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**HANDAN YONGNIAN
HONGJI MACHINERY PARTS CO., LTD**

·Integrity ·Quality ·Efficiency

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COMPANY PROFILE



COMPANY PROFILE

HANDAN YONGNIAN HONGJI MACHINERY PARTS CO., LTD
is a company with over 10 years experience in
fastener manufacturing and trading. Looking
forward to inquiry from all over the world.

Introduction

Handan Yongnian Hongji Machinery Parts Co., Ltd is a company with rich experience on fastener manufacture and trading.

The company mainly engaged in **BOLTS**, **NUTS**, **ANCHOR**, **SCREW**, **WASHER**, and other customized fasteners. Over the past 10 years, company has cooperated with over 50 domestic state enterprises and customers from over 15 countries all around the world.

Operation Philosophy

Integrity, the basis of business, is permanently the first personality for each employee.

Professional, we hope and have ability to offer the most professional service and products.

Efficient, the efficient service ensures to meet customer's demands in any situation.

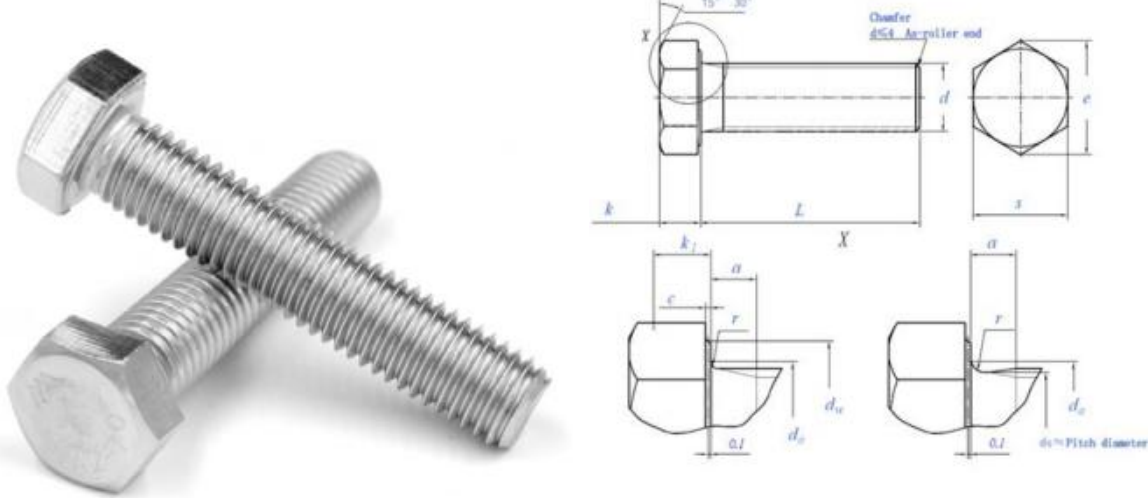
Pragmatic, the key of successful work for us is perfect goods and service.



Good quality may not make an enterprise prosperous, but bad quality can definitely make an enterprise go broke.



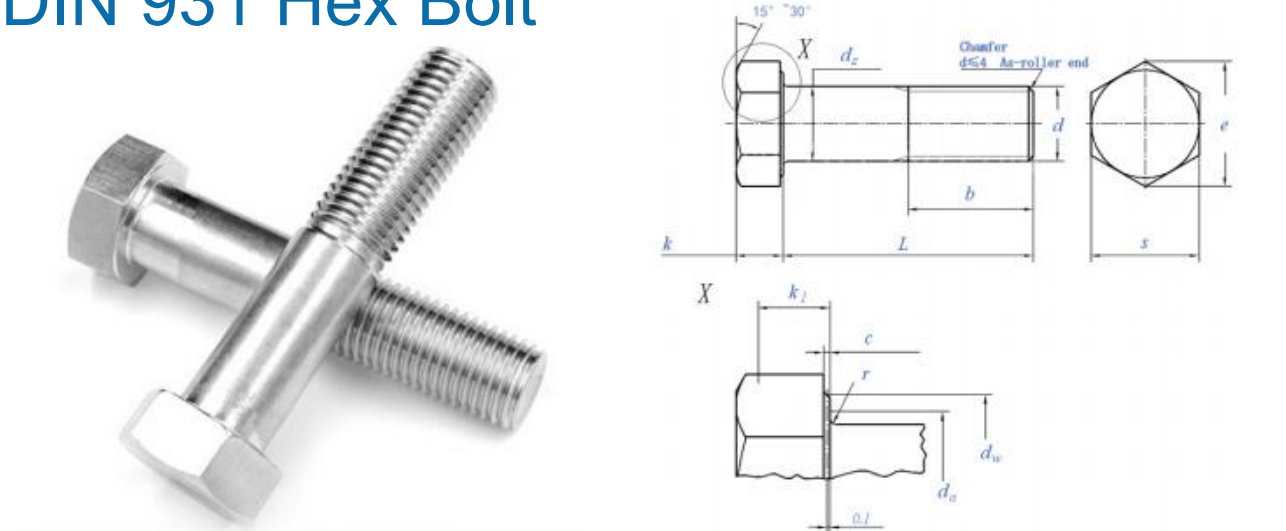
DIN 933 Hex Bolt



d			M1.6	M2	M2.5	M3	(M3.5)	M4	M5	M6	(M7)	M8	M10	M12	(M14)	M16
P	Pitch		0.35	0.4	0.45	0.5	0.6	0.7	0.8	1	1	1.25	1.5	1.75	2	2
a	Max		1.05	1.2	1.35	1.5	1.8	2.1	2.4	3	3	3.75	4.5	5.25	6	6
c	Min		0.1	0.1	0.1	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.2
	Max		0.25	0.25	0.25	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.8
d _s	Max		2	2.6	3.1	3.6	4.1	4.7	5.7	6.8	7.8	9.2	11.2	13.7	15.7	17.7
d _e	A Class	Min	2.4	3.2	4.1	4.6	5.1	5.9	6.9	8.9	9.6	11.6	15.6	17.4	20.5	22.5
	B Class	Min	-	-	-	-	-	5.7	6.7	8.7	9.4	11.4	15.4	17.2	20.1	22
e	A Class	Min	3.41	4.32	5.45	6.01	6.58	7.66	8.79	11.05	12.12	14.38	18.9	21.1	24.49	26.75
	B Class	Min	-	-	-	-	-	7.5	8.63	10.89	11.94	14.2	18.72	20.88	23.91	26.17
k	Nominal		1.1	1.4	1.7	2	2.4	2.8	3.5	4	4.8	5.3	6.4	7.5	8.8	10
	A Class	Min	0.98	1.28	1.58	1.88	2.28	2.68	3.35	3.85	4.65	5.15	6.22	7.32	8.62	9.82
		Max	1.22	1.52	1.82	2.12	2.52	2.92	3.65	4.15	4.95	5.45	6.56	7.68	8.98	10.18
	B Class	Min	-	-	-	-	-	2.6	3.26	3.76	4.56	5.06	6.11	7.21	8.51	9.71
k ₁	Max		-	-	-	-	-	3	3.74	4.24	5.04	5.54	6.69	7.79	9.09	10.29
	Min		0.7	0.9	1.1	1.3	1.6	1.9	2.28	2.63	3.19	3.54	4.28	5.05	5.96	6.8
r	Min		0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.25	0.25	0.4	0.4	0.6	0.6	0.6
	Max=Nominal		3.2	4	5	5.5	6	7	8	10	11	13	17	19	22	24
s	A Class	Min	3.02	3.82	4.82	5.32	5.82	6.78	7.78	9.78	10.73	12.73	16.73	18.67	21.67	23.67
	B Class	Min	-	-	-	-	-	6.64	7.64	9.64	10.57	12.57	16.57	18.48	21.16	23.16

d			(M18)	M20	(M22)	M24	(M27)	M30	(M33)	M36	(M39)	M42	(M45)	M48	(M52)
P	Pitch		2.5	2.5	2.5	3	3	3.5	3.5	4	4	4.5	4.5	5	5
a	Max		7.5	7.5	7.5	9	9	10.5	10.5	12	12	13.5	13.5	15	15
c	Min		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
	Max		0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1	1	1	1	1
d _s	Max		20.2	22.4	24.4	26.4	30.4	33.4	36.4	39.4	42.4	45.6	48.6	52.6	56.6
d _e	A Class	Min	25.3	28.2	30	33.6	-	-	-	-	-	-	-	-	-
	B Class	Min	24.8	27.7	29.5	33.2	38	42.7	46.5	51.1	55.9	59.9	64.7	69.4	74.2
e	A Class	Min	30.14	33.53	35.72	39.98	-	-	-	-	-	-	-	-	-
	B Class	Min	29.56	32.95	35.03	39.55	45.2	50.85	55.37	60.79	66.44	71.3	76.95	82.6	88.25
k	Nominal		11.5	12.5	14	15	17	18.7	21	22.5	25	26	28	30	33
	A Class	Min	11.28	12.28	13.78	14.78	-	-	-	-	-	-	-	-	-
		Max	11.72	12.72	14.22	15.22	-	-	-	-	-	-	-	-	-
	B Class	Min	11.15	12.15	13.65	14.65	16.65	18.28	20.58	22.08	24.58	25.58	27.58	29.58	32.5
k ₁	Max		11.85	12.85	14.35	15.35	17.35	19.12	21.42	22.92	25.42	26.42	28.42	30.42	33.5
r	Min		7.8	8.5	9.6	10.3	11.7	12.8	14.4	15.5	17.2	17.9	19.3	20.9	22.8
	Min		0.6	0.8	0.8	0.8	1	1	1	1	1	1.2	1.2	1.6	1.6
s	Max=Nominal		27	30	32	36	41	46	50	55	60	65	70	75	80
	A Class	Min	26.67	29.67	31.61	35.38	-	-	-	-	-	-	-	-	-
B Class	Min		26.15	29.16	31	35	40	45	49	53.8	58.8	63.1	68.1	73.1	78.1

DIN 931 Hex Bolt



d			M1.6	M2	M2.5	M3	(M3.5)	M4	M5	M6	(M7)	M8	M10	M12
P	Pitch		0.35	0.4	0.45	0.5	0.6	0.7	0.8	1	1	1.25	1.5	1.75
b	L≤125		9	10	11	12	13	14	16	18	20	22	26	30
	125<L≤200		-	-	-	-	-	-	22	24	26	28	32	36
	L>200		-	-	-	-	-	-	-	-	-	-	45	49
c	Min		0.1	0.1	0.1	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
	Max		0.25	0.25	0.25	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6
d _a	Max		2	2.6	3.1	3.6	4.1	4.7	5.7	6.8	7.8	9.2	11.2	13.7
d _s	Max=Nominal		1.6	2	2.5	3	3.5	4	5	6	7	8	10	12
	A级	Min	1.46	1.86	2.36	2.86	3.32	3.82	4.82	5.82	6.78	7.78	9.78	11.73
	B级	Min	-	-	-	-	-	-	-	-	-	-	-	-
d _w	A级	Min	2.4	3.2	4.1	4.6	5.1	5.9	6.9	8.9	9.8	11.6	15.6	17.4
	B级	Min	-	-	-	-	-	-	-	-	-	-	-	-
e	A级	Min	3.41	4.32	5.45	6.01	6.58	7.66	8.79	11.05	12.12	14.38	18.9	21.1
	B级	Min	-	-	-	-	-	-	-	-	-	-	-	-
k	Nominal		1.1	1.4	1.7	2	2.4	2.8	3.5	4	4.8	5.3	6.4	7.6
	A级	Min	0.98	1.28	1.58	1.88	2.28	2.68	3.35	3.85	4.65	5.15	6.22	7.32
		Max	1.22	1.52	1.82	2.12	2.52	2.92	3.65	4.15	4.95	5.45	6.58	7.68
	B级	Min	-	-	-	-	-	-	-	-	-	-	-	-
k ₁	Min		0.7	0.9	1.1	1.3	1.6	1.9	2.28	2.63	3.19	3.54	4.28	5.05
r	Min		0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.25	0.25	0.4	0.4	0.6
s	Max=Nominal		3.2	4	5	5.5	6	7	8	10	11	13	17	19
	A级	Min	3.02	3.82	4.82	5.32	5.82	6.78	7.78	9.78	10.73	12.73	16.73	18.67
	B级	Min	-	-	-	-	-	-	-	-	-	-	-	-
d			(M14)	M16	(M18)	M20	(M22)	M24	(M27)	M30	(M33)	M36	(M39)	
P	Pitch		2	2	2.5	2.5	2.5	3	3	3.5	3.5	4	4	
b	L≤125		34	38	42	46	50	54	60	66	72	78	84	
	125<L≤200		40	44	48	52	56	60	66	72	78	84	90	
	L>200		53	57	61	65	69	73	79	85	91	97	103	
c	Min		0.15	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	
	Max		0.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1	
d _a	Max		15.7	17.7	20.2	22.4	24.4	26.4	30.4	33.4	36.4	39.4	42.4	
d _s	Max=Nominal		14	16	18	20	22	24	27	30	33	36	39	
	A级	Min	13.73	15.73	17.73	19.67	21.67	23.67	-	-	-	-	-	
	B级	Min	-	15.57	17.57	19.48	21.48	23.48	26.48	29.48	32.38	35.38	38.38	
d _w	A级	Min	20.5	22.6	25.3	28.2	30	33.6	-	-	-	-	-	
	B级	Min	-	22	24.8	27.7	29.5	33.2	38	42.7	46.6	51.1	55.9	
e	A级	Min	24.49	26.75	30.14	33.53	35.72	39.98	-	-	-	-	-	
	B级	Min	-	26.17	29.56	32.95	35.03	39.55	45.2	50.85	55.37	60.79	66.44	
k	Nominal		8.8	10	11.5	12.5	14	15	17	18.7	21	22.5	25	
	A级	Min	8.62	9.82	11.28	12.28	13.78	14.78	-	-	-	-	-	
		Max	8.98	10.18	11.72	12.72	14.22	15.22	-	-	-	-	-	
	B级	Min	-	9.71	11.15	12.15	13.65	14.65	16.65	18.28	20.58	22.08	24.58	
k ₁	Min		5.96	6.8	7.8	8.5	9.6	10.3	11.7	12.8	14.4	15.5	17.2	
r	Min		0.6	0.6	0.6	0.8	0.8	0.8	1	1	1	1	1	
s	Max=Nominal		22	24	27	30	32	36	41	46	50	55	60	
	A级	Min	21.67	23.67	26.67	29.67	31.61	35.38	-	-	-	-	-	
	B级	Min	-	23.16	26.16	29.16	31	35	40	45	49	53.8	58.8	

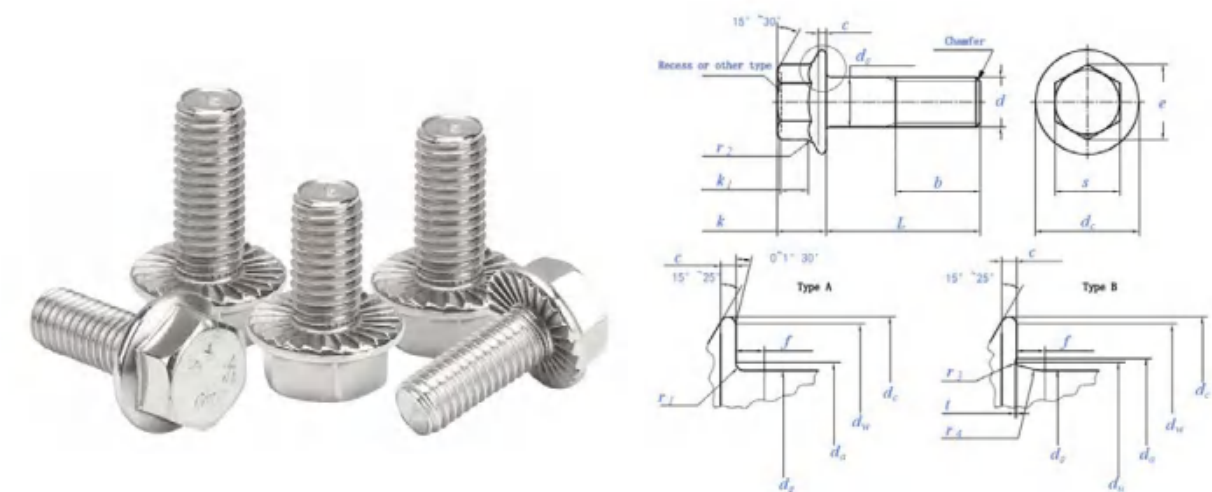
DIN 912 Hex Socket Cap Screw



d			M1.4	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	(M14)	M16	(M18)	M20
P	Coarse thread		0.3	0.35	0.4	0.45	0.5	0.7	0.8	1	1.25	1.5	1.75	2	2	2.5	2.5
	Fine thread		/	/	/	/	/	/	/	/	1	1.25	1.5	1.5	1.5	2	2
	Very Fine thread		/	/	/	/	/	/	/	/	/	1	1.25	/	/	1.5	1.5
b	Reference value		14	15	16	17	18	20	22	24	28	32	36	40	44	48	52
d _a	Max (Smooth)		2.6	3	3.8	4.5	5.5	7	8.5	10	13	16	18	21	24	27	30
	Max (Knurl*)		2.74	3.14	3.98	4.68	5.68	7.22	8.72	10.22	13.27	16.27	18.27	21.33	24.33	27.33	30.33
	Min		2.46	2.86	3.62	4.32	5.32	6.78	8.28	9.78	12.73	15.73	17.73	20.67	23.67	26.67	29.67
d _s	Max		1.4	1.6	2	2.5	3	4	5	6	8	10	12	14	16	18	20
	Min		1.26	1.46	1.86	2.36	2.86	3.82	4.82	5.82	7.78	9.78	11.73	13.73	15.73	17.73	19.67
k	Max		1.4	1.6	2	2.5	3	4	5	6	8	10	12	14	16	18	20
	Min		1.26	1.46	1.86	2.36	2.86	3.82	4.82	5.7	7.64	9.64	11.57	13.57	15.57	17.57	19.48
s	Nominal		1.3	1.5	1.5	2	2.5	3	4	5	6	8	10	12	14	14	17
	Min		1.32	1.52	1.52	2.02	2.52	3.02	4.02	5.02	6.02	8.025	10.025	12.032	14.032	14.032	17.05
	Max		1.36	1.56	1.56	2.06	2.58	3.08	4.095	5.14	6.14	8.175	10.175	12.212	14.212	14.212	17.23
t	Min		0.6	0.7	1	1.1	1.3	2	2.5	3	4	5	6	7	8	9	10

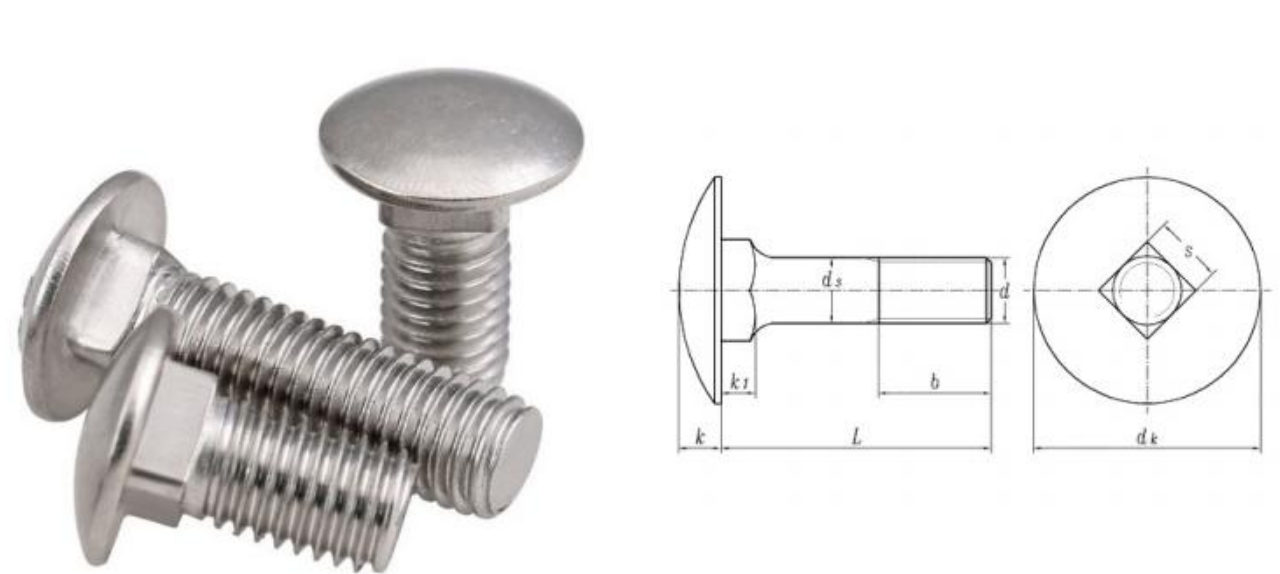
d			(M22)	M24	(M27)	M30	(M33)	M36	M42	M48	M56	M64	M72	M80	M90	M100
P	Coarse thread		2.5	3	3	3.5	3.5	4	4.5	5	5.5	6	6	6	6	6
	Fine thread		2	2	2	2	2	3	3	3	4	4	4	4	4	4
	Very Fine thread		1.5	/	/	/	/	/	/	/	/	/	/	/	/	/
b	Reference value		56	60	66	72	78	84	96	108	124	140	156	172	192	212
d _a	Max (Smooth)		33	36	40	45	50	54	63	72	84	96	108	120	135	150
	Max (Knurl*)		33.39	36.39	40.39	45.39	50.39	54.46	63.46	72.46	84.54	96.54	108.54	120.54	135.63	150.63
	Min		32.61	35.61	39.61	44.61	49.61	53.54	62.54	71.54	83.46	95.46	107.46	119.46	134.37	149.37
d _s	Max		22	24	27	30	33	36	42	48	56	64	72	80	90	100
	Min		21.67	23.67	26.67	29.67	32.61	35.61	41.61	47.61	55.54	63.54	71.54	79.54	89.46	99.46
k	Max		22	24	27	30	33	36	42	48	56	64	72	80	90	100
	Min		21.48	23.48	26.48	29.48	32.38	35.38	41.38	47.38	56.26	63.26	71.26	79.26	89.13	99.13
s	Nominal		17	19	19	22	24	27	32	36	41	46	55	65	75	85
	Min		17.05	19.065	19.065	22.065	24.065	27.065	32.08	36.08	41.08	46.08	55.1	65.1	75.1	85.12
	Max		17.23	19.275	19.275	22.275	24.275	27.275	32.33	36.33	41.33	46.33	55.4	65.4	75.4	85.47
t	Min		11	12	13.5	15.5	18	19	24	28	34	38	43	48	54	60

DIN 6921 Flange Bolt



d			M5	M6	M8	M10	M12	M14	M16	M20
P	Pitch	Coarse	0.8	1	1.25	1.5	1.75	2	2	2.5
		Fine thread1	/	/	1	1.25	1.5	1.5	1.5	1.5
		Fine thread2	/	/	/	1	1.25	/	/	/
b	L ≤ 125		16	18	22	26	30	34	38	46
	125 < L ≤ 200		/	/	28	32	36	40	44	52
	L > 200		/	/	/	/	/	/	57	65
c	Min		1	1.1	1.2	1.5	1.8	2.1	2.4	3
d _a	Type A	Max	5.7	6.8	9.2	11.2	13.7	15.7	17.7	22.4
	Type B	Max	6.2	7.4	10	12.6	15.2	17.7	20.7	25.7
d _c	Max		11.8	14.2	18	22.3	26.6	30.5	35	43
d _s	Max		5	6	8	10	12	14	16	20
	Min		4.82	5.82	7.78	9.78	11.73	13.73	15.73	19.67
d _u	Max		5.5	6.6	9	11	13.5	15.5	17.5	22
d _w	Min		9.8	12.2	15.8	19.6	23.8	27.6	31.9	39.9
e	Min		8.71	10.95	14.26	16.5	17.62	19.86	23.15	29.87
f	Max		1.4	2	2	2	3	3	3	4
k	Max		5.4	6.6	8.1	9.2	11.5	12.8	14.4	17.1
k ₁	Min		2	2.5	3.2	3.6	4.6	5.1	5.8	6.8
r ₁	Min		0.25	0.4	0.4	0.4	0.6	0.6	0.6	0.8
r ₂	Max		0.3	0.4	0.5	0.6	0.7	0.9	1	1.2
r ₃	Min		0.1	0.1	0.15	0.2	0.25	0.3	0.35	0.4
r ₄	≈		3	3.4	4.3	4.3	6.4	6.4	6.4	8.5
s	Max=Nominal		8	10	13	15	16	18	21	27
	Min		7.78	9.78	12.73	14.73	15.73	17.73	20.67	26.67

DIN 603 Carriage Bolt



d		M5	M6	M8	M10	M12	M16	M20
P	Pitch	0.8	1	1.25	1.5	1.75	2	2.5
b	L≤125	16	18	22	26	30	38	46
	25<L≤200	22	24	28	32	36	44	52
	L>200	/	/	41	45	49	57	65
d _k	Max	13.55	16.55	20.65	24.65	30.65	38.8	46.8
	Min	12.45	15.45	19.35	23.35	29.35	37.2	45.2
d _s	Max	5	6	8	10	12	16	20
	Min	4.52	5.52	7.42	9.42	11.3	15.3	19.16
k ₁	Max	4.1	4.6	5.6	6.6	8.75	12.9	15.9
	Min	2.9	3.4	4.4	5.4	7.25	11.1	14.1
k	Max	3.3	3.88	4.88	5.38	6.95	8.95	11.05
	Min	2.7	3.12	4.12	4.62	6.05	8.05	9.95
s	Max	5.48	6.48	8.58	10.58	12.7	16.7	20.84
	Min	4.52	5.52	7.42	9.42	11.3	15.3	19.16

U-type Bolt



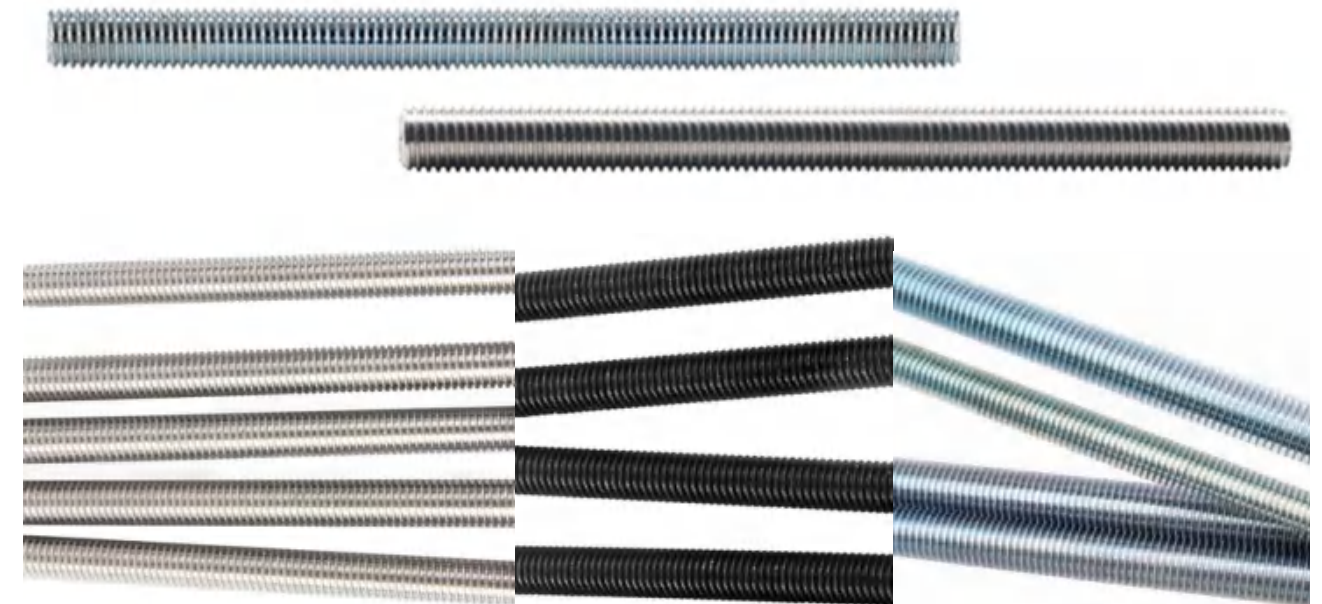
Stainless Steel/ Zinc Plated/ Hot Dipped Galvanized

Foundation Anchor Bolt



Black Oxide/ Zinc Plated/ Hot Dipped Galvanized
4.8/6.8/8.8 CLASS

Thread Rod



Stainless Steel/ Zinc Plated/ Hot Dipped Galvanized/
Black Oxide
SUS 304/316; 4.8/6.8/8.8 CLASS

Stud Bolt



Stainless Steel 304/316; Carbon Steel 35CrMo/ 40Cr/
42CrMo
Plain Surface/ Black Oxide/ Zinc Plated/ Teflon

DIN 934 Hex Nut



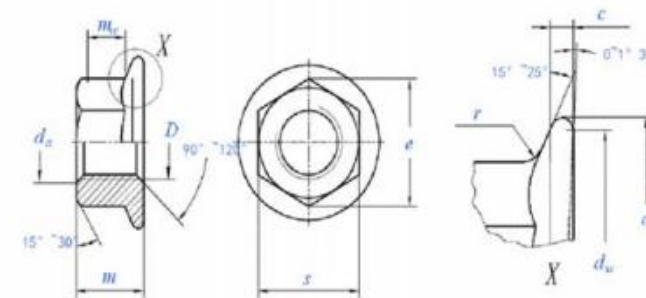
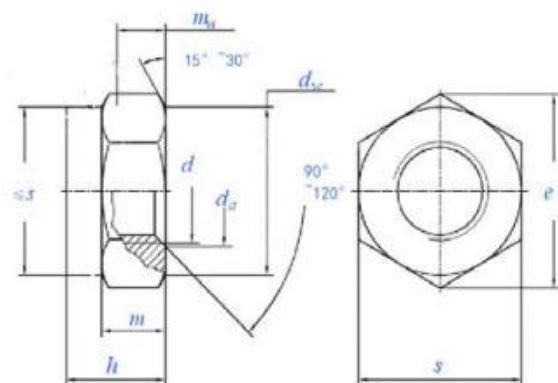
d		M1	M1.2	M1.4	M1.6	(M1.7)	M2	(M2.3)	M2.5	(M2.6)	M3	(M3.5)	M4	M5	M6	(M7)	M8
P	Coarse thread	0.25	0.25	0.3	0.35	0.35	0.4	0.45	0.45	0.45	0.5	0.6	0.7	0.8	1	1	1.25
	Fine thread	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Fine thread	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
m	Max-Nominal	0.8	1	1.2	1.3	1.4	1.6	1.8	2	2	2.4	2.8	3.2	4	5	5.5	6.5
	Min	0.55	0.75	0.95	1.05	1.15	1.35	1.55	1.75	1.75	2.15	2.55	2.9	3.7	4.7	5.2	6.14
s	Max-Nominal	0.44	0.6	0.76	0.84	0.92	1.08	1.24	1.4	1.4	1.73	2.04	2.32	2.96	3.76	4.16	4.91
	Min	2.5	3	3	3.2	3.5	4	4.5	5	5	5.5	6	7	8	10	11	13
e	Max-Nominal	2.4	2.9	2.9	3.02	3.38	3.82	4.32	4.82	4.82	5.32	5.82	6.78	7.78	9.78	10.73	12.73
	Min	2.71	3.28	3.28	3.41	3.82	4.32	4.88	5.45	5.45	6.01	6.58	7.66	8.79	11.05	12.12	14.38
Weight of mpcs≈kg		0.03	0.054	0.063	0.076	0.1	0.142	0.2	0.28	0.72	0.384	0.514	0.81	1.23	2.5	3.12	5.2

d		M10	M12	(M13)	M16	(M18)	M20	(M22)	M24	(M25)	M30	(M32)	M36	(M38)	M42	(M45)	M50
P	Coarse thread	1.5	1.75	2	2	2.5	2.5	2.5	3	3	3.5	3.5	4	4	4.5	4.5	5
	Fine thread	1	1.5	1.5	1.5	1.5	2	1.5	2	2	2	2	3	3	3	3	3
	Fine thread	1.25	1.25	/	/	2	1.5	2	/	/	/	/	/	/	/	/	/
m	Max-Nominal	8	10	11	13	15	18	19	22	24	26	29	31	34	36	38	38
	Min	7.64	9.64	10.3	12.3	14.3	14.9	16.9	17.7	20.7	22.7	24.7	27.4	29.4	32.4	34.4	36.4
s	Max-Nominal	6.11	7.71	8.24	9.84	11.44	11.92	13.52	14.16	16.56	18.16	19.76	21.92	23.52	25.9	27.5	29.1
	Min	17	19	22	24	27	30	32	36	41	46	50	55	60	65	70	75
e	Max-Nominal	16.73	18.67	21.67	23.67	26.16	29.16	31	35	40	45	49	53.8	58.8	63.1	68.1	73.1
	Min	18.9	21.1	24.49	26.75	29.36	32.95	35.03	39.55	45.2	50.85	55.37	60.79	66.44	71.3	76.95	82.6
Weight of mpcs≈kg		11.6	17.3	25	33.3	49.4	64.4	79	110	165	223	288	393	502	652	800	977

d		(M52)	M56	(M60)	M64	(M68)	M72	(M76)	M80	(M85)	M90	M100	M110	M120	M140	M160
P	Coarse thread	5	5.5	5.5	6	6	/	/	/	/	/	/	/	/	/	/
	Fine thread	3	4	4	4	4	6	6	6	6	6	6	6	6	6	6
	Fine thread	/	/	/	/	/	4	4	4	4	4	4	4	4	/	/
m	Max-Nominal	42	45	48	51	54	58	61	64	68	72	80	88	100	112	128
	Min	40.4	43.4	46.4	49.1	52.1	56.1	59.1	62.1	66.1	70.1	78.1	85.8	97.8	109.8	125.5
s	Max-Nominal	32.3	34.7	37.1	39.3	41.7	44.9	47.3	49.7	52.9	56.1	62.5	68.6	78.2	87.8	100
	Min	80	85	90	95	100	105	110	115	120	130	145	155	180	200	230
e	Max-Nominal	78.1	82.8	87.8	92.8	97.8	102.8	107.8	112.8	117.8	122.5	142.5	152.5	177.5	195.4	225.4
	Min	88.25	93.56	99.21	104.86	110.51	116.16	121.81	127.46	133.11	144.08	161.02	172.32	200.57	220.8	254.7
Weight of mpcs≈kg		1220	1420	1690	1980	2360	2670	3040	3440	3930	4930	6820	8200	13000	17500	26500

DIN 985 Nylon Lock Nut

DIN 6923 Flange Nut

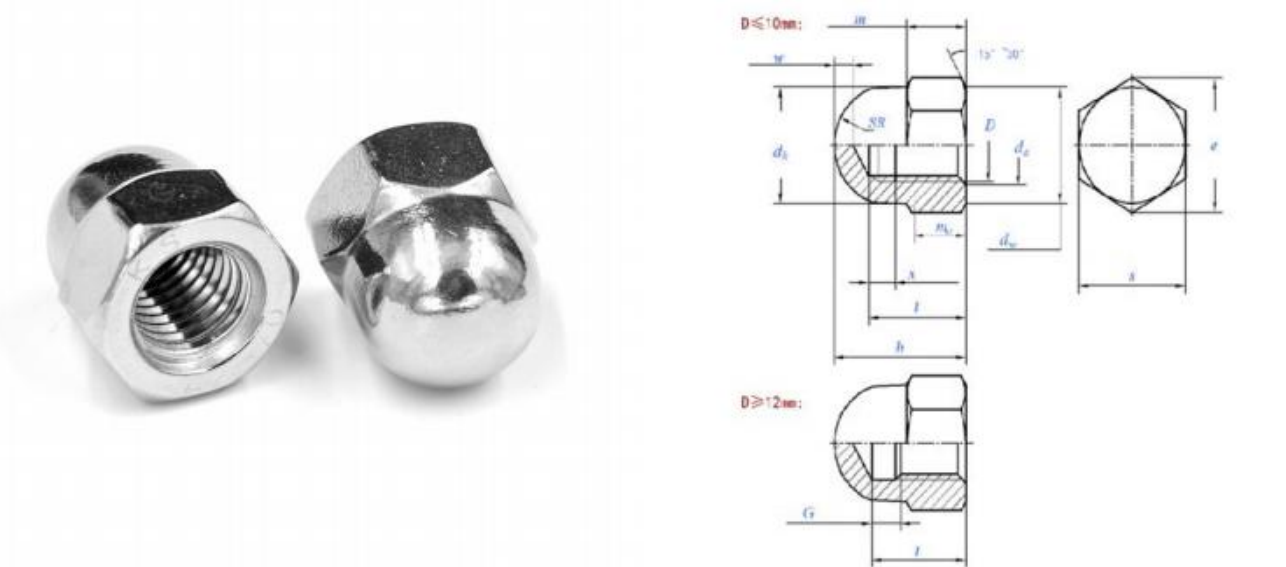


d			M3	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18
P	Pitch	Coarse thread	0.5	0.7	0.8	1	1	1.25	1.5	1.75	2	2	2.5
		Fine thread1	/	/	/	/	/	1	1	1.5	1.5	1.5	2
		Fine thread2	/	/	/	/	/	/	1.25	1.25	/	/	1.5
d _a	Min	3	4	5	6	7	8	10	12	14	16	18	
	Max	3.45	4.6	5.75	6.75	7.75	8.75	10.8	13	15.1	17.3	19.5	
d _w	Min	4.6	5.9	6.9	8.9	9.6	11.6	15.6	17.4	20.5	22.5	24.9	
e	Min	6.01	7.66	8.79	11.05	12.12	14.38	18.9	21.1	24.49	26.75	29.56	
h	Max=Nominal	4	5	5	6	7.5	8	10	12	14	16	18.5	
	Min	3.7	4.7	4.7	5.7	7.14	7.64	9.64	11.57	13.3	15.3	17.66	
m	Min	2.4	2.9	3.2	4	4.7	5.5	6.5	8	9.5	10.5	13	
m _w	Min	1.65	2.2	2.75	3.3	3.85	4.4	5.5	6.6	7.7	8.8	9.9	
s	Max=Nominal	5.5	7	8	10	11	13	17	19	22	24	27	
	Min	5.32	6.78	7.78	9.78	10.73	12.73	16.73	18.67	21.67	23.67	26.16	
Weight of mpcs≈kg			0.5	1	1.4	2.4	3	5.1	10.6	17.2	26	34	45

d			M5	M6	M8	M10	M12	M14	M16	M20
P	Pitch	Coarse thread	0.8	1	1.25	1.5	1.75	2	2	2.5
		Fine thread1	/	/	1	1.25	1.5	1.5	1.5	1.5
		Fine thread2	/	/	/	-1	-1.25	/	/	/
c	Min		1	1.1	1.2	1.5	1.8	2.1	2.4	3
d _a	Min		5	6	8	10	12	14	16	20
	Max		5.75	6.75	8.75	10.8	13	15.1	17.3	21.6
d _c	Max		11.8	14.2	17.9	21.8	26	29.9	34.5	42.8
d _w	Min		9.8	12.2	15.8	19.6	23.8	27.6	31.9	39.9
e	Min		8.79	11.05	14.38	16.64	20.03	23.36	26.75	32.95
m	Max		5	6	8	10	12	14	16	20
	Min		4.7	5.7	7.6	9.6	11.6	13.3	15.3	18.9
m _w	Min		2.2	3.1	4.5	5.5	6.7	7.8	9	11.1
s	Max=Nominal		8	10	13	15	18	21	24	30
	Min		7.78	9.78	12.73	14.73	17.73	20.67	23.67	29.67
r	Max		0.3	0.36	0.48	0.6	0.72	0.88	0.96	1.2

d			M20	M22	M24	M27	M30	M33	M36	M39	M42	M45	M48
P	Pitch	Coarse thread	2.5	2.5	3	3	3.5	3.5	4	4	4.5	4.5	5
		Fine thread1	2	2	2	2	2	2	3	3	3	3	3
		Fine thread2	1.5	1.5	/	/	/	/	/	/	/	/	/
d _a	Min	20	22	24	27	30	33	36	39	42	45	48	
	Max	21.6	23.7	25.9	29.1	32.4	35.6	38.9	42.1	45.4	48.6	51.8	
d _w	Min	27.7	29.5	33.2	38	42.7	46.6	51.1	55.9	60.6	64.7	69.4	
e	Min	32.95	35.03	39.55	45.2	50.85	55.37	60.79	66.44	72.09	76.95	82.6	
h	Max=Nominal	20	22	24	27	30	33	36	39	42	45	48	
	Min	18.7	20.7	22.7	25.7	28.7	31.4	34.4	37.4	40.4	43.4	46.4	
m	Min	14	15	15	17	19	22	25	27	29	32	36	
m _w	Min	11	12.2	13.2	14.8	16.5	18.2	19.8	21.5	23.1	24.8	26.5	
s	Max=Nominal	30	32	36	41	46	50	55	60	65	70	75	
	Min	29.16	31	35	40	45	49	53.8	58.8	63.8	68.1	73.1	
Weight of mpcs≈kg			65	75	100	162	212	317	415	499	628	771	998

DIN 1587 Spherical Nut



d			M4	M5	M6	M8	M10	M10	M12	M12
P	Type 1	Coarse thread	0.7	0.8	1	1.25	1.5	1.5	1.75	1.75
	Type 2	Fine thread	/	/	/	1	1	1	1.5	1.5
	Type 3	Fine thread	/	/	/	/	1.25	1.25	1.25	1.25
d _a	Min		4	5	6	8	10	10	12	12
	Max		4.6	5.75	6.75	8.75	10.8	10.8	13	13
d _k	Max		6.5	7.5	9.5	12.5	15	16	17	18
d _w	Min		5.8	6.8	8.3	11.3	14.3	15.3	16.2	17.2
e	Min	Type A	7.66	8.79	11.05	14.38	17.77	18.9	20.03	21.1
		Type B	7.5	8.63	10.89	14.2	17.59	18.72	19.85	20.88
x	Max	Type 1	1.4	1.6	2	2.5	3	3	/	/
		Type 2	/	/	/	2	2	2	/	/
		Type 3	/	/	/	/	2.5	2.5	/	/
G	Max	Type 1	/	/	/	/	/	/	6.4	6.4
		Type 2	/	/	/	/	/	/	5.6	5.6
		Type 3	/	/	/	/	/	/	4.9	4.9
h	Max=Nominal		8	10	12	15	18	18	22	22
	Min	Type A	7.64	9.64	11.57	14.57	17.57	17.57	21.48	21.48
		Type B	7.42	9.42	11.3	14.3	17.3	17.3	21.16	21.16
m	Max		3.2	4	5	6.5	8	8	10	10
	Min		2.9	3.7	4.7	6.14	7.64	7.64	9.64	9.64
m _w	Min		2.32	2.96	3.76	4.91	6.11	6.11	7.71	7.71
SR	≈		3.25	3.75	4.75	6.25	7.5	8	8.5	9
s	Max=Nominal		7	8	10	13	16	17	18	19
	Min	Type A	6.78	7.78	9.78	12.73	15.73	16.73	17.73	18.67
		Type B	6.64	7.64	9.64	12.57	15.57	16.57	17.57	18.48
t	Min		5.26	7.21	7.71	10.65	12.65	12.65	15.65	15.65
	Max		5.74	7.79	8.29	11.35	13.35	13.35	16.35	16.35
w	Min		2	2	2	2	2	2	3	3
Weight of mpcs≈kg			/	/	4.66	11	/	20.1	/	28.3

DIN 1587 Spherical Nut

d			M14	(M14)	M16	(M18)	M20	(M22)	(M22)	M24
P	Type 1	Coarse thread	2	2	2	2.5	2.5	2.5	2.5	3
	Type 2	Fine thread	1.5	1.5	1.5	1.5	2	2	1.5	2
	Type 3	Fine thread	/	/	/	2	1.5	1.5	2	/
d _a	Min		14	14	16	18	20	22	22	24
	Max		15.1	15.1	17.3	19.5	21.6	23.7	23.7	25.9
d _k	Max		20	21	23	26	28	31	33	34
d _w	Min		19.2	20.2	22.2	25.3	28.3	29.5	31.4	33.2
e	Min	Type A	23.35	24.49	26.75	30.14	33.53	35.72	37.72	39.98
		Type B	22.78	23.91	26.17	29.56	32.95	35.03	37.29	39.55
x	Max	Type 1	/	/	/	/	/	/	/	/
		Type 2	/	/	/	/	/	/	/	/
		Type 3	/	/	/	/	/	/	/	/
G	Max	Type 1	7.3	7.3	7.3	9.3	9.3	9.3	9.3	10.7
		Type 2	5.6	5.6	5.6	5.6	7.3	5.6	5.6	7.3
		Type 3	/	/	/	7.3	5.6	7.3	7.3	/
h	Max=Nominal		25	25	28	32	34	39	39	42
	Min	Type A	24.48	24.48	27.48	31.38	33.38	38.38	38.38	41.38
		Type B	24.16	24.16	27.16	31	33	38	38	41
m	Max		11	11	13	15	16	18	18	19
	Min		10.3	10.3	12.3	14.3	14.9	16.9	16.9	17.7
m _w	Min		8.24	8.24	9.84	11.44	11.92	13.52	13.52	14.16
SR	≈		10	10.5	11.5	13	14	15.5	16.5	17
s	Max=Nominal		21	22	24	27	30	32	34	36
	Min	Type A	20.67	21.67	23.67	26.67	29.67	31.61	33.38	35.38
		Type B	20.16	21.16	23.16	26.16	29.16	31	33	35
t	Min		17.65	17.65	20.58	24.58	25.58	28.58	28.58	30.5
	Max		18.35	18.35	21.42	25.42	26.42	29.42	29.42	31.5
w	Min		4	4	4	5	5	5	5	6
Weight of mpcs≈kg			/	57.2	54.3	95	104	129	/	216

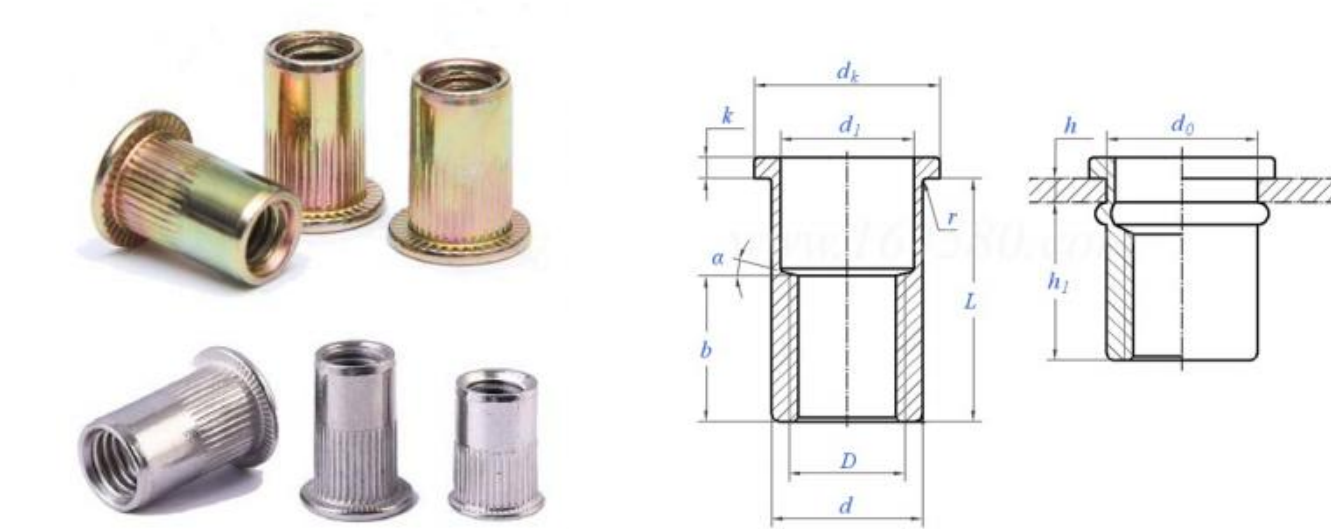
Wing Nut



Welding Nut

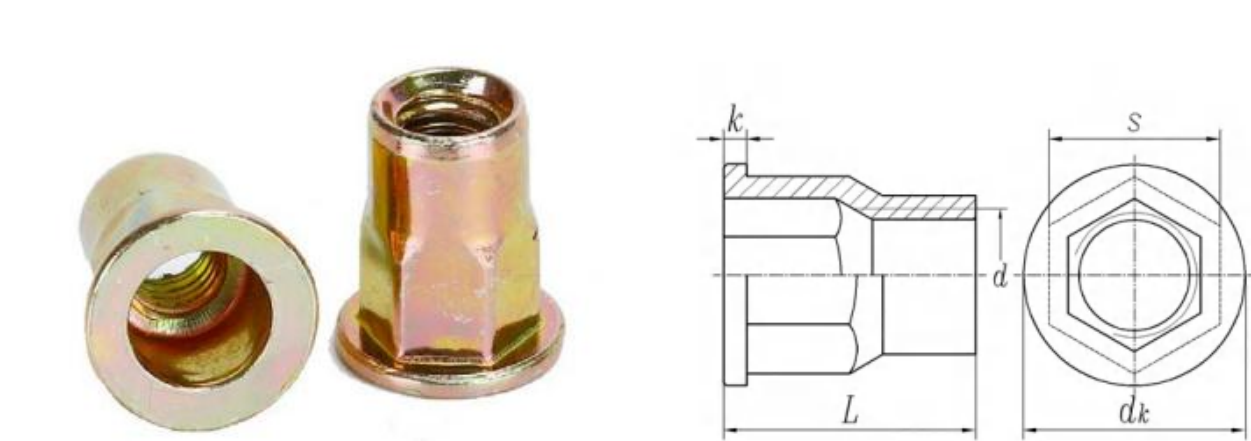


Flat Head Rivet Nut



D		M3	M4	M5	M6	M8	M10	M10	M12	M12
P	Coarse/Fine	0.5	0.7	0.8	1	1.25	1.5	1	1.75	1.5
d	Nominal	5	6	7	9	11	13	13	15	15
	Max	4.97	5.97	6.97	8.97	10.97	12.97	12.97	14.97	14.97
	Min	4.9	5.9	6.9	8.9	10.9	12.9	12.9	14.9	14.9
d _l	Max	4.12	4.92	5.72	7.65	9.35	11.18	11.18	13.18	13.18
	Min=Nominal	4	4.8	5.6	7.5	9.2	11	11	13	13
d _k	Max	8	9	10	12	14	16	16	18	18
k		0.8	0.8	1	1.5	1.5	1.8	1.8	1.8	1.8
r		0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
d ₀	Max	5.15	6.15	7.15	9.15	11.15	13.15	13.15	15.15	15.15
	Min=Nominal	5	6	7	9	11	13	13	15	15
h ₁	Reference	5.8	7.5	9.3	11	12.3	15	15	17.5	17.5

Flat Hex Head Rivet Nut



d		M4	M4	M5	M6	M8	M10	M10
d	UNC/BSW	#832 UNC	5/32 32 BSW	3/16 24 BSW	1/4 20 UNC	5/16 18 UNC	3/8 16 BSW	3/8 16 BSW
s	Nominal	5.9	5.9	6.9	8.9	10.9	12.9	11.9
	Max	5.97	5.97	6.97	8.97	10.97	12.97	11.97
	Min	5.7	5.7	6.7	8.7	10.7	12.7	11.7
d _k	Nominal	9	9	10	12.7	16	17	14.5
	Max	9.3	9.3	10.3	13	16.3	17.3	14.8
	Min	8.7	8.7	9.7	12.4	15.7	16.7	14.2
k	Nominal	1	1	1	1.5	1.5	1.7	1.7
	Max	1.2	1.2	1.2	1.7	1.7	1.9	1.9
	Min	0.8	0.8	0.8	1.3	1.3	1.5	1.5
L	Nominal	11	11	13	15	18	20	20
	Max	11.3	11.3	13.3	15.3	18.3	20.3	20.3
	Min	10.7	10.7	12.7	14.7	17.7	19.7	19.7
Riveting Thickness		0.5~2	0.5~2	0.5~2.5	0.5~3	1~3	2~3.5	2~3.5

Rivet Nut



Wood Insert Nut

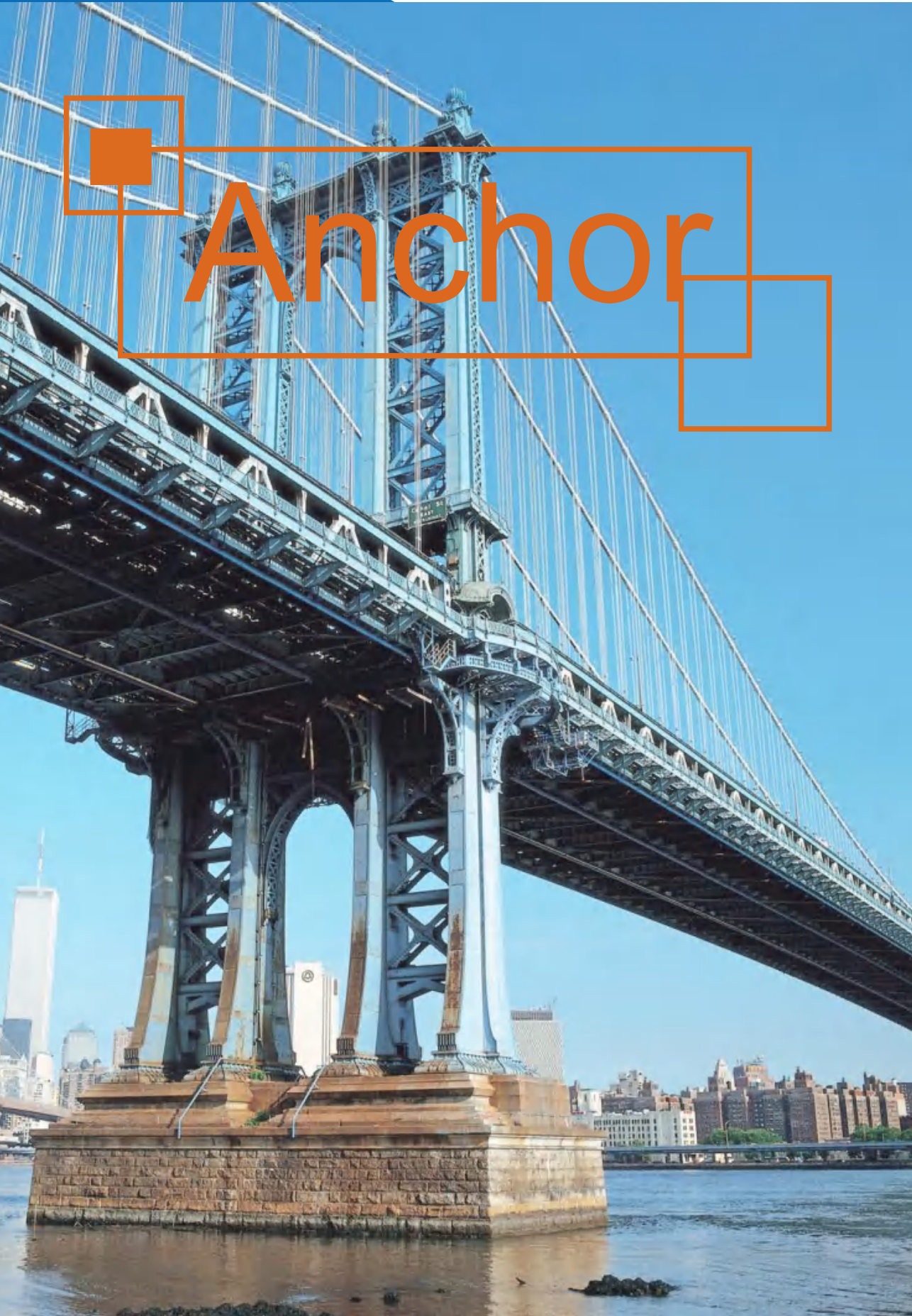


Furniture Nut



Other Nut





Wedge Anchor



Stainless Steel A2/A4



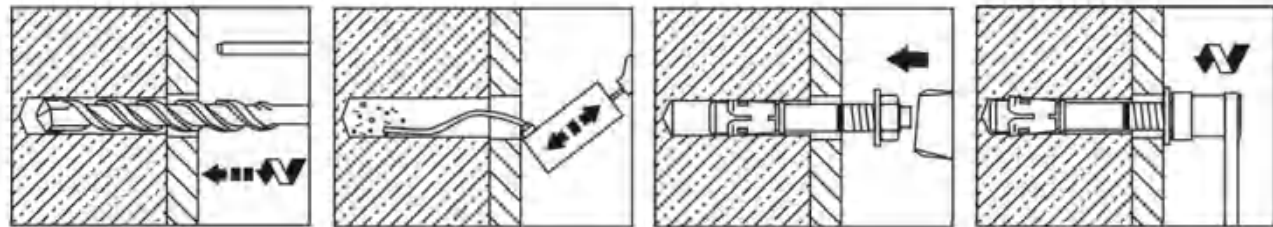
Galvanized min.5µm



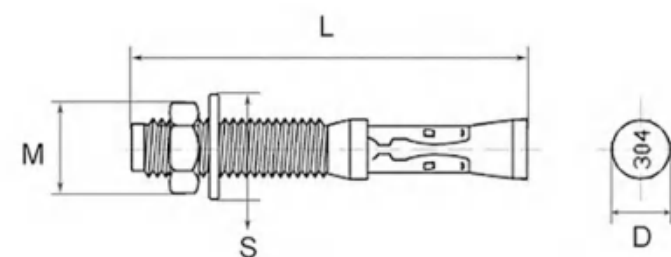
Hot-dip Galvanized min.35µm



Install Procedure



Wedge Anchor



size	L	D	S	M	Bore	Weight
	mm					kg
M6*50	50	6	M6*12*1.6	10	6	12.5
M6*60	60	6	M6*12*1.6	10	6	14.5
M6*75	75	6	M6*12*1.6	10	6	16.7
M6*100	100	6	M6*12*1.6	10	6	21.2
M8*60	60	8	M8*16*1.6	13	8	27.2
M8*70	70	8	M8*16*1.6	13	8	30.4
M8*75	75	8	M8*16*1.6	13	8	32
M8*80	80	8	M8*16*1.6	13	8	33.6
M8*90	90	8	M8*16*1.6	13	8	36.8
M8*100	100	8	M8*16*1.6	13	8	40
M8*115	115	8	M8*16*1.6	13	8	44.8
M10*70	70	10	M10*20*2	17	10	49
M10*75	75	10	M10*20*2	17	10	51.5
M10*80	80	10	M10*20*2	17	10	54
M10*90	90	10	M10*20*2	17	10	59
M10*100	100	10	M10*20*2	17	10	64
M10*120	120	10	M10*20*2	17	10	74
M12*75	75	12	M12*24*2.5	19	12	71
M12*100	100	12	M12*24*2.5	19	12	92
M12*110	110	12	M12*24*2.5	19	12	100
M12*115	115	12	M12*24*2.5	19	12	108
M12*120	120	12	M12*24*2.5	19	12	112
M12*140	140	12	M12*24*2.5	19	12	124
M12*150	150	12	M12*24*2.5	19	12	132
M16*100	100	16	M16*30*3	24	16	175
M16*120	120	16	M16*30*3	24	16	204
M16*140	140	16	M16*30*3	24	16	224
M16*150	150	16	M16*30*3	24	16	237

Wedge Anchor

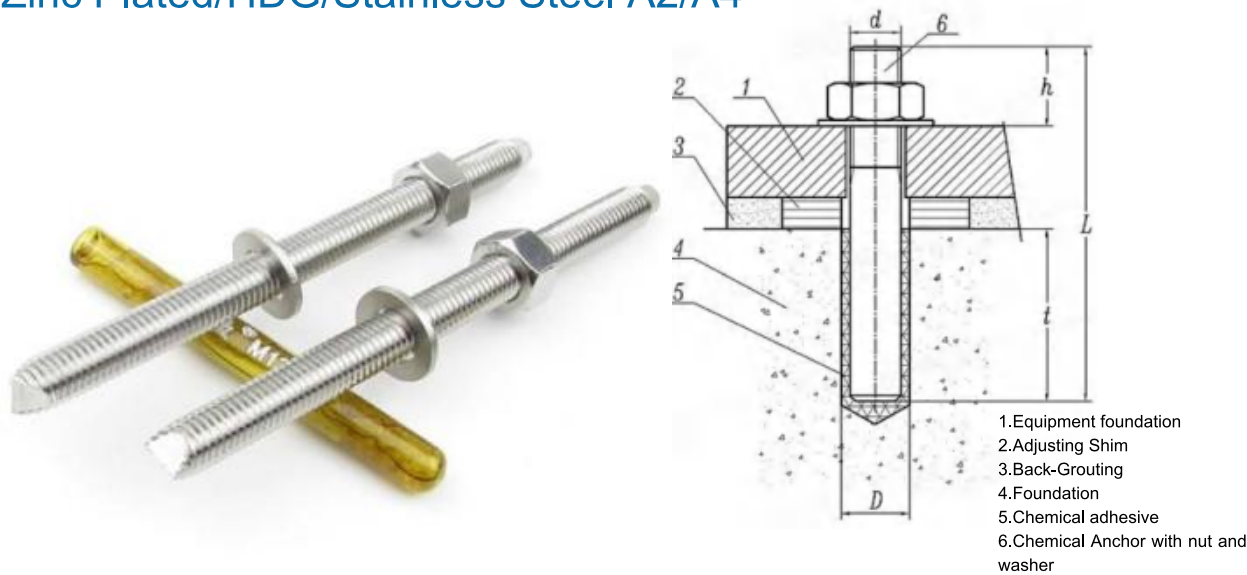


Anchor Size	Anchor length	Drill bit diameter	Drill. hole depth at embed. 1	Drill. hole depth at embed.2	Drill. hole depth at embed.3	Fastening thickness at embed.1	Fastening thickness at embed.2	Fastening thickness at embed.3	Base plate clearance hole	Required tightening torque
M6	50 mm	6 mm	42 mm	-	-	5 mm	-	-	7 mm	5 Nm
M6	65 mm	6 mm	42 mm	52 mm	-	20 mm	10 mm	-	7 mm	5 Nm
M6	85 mm	6 mm	42 mm	52 mm	72 mm	40 mm	30 mm	10 mm	7 mm	5 Nm
M6	100 mm	6 mm	42 mm	52 mm	72 mm	55 mm	45 mm	25 mm	7 mm	5 Nm
M8	54.5 mm	8 mm	44 mm	-	-	5 mm	-	-	9 mm	15 Nm
M8	69.5 mm	8 mm	44 mm	54 mm	-	20 mm	10 mm	-	9 mm	15 Nm
M8	84.5 mm	8 mm	44 mm	54 mm	-	35 mm	25 mm	-	9 mm	15 Nm
M8	104.5 mm	8 mm	44 mm	54 mm	84 mm	55 mm	45 mm	15 mm	9 mm	15 Nm
M8	129.5 mm	8 mm	44 mm	54 mm	84 mm	80 mm	70 mm	40 mm	9 mm	15 Nm
M10	68 mm	10 mm	55 mm	-	-	5 mm	-	-	12 mm	25 Nm
M10	83 mm	10 mm	55 mm	65 mm	-	20 mm	10 mm	-	12 mm	25 Nm
M10	98 mm	10 mm	55 mm	65 mm	-	35 mm	25 mm	-	12 mm	25 Nm
M10	113 mm	10 mm	55 mm	65 mm	95 mm	50 mm	40 mm	10 mm	12 mm	25 Nm
M10	133 mm	10 mm	55 mm	65 mm	95 mm	70 mm	60 mm	30 mm	12 mm	25 Nm
M10	153 mm	10 mm	55 mm	65 mm	95 mm	90 mm	80 mm	50 mm	12 mm	25 Nm
M10	168 mm	10 mm	55 mm	65 mm	95 mm	105 mm	95 mm	65 mm	12 mm	25 Nm
M12	84.5 mm	12 mm	72 mm	-	-	5 mm	-	-	14 mm	50 Nm
M12	99.5 mm	12 mm	72 mm	87 mm	-	20 mm	5 mm	-	14 mm	50 Nm
M12	114.5 mm	12 mm	72 mm	87 mm	-	35 mm	20 mm	-	14 mm	50 Nm
M12	144.5 mm	12 mm	72 mm	87 mm	122 mm	65 mm	50 mm	15 mm	14 mm	50 Nm
M12	174.5 mm	12 mm	72 mm	87 mm	122 mm	95 mm	80 mm	45 mm	14 mm	50 Nm
M12	204.5 mm	12 mm	72 mm	87 mm	122 mm	125 mm	110 mm	75 mm	14 mm	50 Nm
M12	224.5 mm	12 mm	72 mm	87 mm	122 mm	145 mm	130 mm	95 mm	14 mm	50 Nm
M16	101.5 mm	16 mm	85 mm	-	-	5 mm	-	-	18 mm	80 Nm
M16	116.5 mm	16 mm	85 mm	100 mm	-	20 mm	25 mm	-	18 mm	80 Nm
M16	136.5 mm	16 mm	85 mm	100 mm	-	40 mm	25 mm	-	18 mm	80 Nm
M16	181.5 mm	16 mm	85 mm	100 mm	140 mm	85 mm	70 mm	30 mm	18 mm	80 Nm
M16	231.5 mm	16 mm	85 mm	100 mm	140 mm	135 mm	120 mm	80 mm	18 mm	80 Nm
M20	125 mm	20 mm	98 mm	-	-	10 mm	-	-	22 mm	200 Nm
M20	170 mm	20 mm	98 mm	123 mm	138 mm	55 mm	30 mm	15 mm	22 mm	200 Nm

Capsule Adhesive Chemical Anchor

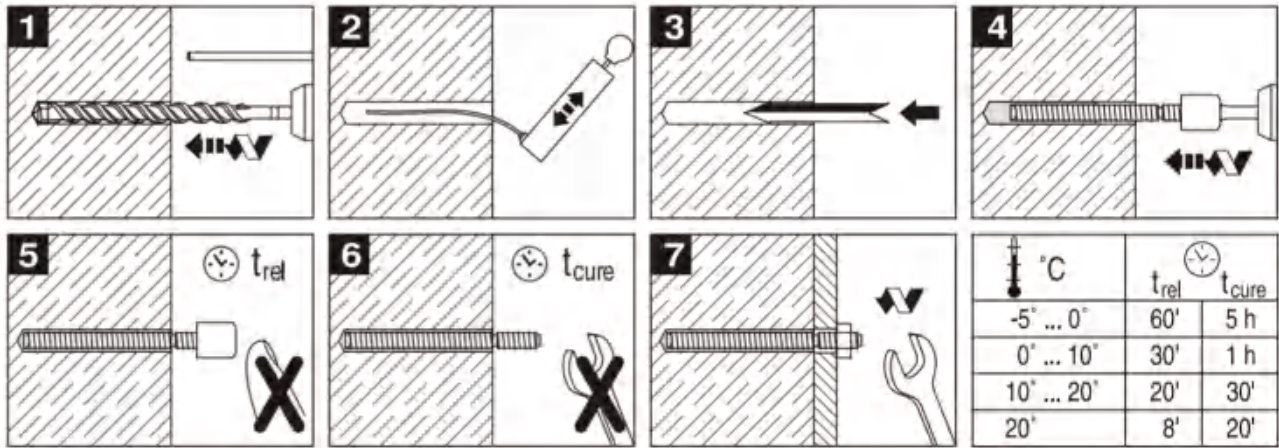
5.8CS/8.8 CS

Zinc Plated/HDG/Stainless Steel A2/A4



Capsule Size	Stud Size	Drilling Diameter mm	Embedment Depth mm	Maximum Anchorage Thickness mm	Tension(KN)	Shear(KN)
RM8	8*110	10	80	13	7.5	7.8
RM10	10*130	12	90	20	10.9	12.3
RM12	12*160	14	110	25	16.3	17.9
RM14	14*180	16	115	30	20.6	25.2
RM16	16*190	18	125	35	23.3	34.0
RM18	18*220	21	150	65	33.5	41.7
RM20	20*260	25	170	65	42.9	52.1
RM22	22*280	26	190	65	47.5	60.3
RM24	24*300	28	210	65	59.7	74.5
RM27	27*330	32	240	65	68.1	90.4
RM30	30*380	35	280	65	79.0	120.8

Install Procedure

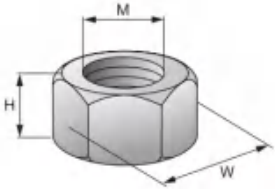


Resin Capsule



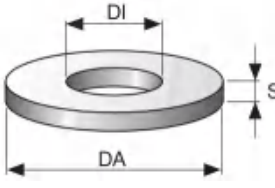
Dia	Drill Diameter(mm)	Hole Depth(mm)	Effective Anchorage Depth(mm)	Box Quantity	Outer Carton Quantity
M8	10	80	80	20	1000
M10	12	90	90	20	1000
M12	14	110	110	20	1000
M14	16	120	120	20	700
M16	18	125	125	20	700
M18	20	160	160	20	200
M20	23	170	170	20	180
M22	26	180	180	20	140
M24	28	210	210	10	140
M30	35	280	280	5	70

DIN 934 Nut



Thread - M	Height - H	Wrench size - W
M8	7 mm	13 mm
M10	8 mm	17 mm
M12	10 mm	19 mm
M14	11 mm	22 mm
M16	13 mm	24 mm
M18	15 mm	27 mm
M20	16 mm	30 mm
M22	18 mm	32 mm
M24	19 mm	36 mm
M27	22 mm	41 mm
M30	24 mm	46 mm

DIN 125 Washer



Anchor Size	Inside diameter - DI	Outside diameter - DA	Cross section thickness - s
M8	8.5 mm	16 mm	1.6 mm
M10	10.5 mm	20 mm	2 mm
M12	13 mm	24 mm	2.5 mm
M14	15 mm	28 mm	2.5 mm
M16	17 mm	30 mm	3 mm
M18	19 mm	34 mm	3 mm
M20	21 mm	37 mm	3 mm
M24	25 mm	44 mm	4 mm
M27	28 mm	50 mm	4 mm
M30	31 mm	56 mm	4 mm

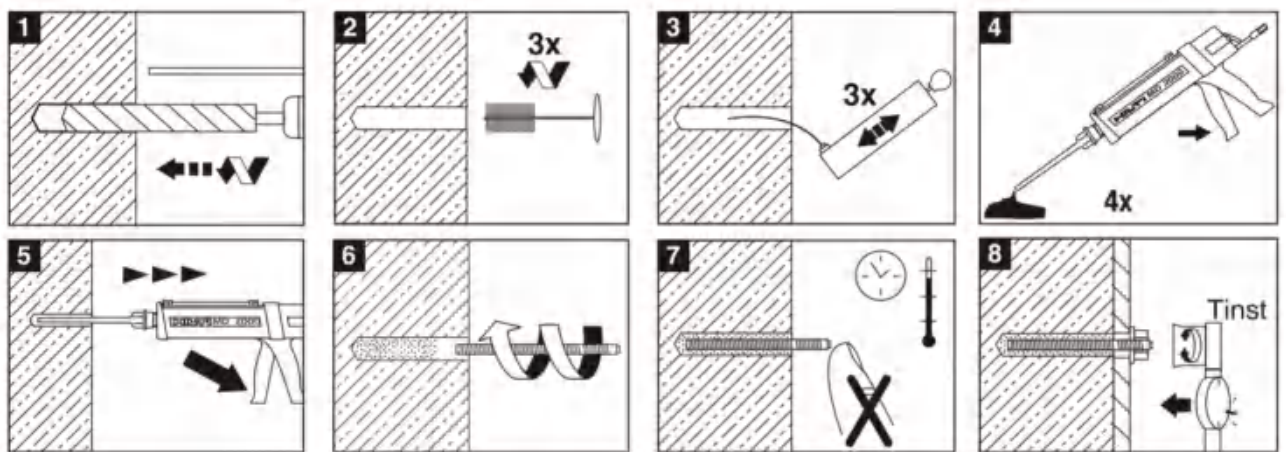
Epoxy Adhesive Injectable Mortar



Net Content: 360ML/390ML/600ML/650ML

Chemical anchor material, consists of epoxy resin, chemical adhesive, and filling materials, which has the advantages of tensile resistance, compression resistance, seismic resistance, water resistance, aging resistance, acid and alkali resistance, and high anchorage strength. It can be widely used in anchoring of between many types of rebar (or bolt) and concrete, natural stone, clay brick, air brick and so on.

Install Procedure



Curing Time		
Temperature in the base material T [°C]	Maximum working time tgel [min]	Minimum curing time tcure [h]
5°C - 9°C	120	72
10°C - 14°C	100	48
15°C - 19°C	80	24
20°C - 29°C	30	12
30°C - 39°C	30	8
40°C	20	4

Other Anchors



Heavy Duty 3/4 PCS Shield Anchor

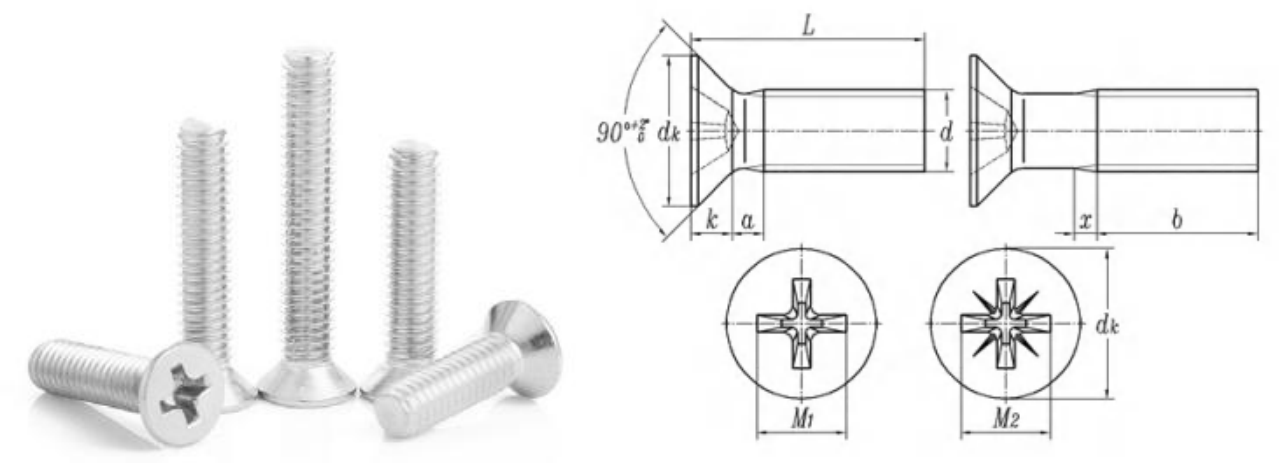


Sleeve Anchor



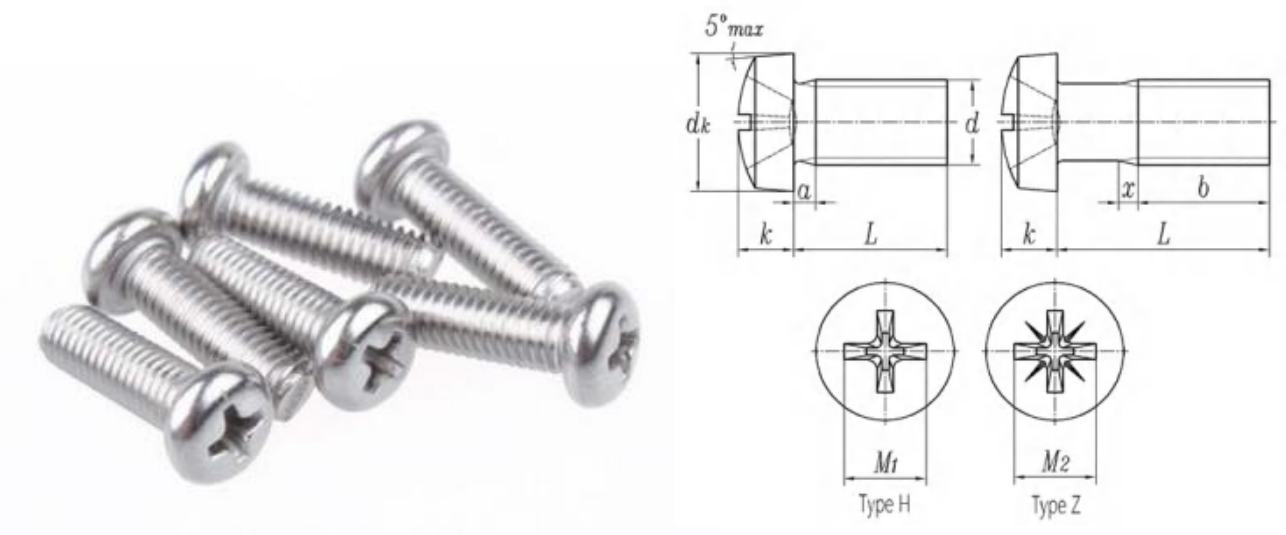


DIN 965



d		M1.6	M2	M2.5	M3	(M3.5)	M4	M5	M6	M8	M10
P	Pitch	0.35	0.4	0.45	0.5	0.6	0.7	0.8	1	1.25	1.5
a	Max	0.7	0.8	0.9	1	1.2	1.4	1.6	2	2.5	3
b	Min	15	16	18	19	20	22	25	28	34	40
dk	Max=Nominal	3	3.8	4.7	5.6	6.5	7.5	9.2	11	14.5	18
	Min	2.75	3.5	4.4	5.3	6.14	7.14	8.84	10.57	14.07	17.57
k	Max	0.96	1.2	1.5	1.65	1.93	2.2	2.5	3	4	5
x	Max	0.9	1	1.1	1.25	1.5	1.75	2	2.5	3.2	3.8
Through type		0	1	1	1	2	2	2	3	4	4
M1	≈	1.7	2.35	2.7	2.9	3.9	4.4	4.6	6.6	8.7	9.6
M2	≈	1.8	2.2	2.5	2.8	3.7	4	4.4	6.1	8.5	9.4

DIN7985



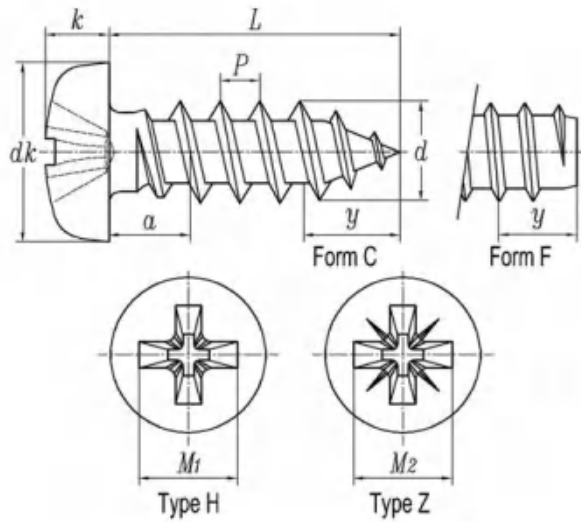
d			M1.6	M2	M2.5	M3	(M3.5)	M4	M5	M6	M8	M10
P	Pitch		0.35	0.4	0.45	0.5	0.6	0.7	0.8	1	1.25	1.5
a	Max		0.7	0.8	0.9	1	1.2	1.4	1.6	2	2.5	3
b	Min		15	16	18	19	20	22	25	28	34	40
dk	Max=Nominal		3.2	4	5	6	7	8	10	12	16	20
	Min		2.9	3.7	4.7	5.7	6.64	7.64	9.64	11.57	15.57	19.48
k	Nominal		1.3	1.6	2	2.4	2.7	3.1	3.8	4.6	6	7.5
	Max		1.42	1.72	2.12	2.52	2.82	3.25	3.95	4.75	6.15	7.68
	Min		1.18	1.48	1.88	2.28	2.58	2.95	3.65	4.45	5.85	7.32
x	Max		0.9	1	1.1	1.25	1.5	1.75	2	2.5	3.2	3.8
Through type			0	1	1	1	2	2	2	3	4	4
M ₁			1.8	2.5	2.7	3.1	4.2	4.6	5.3	6.8	9	10.2
M ₂			1.8	2.4	2.6	3	4	4.3	5	6.7	8.8	9.9

DIN7991



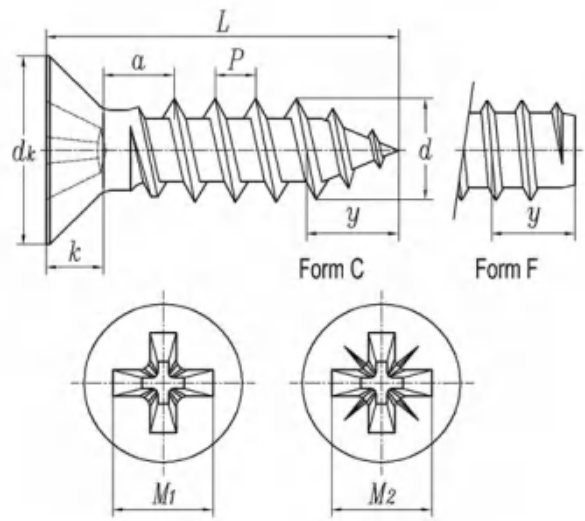
d		M3	M4	M5	M6	M8	M10	M12	(M14)	M16	(M18)	M20	(M22)	M24
P	Pitch	0.5	0.7	0.8	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3
α	tol. (+2)	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	60°	60°
b	L ≤ 125mm	12	14	16	18	22	26	30	34	38	42	46	50	54
	125 < L ≤ 200	/	/	/	24	28	32	36	40	44	48	52	56	60
	L > 200	/	/	/	/	/	45	49	53	57	61	65	69	73
dk	Max=Nominal	6	8	10	12	16	20	24	27	30	33	36	36	39
	Min	5.7	7.64	9.64	11.57	15.57	19.48	23.48	26.48	29.48	32.38	35.38	35.38	38.38
ds	Max=Nominal	3	4	5	6	8	10	12	14	16	18	20	22	24
	Min	2.86	3.82	4.82	5.82	7.78	9.78	11.73	13.73	15.73	17.73	19.67	21.67	23.67
e	Min	2.3	2.87	3.44	4.58	5.72	6.86	9.15	11.43	11.43	13.72	13.72	16	16
k	Max	1.7	2.3	2.8	3.3	4.4	5.5	6.5	7	7.5	8	8.5	13.1	14
s	Nominal	2	2.5	3	4	5	6	8	10	10	12	12	14	14
	Min	2.02	2.52	3.02	4.02	5.02	6.02	8.025	10.025	10.025	12.032	12.032	14.032	14.032
	Max	2.1	2.6	3.1	4.12	5.14	6.14	8.175	10.175	10.175	12.212	12.212	14.212	14.212
t	Max=Nominal	1.2	1.8	2.3	2.5	3.5	4.4	4.6	4.8	5.3	5.5	5.9	8.8	10.3
	Min	0.95	1.55	2.05	2.25	3.2	4.1	4.3	4.5	5	5.2	5.6	8.44	9.87

DIN7981



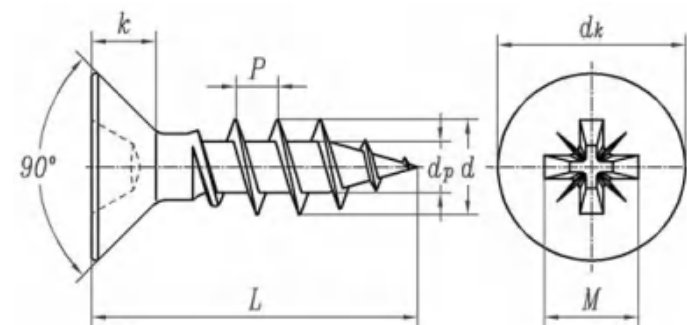
d			ST2. 2	ST2. 9	ST3. 5	(ST3. 9)	ST4. 2	ST4. 8	ST5. 5	ST6. 3
P	Pitch		0.8	1.1	1.3	1.3	1.4	1.6	1.8	1.8
a	Max		0.8	1.1	1.3	1.3	1.4	1.6	1.8	1.8
d _k	Max=Nominal		4.2	5.6	6.9	7.5	8.2	9.5	10.8	12.5
	Min		3.9	5.3	6.54	7.14	7.84	9.14	10.37	12.07
k	Max=Nominal		1.8	2.2	2.6	2.8	3.05	3.55	3.95	4.55
	Min		1.55	1.95	2.35	2.55	2.75	3.25	3.65	4.25
y	Max	C Type	2	2.6	3.2	3.5	3.7	4.3	5	6
		F Type	1.6	2.1	2.5	2.7	2.8	3.2	3.6	3.6
Socket Number			1	1	2	2	2	2	3	3
M ₁	≈		2.6	3	4.2	4.4	4.6	5	6.5	7.1
M ₂	≈		2.4	2.9	3.9	4.1	4.3	4.7	6.2	6.7

DIN7982



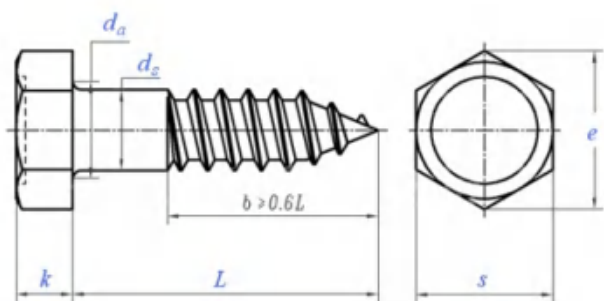
d			ST2. 2	ST2. 9	ST3. 5	(ST3. 9)	ST4. 2	ST4. 8	ST5. 5	ST6. 3
P	Pitch		0.8	1.1	1.3	1.3	1.4	1.6	1.8	1.8
a			0.8	1.1	1.3	1.3	1.4	1.6	1.8	1.8
d _k	Max=Nominal		4.3	5.5	6.8	7.5	8.1	9.5	10.8	12.4
	Min		4	5.2	6.44	7.14	7.74	9.14	10.37	11.97
k	≈		1.3	1.7	2.1	2.3	2.5	3	3.4	3.8
y	Max	C Type	2	2.6	3.2	3.5	3.7	4.3	5	6
		F Type	1.6	2.1	2.5	2.7	2.8	3.2	3.6	3.6
Socket Number			1	1	2	2	2	2	3	3
M ₁	≈		2.5	3	4.2	4.6	4.7	5.1	6.8	7.1
M ₂	≈		2.4	2.8	4	4.2	4.4	5	6.3	7

DIN7505



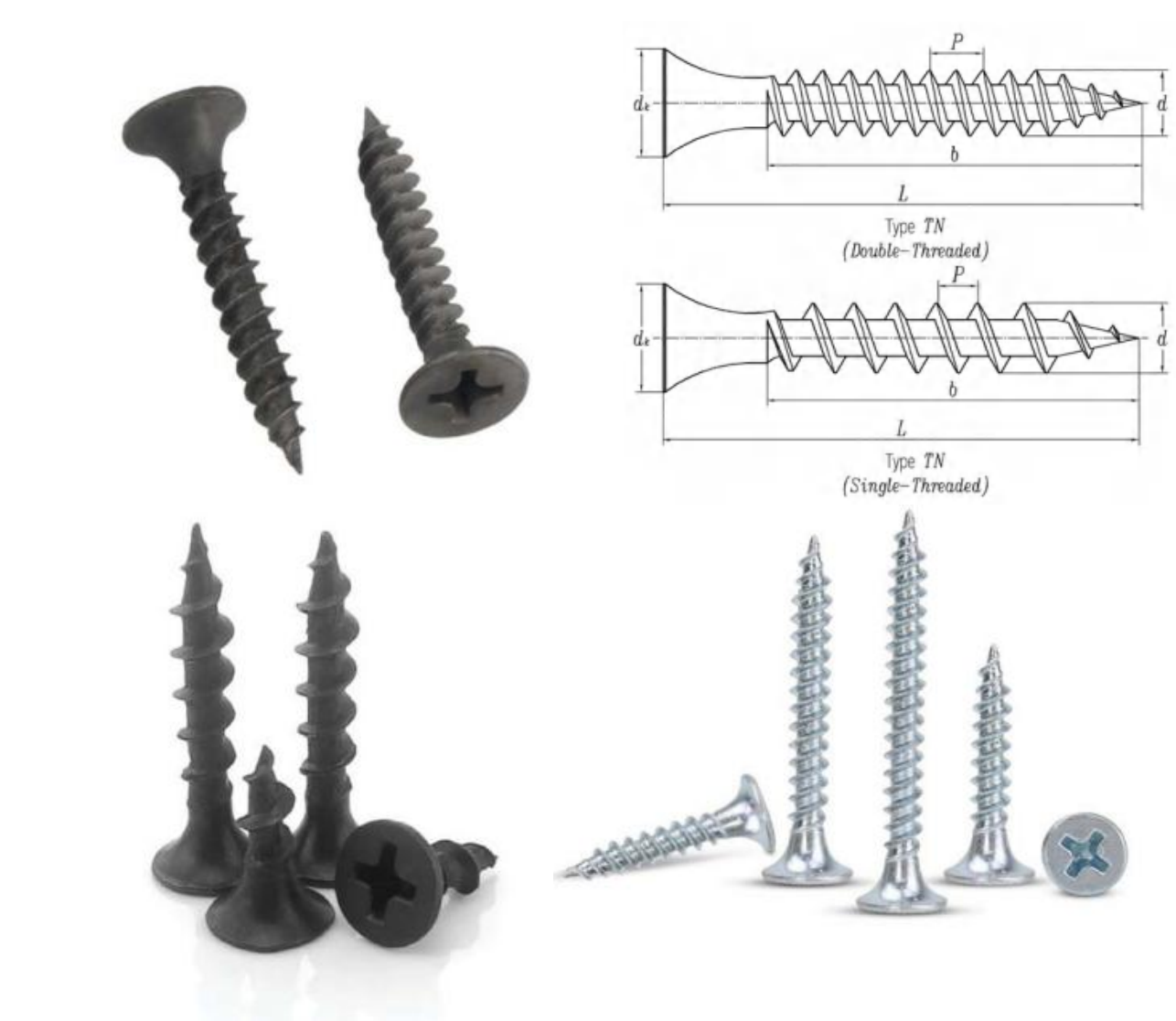
d		2.5	3	3.5	4	4.5	5	6
d	Max	2.5	3	3.5	4	4.5	5	6
	Min	2.25	2.75	3.2	3.7	4.2	4.7	5.7
P	Pitch(±10%)	1.1	1.35	1.6	1.8	2	2.2	2.6
dk	Max=Nominal	5	6	7	8	9	10	12
	Min	4.7	5.7	6.64	7.64	8.64	9.64	11.57
k	≈	1.4	1.8	2	2.35	2.55	2.85	3.35
dp	Max=Nominal	1.5	1.9	2.15	2.5	2.7	3	3.7
	Min	1.1	1.5	2.67	2.02	2.22	2.52	3.22
Socket No.		1	1	2	2	2	2	3
M	≈	2.51	3	4	4.4	4.8	5.3	6.6

DIN571



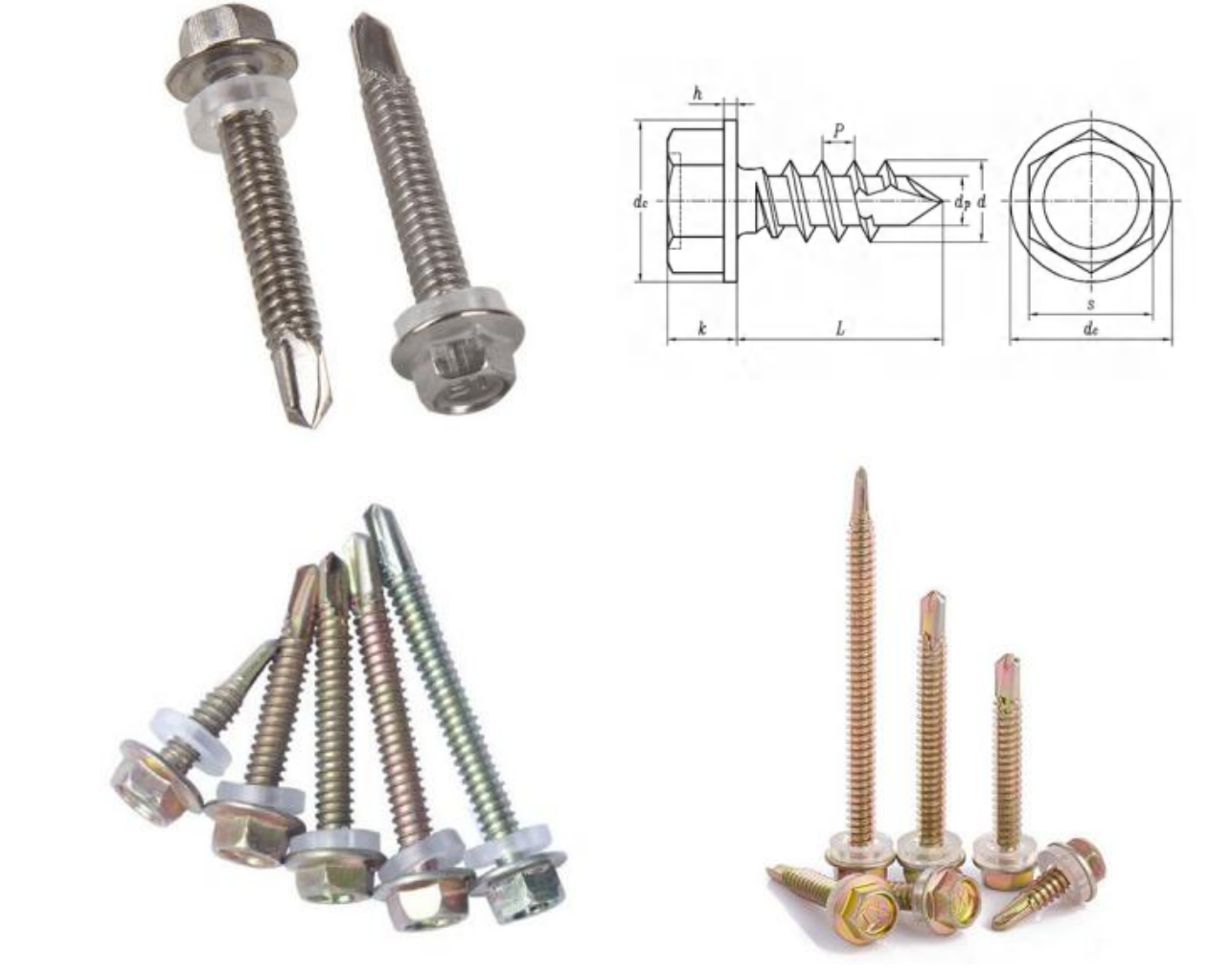
d		4	5	6	7	8	10	12	16	20
ds	Max	4	5	6	7	8	10	12	16	20
	Min	3.52	4.52	5.52	6.42	7.42	9.42	11.3	15.3	19.3
k	Nominal	2.8	3.5	4	5	5.5	7	8	10	13
	Max	3.1	3.88	4.38	5.38	5.88	7.45	8.45	10.45	13.9
	Min	2.5	3.13	3.63	4.63	5.13	6.55	7.55	9.55	12.1
s	Max=Nominal	7	8	10	12	13	17	19	24	30
	Min	6.64	7.64	9.64	11.57	12.57	16.57	18.48	23.16	29.16
e	Min	7.5	8.63	10.89	13.07	14.2	18.72	20.88	26.17	32.95

DIN18182



d		3.5	4	4.3	5.1	5.5
d	Max	3.7	4	4.3	5.1	5.5
	Min	3.4	3.7	4	4.8	5.2
d _k	Max	8.5	8.5	8.5	8.5	8.5
	Min	8.14	8.14	8.14	8.14	8.14

DIN7504 K



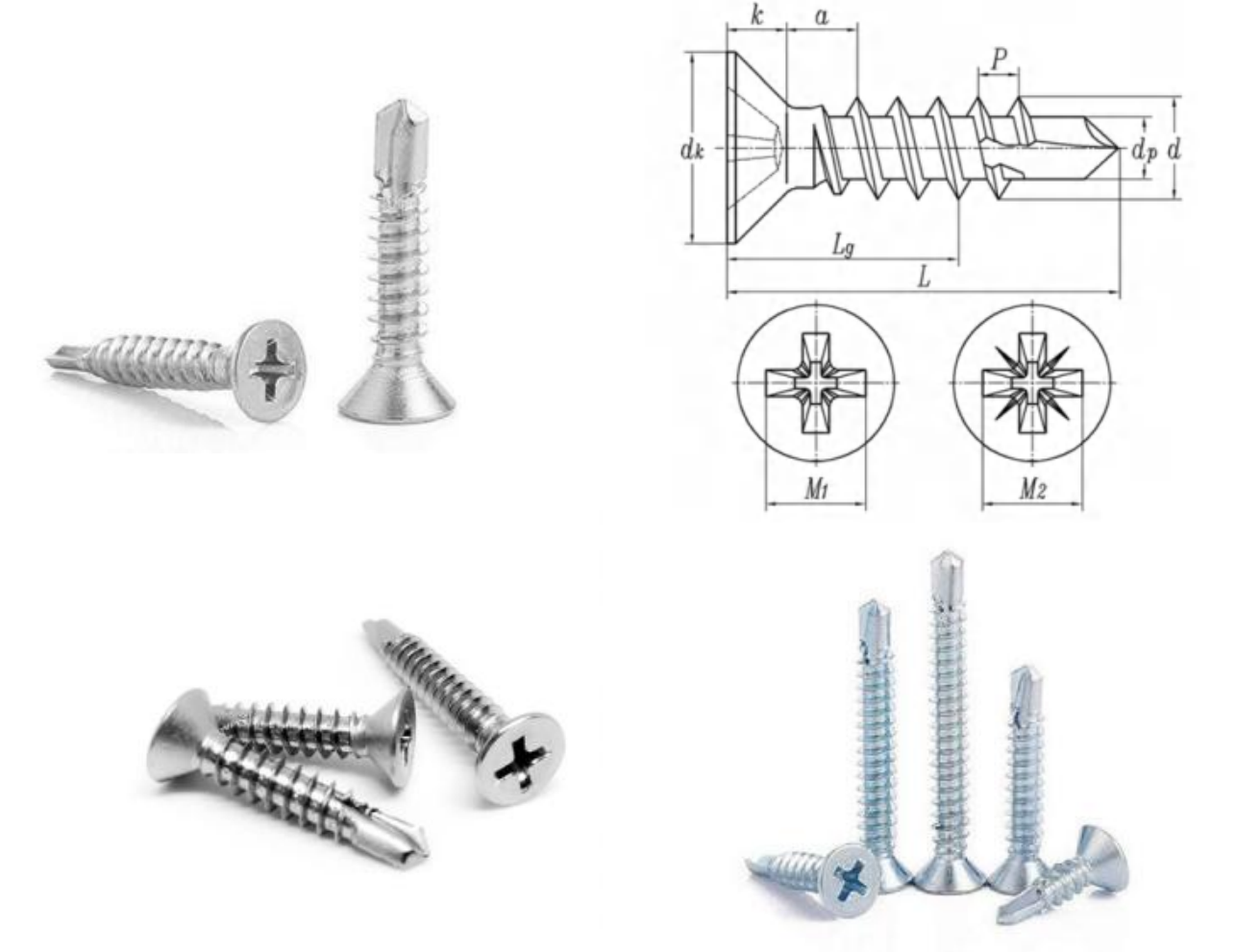
d		ST2.9	ST3.5	(ST3.9)	ST4.2	ST4.8	ST5.5	ST6.3
P	Pitch	1.1	1.3	1.3	1.4	1.6	1.8	1.8
h	Min	0.4	0.6	0.6	0.8	0.9	1	1
d _c	Max	6.3	8.3	8.3	8.8	10.5	11	13.5
	Min	5.8	7.6	7.6	8.1	9.8	10	12.2
k	Max	2.8	3.4	3.4	4.1	4.3	5.4	5.9
	Min	2.5	3	3	3.6	3.8	4.8	5.3
s	Max	4	5.5	5.5	7	8	8	10
	Min	3.82	5.32	5.32	6.78	7.78	7.78	9.78
d _p		2.3	2.8	3.1	3.6	4.1	4.8	5.8
Plate Thickness		0.7~1.9	0.7~2.25	0.7~2.4	1.75~3	1.75~4.4	1.75~5.25	2~6

DIN7504 M



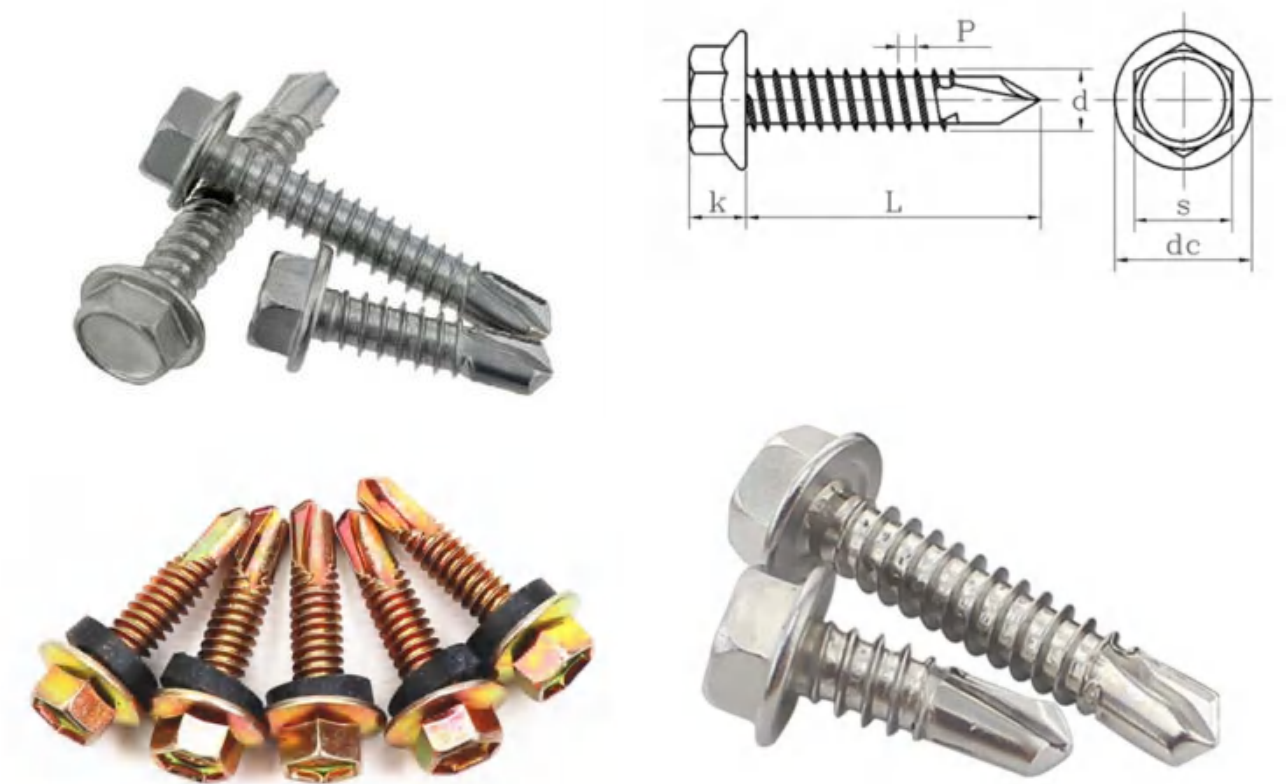
d		ST2. 9	ST3. 5	ST4. 2	ST4. 8	ST5. 5	ST6. 3
P	Pitch	1. 1	1. 3	1. 4	1. 6	1. 8	1. 8
dk	Max	5. 6	7	8	9. 5	11	12
	Min	5. 3	6. 64	7. 64	9. 14	10. 57	11. 57
k	Max	2. 4	2. 6	3. 1	3. 7	4	4. 6
	Min	2. 15	2. 35	2. 8	3. 4	3. 7	4. 3
dp		2. 3	2. 8	3. 6	4. 1	4. 8	5. 8
Plate Thickness		0. 7~1. 9	0. 7~2. 25	1. 75~3	1. 75~4. 4	1. 75~5. 25	2~6
Socket No.		1	2	2	2	3	3

DIN7504 P



d		ST2. 9	ST3. 5	(ST3. 9)	ST4. 2	ST4. 8	ST5. 5	ST6. 3
P	Pitch	1. 1	1. 3	1. 3	1. 4	1. 6	1. 8	1. 8
a	Max	1. 1	1. 3	1. 3	1. 4	1. 6	1. 8	1. 8
dk	Max	5. 5	6. 8	7. 5	8. 1	9. 5	10. 8	12. 4
	Min	5. 2	6. 44	7. 14	7. 74	9. 14	10. 37	11. 97
k	≈	1. 7	2. 1	2. 3	2. 5	3	3. 4	3. 8
Socket No.		1	2	2	2	2	3	3
dp	Max	2. 3	2. 8	3. 1	3. 6	4. 1	4. 8	5. 8
M ₁		3	4. 2	4. 6	4. 7	5. 1	6. 8	7. 1
M ₂		2. 8	4	4. 2	4. 4	5	6. 3	7
Plate Thickness		0. 7~1. 9	0. 7~2. 25	0. 7~2. 4	1. 75~3	1. 75~4. 4	1. 75~5. 25	2~6

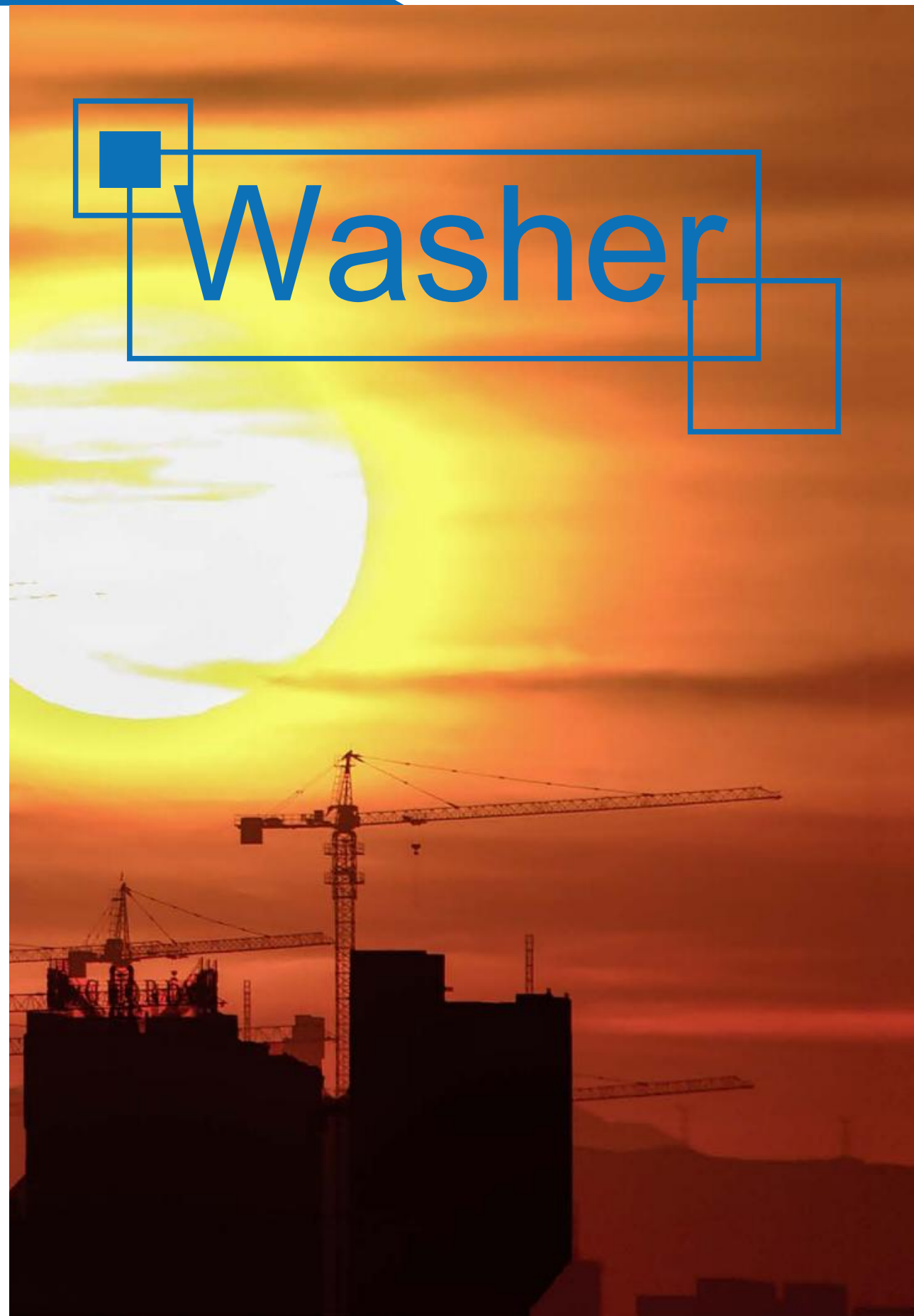
DIN7504 Hex Flange Head SDS



d		ST3.5	ST4.2	ST4.8	ST5.5	ST6.3
P	Pitch	1.3	1.4	1.6	1.8	1.8
d _c	Max	8.3	8.8	10.5	11	13.2
	Min	7.6	8.2	9.8	10	12.2
s	Max=Nominal	5.5	7	8	8	10
	Min	5.32	6.78	7.78	7.78	9.78
k	Max	3.45	4.25	4.45	5.45	5.45
Plate Thickness	≥	0.7	1.75	1.75	1.75	2
	≤	2.25	3	4.4	5.25	6

Other types of Screws





Flat Washer



Spring Washer





Packing Terms

□ Bag □ Carton □ Wooden Case □ Pallets



Type of Shipping

○ By Sea ○ Truck ○ Air Express ○ Air Transportation

Shipment Terms

○ EXW ○ FCA ○ FOB ○ CNF ○ DAT ○ DAP

We all along hope to establish a long-term win-win partnership.

Looking forward to your inquiry

