

ASSY® 4 PH fittings screw Steel zinc plated full thread pan head

Full-thread screw with visually appealing pan head for universal fixing of metal fittings or plastic supports in wood in indoor dry or sheltered areas

Ideal power transmission thanks to RW drive

- More power due to larger contact area at the bit
- More stability, one-handed working, precise positioning due to the tight-fit recess and perfect fit of the bit
- Fewer bit changes, one bit for many screw diameters
- Compatibility with previous AW drive

Flat fastening metal sheets for secondary purposes

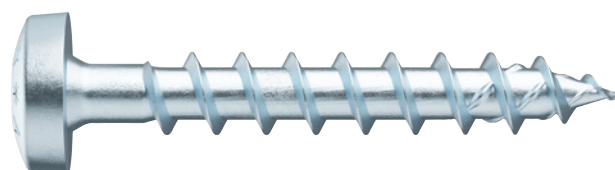
- Flat, cylindrical pan head rounded with a lens
- Large surface contact area

No over-tightening or stripping and high feed

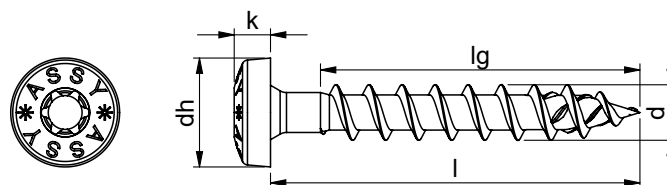
- Higher power transmission in hardwoods due to reinforced, asymmetrical thread flank geometry of the coarse thread
- Better anchoring thanks to higher thread flanks

Smooth thread start ensures optimised recessing and biting of the screw

- Reduced splitting effect due to displacement effect of the dome-shaped milling elements in the tip
- Friction-reduced thread rotation allows reduction of the screw-in force to be applied



Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes



Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (dh)	Head height (k)	Internal drive	Art. no.	P. Qty.
3 mm	10 mm	5.5 mm	5.8 mm	2.2 mm	RW10	0153 730 010	1000
3 mm	12 mm	10.5 mm	5.8 mm	2.2 mm	RW10	0153 730 012	1000
3 mm	13 mm	11.5 mm	5.8 mm	2.2 mm	RW10	0153 730 013	1000
3 mm	15 mm	13 mm	5.8 mm	2.2 mm	RW10	0153 730 015	1000
3 mm	16 mm	14 mm	5.8 mm	2.2 mm	RW10	0153 730 016	1000
3 mm	17 mm	15 mm	5.8 mm	2.2 mm	RW10	0153 730 017	1000
3 mm	20 mm	17.5 mm	5.8 mm	2.2 mm	RW10	0153 730 020	1000
3 mm	25 mm	22.5 mm	5.8 mm	2.2 mm	RW10	0153 730 025	1000
3 mm	30 mm	27.5 mm	5.8 mm	2.2 mm	RW10	0153 730 030	1000
3 mm	35 mm	32 mm	5.8 mm	2.2 mm	RW10	0153 730 035	1000
3.5 mm	12 mm	10.5 mm	7 mm	2.4 mm	RW20	0153 735 012	1000

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Internal drive	Art. no.	P. Qty.
3.5 mm	13 mm	11.5 mm	7 mm	2.4 mm	RW20	0153 735 013	1000
3.5 mm	15 mm	13 mm	7 mm	2.4 mm	RW20	0153 735 015	1000
3.5 mm	16 mm	14 mm	7 mm	2.4 mm	RW20	0153 735 016	1000
3.5 mm	17 mm	15 mm	7 mm	2.4 mm	RW20	0153 735 017	1000
3.5 mm	20 mm	18 mm	7 mm	2.4 mm	RW20	0153 735 020	1000
3.5 mm	25 mm	22 mm	7 mm	2.4 mm	RW20	0153 735 025	1000
3.5 mm	30 mm	27 mm	7 mm	2.4 mm	RW20	0153 735 030	1000
3.5 mm	35 mm	32 mm	7 mm	2.4 mm	RW20	0153 735 035	1000
3.5 mm	40 mm	37 mm	7 mm	2.4 mm	RW20	0153 735 040	500
4 mm	12 mm	10.5 mm	7.9 mm	2.8 mm	RW20	0153 740 012	1000
4 mm	13 mm	11.5 mm	7.9 mm	2.8 mm	RW20	0153 740 013	1000
4 mm	15 mm	13 mm	7.9 mm	2.8 mm	RW20	0153 740 015	1000
4 mm	16 mm	14 mm	7.9 mm	2.8 mm	RW20	0153 740 016	1000
4 mm	17 mm	15 mm	7.9 mm	2.8 mm	RW20	0153 740 017	1000
4 mm	20 mm	18 mm	7.9 mm	2.8 mm	RW20	0153 740 020	1000
4 mm	25 mm	22 mm	7.9 mm	2.8 mm	RW20	0153 740 025	1000
4 mm	30 mm	27 mm	7.9 mm	2.8 mm	RW20	0153 740 030	500
4 mm	35 mm	32 mm	7.9 mm	2.8 mm	RW20	0153 740 035	500
4 mm	40 mm	37 mm	7.9 mm	2.8 mm	RW20	0153 740 040	500
4 mm	45 mm	42 mm	7.9 mm	2.8 mm	RW20	0153 740 045	500
4 mm	50 mm	47 mm	7.9 mm	2.8 mm	RW20	0153 740 050	500
4 mm	55 mm	52 mm	7.9 mm	2.8 mm	RW20	0153 740 055	250
4 mm	60 mm	52 mm	7.9 mm	2.8 mm	RW20	0153 740 060	250
4.5 mm	13 mm	11.5 mm	9 mm	3 mm	RW20	0153 745 013	500
4.5 mm	15 mm	13 mm	9 mm	3 mm	RW20	0153 745 015	500
4.5 mm	20 mm	18 mm	9 mm	3 mm	RW20	0153 745 020	500
4.5 mm	25 mm	22 mm	9 mm	3 mm	RW20	0153 745 025	500
4.5 mm	30 mm	27 mm	9 mm	3 mm	RW20	0153 745 030	500
4.5 mm	35 mm	32 mm	9 mm	3 mm	RW20	0153 745 035	500
4.5 mm	40 mm	37 mm	9 mm	3 mm	RW20	0153 745 040	500
4.5 mm	45 mm	42 mm	9 mm	3 mm	RW20	0153 745 045	500
4.5 mm	50 mm	46 mm	9 mm	3 mm	RW20	0153 745 050	250
4.5 mm	60 mm	56 mm	9 mm	3 mm	RW20	0153 745 060	250
4.5 mm	70 mm	66 mm	10 mm	3.6 mm	RW20	0153 745 070	200
5 mm	16 mm	14 mm	10 mm	3.6 mm	RW20	0153 750 016	500
5 mm	17 mm	15 mm	10 mm	3.6 mm	RW20	0153 750 017	500
5 mm	20 mm	18 mm	10 mm	3.6 mm	RW20	0153 750 020	500
5 mm	25 mm	22 mm	10 mm	3.6 mm	RW20	0153 750 025	500
5 mm	30 mm	27 mm	10 mm	3.6 mm	RW20	0153 750 030	500
5 mm	35 mm	32 mm	10 mm	3.6 mm	RW20	0153 750 035	500
5 mm	40 mm	37 mm	10 mm	3.6 mm	RW20	0153 750 040	500
5 mm	45 mm	42 mm	10 mm	3.6 mm	RW20	0153 750 045	250
5 mm	50 mm	46 mm	10 mm	3.6 mm	RW20	0153 750 050	250
5 mm	55 mm	52 mm	10 mm	3.6 mm	RW20	0153 750 055	250
5 mm	60 mm	56 mm	10 mm	3.6 mm	RW20	0153 750 060	250
5 mm	70 mm	66 mm	10 mm	3.6 mm	RW20	0153 750 070	200
6 mm	40 mm	37 mm	12 mm	4 mm	RW40	0153 760 040	250
6 mm	50 mm	46 mm	12 mm	4 mm	RW40	0153 760 050	250
6 mm	60 mm	54 mm	12 mm	4 mm	RW40	0153 760 060	200
6 mm	70 mm	64 mm	12 mm	4 mm	RW40	0153 760 070	200
6 mm	80 mm	70 mm	12 mm	4 mm	RW40	0153 760 080	100

Can be stored neatly in ORSY racks or ORSYMAT vending machines

Details/Application

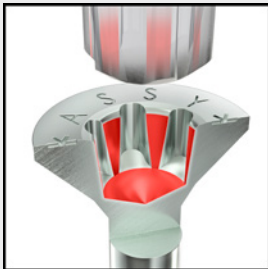
For steel-wood connections designed for tensile forces

The full thread starting immediately below the head allows for e.g. fitting-wood or sheet material-wood connections designed for tensile forces with high load-bearing capacity. Greater screw pull-out force is achieved by the maximum thread length.

For applications in utilisation class 1 and utilisation class 2 (from $\varnothing > 4$ mm)

- High-quality surface protection zinc blue passivated chromium(VI)-free, up to $\varnothing$ 4 mm A2K 5 μ m, from $\varnothing$ 4.5 mm A3K 8 μ m layer thickness
- Suitable for use in utilisation class 1 (interior) and from a $\varnothing > 4$ mm in utilisation class 2 (covered outdoor area) according to EN 1995-1-1:2010-12 + DIN SPEC 1052-100:2013-08
- For screws from $\varnothing$ 4.5 mm with zinc layer thickness 8 μ m with Cr(III) passivation, the requirement of classification T2/C2 is fulfilled in accordance with prEN 14592:2017 (D)

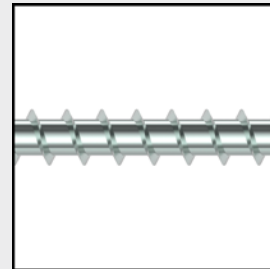
RW drive



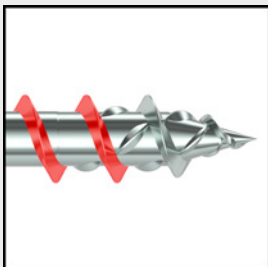
Pan head



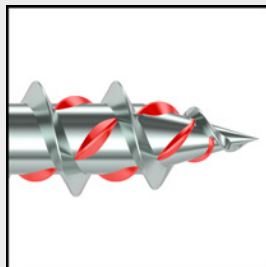
Full thread



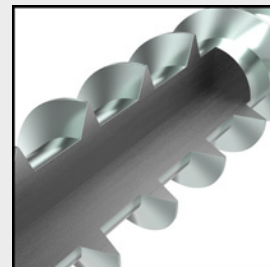
Asymmetrical high-performance thread (coarse)



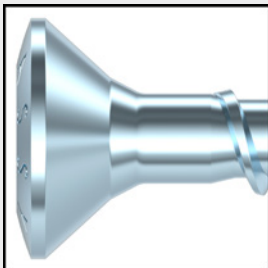
Tip with milling ribs



Hardened steel



Zinc-plated/A2K or A3K





Instructions

- For optimum use of the screw, the right-size RW bit must be used
- Full-thread screws are suitable for secure mounting of fittings or thin materials. The screw length to be selected should be less than the plate thickness of substrate the screw is to be driven in
- ASSY screws are approved for quasi-static loads
- For a load-bearing wood-metal connection, ASSY screws must be tightened to a specific torque value. Tightening torque = required prevailing torque x 1.2 < 90% of the breaking torque

Proof of performance

ETA-11/0190 approved



Notice

- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 PH stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

The requirements of the European Technical Approval (ETA) must be observed