





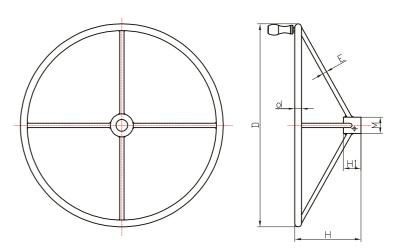




Formulas

- MECHANICAL ADVANTAGE=OUTPUT TORQUE/INPUT TORQUE =(GEAR RATIO X EFFICIENCY %) /100
- EFFICIENCY(%)=OUTPUT TORQUE x 100/ INPUTTORQUE X GEAR RATIO
- OUTPUT TORQUE(N.m)=INPUT TORQUE X MECHANICAL ADVANTAGE
- INPUT TORQUE(N.m)=OUTPUT TORQUE / MECHANICAL ADVANTAGE
- NUMBER OF TURNS TO CLOSE = GEAR RATIO /4
- HANDWHEEL DIAMETER(m) = INPUT TORQUE X 2(N.m)
 /HANDWHEEL RIM EFFORT(N)
- OPERATING TIME(SEC) = (RATIO X 60/RPM)/4

Handwheel Dimensions



D	d	E	Н	H1	М
Ø700	28	16	150	50	50
Ø600	25	16	150	50	50
Ø500	25	16	150	45	40
Ø400	20	16	130	40	40
Ø350	20	16	115	40	40
Ø300	20	16	105	35	40
Ø200	16	16	80	35	30





WBS Series Product Structure

The installation of pointer disk on the top of the worm gear can clearly indicate the opening and closing position of the valve

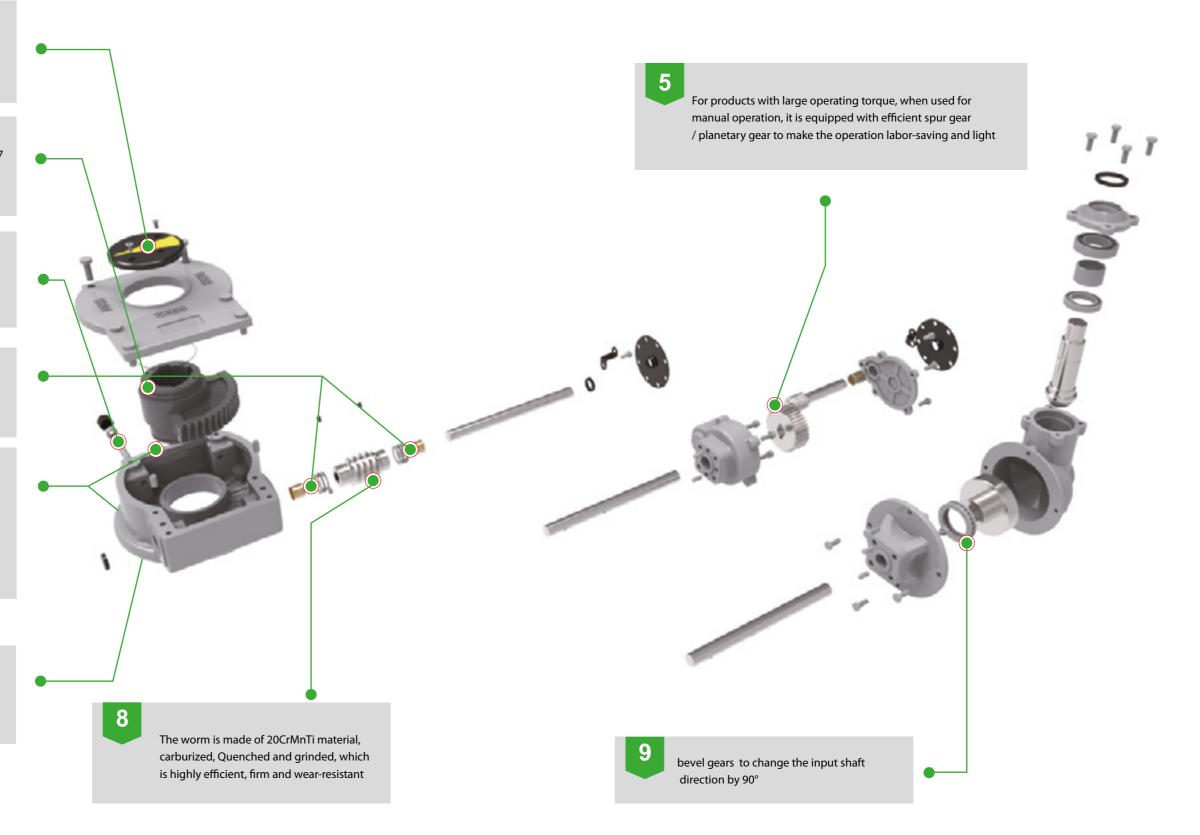
The worm gear made of Ductile iron QT500-7 has the characteristics of high strength and wear resistance

The mechanical limit screw is set in the open / close direction to accurately limit the valve stroke

High precision worm and bearing close fit, significantly improve the transmission efficiency

The cover of worm gear box and secondary reduction box are made of ductile iron, and the joint parts are sealed with O-ring or skeleton oil seal, and the waterproof grade reaches IP67.

The valve connection is designed according to ISO5211-2017 standard, which is convenient for users to match







WBS Series Parameter Chart

Model	N∙m	Ratio	N∙ m	M.A.	Valve Connection
WBS10	350	29	40	8.70	F05/F07
WBS20	520	37	47	11.10	F07/F10
WBS21	850	38	72	11.78	F10/F12/F14
WBS30	1350	40	109	12.40	F12/F14/F16
WBS55	2000	47	137	14.57	F14/F16
WBS66	2500	55	142	17.60	F14/F16/F20
WBS88	3000	61	159	18.91	F16/F20/F25
WBS99	3500	69	164	21.39	F20/F25
WBS88 -BR3 .2	4000	167	89	45.09	F16/F20/F25
WBS99 -BR2 .5	4500	153	105	42.85	F20/F25
WBS99 -BR3 .2	5000	186	96	52.08	F20/F25
WBS195 -BR3 .5	6500	182	128	50.96	F16/F20/F25
WBS295 -BR5	8500	295	103	82.60	F25/F30
WBS300 -BR6	11000	348	117	93.96	F25/F30
WBS680 -BR8	16000	519	114	140.13	(F30/F25)
WBS780 -BR11	23500	627	134	175.56	F30/F35
WBS980 -BR16	30000	959	116	258.93	F30/F35/F40
WBS1080 -BR21	36000	1110	116	310.80	(F30/F35)/F40
WBS1180 -PR29	55000	1658	123	447.66	F35/F40/F48
WBS1190 -PR35	70000	2228	116	601.56	F40/F48
WBS1280 -PR53	90000	2769	120	747.63	F40/F48
WBS1380 -PR53	120000	3621	127	941.46	F48/F60
WBS1380 -PR54	150000	3655	152	986.85	F48/F60
WBS1480 -BR126	300000	7317	158	1902.42	F60/F48
WBS1580 -BR146	600000	9533	242	2478.58	F60/F80

Left Input) Standard
 CW input-CW output is common standard Operating position "LC"



2. Left Input)

3. (Right Input)
CW input-CW output is common standard Operating position "RC"



(Right Input)
 CW input-CW output is common standard Operating position
 "RCC"



Max.Bore d (mm)	Parallel square s (mm)	Diagonal square v (mm)	Handwheel diameter	RIM Effort(N)	Max. stem height (mm)	weight
20	13	18	200	402	57	2.3
28	20	26	200	468	57	3.6
36	26	34	300	481	63	6
45	33	43	350	622	85	12.5
50	36	51	400	686	91	13
55	43	54	500	568	89	14.5
65	47	59	500	635	105	23.7
70	55	66	500	655	106	28.5
65	47	59	500	355	105	27.4
70	55	66	500	420	106	35
70	55	66	500	384	106	35
80	54	68	600	425	117	37
90	63	75	600	343	141	57
95	70	82	600	390	145	64
110	88	103	600	381	148	90
130	98	117	600	446	175	126
140	101	119	700	331	178	169
145	115	137	700	331	180	220
180	125	152	700	351	205	276
200	147	173	700	332	210	365
210	163	186	700	344	225	430
260	217	234	700	364	257	530
260	217	234	700	434	257	750
310	219	239	800	394	312	1390
380	268	290	800	605	328	2500

Note: The Valve/Gearbox in the fully closed position

Drive by key	Drive by parallel square head	Drive by diagonal square head	Drive by flat head
(Qq)	HF(s)	HA(v) (v)AH	(d)G(L)NEWO



MECCFOR MECHANICAL COMPONENTS SUPPLIES

WBS Series

WBS Part-turn Gearbox Series

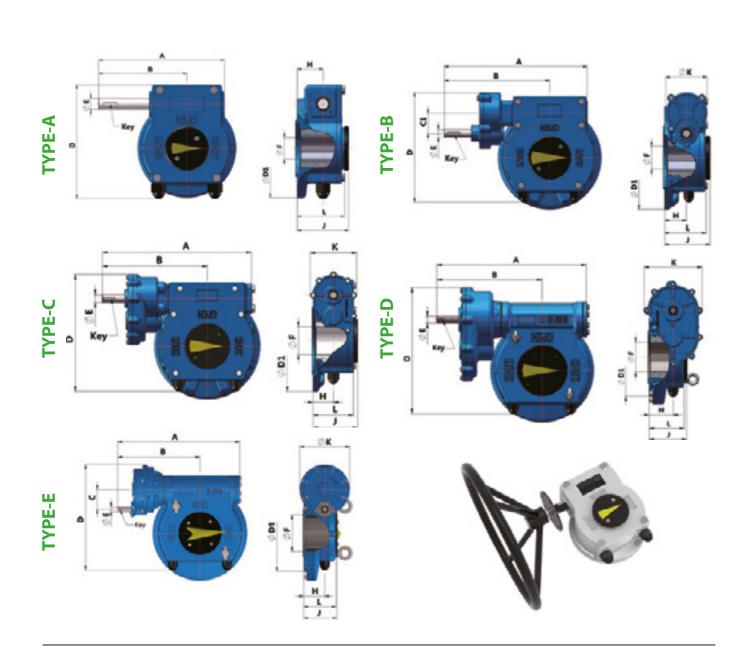
The WBGEARS Serie's WBS' quarter-turn gear operators are rugged,industrial grade products manufactuerd with ductile iron .

Applications

WBS series operator are quarter-turn devices intended for the operation of ball, plug and butterfly values. The gearboxes are suichart for manual application.

Features

- Padlockable handwheels
- Protected steel input shaft (stainless steel optional)
- 25 models up to 600000Nm in output.
- Standard Enclosure: IP67
- Temperature: -20°C to +80°C
- Stroke: 0-90° (±5° adjuschart)

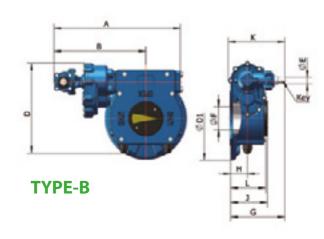


T Y P E	Model	Valve Connection	D1	L max	Α	В	C1	D	K	Н	J	E	key	Handwheel
-		F05	65	57	167	125	-	122	-	29	64	15	6*20	200
	WBS10	F07	90	57	167	125	-	122	-	29	64	15	6*20	200
	WBS20	F07	90	57	185	134	-	140	-	29	64	15	6*20	200
	VVB320	F10	125	57	185	134	-	140	-	29	64	15	6*20	200
		F10	125	68	200	142	-	162	-	36	74	15	6*20	300
	WBS21	F12	150	63	200	142	-	162	-	31	71	15	6*20	300
		F14	175	73	216	150	-	162	-	41	79	15	6*20	300
		F12	150	85	219	152	-	202	-	46	93	20	6*30	350
	WBS30	F14	175	85	219	152	-	202	-	46	93	20	6*30	350
		F16	210	85	235	160	-	202	-	46	93	20	6*30	350
	WBS55	F14	175	91	241	163	-	223	-	50	99	20	6*30	400
		F16	210	91	241	163	-	223	-	50	99	20	6*30	400
		F14	175	89	248	170	-	237	-	51	97	20	6*30	500
	WBS66	F16	210	89	248	170	-	237	-	51	97	20	6*30	500
		F20	260	89	248	170	-	237	-	51	97	20	6*30	500
		F16	210	105	290	192	-	267	-	55	115	20	6*30	500
	WBS88	F20	260	108	290	192	-	267	-	58	118	20	6*30	500
		F25	300	105	290	192	-	267	-	55	115	20	6*30	500
	WBS99	F20	260	106	300	202	-	290	-	55	113	20	6*30	500
		F25	300	106	300	202	-	290	-	55	113	20	6*30	500
	WDC00 DD2 2	F16	210	105	367	269	51	276	104	55	115	20	6*25	500
	WBS88-BR3.2	F20	260	108	367	269	51	276	104	58	118	20	6*25	500
		F25	300	105	367	269	51	276	104	55	115	20	6*25	500
	WBS99-BR2.5/3.2	F20	260	106	367	269	51	290	104	55	113	20	6*25	500
		F25	300	106	367	269	51	290	104	55	113	20	6*25	500
		F16	210	117	387	277	72	326	142	62	125	20	6*25	600
	WBS195-BR3.5	F20	260	117	387	277	72	326	142	62	125	20	6*25	600
		F25	300	117	387	277	72	326	142	62	125	20	6*25	600
	WBS295-BR5	F25	300	141	455	313	90	385	212	70	153	25	8*25	600
		F30	350	141	455	313	90	385	212	70	153	25	8*25	600
	WBS300-BR6	F25	300	145	500	351	-	385	160	70	153	25	8*25	600
	WBS680-BR8	F30	350	145 148	500	351 383		385 424	160	70	153 156	25	8*25	600
	WB3000 BN0	F30(F25) F30	350 350	175	563	428	ļ <u>-</u>	465	160 210	71 96	193	25 30	8*25	600
	WBS780-BR11	F35	415	175	628	428	ļ <u>-</u>	465	210	96	193	30	8*30	600
		F30	350	178	628 661	454		546	268	107	185	30	8*30 8*30	600 700
	WBS980-BR16	F35	415	184	661	454		546	268	107	191	30	8*30	700
	WB3300 Bit10	F40	560	188	661	454		546	268	107	196	30	8*30	
		F35(F30)	415	180	690	477	-	570	290	119	190		8*30	700
	WBS1080-BR21	F40	560	213	690	477	-	570	290	152	223	30 30	8*30	700
		F35	415			518	_	650	314		221	30		700
	WDC1162 2222	F40		205	768			÷		133			8*30	700
	WBS1180-PR29		475	205	768	518		650	314	133	221	30	8*30	700
		F48	560	205	768	518	-	650	314	133	211	30	8*30	700
	WBS1190-PR35	F40	475	210	800	536	-	758	345	138	220	30	8*30	700
		F48	560	210	800	536	-	758	345	138	220	30	8*30	700
	14/054000 0050	F40	475	225	860	575	-	780	407	138	231	30	8*30	700
	WBS1280-PR53	F48	560	225	860	575	-	780	407	138	231	30	8*30	700
E		F48	560	257	945	615	-	995	407	158	265	40	12*50	700
	WBS1380-PR53	F60	686	257	945	615		995	407	158	265	40	12*50	700
		F48				725		995	604					
	WBS1380-PR54		560	257	1055					158	265	40	12*50	700
		F60	686	257	1055	725	-	995	604	158	265	40	12*50	700
	WBS1480-BR126	F60	686	321	1450	970	240	1150	547	210	330	40	12*50	800
		F80	900	321	1450	970	240	1150	547	210	330	40	12*50	800
	WDC1E00 DD146	F60	686	416	1728	1148	360	1500	770	266	430	60	18*50	800
	WBS1580-BR146	F80	900	416	1728	1148	360	1500	770	266	430	60	18*50	800

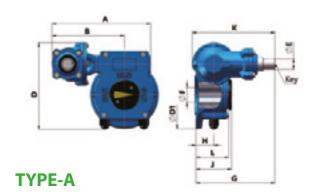


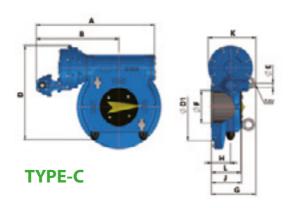
WBS-G Series

- Buried Application
- Handwheel, T-bar operation are available, customized high
- The torque is the same as the WBS series up to 600000Nm for larger torque size, please consult Weber
- Gearbox IP67 Seal
- Temperature: -20°C to +80°C Stroke: 0-90° (±5° adjuschart)

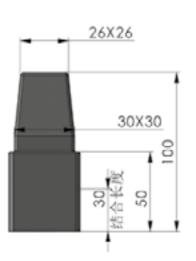


Pipe network connection square head





T-shaped lever







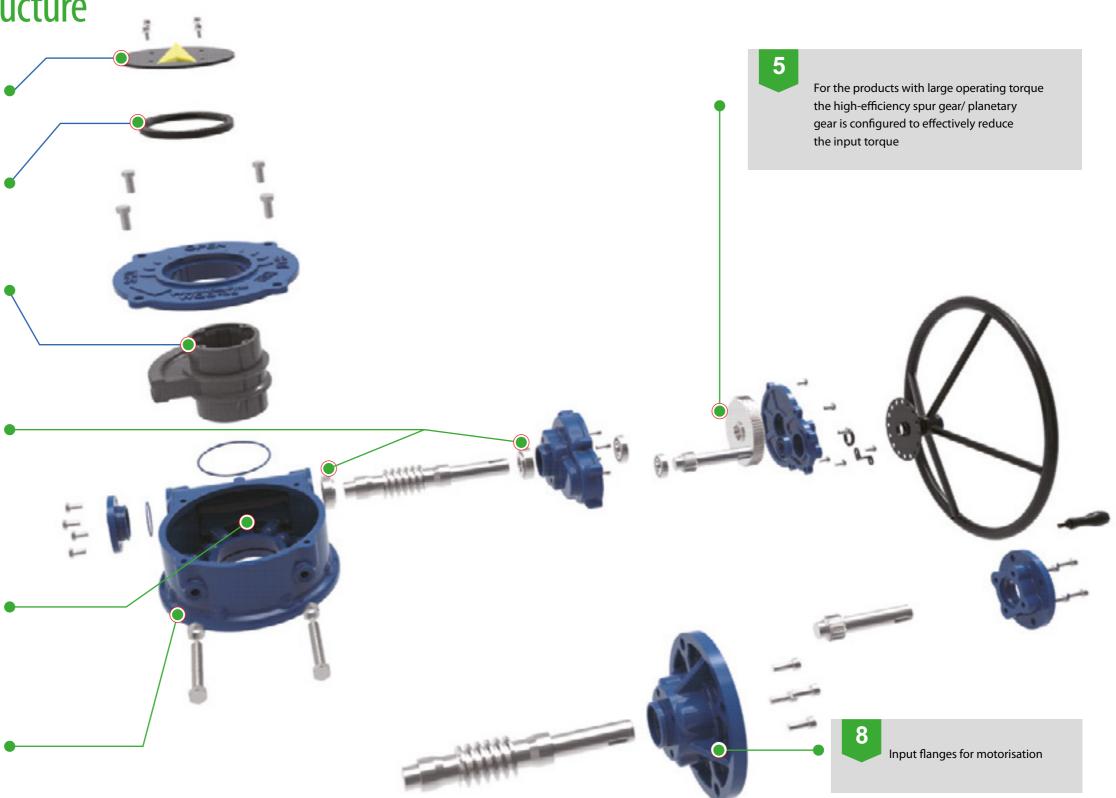
Model Mode								Dime	nsio	ns										
WBS20 SR0.5	T		reciii	iicai uat	a			Dimensions												
WBS21-SR0.5		Model	ratio	Bore Max					D1	L max	Α	В	D	Е	Н		G	K	key	Handwheel
WBS21-SR0.5		WRC20 CRO F	46.1	20	520	50	10	F07	90	57	185	134	167	20	29	64	160	180	6*20	200
WBS21-SRD.5 47:1 36 850 75 11 161 150 63 200 142 186 20 31 71 162 180 67:0 30 30 30 30 30 30 30		WD32U-3RU.3	40:1	28	520	50	10	F10	125	57	185	134	167	20	29	64	160	180	6*20	200
WBS30-SR1 621 45			47.1	26	050	7.5	11	F10	125	68	200	142	186	20	36	74	167	180	6*20	300
WBS30-SR1 Record		WBS21-SR0.5	4/:1	36	850	/5	11	F12	150	63	200	142	186	20	31	71	162	180	6*20	300
WBS30-SR1 62:1 45 1350 90 15 F14 175 85 219 152 223 28 46 93 203 212 8730 350 WBS55-SR1 72:1 50 2000 115 17 F16 210 85 235 241 263 28 50 99 206 212 8730 350 WBS56-SR1 85:1 55 2500 125 29 F14 175 89 248 170 250 28 51 97 206 212 8730 350 WBS588-SR2 128:1 65 4000 150 27 F16 210 80 367 269 303 28 58 197 206 208 8730 500 WBS599-SR2 143:1 70 5000 146 34 F20 260 105 367 269 303 28 58 18 234 258 8730 500 WBS599-SR2 143:1 70 5000 146 34 F20 260 106 377 279 325 28 95 13 234 258 8730 500 WBS599-SR2 128:1 80 6500 241 27 F20 260 107 301 281 333 28 62 125 241 258 8730 600 WBS599-SR2 128:1 80 6500 241 27 F20 260 107 301 281 333 28 62 125 241 258 8730 600 WBS599-SR4 263:1 90 8500 133 63 F25 300 141 455 313 449 28 70 133 280 234 8730 600 WBS300-BR6-SR1 572:1 110 16000 99 162 F25 300 141 455 500 515 383 28 62 125 241 258 8730 600 WBS300-BR6-SR1 572:1 110 16000 99 162 F25 300 145 500 515 383 246 215 241 258 8730 600 WBS300-BR6-SR1 572:1 110 16000 99 162 F25 300 145 500 515 383 244 28 70 153 280 324 8730 600 WBS300-BR6-SR1 572:1 110 16000 81 375 375 416 375 375 416 375 375 416 375 375 416 375 375 416 375			ļ				ļ	·					÷	÷	:			÷		
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WBSS8-SR2 128:1 65 4000 150 27 F16 210 89 248 170 250 28 51 97 208 208 8*30 500 WBSS9-SR2 128:1 65 4000 150 27 F16 210 105 367 269 303 28 55 115 234 258 8*30 500 WBSS9-SR2 143:1 70 5000 146 34 F20 500 105 377 279 325 28 95 113 234 258 8*30 500 WBSS9-SR2 128:1 80 6500 241 27 F16 210 173 391 281 333 28 62 125 241 258 8*30 500 WBS195-SR2 128:1 80 6500 241 27 F25 300 105 377 279 325 28 95 113 234 258 8*30 500 WBS295-SR4 263:1 90 8500 135 63 F25 300 141 455 313 49 28 70 153 280 234 8*30 600 WBS300-SR4 232:1 95 9500 190 50 F30 350 145 500 351 420 28 70 153 280 234 8*30 600 WBS300-BR6-SR1 572:1 110 16000 99 162 F25 300 145 500 351 420 28 70 153 280 234 8*30 600 WBS300-BR6-SR1 572:1 110 16000 89 162 F25 8730 148 563 383 42 28 70 153 280 234 8*30 600 WBS300-BR6-SR1 572:1 110 16000 89 162 F25 8730 148 563 383 42 28 70 153 280 234 8*30 600 WBS300-BR6-SR1 572:1 110 16000 89 162 F25 8730 148 563 383 42 28 70 153 249 260 8*30 600 WBS300-BR6-SR2 1328:1 140 30000 81 370 F35 415 184 709 502 552 28 107 195 286 313 8*30 600 WBS180-RR3-SR2 243:1 140 30000 80 1125 F48 560 251 875 512 572 28 119 179 873 600 WBS180-RR3-SR2 243:1 240 70000 80 1125 F48 560 257 816 626 995 81 832 873 600 WBS180-RR3-SR2 243:1 260 12000 80 1125 F48 560 257 816 626 995 81 832 873 873 600 WBS180-RR3-SR2 244:1 260 12000 85 1411 646 666 666 627 178 666 667 678 68 813 873 600 WBS180-RR3-SR2 254:1 260 12000 80 1125 F48 560 257 81	٨		 				 	!							†					
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WBS195-SR2 128:1 80 6500 241 27 F20 260 117 391 281 333 28 62 125 241 258 8*30 600		WD399-3K2	143:1	/0	5000	146	34	F25	300	106	377	279	325	28	95	113	234	258	8*30	500
MBS295-SR4 263:1 90 8500 135 63 F25 300 117 391 281 333 28 62 125 241 258 8*30 600 MBS390-SR4 263:1 90 8500 135 63 F25 300 141 455 313 449 28 70 153 280 324 8*30 600 MBS300-SR4 232:1 95 9500 190 79 139 F30 350 145 500 351 420 28 70 153 280 324 8*30 600 MBS300-BR6-SR1 535:1 95 11000 79 139 F25 300 145 500 351 420 28 70 153 280 324 8*30 600 MBS300-BR6-SR1 535:1 95 11000 99 162 F25 300 145 500 351 385 28 70 153 280 324 8*30 600 MBS780-BR11-SR2 1093:1 130 23500 83 283 283 283 283 283 283 283 283 283 283 MBS980-BR16-SR2 1328:1 140 30000 81 370 F40 475 188 709 502 552 28 107 19 286 313 8*30 600 MBS180-BR21-SR2 2463:1 180 55000 86 640 F40 475 283 512 507 566 328 329 324 330 600 MBS1180-PR3-SR2 2463:1 180 55000 86 640 F40 475 205 205 205 205 205 205 205 205 205 MBS180-PR3-SR2 2463:1 180 55000 86 640 F40 475 205 205 205 205 205 205 205 205 205 MBS180-PR3-SR2 2463:1 250 70000 80 1125 F48 560 257 281 75 75 281 231 317 310 300 30000 80 1425 F48 560 257 816 626 995 28 183 231 317 320 600 MBS180-PR3-SR2 2463:1 246 240								F16	210	117	391	281	333	28	62	125	241	258	8*30	600
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WBS300-SR4 232:1 95 9500 190 50 F30 350 145 500 351 420 28 70 153 280 324 8*30 600 WBS300-BR6-SR1 335:1 95 11000 79 139 F25 300 145 500 351 385 28 70 153 249 260 8*30 600 WBS680-BR6-SR1 572:1 110 16000 99 162 F30 350 145 500 351 385 28 70 153 249 260 8*30 600 WBS780-BR11-SR2 1093:1 130 23500 83 283 730 175 666 475 474 28 96 193 275 284 8*30 600 WBS980-BR16-SR2 1328:1 140 30000 81 370 F35 415 184 709 502 552 28 107 191 286 313 8*30 600 WBS1080-BR21-SR2 1550:1 145 36000 86 419 F40 475 205 817 567 663 28 133 211 312 336 8*30 600 WBS1180-PR35-SR2 2692:1 200 70000 80 1125 F48 560 275 816 626 995 28 158 265 337 481 8*30 600 WBS1380-PR35-SR2 224:1 260 12000 85 1411 F60 686 257 1078 626 275 1078 28 265 337 481 8*30 600 WBS1380-PR35-SR2 228:1 260 12000 85 1411 F60 686 257 1078 626 295 28 260 303 481 8*30 600 WBS1380-PR35-SR2 228:1 260 12000 85 1411 F60 686 257 1078 626 295 28 100 330 389 453 8*30 600 WBS1380-PR35-SR2 228:1 260 120000 85 1411 F60 686 257 1078 626 995 28 158 265 337 481 8*30 600 WBS1380-PR35-SR2 228:1 260 120000 85 1411 F60 686 257 1078 626 995 28 158 265 337 481 8*30 600 WBS1380-PR35-SR2 228:1 260 120000 85 1411 F60 686 257 1078 626 995 28 158 265 337 481 8*30 600 WBS1380-PR35-SR2 10101:1 310 300000 110 2727 F48 560 257 1078 626 150 105 28 201 330 389 453 600 WBS1380-PR35-SR2 10101:1 310 300000 310 300000 310 2727 F60 686 416 1777 1200 150 28 266 430 445 564 8*30 600 WBS1380-PR35-SR2 10101:1 310 300000 310		WD3233-3N4	203.1	90			ļ	F30	350	141	455	313	449	28	70	153	280	324	8*30	600
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B WBS680-BR6-SR1 572:1 110 16000 99 162 F30 350 148 563 383 424 28 71 156 250 260 8*30 600 WBS780-BR11-SR2 1093:1 130 23500 83 283 F30 350 175 666 475 474 28 96 193 275 284 8*30 600 WBS980-BR16-SR2 1328:1 140 30000 81 370 F35 415 184 709 502 552 28 107 195 286 313 8*30 600 WBS180-BR21-SR2 1550:1 145 36000 86 419 F40 475 188 709 502 552 28 107 195 286 313 8*30 600 WBS1180-PR29-SR2 2463:1 180 55000 86 640 F40 475 205 817 567 663 28 133 211 312 336 8*30 600 WBS1190-PR35-SR2 2692:1 200 70000 96 729 F40 475 210 837 585 758 28 138 231 317 336 8*30 600 WBS1380-PR53-SR2 2544:1 260 120000 85 141 142 F48 560 257 816 626 995 28 158 265 337 418 8*30 600 WBS1380-PR54-SR2 2584:1 260 150000 105 1428 F60 686 257 1078 626 695 28 158 265 337 418 8*30 600 WBS1480-BR126-SR2 10101:1 310 300000 110 2727 F60 686 316 1577 1200 1500 28 266 430 415 648 430 600 WBS1480-BR126-SR2 10101:1 310 300000 110 2727 F60 686 316 1577 1200 1500 28 266 430 415 648 430 600 WBS1480-BR126-SR2 10101:1 310 300000 110 2727 F60 686 316 1577 1200 1500 28 266 430 445 648 430 600 WBS1480-BR126-SR2 10101:1 310 3000000 110 2727 F60 686 316 1577 1200 1500 28 266 430 445 648 430 600 WBS1480-BR126-SR2 10101:1 310 300000 110 2727 F60 686 316 1577 1200 1500 28 266 430 445 648 430 600 WBS1480-BR126-SR2 10101:1 310 300000 110 5760 686 416 1777 1200 1500 28 266 430 445 648 430 600 WBS1480-BR126-SR2 10101:1 310 300000 110 5760 686 416 1777 1200 1500 28 266 430 445 648 430 600 WBS1		WUJJOU-JINI-JINI				,,	<u>.</u>								.	.				
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WBS1380-PR54-SR2 5284:1 260 150000 105 1428 F48 560 257 1078 626 995 28 158 265 337 481 8*30 600 WBS1480-BR126-SR2 10101:1 310 300000 110 2727 F48 560 321 1530 1020 1150 28 210 330 389 453 8*30 600 F60 686 321 1530 1020 1150 28 210 330 389 453 8*30 600 F60 686 321 1530 1020 1150 28 210 330 389 453 8*30 600 F60 686 416 1777 1200 1500 28 266 430 445 564 8*30 600		WBS1380-PR53-SR2	5244:1	260	120000	QĘ	1/11	F48	560	257	816	626	995	28	158	265	337	481	8*30	600
WBS1380-PR54-SR2 5284:1 260 150000 105 1428 F60 686 257 1078 626 995 28 158 265 337 481 8*30 600 WBS1480-BR126-SR2 10101:1 310 300000 110 2727 F48 560 321 1530 1020 1150 28 210 330 389 453 8*30 600 F60 686 321 1530 1020 1150 28 210 330 389 453 8*30 600 F60 686 416 1777 1200 1500 28 266 430 445 564 8*30 600						O.J	1711	F60	686	257	816	626	995	28	158	265	337	481	8*30	600
WBS1480-BR126-SR2 10101:1 310 300000 110 2727 F60 686 257 1078 626 995 28 158/265 337 481 8*30 600 F60 686 257 1078 626 995 28 158/265 337 481 8*30 600 F60 686 321 1530 1020 1150 28 210 330 389 453 8*30 600 F60 686 321 1530 1020 1150 28 210 330 389 453 8*30 600 F60 686 416 1777 1200 1500 28 266 430 445 564 8*30 600 F60 686 416 1777 1200 1500 1500 28 266 430 445 564 8*30 600 F60 686 416 1777 1200 1500		WBS1380-PR54-SR2	5284:1	260	150000	105	1428	ļ				ļ	 	†	ţ	ļ		†	<u> </u>	
WB51480-BR126-SR2 10101:1 310 300000 110 2727 F60 686 321 1530 1020 1150 28 210 330 389 453 8*30 600 F60 686 416 1777 1200 1500 28 266 430 445 564 8*30 600						103									:				:	
F60 686 416 1777 1200 1500 28 266 430 445 564 8*30 600		WBS1480-BR126-SR2	10101:1	310	300000	110	2727					·	÷	·	·	·		†	†	
W851580-R8146-SR2 18518: 380 600000 120 5000 F60 686 416 17/7 1200 1500 28 266 430 445 564 8*30 600								ļ				ļ	ļ	ļ	<u> </u>	ļ		ļ	ļ	
F80 900 416 1777 1200 1500 28 266 430 445 564 8*30 600		WBS1580-BR146-SR2	18518:1	380	600000	120	5000								i			i		





WQG Series Product Structure

- All series are equipped with steel indicator, strong and beautiful
- Skeleton oil seal is more reliable and durable than O-ring
- The worm gear made of ductile iron QT500-7 has the characteristics of high strength and wear resistance
- High precision grinding worm and tapered roller bearing are closely matched, which can significantly improve the transmission efficiency
- The cover of the worm gear box and the secondary reduction box is made of cast steel, and each joint part is sealed with O-ring or skeleton oil seal, and sealed to IP67
- The valve connection is designed according to ISO5211-2017 standard, which is c onvenient for users to match





WQG Series

WQG Part-turn Gearbox Series

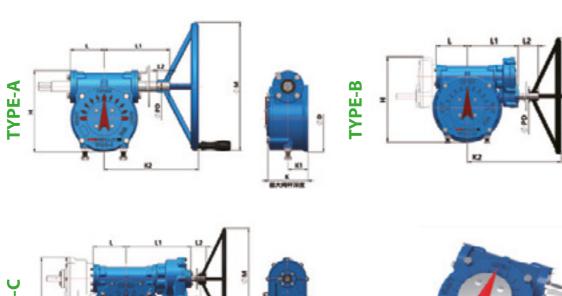
WQG series gear box, cast steel box, solid structure, meet the requirements of industrial grade. The products use high performance tapered roller bearings, which are suichart for chemical industry, power plants, water plants, heating equipment and most industrial fields.

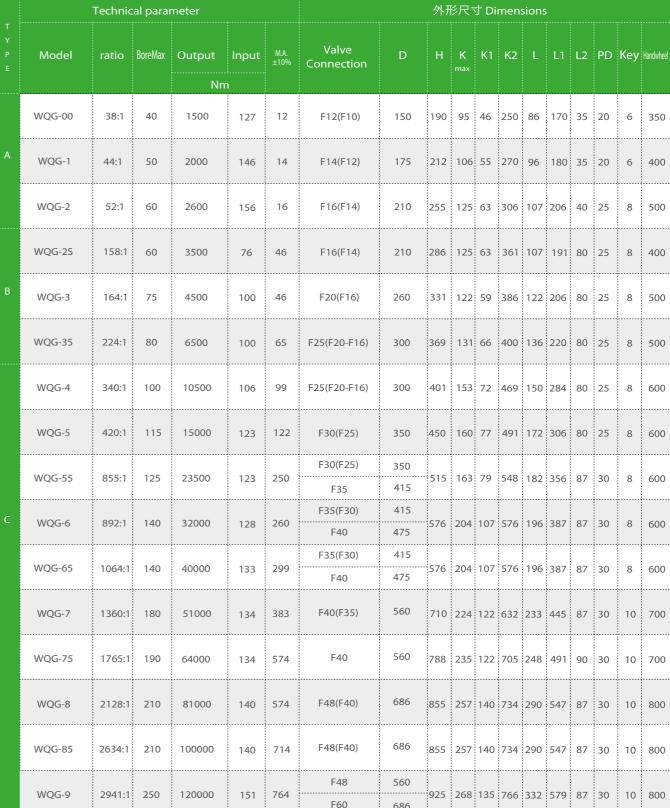
Applications

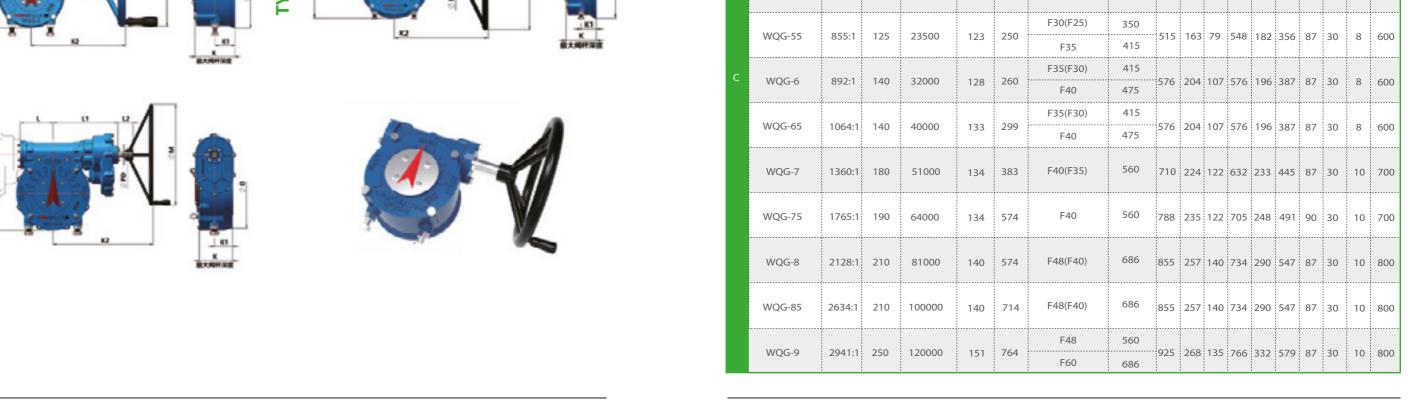
WQG series gearboxes provide a variety of connection flange options, suichart for ball valves, butterfly valves, plug valves

Features

- Totally enclosed gear transmission
- Worm supported by round chain roller bearings
- 16 models up to 120000Nm.
- Standard Enclosure:IP67
- Temperature: -20°C to +80°C
- Stroke: 0-90° (±5° adjuschart)









WQG-D Series

WQG-D series gear box, used with electric actuator, cast steel box, solid structure, meet the requirements of industrial grade.

The products use high performance tapered roller bearings, which are suichart for chemical industry, power plants, water plants, heating equipment and most industrial fields.



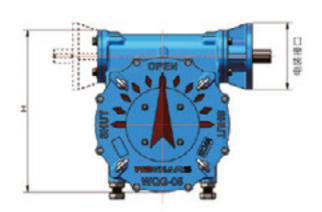
Applications

TYPE-B

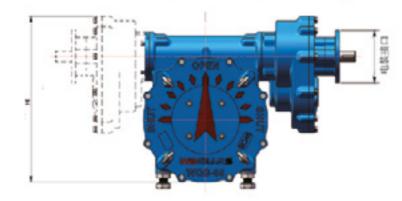
WQG-D series gearboxes provide a variety of connection flange options, suichart for Ball valve, butterfly valve, plug valve

Features

- With different spur gear reducers to achieve different Ratio
- Input flanges are available
- 16 models up to 120000Nm.
- Standard Enclosure:IP67
- Temperature: -20°C to +80°C
- Stoke: 0-90° (±5° adjuschart)











		:							
Type	Model	Valve Connection	Max.	Ratio			Motorised Selection		
			Stem Value		Input (N.m)	Output (N.m)	M.A.(±15%)	JB2920	ISO5210
A	W Q G - 00D	F42(F40)	4.0	38:1	150	1500	10	Z 10	F10
В	WQG-00SD	F12[F10]	40	76:1	68	1500	22	Z 10	F10
	W 0 C 1D			99:1	48	1350	28	Z 10	F10
Α	W Q G - 1D	F14[F12]	50	44:1	150	2000	13	Z 15	F14
В	W Q G - 1S D	F14[F12]	50	88:1	81	2000	25	Z 10	F10
	WOC 2D			114:1	68	2000	29	Z10	F10
A	WQG-2D			52:1	200	3000	15	Z20	F14
				106:1	100	3000 3500	30	Z 10 Z 10	F10 F10
				158:1	81	3500	43	Z 10	F 10
В	WQG-2SD	F 16 [F 14]	60	208:1	60	3500	58	Z 10	F 10
				260:1	48	3500	73	Z 10	F 10
				312:1	40	3500	88	Z 10	F 10
Α	W Q G - 3 D			54:1	300	4500	15	Z30	F 14
	20 35			110:1	150	4500	30	Z 15	F 14
				130:1	125	4500	36	Z 15	F 14
				164:1	100	4500	45	Z 10	F 10
В	W Q G - 3 S D	F20[F16]	75	216:1	81	4500	56	Z 10	F 10
				234:1	68	4500	66	Z 10	F10
				270:1	60	4500	75	Z 10	F10
				324:1	48	4500	94	Z 10	F10
A	W Q G - 35 D			56:1	450	7000	16	Z45	F14/F16
				114:1	200	6500	33	Z20	F 14
				135:1	176	6500	37	Z20	F 14
				160:1	150	6500	43	Z 15	F 14
				170:1	150	7000	47	Z 15	F 14
В	W Q G - 35SD	F25[F20-F16]	80	208:1	108	6500	60	Z 10	F 10
				224:1	100	6500	65	Z 10	F 10
				243:1	100	6500	65	Z 10	F10
				280:1	81	6500	80	Z 10	F10
				336:1	68	6500	96	Z 10	F 10
Α	W Q G - 4 D			56:1	600	10000	17	Z60	F 16
				126:1	300	10500	35	Z30	F 14
				167:1	200	9500	48	Z20	F 14
				179:1	200	10500	53	Z20	F 14
				196:1	150	8500	57	Z 15	F14
С	WQG-4SD	F25[F20-F16]	100	243:1	150	10500	70	Z 15	F14
				340:1	108	10500	97	Z 10	F 10
				392:1	100	10500	105	Z 10	F 10
				429:1	81	10500	130	Z 10	F 10
				672:1	48	9000	188	Z 10	F 10
Α	W Q G - 5 D			60:1	900	15000	17	Z90	F25
				118:1	450	15000	33	Z45	F 14
С	WQG-5SD	F30[F25]	115	145:1	400	15000	38	Z30	F 14
				179:1	300	15000	50	Z30	F 14
				223:1	250	15000	60	Z30	F14



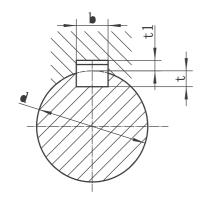


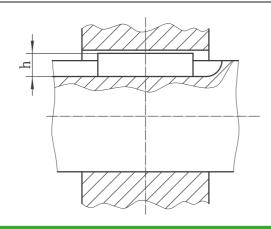
Type Model ValveConnection Max.Bore Ratio Input(N.m) Output (N.m) M.A.(±10%) JB2920 ISO5210 WQG-5SD F30[F25] 115 E30[F25] 115 WQG-5SD F30[F25] 115 E30[F25] 115 E30[F
C WQG-5SD F30[F25] 115 260:1 200 15000 75 Z20 F14 302:1 180 15000 83 Z20 F14 420:1 130 15000 115 Z15 F14 495:1 100 14000 140 Z10 F10 F10 F10 F10 F10 F10 F10 F10 F10 F
C WQG-5SD F30[F25] 115 302:1 180 15000 83 Z20 F14 420:1 130 15000 115 Z15 F14 495:1 100 14000 140 Z10 F10 A WQG-55D 57:1 1200 20500 17 Z120 F25 148:1 600 23500 39 Z60 F16 170:1 450 21500 48 Z45 F16
A WQG-55D 57:1 1200 20500 17 Z120 F16 170:1 450 21500 48 Z45 F16
420:1 130 15000 115 Z15 F14 495:1 100 14000 140 Z10 F10 A WQG-55D 57:1 1200 20500 17 Z120 F25 148:1 600 23500 39 Z60 F16 170:1 450 21500 48 Z45 F16
A WQG-55D 57:1 1200 20500 17 Z120 F25 148:1 600 23500 39 Z60 F16 170:1 450 21500 48 Z45 F16
A WQG-55D 57:1 1200 20500 17 Z120 F25 148:1 600 23500 39 Z60 F16 170:1 450 21500 48 Z45 F16
170:1 450 21500 48 Z45 F16
170:1 450 21500 48 Z45 F16
197:1 450 23500 52 Z45 F16
229:1 300 20000 67 Z30 F14
247:1 300 21000 70 Z30 F14
285:1 300 23500 78 Z30 F14
C WQG-55SD F30[F25]/F35 125 310:1 250 22000 88 Z30 F14
345:1 200 20000 100 Z20 F14
392:1 200 22000 110 Z20 F14
430:1 200 23500 118 Z20 F14
475:1 150 20000 133 Z15 F14
556:1 150 23500 157 Z15 F14
855:1 100 23500 235 Z10 F10
A WQG-6D 64:1 1800 32000 18 Z180 F30
128:1 900 32000 36 Z90 F25
163:1 700 32000 46 Z90 F25
224:1 500 32000 64 Z60 F16
256:1 450 32000 71 Z45 F16
320:1 300 27000 90 Z30 F14
WQG-6SD F35[F30]/F40 140 399:1 300 32000 107 Z30 F14
576:1 200 32000 160 Z20 F14
661:1 150 28000 187 Z15 F14
703:1 150 30000 200 Z15 F14
778:1 150 32000 213 Z15 F14
892:1 125 32000 256 Z15 F14
1021:1 108 32000 296 Z15 F10
A WQG-65D 54:1 2500 40000 16 Z250 F30
122:1 1200 40000 33 Z120 F25
166:1 900 40000 44 Z90 F25
216:1 600 36000 60 Z60 F25
248:1 600 40000 67 Z60 F16
337:1 450 40000 89 Z45 F16
WQG-65SD F35[F30]/F40 140 354:1 400 40000 100 Z45 F16
486:1 300 40000 133 Z30 F14
558:1 244 38000 156 Z30 F14
656:1 203 37000 182 Z20 F14
753:1 176 37000 210 Z20 F14
861:1 150 36000 240 Z20 F14
A WQG-7D 68:1 2500 51000 20 Z250 F30
F40[F35] 180 105:1 1800 51000 28 Z180 F25
C WQG-7SD 154:1 1200 51000 43 Z120 F25

	:		; ;		;				•
Туре	Model	Valve Connection	Max.Bore	Ratio			Motorised selection	IBAGAG	ICO5310
					Input(N.m)	Output (N.m)	M.A.(±10%)	JB2920	ISO5210
				154:1	1200	5 10 0 0	43	Z120	F25
				209:1	900	51000	5 7	Z90	F25
				223:1	600	38000	63	Z90	F16
				272:1	600	46000	77	Z60	F16
				313:1	600	5 10 0 0	85	Z60	F16
C	WQG-7SD	F40[F35]	180	354:1	450	45000	100	Z45	F 16
				4 15 : 1	450	5 10 0 0	113	Z45	F 16
				578:1	300	48000	160	Z30	F 14
				605:1	300	5 10 0 0	170	Z30	F 14
				735:1	250	51000	204	Z30	F 14
				9 11:1	200	5 10 0 0	255	Z20	F 14
				1360:1	108	41000	380	Z 10	F 10
			-	15 4 1: 1	108	47000	435	Z 10	F 10
Α	WQG-75D			65:1	3500	64000	18	Z350	F30
				129:1	1800	64000	36	Z 18 0	F25
				193:1	1200	64000	53	Z120	F25
				259:1	900	64000	71	Z90	F25
				338:1	600	57000	95	Z60	F 16
				380:1	600	64000	107	Z60	F 16
c	WQG-75SD	F40	190	453:1	450	57000	127	Z45	F 16
				5 15 : 1	450	64000	142	Z45	F 16
				788:1	300	64000	2 13	Z30	F 14
				118 1:1	200	64000	320	Z20	F 14
				1340:1	176	64000	364	Z 15	F 14
				1570:1	150	64000	427	Z 15	F 14
				1765:1	130	64000	492	Z 15	F 14
Α	WQG-8D			62:1	3500	65000	19	Z350	F30
				240:1	1200	81000	68	Z120	F25
				322:1	900	81000	90	Z90	F 2 5
				496:1	600	81000	13.5	Z60	F 16
c	WQG-8SD	F48[F40]	210	635:1	450	81000	180	Z45	F 16
				948:1	300	81000	270	Z30	F14
				1460:1	200	81000	405	Z20	F14
				1991:1	150	81000	540	Z 15	F14
				2128:1	135	81000	600	Z 15	F14
Α	W Q G - 85 D			55:1	5000	83000	17	Z500	F30
				194:1	1800	98000	5 4	Z 18 0	F30
				3 0 1:1	1200	100000	83	Z120	F25
				393:1	900	100000	111	Z90	F 2 5
c	WQG-85SD	F48[F40]	210	602:1	600	100000	167	Z60	F16
				824:1	450	100000	222	Z45	F16
				1220:1	300	100000	333	Z30	F14
				1767:1	200	100000	500	Z20	F 14
				1888:1	190	100000	526	Z20	F 14
Α	WQG-9D			64:1	5000	96000	19	Z500	F30
				365:1	1200	125000	104	Z 12 0	F25
				486:1	900	125000	13 9	Z90	F25
	WQG-9SD	E60[E49]	250	576:1	750	120000	160	Z90	F16
С	W Q G - 93D	F60[F48]	250	770:1	600	125000	208	Z60	F 16
				1010:1	450	125000	278	Z45	F16
				2280:1	200	125000	625	Z20	F 14
				2941:1	150	125000	833	Z 15	F 14







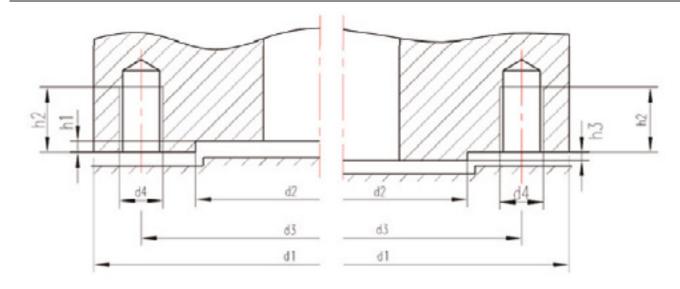


19.5

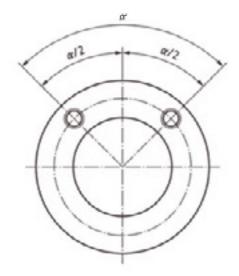
Shaft diameter	Key						Keyway						
Nominal diameter	bxh							Axi		t1			r
			H9	D10	N8	JS9	F9						
6~8	2×2	2	0.03	0.06	-0.004	±	-0.006	1.2		1			
>8~10	3×3	3	0	0.02	-0.029	0.0125	-0.031	1.8		1.4		0.08	0.25
>10~12	4x4	4	0.03	0.08	0		-0.012	2.5	0.1 0	1.8	0.1 0		
>12~17	5×5	5	0.03	0.03	-0.03	±0.015	-0.012	3		2.3			
>17~22	6×6	6		0.03	-0.03		-0.042	3.5		2.8		0.16	0.25
>22~30	8×7	8	0.04	0.1	0	±0.018	-0.015	4		3.3			
>30~38	10×8	10	0	0.04	-0.036	20.010	-0.051	5		3.3			
>38~44	12×8	12						5		3.3			
>44~50	14×9	14	0.04	0.12	0	±	-0.018	5.5		3.8		0.25	0.4
>50~58	16×10	16	0	0.05	-0.043	0.0215	-0.061	6		4.3			
>58~65	18×11	18						7	0.2	4.4	0.2 0		
>65~75	20×12	20						7.5		4.9			
>75~85	22×14	22	0.05	0.15	0	±0.0026	0.03	9		5.4			
>85~95	25×14	25	0	0.07	-0.052	10.0020	0	9		5.4		0.4	0.6
>95~110	28×16	28						10		6.4		8 8 8 8 8	
>110~130	32×18	32						11		7.4			
>130~150	36×20	36	0.06	0.18	0		-0.026	12		8.4			
>150~170	40×22	40			-0.062	±0.031	-0.026	13		9.4		0.7	1
>170~200	45×25	45	0	0.08	-0.062		-0.000	15		10.4		0.7	'

>8~10	3×3	3	0	0.02	-0.029	0.0125	-0.031	1.8		1.4		0.08	0.25
>10~12	4x4	4	0.03	0.08	0		-0.012	2.5	0.1 0	1.8	0.1 0		
>12~17	5×5	5	0.03	0.03	-0.03	±0.015	-0.012	3		2.3			
>17~22	6×6	6		0.03	-0.03		-0.042	3.5		2.8		0.16	0.25
>22~30	8×7	8	0.04	0.1	0	±0.018	-0.015	4		3.3			
>30~38	10×8	10	0	0.04	-0.036	±0.016	-0.051	5		3.3			
>38~44	12×8	12						5		3.3			
>44~50	14×9	14	0.04	0.12	0	±	-0.018	5.5		3.8		0.25	0.4
>50~58	16×10	16	0	0.05	-0.043	0.0215	-0.061	6		4.3			
>58~65	18×11	18						7	0.2 0	4.4	0.2 0		
>65~75	20×12	20						7.5		4.9			
>75~85	22×14	22	0.05	0.15	0	±0.0026	0.03	9		5.4			
>85~95	25×14	25	0	0.07	-0.052	±0.0020	0	9		5.4		0.4	0.6
>95~110	28×16	28						10		6.4		8 8 8 8 8	
>110~130	32×18	32						11		7.4			
>130~150	36×20	36	0.00	0.18	0		-0.026	12		8.4		1 1 2 3 4 4 4	
>150~170	40×22	40	0.06	0.08	-0.062	±0.031	-0.020	13		9.4		0.7	1
>170~200	45×25	45	U	0.06	-0.002		-0.000	15		10.4			
>200~230	50×28	50						17		11.4			
>230~260	56×32	56						20	0.3	12.4	0.3	8 8 8 8	
>260~290	63×32	63	0.07	0.22	0	±0.037	0.032	20	0	12.4	0	1.2	1.6
>290~330	70×36	70	0	0.1	-0.074	±0.037	0.106	22		14.4			
>330~380	80×40	80						25		15.4			
>380~440	90×45	90	0.09	0.26	0	±	-0.037	28		17.4		2	2.5

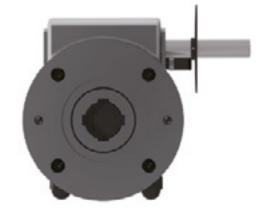
100 0 0.12 -0.087 0.0135 -0.124



	WBGEARS Connection-size													
Flange	d1	d2	d3	h3	h1	d4	h2	Dowel pin						
F05	65	35	50	2.5	3	4-M6	9	-						
F07	90	55	70	2.5	3	4-M8	12	-						
F10	125	70	102	2.5	3	4-M10	15	10-8						
F12	150	85	125	2.5	3	4-M12	18	10-8						
F14	175	100	140	3	4	4-M16	24	12-9						
F16	210	130	165	3	5	4-M20	30	12-9						
F20	260	160	200 (225)	3	5	8-M16	24	12-9						
F25	300	200	254	3	5	8-M16	24	16-13						
F30	350	230	298	3	5	8-M20	30	20-13						
F35	415	260	356	3	5	8-M30	45	25-13						
F40	475	300	406	5	8	8-M36	54	25-13						
F48	560	370	483	5	8	12-M36	54	25-13						
F60	686	470	603	5	8	20-M36	54	30-15						
F80	900	670	813	8	10	20-M42	63	30-15						
F100	1200	870	1042	8	10	32-M42	63	35-20						



Flange type	α/2
F05-F16	45°
F25-F40	22.5°
F48	15°
F60-F80	9°
F100	5.625°



WBS series is limited to 2 locating pin holes in the figure

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GB/T1096

GB/T1097

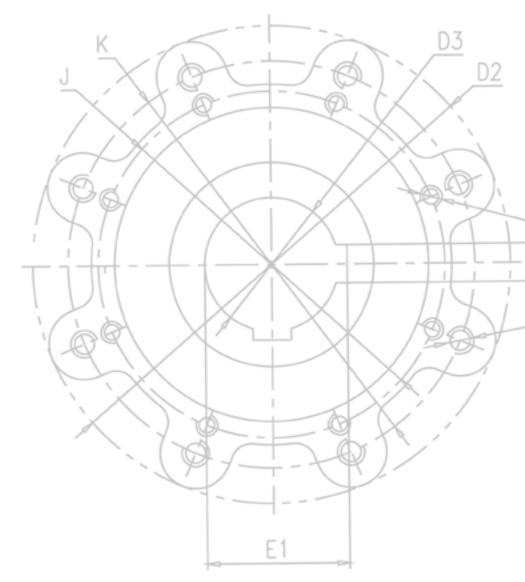
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Notes	









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