

RAPID[®] Dual

schmied
schrauben hainfeld



Dual head



Friction part



Single thread



35°-Tip



Dimensions

8x50 to 12x400mm



- > Highest quality
- > Innovative technology
- > Made in AUSTRIA



BlueWin
Cr(VI)
free



RAPID[®] Dual

Specially hardened, slide coating, BlueWin



Head geometry

- > Patented cone underneath head for optimum centring when washers are used
- > Head rests flat on metal with 90° screw connection
- > Better force transmission with hex drive possible -
- > The commercially available T-Drive saves you time-consuming tool change

Thread/Tip

- > Sharp rolled thread flanks for minimised blast effect and fast screwing-in
- > 35° tip for fast bite
- > No pre-drilling required

Friction part

- > The friction part reduces screwing resistance.

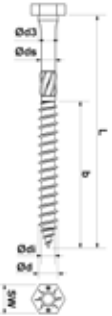
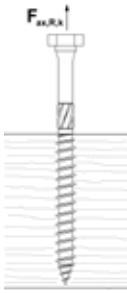
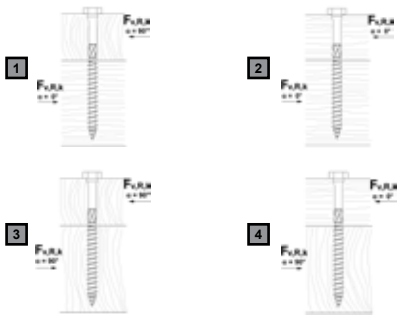
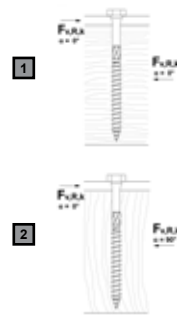


Advantages compared to DIN 571 screw

- > Higher extraction values
- > Higher traction values
- > Smaller penetration torque
- > Higher hardness values
- > Approved for constructional wooden structures according to ETA 12/0373



Characteristic	Unit	Ø 8,0
Shoulder diameter	d ₃ [mm]	8,0
Core diameter	d ₁ [mm]	5,2
Shaft diameter	d _s [mm]	5,9
Drive	TX	30
	SW [mm]	12
Tensile load	f _{tens,k} [kN]	22,0
Yield moment	M _{y,k} [Nm]	22,6

Dimensions		Extraction resistance		Head traction resistance		Wood - wood shearing					Steel - wood shearing		
													
d x L [mm]	b [mm]	R _{ASD} [kN]	F _{ax,R,k} [kN]	R _{ASD} [kN]	F _{head,R,k} [kN]	R _{ASD} [kN]	1. F _{V,R,k} [kN]	2. F _{V,R,k} [kN]	3. F _{V,R,k} [kN]	4. F _{V,R,k} [kN]	R _{ASD} [kN]	1. F _{V,R,k} [kN]	2. F _{V,R,k} [kN]
						α=0°...90°	α _{AD} =90° α _{ET} =0°	α=0°	α=90°	α _{AD} =0° α _{ET} =90°	α=0°...90°	α=0°	α=90°
Ø 8,0													
8,0 x 50	35	1,40	3,05	0,72	2,38	a)	a)	a)	a)	a)	1,36	5,18	3,99
8,0 x 60	45	1,80	3,92	0,72	2,38	a)	a)	a)	a)	a)	1,36	6,01	4,67
8,0 x 70	49	1,96	4,27	0,72	2,38	a)	a)	a)	a)	a)	1,36	6,09	5,21
8,0 x 80	54	2,16	4,71	0,72	2,38	a)	a)	a)	a)	a)	1,36	6,20	5,32
8,0 x 100	65	2,60	5,67	0,72	2,38	1,09	3,13	3,81	2,97	3,57	1,36	6,44	5,56
8,0 x 120	84	3,36	7,32	0,72	2,38	1,09	3,17	3,87	3,01	3,62	1,36	6,86	5,98
8,0 x 140	84	3,36	7,32	0,72	2,38	1,09	3,79	4,14	3,52	3,79	1,36	6,86	5,98
8,0 x 160	100	4,00	8,72	0,72	2,38	1,09	3,79	4,14	3,52	3,79	1,36	7,21	6,32
8,0 x 180	100	4,00	8,72	0,72	2,38	1,09	3,79	4,14	3,52	3,79	1,36	7,21	6,32
8,0 x 200	100	4,00	8,72	0,72	2,38	1,09	3,79	4,14	3,52	3,79	1,36	7,21	6,32
8,0 x 220	100	4,00	8,72	0,72	2,38	1,09	3,79	4,14	3,52	3,79	1,36	7,21	6,32
8,0 x 240	100	4,00	8,72	0,72	2,38	1,09	3,79	4,14	3,52	3,79	1,36	7,21	6,32
8,0 x 260	100	4,00	8,72	0,72	2,38	1,09	3,79	4,14	3,52	3,79	1,36	7,21	6,32
8,0 x 280	100	4,00	8,72	0,72	2,38	1,09	3,79	4,14	3,52	3,79	1,36	7,21	6,32
8,0 x 300	100	4,00	8,72	0,72	2,38	1,09	3,79	4,14	3,52	3,79	1,36	7,21	6,32
8,0 x 320	100	4,00	8,72	0,72	2,38	1,09	3,79	4,14	3,52	3,79	1,36	7,21	6,32
8,0 x 340	100	4,00	8,72	0,72	2,38	1,09	3,79	4,14	3,52	3,79	1,36	7,21	6,32
8,0 x 360	100	4,00	8,72	0,72	2,38	1,09	3,79	4,14	3,52	3,79	1,36	7,21	6,32
8,0 x 380	100	4,00	8,72	0,72	2,38	1,09	3,79	4,14	3,52	3,79	1,36	7,21	6,32
8,0 x 400	100	4,00	8,72	0,72	2,38	1,09	3,79	4,14	3,52	3,79	1,36	7,21	6,32

Notes:

Characteristic	Unit	Ø 10,0	Ø 12,0
Shoulder diameter	d ₃ [mm]	10,0	12,0
Core diameter	d ₁ [mm]	6,1	6,8
Shaft diameter	d _s [mm]	7,1	8,2
Drive	TX	40	40
	SW [mm]	15	17
Tensile load	f _{tens,k} [kN]	32,0	42,0
Yield moment	M _{y,k} [Nm]	33,0	46,9

Dimensions		Extraction resistance		Head traction resistance		Wood - wood shearing					Steel - wood shearing		
d x L [mm]	b [mm]	R _{ASD} [kN]	F _{ax,R,k} [kN]	R _{ASD} [kN]	F _{head,R,k} [kN]	R _{ASD} [kN] α=0°...90°	1. F _{V,R,k} [kN] α _{AD} =90° α _{ET} =0°	2. F _{V,R,k} [kN] α=0°	3. F _{V,R,k} [kN] α=90°	4. F _{V,R,k} [kN] α _{AD} =0° α _{ET} =90°	R _{ASD} [kN] α=0°...90°	1. F _{V,R,k} [kN] α=0°	2. F _{V,R,k} [kN] α=90°
Ø 10,0													
10,0 x 60	45	2,25	4,41	1,13	3,76	a)	a)	a)	a)	a)	2,13	7,36	5,57
10,0 x 70	49	2,45	4,80	1,13	3,76	a)	a)	a)	a)	a)	2,13	7,92	6,24
10,0 x 80	54	2,70	5,29	1,13	3,76	a)	a)	a)	a)	a)	2,13	8,04	6,81
10,0 x 100	65	3,25	6,37	1,13	3,76	a)	a)	a)	a)	a)	2,13	8,31	7,08
10,0 x 120	84	4,20	8,23	1,13	3,76	a)	a)	a)	a)	a)	2,13	8,77	7,54
10,0 x 140	108	5,40	10,58	1,13	3,76	a)	a)	a)	a)	a)	2,13	9,36	8,13
10,0 x 160	108	5,40	10,58	1,13	3,76	1,70	4,96	5,68	4,70	5,18	2,13	9,36	8,13
10,0 x 180	108	5,40	10,58	1,13	3,76	1,70	5,18	5,68	4,81	5,18	2,13	9,36	8,13
10,0 x 200	125	6,25	12,25	1,13	3,76	1,70	5,18	5,68	4,81	5,18	2,13	9,78	8,55
10,0 x 220	125	6,25	12,25	1,13	3,76	1,70	5,18	5,68	4,81	5,18	2,13	9,78	8,55
10,0 x 240	125	6,25	12,25	1,13	3,76	1,70	5,18	5,68	4,81	5,18	2,13	9,78	8,55
10,0 x 260	125	6,25	12,25	1,13	3,76	1,70	5,18	5,68	4,81	5,18	2,13	9,78	8,55
10,0 x 280	125	6,25	12,25	1,13	3,76	1,70	5,18	5,68	4,81	5,18	2,13	9,78	8,55
10,0 x 300	125	6,25	12,25	1,13	3,76	1,70	5,18	5,68	4,81	5,18	2,13	9,78	8,55
10,0 x 350	125	6,25	12,25	1,13	3,76	1,70	5,18	5,68	4,81	5,18	2,13	9,78	8,55
10,0 x 400	125	6,25	12,25	1,13	3,76	1,70	5,18	5,68	4,81	5,18	2,13	9,78	8,55
Ø 12,0													
12,0 x 80	58	3,48	6,19	1,45	4,94	a)	a)	a)	a)	a)	3,06	10,21	8,07
12,0 x 100	70	4,20	7,48	1,45	4,94	a)	a)	a)	a)	a)	3,06	10,53	8,87
12,0 x 120	84	5,04	8,97	1,45	4,94	a)	a)	a)	a)	a)	3,06	10,91	9,25
12,0 x 140	100	6,00	10,68	1,45	4,94	a)	a)	a)	a)	a)	3,06	11,34	9,68
12,0 x 160	100	6,00	10,68	1,45	4,94	a)	a)	a)	a)	a)	3,06	11,34	9,68
12,0 x 180	125	7,50	13,35	1,45	4,94	a)	a)	a)	a)	a)	3,06	12,00	10,34
12,0 x 200	125	7,50	13,35	1,45	4,94	a)	a)	a)	a)	a)	3,06	12,00	10,34
12,0 x 220	125	7,50	13,35	1,45	4,94	2,45	6,68	7,36	6,19	6,68	3,06	12,00	10,34
12,0 x 240	144	8,64	15,38	1,45	4,94	2,45	6,68	7,36	6,19	6,68	3,06	12,51	10,85
12,0 x 260	144	8,64	15,38	1,45	4,94	2,45	6,68	7,36	6,19	6,68	3,06	12,51	10,85
12,0 x 280	144	8,64	15,38	1,45	4,94	2,45	6,68	7,36	6,19	6,68	3,06	12,51	10,85
12,0 x 300	144	8,64	15,38	1,45	4,94	2,45	6,68	7,36	6,19	6,68	3,06	12,51	10,85
12,0 x 350	144	8,64	15,38	1,45	4,94	2,45	6,68	7,36	6,19	6,68	3,06	12,51	10,85
12,0 x 400	144	8,64	15,38	1,45	4,94	2,45	6,68	7,36	6,19	6,68	3,06	12,51	10,85