



Ratio	Worms							Worm Gears						
	THC Gear #	Module	No. of Stars	OD	d	b	Weight (kg)	THC Gear #	No. of Teeth	PD	OD	b	Weight T1(kg)	Weight T2(kg)
10.25	STPW3.71-4RNG	3.71	4	57.93	50	53	2.5	BTPWG3.71-41R	41	152	161	37	4.4	7.4
13.33	STPW3.88-3RNG	3.88	3	54.48	50	50	2.4	BTPWG3.88-40R	40	155	165	34	4.4	7.4
16.5	STPW4.7-2RNG	4.70	2	55.86	50	53	2.5	BTPWG4.7-33R	33	155	166	33	4.4	7.4
20.5	STPW3.78-2RNG	3.78	2	55.37	50	55	2.4	BTPWG3.78-41R	41	155	165	34	4.5	7.5
25.5	STPW3.1-2RNG	3.10	2	51.15	50	50	2.4	BTPWG3.1-51R	51	158	166	32	4.3	7.3
33	STPW4.7-1RNG	4.70	1	56.06	50	54	2.5	BTPWG4.7-33R	33	155	166	32	4.4	7.4
40	STPW3.88-1RNG	3.88	1	55.94	50	57	2.5	BTPWG3.88-40R	40	155	165	32	4.4	7.4
50	STPW3.16-1RNG	3.16	1	50.60	50	50	2.4	BTPWG3.16-50R	50	158	166	32	4.3	7.3
62	STPW2.55-1RNG	2.55	1	49.85	50	49	2.2	BTPWG2.55-62R	62	158	165	33	4.5	7.5

Note:
 1 All dimensions are in mm.
 2 Dimensions and other engineering data are subject to change. Certified specifications are available on request.



Specifications			
Item	Worm	Worm Gear	Worm Gear Hub
Hand of Helix	Right	Right	-
Material	42CrMo or 38CrMoAl	ZCuSn10Pb1	C45
Heat Treatment	Quenching and Tempering	-	Quenching and tempering
Tooth Surface Treatment	Nitriding	-	-
Tooth Surface Finish	Ground	Cut	-
Tooth Hardness	HRC55-60	HBW885	HB240-270
Precision Grade	GB 7	GB 7	-

Rated Power and Torques of Worms and Worm Sets

Ratio	n ₁	n ₂	P _{1N}	T _{2N}	η
	rpm	rpm	KW	N.m	%
10.25	1500	146	11.5	683	91
	1000	98	10.6	944	91
	750	73	8.94	1044	89.5
	500	49	7.2	1233	87.5
13.33	1500	113	9.34	709	89.5
	1000	75	8.4	957	89.5
	750	56	6.85	1023	88
	500	38	5.24	1147	86
16.5	1500	91	8.54	798	89
	1000	61	7.73	1084	89
	750	45	6.25	1142	87
	500	30	4.84	1289	84.5
20.5	1500	73	7.19	826	88
	1000	49	6.18	1065	88
	750	37	5.11	1147	86
	500	24	3.97	1298	83.5
25.5	1500	59	5.91	810	86
	1000	39	5.04	1023	85
	750	29	4.3	1143	83.5
	500	20	3.23	1225	79.5
33	1500	45	4.77	792	79
	1000	30	4.17	1038	79
	750	23	3.09	1006	77.5
	500	15	2.69	1246	73.5
40	1500	38	3.9	760	76.5
	1000	25	3.23	944	76.5
	750	19	2.82	1084	75.5
	500	13	2.08	1136	71.5
50	1500	30	3.16	744	74
	1000	20	2.76	975	74
	750	15	2.28	1052	72.5
	500	10	1.74	1138	68.5
62	1500	24	2.55	715	71
	1000	16	2.28	958	71
	750	12	2.08	1141	69.5
	500	8	1.41	1094	65.5

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