

SPECIFICATIONS

MODEL		SP2N2							SP8N2							SP19N2/SP19N2-MH													
		0.4~2							1.5~8							3.5~19													
S.I.RANGE[N · m]		4~20							15~80							35~190													
METIRC RANGE[kgf · cm]		4~20							15~80							35~190													
WIDTH ACROSS FLATS [mm]		5.5	7	8	10	12	13	17	19	7	8	9	10	12	13	19	24	27	10	11	12	13	14	17	19	21	10		
MAX. HAND FORCE [N]		16.1	16	15.9	15.7	15.5	15.3	64	63	62	60	59	125	124	123	122	121	120	121	120	120	120	120	120	120	120	121		
DIMENSION [mm]	EFFECTIVE LENGTH	L	124	125	126	127	129	131	125	126	127	129	131	134	136	153	154	155	156	158	159	158	158	158	158	158			
	OVERALL LENGTH	L'	168	169	171	173	175	176	180	169	171	172	173	175	176	180	186	189	200 (201)	201 (202)	203 (203)	203 (204)	206 (206)	208 (209)	210 (211)	205 (205)	204 (204)	205 (205)	
	HEAD	C	17	18	19	21	23	24	27	28	18	19	2	21	23	24	28	33	36	25	26	27	28	29	30	32	34	21	
		b	5							8	5				8			6			8			12	20	15			
	BODY	m															19												
		n															9.2												
		d															15												
D																24													
WEIGHT[kg]		0.15																											
THRUSTING TOOL [OPTIONAL ACCESSORY]		No.931																											

Accuracy ±3%

MODEL		SP38N2/SP38N2-MH										SP67N2/SP67N2-MH																	
		() dimension is -MH										() dimension is -MH																	
S.I.RANGE[N · m]		8~38										13~67																	
METIRC RANGE[kgf · cm]		80~380										130~670																	
WIDTH ACROSS FLATS [mm]		8	9	10	11	12	13	14	16	17	19	22	24	27	10	14	16	17	18	19	21	22	24	27	29	30	32	33.3	
MAX. HAND FORCE [N]		231	229	228	227	225	223	221	219	218	215	227	224	227	292	290	289	288	287	289	280	277	276	275	274	274	274	274	
DIMENSION [mm]	EFFECTIVE LENGTH	L	165	166	167	168	169	171	172	174	175	177	168	170	168	230	231	232	233	234	235	240	242	243	244	245	245	245	
	OVERALL LENGTH	L'	217 (217)	219 (218)	220 (220)	222 (222)	224 (224)	227 (227)	229 (229)	232 (232)	234 (234)	238 (237)	221 (221)	223 (223)	221 (221)	285 (284)	287 (286)	288 (287)	289 (289)	290 (289)	292 (291)	293 (292)	299 (298)	303 (301)	304 (303)	305 (304)	307 (306)	308 (307)	
	HEAD	C	26	27	28	29	30	31	32	34	35	37	40	42	45	24	35	37	38	39	40	42	43	44	47	49	50	52	54
		b	8														12	20	15	10				11					
	BODY	m															25.5												
		n															11.2												
		d															20												
D																34 (20)													
WEIGHT[kg]		0.37										0.48																	
THRUSTING TOOL [OPTIONAL ACCESSORY]		No.930																											

Accuracy ±3%

MODEL		SP120N2/SP120N2-MH							SP160N2/SP160N2-MH							SP220N2/SP220N2-MH													
		() dimension is -MH							() dimension is -MH							() dimension is -MH													
S.I.RANGE[N · m]		24~120							30~160							45~220													
METIRC RANGE[kgf · cm]		240~1200							300~1600							450~2200													
WIDTH ACROSS FLATS [mm]		14	17	18	19	21	23	27	30	19	21	22	24	26	41	19	22	24	27	29	30	32	34	36	36				
MAX. HAND FORCE [N]		393	392	390	387	385	516	511	500	561	558	557	554	552	550	546	549	543	543	543	543	543	543	543	543				
DIMENSION [mm]	EFFECTIVE LENGTH	L	305	306	308	310	312	310	313	320	393	394	395	397	399	400	403	401	405	405	405	405	405	405	405				
	OVERALL LENGTH	L'	360 (359)	362 (361)	364 (364)	365 (364)	368 (367)	369 (368)	370 (369)	373 (373)	368 (367)	369 (369)	373 (373)	386 (386)	448 (447)	451 (450)	453 (452)	456 (455)	458 (458)	460 (460)	464 (464)	463 (463)	463 (463)	468 (467)	468 (467)				
	HEAD	C	42	45	46	47	50	51	53	55	50	51	52	53	55	70	53	56	58	61	63	65	67	72	72				
		b	10				11	12	14	10	12			14	13				15										
	BODY	m															28							35					
		n															12.2							15					
		d															21.7							27.2					
D																34 (21.5)							38 (27)						
WEIGHT[kg]		0.75							1.3																				
THRUSTING TOOL [OPTIONAL ACCESSORY]		No.930																											

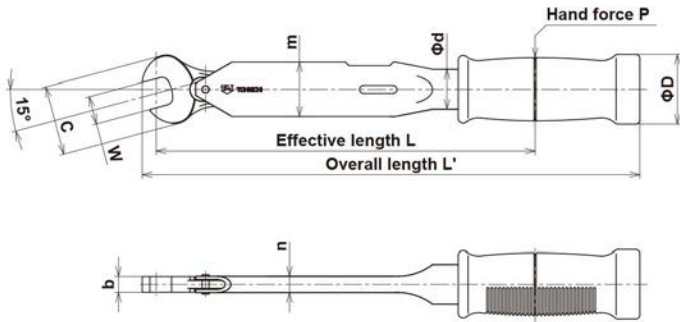
Accuracy ±3%

SPECIFICATIONS

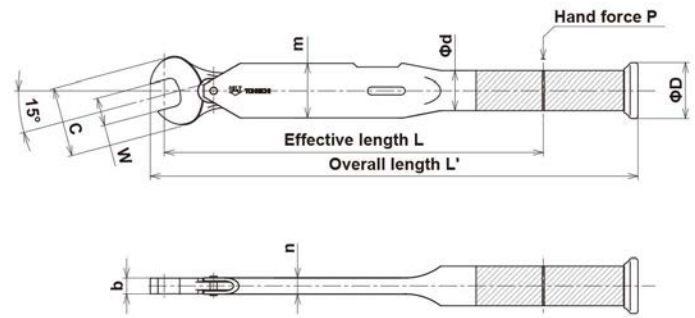
MODEL		SP310N2/SP310N2-MH () dimension is -MH							SP420N		SP560N					
S.I.RANGE[N · m]		65~310							90~420		130~560					
METIRC RANGE[kgf · cm]		650~3100							900~4200		1300~5600					
WIDTH ACROSS FLATS [mm]		22	24	27	30	32	41	46	27	34	30	32	36	46	55	
		-	-	-	-	-	-	-	-	30	35	-	-	-	-	-
MAX. HAND FORCE [N]		525		524	522	521	512		553		615		612			
DIMENSION [mm]	EFFECTIVE LENGTH	L	590		592	594	595	605		760		910		915		
	OVERALL LENGTH	L'	647 (646)	648 (647)	651 (650)	654 (653)	655 (654)	670 (670)	671 (671)	840		995	1000	1005	1010	
	HEAD	C	60	62	65	68	70	80	85	78		81	83	87	97	104
		b	14				15				18		19			
	BODY	m	35				43				45.4					
		n	15				15.8				17.8					
		d	27.2				34									
D		38 (27)				45										
WEIGHT[kg]		1.8							3.3		4		4.5			
THRUSTING TOOL (OPTIONAL ACCESSORY)		No.930							A-6(No.315)							
Accuracy ±3%																

Notes
Models SP2N2 to SP310N2 have a resin grip. Models SP420N, SP560N and SP2-MH have a metal grip.

DIMENSIONS



SP2N2~310N2



SP420N, SP560N, SP2-MH