

RAPID[®] Komprex

schmied
schrauben hainfeld



Milling pockets



Friction part



Hi-lo thread



Compactor tip



Alternative head shape



Dimensions

8x80 to 10x500mm



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



YellWin 500+



RAPID[®] Komprex

Specially hardened, slide coating, YellWin 500+



Tip

- Patented compactor tip:
- > Quicker bite for reduced fastening torque
 - > Reduced split effect
 - > No pre-drilling required

Milling pockets

- Underhead milling pockets for optimal countersink:
- > Smooth
 - > Gentle on material
 - > Also ideal for fittings

Thread

- Designed to state-of-the-art standards:
- > Hi-lo thread for energy-saving screwing with improved pull-out values
 - > Double thread for quicker fastening times

Friction part

The friction part reduces screwing resistance.



Alternative head shape

Thanks to the washer cap head, no separate use of washers is required:

- > Shorter assembly times
- > Improved pull-through values



Characteristic		Unit	Ø 8,0
Head diameter	Countersunk head	d_k [mm]	15,0
	Washer head	d_k [mm]	22,0
Core diameter		d_1 [mm]	5,3
Shaft diameter		d_s [mm]	5,9
Drive	Countersunk head	TX	40
	Washer head	TX	40
Tensile load		$f_{tens,k}$ [kN]	23,3
Yield moment		$M_{y,k}$ [Nm]	22,6

Washers		Unit	Ø 8,0
Washer diameter		[mm]	28,0
Thickness of washer		[mm]	6,0
Head traction parameter	Washer	[N/mm ²]	13,7
	Countersunk head	[N/mm ²]	12,4
	Washer head	[N/mm ²]	20,4
Head traction resistance	Washer	[kN]	10,74
	Countersunk head	[kN]	2,79
	Washer head	[kN]	9,87

Dimensions		Extraction resistance	Head traction resistance				Wood - wood shearing								Steel - wood shearing					
			Countersunk head		Washer head		Countersunk head				Washer head									
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]	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]	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]
$\alpha=0^{\circ}...90^{\circ}$ $\alpha_{AD}=90^{\circ}$ $\alpha_{EI}=0^{\circ}$ $\alpha=0^{\circ}$ $\alpha=90^{\circ}$ $\alpha_{AD}=0^{\circ}$ $\alpha_{EI}=90^{\circ}$ $\alpha=0^{\circ}...90^{\circ}$ $\alpha_{AD}=90^{\circ}$ $\alpha_{EI}=0^{\circ}$ $\alpha=0^{\circ}$ $\alpha=90^{\circ}$ $\alpha_{AD}=0^{\circ}$ $\alpha_{EI}=90^{\circ}$ $\alpha=0^{\circ}...90^{\circ}$ $\alpha=0^{\circ}$ $\alpha=90^{\circ}$																				
Ø 8,0																				
8,0 x 80	50	2,00	4,36	1,13	2,79	2,42	9,87	0,96	3,07	3,65	2,91	3,42	0,96	3,46	4,04	3,31	3,81	1,36	6,12	5,23
8,0 x 90	60	2,40	5,23	1,13	2,79	-	-	0,96	3,07	3,65	2,91	3,42	-	-	-	-	-	1,36	6,33	5,45
8,0 x 100	60	2,40	5,23	1,13	2,79	2,42	9,87	1,09	3,44	4,22	3,26	3,90	1,10	4,05	4,83	3,87	4,51	1,36	6,33	5,45
8,0 x 120	80	3,20	6,98	1,13	2,79	2,42	9,87	1,09	3,44	4,22	3,26	3,90	1,10	4,48	5,27	4,31	4,94	1,36	6,77	5,89
8,0 x 140	80	3,20	6,98	1,13	2,79	2,42	9,87	1,09	3,90	4,25	3,63	3,90	1,10	4,94	5,30	4,67	4,94	1,36	6,77	5,89
8,0 x 160	80	3,20	6,98	1,13	2,79	2,42	9,87	1,09	3,90	4,25	3,63	3,90	1,10	4,94	5,30	4,67	4,94	1,36	6,77	5,89
8,0 x 180	100	4,00	8,72	1,13	2,79	2,42	9,87	1,09	3,90	4,25	3,63	3,90	1,10	5,38	5,73	5,11	5,38	1,36	7,21	6,32
8,0 x 200	100	4,00	8,72	1,13	2,79	2,42	9,87	1,09	3,90	4,25	3,63	3,90	1,10	5,38	5,73	5,11	5,38	1,36	7,21	6,32
8,0 x 220	100	4,00	8,72	1,13	2,79	2,42	9,87	1,09	3,90	4,25	3,63	3,90	1,10	5,38	5,73	5,11	5,38	1,36	7,21	6,32
8,0 x 240	100	4,00	8,72	1,13	2,79	2,42	9,87	1,09	3,90	4,25	3,63	3,90	1,10	5,38	5,73	5,11	5,38	1,36	7,21	6,32
8,0 x 260	100	4,00	8,72	1,13	2,79	2,42	9,87	1,09	3,90	4,25	3,63	3,90	1,10	5,38	5,73	5,11	5,38	1,36	7,21	6,32
8,0 x 280	100	4,00	8,72	1,13	2,79	2,42	9,87	1,09	3,90	4,25	3,63	3,90	1,10	5,38	5,73	5,11	5,38	1,36	7,21	6,32
8,0 x 300	100	4,00	8,72	1,13	2,79	2,42	9,87	1,09	3,90	4,25	3,63	3,90	1,10	5,38	5,73	5,11	5,38	1,36	7,21	6,32
8,0 x 320	100	4,00	8,72	1,13	2,79	2,42	9,87	1,09	3,90	4,25	3,63	3,90	1,10	5,38	5,73	5,11	5,38	1,36	7,21	6,32
8,0 x 340	100	4,00	8,72	1,13	2,79	2,42	9,87	1,09	3,90	4,25	3,63	3,90	1,10	5,38	5,73	5,11	5,38	1,36	7,21	6,32
8,0 x 360	100	4,00	8,72	1,13	2,79	2,42	9,87	1,09	3,90	4,25	3,63	3,90	1,10	5,38	5,73	5,11	5,38	1,36	7,21	6,32
8,0 x 380	100	4,00	8,72	1,13	2,79	2,42	9,87	1,09	3,90	4,25	3,63	3,90	1,10	5,38	5,73	5,11	5,38	1,36	7,21	6,32
8,0 x 400	100	4,00	8,72	1,13	2,79	2,42	9,87	1,09	3,90	4,25	3,63	3,90	1,10	5,38	5,73	5,11	5,38	1,36	7,21	6,32
8,0 x 420	100	4,00	8,72	1,13	2,79	-	-	1,09	3,90	4,25	3,63	3,90	-	-	-	-	-	1,36	7,21	6,32
8,0 x 440	100	4,00	8,72	1,13	2,79	-	-	1,09	3,90	4,25	3,63	3,90	-	-	-	-	-	1,36	7,21	6,32
8,0 x 450	100	4,00	8,72	-	-	2,42	9,87	-	-	-	-	-	1,10	5,38	5,73	5,11	5,38	1,36	7,21	6,32
8,0 x 460	100	4,00	8,72	1,13	2,79	-	-	1,09	3,90	4,25	3,63	3,90	-	-	-	-	-	1,36	7,21	6,32
8,0 x 480	100	4,00	8,72	1,13	2,79	-	-	1,09	3,90	4,25	3,63	3,90	-	-	-	-	-	1,36	7,21	6,32
8,0 x 500	100	4,00	8,72	1,13	2,79	2,42	9,87	1,09	3,90	4,25	3,63	3,90	1,10	5,38	5,73	5,11	5,38	1,36	7,21	6,32

Notes:

Characteristic	Unit	Ø 10,0
Head diameter	Countersunk head	d _k [mm]
	Washer head	d _k [mm]
Core diameter		d ₁ [mm]
Shaft diameter		d ₂ [mm]
Drive	Countersunk head	TX
	Washer head	TX
Tensile load		f _{tens,k} [kN]
Yield moment		M _{y,k} [Nm]

Washers	Unit	Ø 10,0
Washer diameter	[mm]	35,0
Thickness of washer	[mm]	7,0
Head traction parameter	Washer	[N/mm ²]
	Countersunk head	[N/mm ²]
Head traction resistance	Washer head	[N/mm ²]
	Washer	[kN]
Head traction resistance	Countersunk head	[kN]
	Washer head	[kN]

Dimensions		Extraction resistance	Head traction resistance						Wood - wood shearing								Steel - wood shearing			
			Countersunk head		Washer head		Countersunk head				Washer head									
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]	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]	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]
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Ø 10,0																				
10,0 x 80	50	2,50	5,50	1,71	4,18	-	-	a)	a)	a)	a)	a)	-	-	-	-	-	2,13	8,15	6,91
10,0 x 100	60	3,00	6,60	1,71	4,18	3,65	10,57	1,60	4,50	5,49	4,27	5,14	1,60	5,10	6,10	4,87	5,75	2,13	8,43	7,18
10,0 x 120	80	4,00	8,80	1,71	4,18	3,65	10,57	1,60	4,50	5,49	4,27	5,14	1,60	5,65	6,65	5,42	6,30	2,13	8,98	7,73
10,0 x 140	80	4,00	8,80	1,71	4,18	3,65	10,57	1,70	5,33	5,84	4,96	5,33	1,70	6,49	6,99	6,11	6,49	2,13	8,98	7,73
10,0 x 160	100	5,00	11,00	1,71	4,18	3,65	10,57	1,70	5,33	5,84	4,96	5,33	1,70	6,93	7,43	6,55	6,93	2,13	9,53	8,28
10,0 x 180	100	5,00	11,00	1,71	4,18	3,65	10,57	1,70	5,33	5,84	4,96	5,33	1,70	6,93	7,43	6,55	6,93	2,13	9,53	8,28
10,0 x 200	100	5,00	11,00	1,71	4,18	3,65	10,57	1,70	5,33	5,84	4,96	5,33	1,70	6,93	7,43	6,55	6,93	2,13	9,53	8,28
10,0 x 220	100	5,00	11,00	1,71	4,18	3,65	10,57	1,70	5,33	5,84	4,96	5,33	1,70	6,93	7,43	6,55	6,93	2,13	9,53	8,28
10,0 x 240	100	5,00	11,00	1,71	4,18	3,65	10,57	1,70	5,33	5,84	4,96	5,33	1,70	6,93	7,43	6,55	6,93	2,13	9,53	8,28
10,0 x 260	100	5,00	11,00	1,71	4,18	3,65	10,57	1,70	5,33	5,84	4,96	5,33	1,70	6,93	7,43	6,55	6,93	2,13	9,53	8,28
10,0 x 280	100	5,00	11,00	1,71	4,18	3,65	10,57	1,70	5,33	5,84	4,96	5,33	1,70	6,93	7,43	6,55	6,93	2,13	9,53	8,28
10,0 x 300	100	5,00	11,00	1,71	4,18	3,65	10,57	1,70	5,33	5,84	4,96	5,33	1,70	6,93	7,43	6,55	6,93	2,13	9,53	8,28
10,0 x 320	120	6,00	13,20	1,71	4,18	3,65	10,57	1,70	5,33	5,84	4,96	5,33	1,70	6,93	7,43	6,55	6,93	2,13	10,08	8,83
10,0 x 340	120	6,00	13,20	1,71	4,18	3,65	10,57	1,70	5,33	5,84	4,96	5,33	1,70	6,93	7,43	6,55	6,93	2,13	10,08	8,83
10,0 x 360	120	6,00	13,20	1,71	4,18	3,65	10,57	1,70	5,33	5,84	4,96	5,33	1,70	6,93	7,43	6,55	6,93	2,13	10,08	8,83
10,0 x 380	120	6,00	13,20	1,71	4,18	3,65	10,57	1,70	5,33	5,84	4,96	5,33	1,70	6,93	7,43	6,55	6,93	2,13	10,08	8,83
10,0 x 400	120	6,00	13,20	1,71	4,18	3,65	10,57	1,70	5,33	5,84	4,96	5,33	1,70	6,93	7,43	6,55	6,93	2,13	10,08	8,83
10,0 x 420	120	6,00	13,20	1,71	4,18	-	-	1,70	5,33	5,84	4,96	5,33	-	-	-	-	-	2,13	10,08	8,83
10,0 x 440	120	6,00	13,20	1,71	4,18	-	-	1,70	5,33	5,84	4,96	5,33	-	-	-	-	-	2,13	10,08	8,83
10,0 x 450	120	6,00	13,20	-	-	3,65	10,57	-	-	-	-	-	1,70	6,93	7,43	6,55	6,93	2,13	10,08	8,83
10,0 x 460	120	6,00	13,20	1,71	4,18	-	-	1,70	5,33	5,84	4,96	5,33	-	-	-	-	-	2,13	10,08	8,83
10,0 x 480	120	6,00	13,20	1,71	4,18	-	-	1,70	5,33	5,84	4,96	5,33	-	-	-	-	-	2,13	10,08	8,83
10,0 x 500	120	6,00	13,20	1,71	4,18	3,65	10,57	1,70	5,33	5,84	4,96	5,33	1,70	6,93	7,43	6,55	6,93	2,13	10,08	8,83

Notes:
