.
'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1600 RPM		1800 RPM		1900 RPM		2000 RPM				
ZF 5050 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.6319	0.8474	1011	1356	1137	1525	1201	1610	1264	1695	750	1653	SAE 00, 0
	3.222*	0.5864	0.7864	938	1258	1056	1416	1114	1494	1173	1573			
	3.429*	0.5497	0.7372	880	1180	989	1327	1044	1401	1099	1474			
ZF 5050 D ^{3, 9}	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.6319	0.8474	1011	1356	1137	1525	1201	1610	1264	1695	765	1687	
ZF 5050 NR2H ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*, 2.963	0.6319	0.8474	1011	1356	1137	1525	1201	1610	1264	1695	615	1356	
ZF 5050 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.6319	0.8474	1011	1356	1137	1525	1201	1610	1264	1695	768	1693	
	3.222*	0.5864	0.7864	938	1258	1056	1416	1114	1494	1173	1573			
	3.429*	0.5497	0.7372	880	1180	989	1327	1044	1401	1099	1474			
ZF 5055	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*	0.7331	0.9831	1173	1573	1320	1770	1393	1868	1466	1966	740	1631	SAE 00, 0
	2.963	0.6880	0.9226	1101	1476	1238	1661	1307	1753	1376	1845			
ZF 5055 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.7331	0.9831	1173	1573	1320	1770	1393	1868	1466	1966	750	1653	SAE 00, 0
	3.222*	0.6880	0.9226	1101	1476	1238	1661	1307	1753	1376	1845			
	3.429*	0.6319	0.8474	1011	1356	1137	1525	1201	1610	1264	1695			
ZF 5055 D ^{3, 9}	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*	0.7331	0.9831	1173	1573	1320	1770	1393	1868	1466	1966	765	1687	
	2.963	0.6880	0.9226	1101	1476	1238	1661	1307	1753	1376	1845			
ZF 5055 NR2H ⁹	1.256*, 1.526, 1.771*, 1.853*, 2.031, 2.233*, 2.310*, 2.500, 2.731*	0.7331	0.9831	1173	1573	1320	1770	1393	1868	1466	1966	615	1356	
	2.963	0.6880	0.9226	1101	1476	1238	1661	1307	1753	1376	1845			
ZF 5055 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.7331	0.9831	1173	1573	1320	1770	1393	1868	1466	1966	768	1693	
	3.222*	0.6880	0.9226	1101	1476	1238	1661	1307	1753	1376	1845			
	3.429*	0.6319	0.8474	1011	1356	1137	1525	1201	1610	1264	1695			
ZF 5300 ^{8, 14}	2.587*, 2.947*, 3.108*, 3.314*, 3.471*, 4.033, 4.464, 5.040	0.5497	0.7372	880	1180	989	1327	1044	1401	1099	1474	950	2094	SAE 00, 0

³ For diagonal (D) transmissions limitations apply.
Please ask for technical assistance.

⁸ U-drive version also available.

⁹ Left and Right version available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1000 RPM		1200 RPM		1600 RPM		1600 RPM				
ZF W17000 ^{4, 5}	1.974*, 2.500*, 3.034, 3.296*, 3.500*, 3.958, 4.571	1.8500	2.4809	1850	2481	2220	2977	2960	3969	2960	3969	4550	10031	
ZF W17000 NR ^{4, 5, 6, 11}	1.974*, 2.500*, 3.034, 3.296*	2.1300	2.8564	2130	2856	2556	3428	3408	4570	3408	4570	3900	8598	
ZF W17010 ^{4, 5}	1.974*, 2.500*, 3.034, 3.296*, 3.500*, 3.958	2.0000	2.6820	2000	2682	2400	3218	3200	4291	3200	4291	4550	10031	
	4.571	1.9200	2.5748	1920	2575	2304	3090	3072	4120	3072	4120			
ZF W17010 NR ^{4, 5, 6, 11}	1.974*, 2.500*, 3.034, 3.296*, 3.500*, 3.958	2.2500	3.0173	2250	3017	2700	3621	3600	4828	3600	4828	3900	8598	
	4.571	1.9200	2.5748	1920	2575	2304	3090	3072	4120	3072	4120			
ZF W17030 ^{4, 5}	1.974*, 2.500*, 3.034, 3.296*, 3.500*, 3.958	2.1300	2.8564	2130	2856	2556	3428	3408	4570	3408	4570	4620	10185	
ZF W17030 NR ^{4, 5, 7, 11}	1.974*, 2.500*, 3.034, 3.296*, 3.500*	2.4740	3.3177	2474	3318	2969	3981	3958	5308	3958	5308	3940	8686	
	3.958	2.3000	3.0844	2300	3084	2760	3701	3680	4935	3680	4935			
ZF W17050 ^{4, 5}	1.974*, 2.500*, 3.034, 3.296*, 3.500*, 3.958	2.2500	3.0173	2250	3017	2700	3621	3600	4828	3600	4828	4620	10185	
ZF W17050 NR ^{4, 5, 7, 11}	1.974*, 2.500*, 3.034	2.6670	3.5765	2667	3577	3200	4292	4267	5722	4267	5722	3940	8686	
	3.296*	2.6000	3.4867	2600	3487	3120	4184	4160	5579	4160	5579			
	3.500*	2.5000	3.3526	2500	3353	3000	4023	4000	5364	4000	5364			
ZF W17100 ^{4, 5}	5.000, 5.522*, 6.000	1.8500	2.4809	1850	2481	2220	2977	2960	3969	2960	3969	5350	11795	
ZF W17100 NR ^{4, 5, 6, 11}	4.556*, 5.000, 5.522*	2.1300	2.8564	2130	2856	2556	3428	3408	4570	3408	4570	4750	10472	
	6.000	1.9200	2.5748	1920	2575	2304	3090	3072	4120	3072	4120			
ZF W17110 ^{4, 5}	4.556*, 5.000, 5.522*	2.0000	2.6820	2000	2682	2400	3218	3200	4291	3200	4291	5350	11795	
	6.000	1.9200	2.5748	1920	2575	2304	3090	3072	4120	3072	4120			
ZF W17110 NR ^{4, 5, 6, 11}	4.556*, 5.000, 5.522*	2.2500	3.0173	2250	3017	2700	3621	3600	4828	3600	4828	4750	10472	
ZF W17130 ^{4, 5}	4.556*, 5.000, 5.522*	2.1300	2.8564	2130	2856	2556	3428	3408	4570	3408	4570	5420	11949	
ZF W17130 NR ^{4, 5, 7, 11}	3.967, 4.556*	2.4740	3.3177	2474	3318	2969	3981	3958	5308	3958	5308	4790	10560	
	5.000	2.4000	3.2185	2400	3219	2880	3862	3840	5150	3840	5150			
	5.250	2.3000	3.0844	2300	3084	2760	3701	3680	4935	3680	4935			

⁴ Higher engine speeds can be evaluated on request.

⁵ Classification: on request. In most cases standard ratings are accepted by major classification bureau.
Ratings are valid for application without class notation.

⁶ EW version is also available.

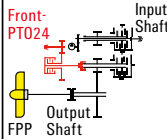
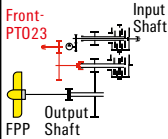
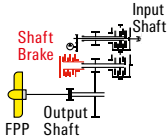
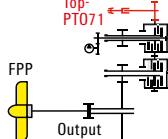
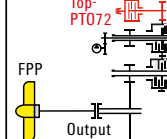
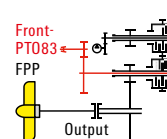
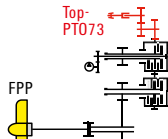
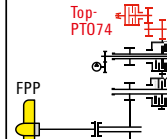
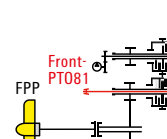
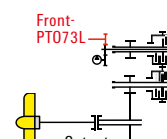
⁷ EW version can be evaluated on request.

¹¹ NC version is also available.

* Special Order Ratio.

PTO / PTI / SHAFT BRAKE OPTIONS

ZF W10000 – ZF W17000 FAMILY*

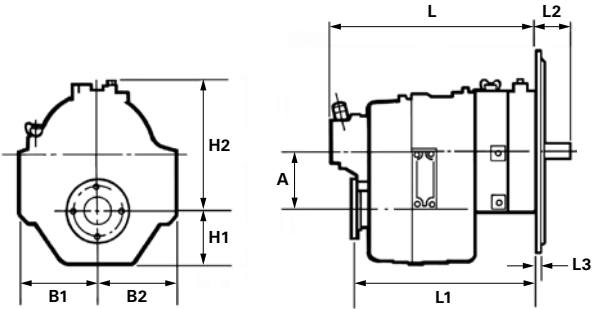
Series	FRONT PTI / PTO	FRONT PTO	INTEGRATED PROPELLER SHAFT BRAKE	TOP PTO		FRONT PTO
	Propeller driving / driven	Propeller driven		Engine driven		Engine driven
	Clutch	No Clutch		No Clutch	Clutch	Clutch
						
						
						
ZF W17000 ZF W17100 ZF W17200 all versions		x	x	x no Top-PTO71		x no Front-PTO83
ZF W11000 ZF W11100 ZF W11200 all versions	x	x	x	x	x	x
ZF W10000 ZF W10100 ZF W10200 all versions	x	x	x	x	x	x

* For maximum combinations please contact ZF Marine representative.

DRAWINGS AND DIMENSIONS

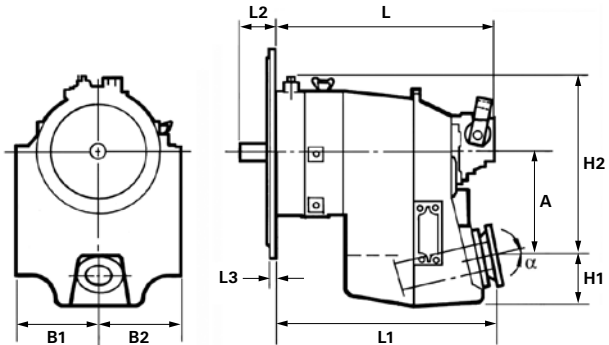
PRODUCT	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 90 TS	127	4.98	178	6.99	178	6.99	119	4.67	319	12.6	484	19.1	414	16.3	76.0	2.99	11.0	0.430	3	67.0	148	3.50	3.71
ZF 325 TS	165	6.50	265	10.4	265	10.4	156	6.14	424	16.7	714	28.1	607	23.9	-	-	0.0	0.0	1	180	397	6.50	6.89
ZF 550-1 TS	200	7.87	310	12.2	310	12.2	200	7.87	400	15.8	884	34.8	737	29.0	-	-	0.0	0.0	1	344	758	15.0	15.9
ZF 665 TS	200	7.87	310	12.2	310	12.2	200	7.87	400	15.8	884	34.8	737	29.0	-	-	0.0	0.0	1	344	758	15.0	15.9

2 Speed
Vertical Offset
Direct Mount



PRODUCT	ANGLE (°)	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 90 IVTS	12	219	8.62	178	6.99	178	6.99	107	4.22	415	16.3	485	19.1	467	18.4	76.0	2.99	11.0	0.430	3	82.0	181	4.50	4.77
ZF 115 IVTS	12	246	9.69	190	7.48	190	7.48	132	5.20	445	17.5	532	20.9	516	20.3	76.0	2.99	0.0	0.0	2	107	236	7.50	7.95
ZF 325 IVTS	14	378	14.9	220	8.66	292	11.5	-	-	-	-	714	28.1	249	9.81	-	-	0.0	0.0	1	235	518	8.00	8.48

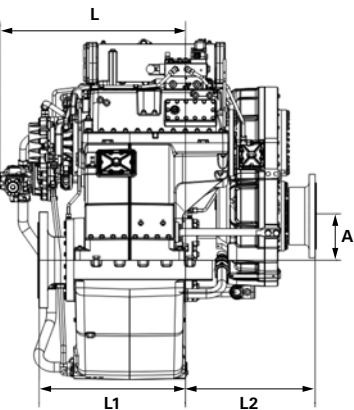
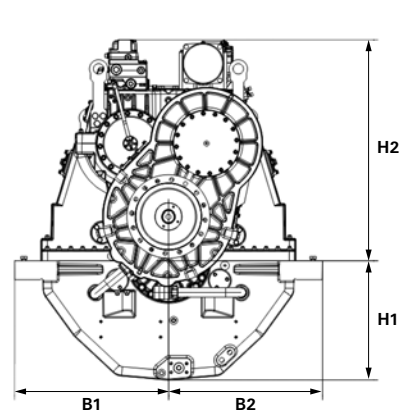
2 Speed V-Drive
Direct Mount



DRAWINGS AND
DIMENSIONS

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF 23560 C (IV=1.000)	0.0	0.0	592	23.3	592	23.3	440	17.3	1,113	43.8	1,217	47.9	934	36.8	221	8.70	2,600	5,732	180	191
ZF 23560 C (IV=1.130)	0.0	0.0	592	23.3	592	23.3	440	17.3	1,113	43.8	1,217	47.9	934	36.8	221	8.70	2,600	5,732	180	191
ZF 23560 C (IV=1.273)	0.0	0.0	592	23.3	592	23.3	440	17.3	1,113	43.8	1,217	47.9	934	36.8	221	8.70	2,600	5,732	180	191
ZF 23560 C (IV=1.432)	0.0	0.0	592	23.3	592	23.3	440	17.3	1,113	43.8	1,217	47.9	934	36.8	221	8.70	2,600	5,732	180	191
ZF 23860 C (IV=0.492)	0.0	0.0	592	23.3	592	23.3	440	17.3	1,113	43.8	1,217	47.9	934	36.8	221	8.70	2,600	5,732	180	191
ZF 24060 SGC (IV=1.000)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,250	7,165	150	159
ZF 24060 SGC (IV=1.173)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,250	7,165	150	159
ZF 24060 SGC (IV=1.280)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,250	7,165	150	159
ZF 24060 SGC (IV=1.354)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,250	7,165	150	159
ZF 24360 SG (IV=1.000)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,500	9,921	200	212
ZF 24360 SG (IV=1.173)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,500	9,921	200	212
ZF 24360 SG (IV=1.280)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,500	9,921	200	212
ZF 24360 SG (IV=1.354)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,500	9,921	200	212
ZF 30050 SGC (IV=0.759)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,250	7,165	150	159
ZF 30350 SG (IV=0.759)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,575	10,086	200	212
ZF 40060 SGC (IV=0.522)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,260	7,187	150	159
ZF 40060 SGC (IV=0.585)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,260	7,187	150	159
ZF 40060 SGC (IV=0.603)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,260	7,187	150	159
ZF 40360 SG (IV=0.522)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,625	10,196	200	212
ZF 40360 SG (IV=0.585)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,625	10,196	200	212
ZF 40360 SG (IV=0.603)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,625	10,196	200	212

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