

Fastening Technology / Blind Rivets

BOM[®]
Blind Rivets



Contents

			Page
BOM® blind rivets	Overview		4
	Standard head	Steel / steel	6

All technical data is intended as a guide but is not binding! Subject to change without notice.

BOM® blind rivets



BOM® (blind oversize mechanically locked) fasteners rivets are high-strength blind rivets designed for use in heavy-duty applications, such as vehicle construction, steel construction, container construction, railway transportation and the truck & trailer sector.

Made of steel, BOM® blind rivets offer a very high tensile and shear strength combined with the versatility that comes with one-sided installation - making them ideal for areas that are difficult to access.

Aided by a securely retained mandrel with a pre-set snap-off point, these blind rivets can transfer high static and dynamic loads. During the installation process, a high clamp force is exerted on the materials to be joined. The flush-fitting fastener creates a vibration-proof, airtight and watertight connection. Further benefits of the BOM® fastener system include the ease of inspecting whether the fastener is correctly fitted and its outstanding ability to prevent any unintended loosening.



Benefits at a glance

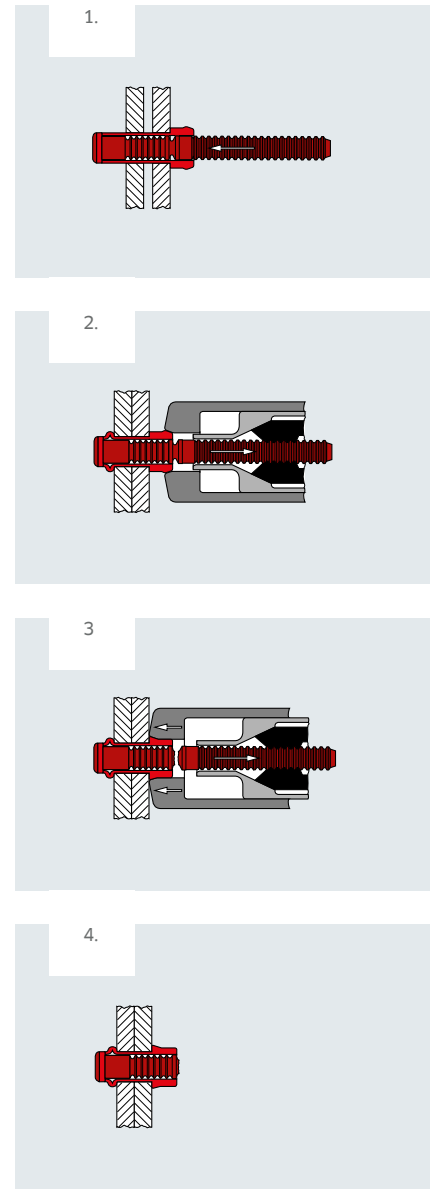
- Very high tensile and shear strength values
- Quick and easy to install from just one side
- Large blind side footprint
- The securely fitting mandrel makes for vibration-resistant applications
- High clamp strength
- Mandrel always breaks off flush at the snap head
- Universal use
- Permanent secure fixing
- Heatless installation means component will not warp
- Eliminates extensive refinishing
- Large grip range handles a number of different material strengths
- Centric point of contact prevents component warp
- Can be installed with minimal operator training
- Consistent, even clamp strength results in excellent vibration resistance
- Retention mechanism generates vibration-resistant connections and prevents mandrel loss

Installation steps:

1. Insert BOM® blind rivet into through-hole and apply installation tool.
2. Operate the installation tool to apply centric tensile force to the mandrel. As the footprint swages, the parts to be connected are pressed together.
3. Once the blind side footprint is fully formed, the collar is cold-formed into the grooves of the mandrel.
4. Keep pulling the installation tool back until the mandrel snaps off at the pin tail. The tool will automatically pull away from the swaged collar.

Sample applications

- General industry
- Steel construction and mechanical engineering
- Automotive industry
- Construction industry
- Bodywork and vehicle manufacture



BOM® blind rivets

Standard head

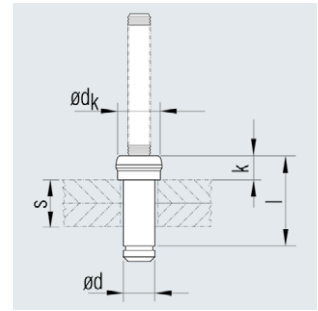
Material

Sleeve:

Steel AISI 1006,
galvanised, wax film

Mandrel:

Steel AISI 8640,
galvanised, wax film



Nominal \emptyset d [mm]	Bore \emptyset [mm]	Grip range s [mm]	Blind sleeve l \pm 0.5 [mm]	Blind rivet head		Nom. strength at break		Article No.
				\emptyset dk \pm 0.2 [mm]	Height k \pm 0.5 [mm]	Shear [N]	Tensile [N]	
5.0	5.3 - 5.6	4.0 - 5.6	11.2	7.2	4.0	12450	8000	416 890 900
		5.6 - 7.1	12.7	7.2	4.0	12450	8000	416 891 900
		7.2 - 8.7	14.3	7.2	4.0	12450	8000	416 892 900
6.5	7.0 - 7.4	4.0 - 5.6	13.3	9.5	5.5	22680	14450	416 901 900
		5.6 - 7.1	14.9	9.5	5.5	22680	14450	416 902 900
		7.2 - 8.7	16.5	9.5	5.5	22680	14450	416 903 900
		8.8 - 10.3	18.0	9.5	5.5	22680	14450	416 904 900
		10.3 - 11.9	19.6	9.5	5.5	22680	14450	416 905 900
		11.9 - 13.5	21.2	9.5	5.5	22680	14450	416 906 900
		16.7 - 18.2	26.0	9.5	5.5	22680	14450	416 909 900
18.3 - 19.8	27.6	9.5	5.5	22680	14450	416 910 900		
8.0	8.8 - 9.4	4.8 - 7.9	17.7	12.0	7.1	35800	23100	416 911 900
		8.0 - 11.1	20.8	12.0	7.1	35800	23100	416 912 900
		11.1 - 14.3	24.0	12.0	7.1	35800	23100	416 913 900
		14.3 - 17.5	27.2	12.0	7.1	35800	23100	416 914 900
		17.5 - 20.6	30.4	12.0	7.1	35800	23100	416 915 900
9.6	10.5 - 11.0	20.7 - 23.8	33.5	12.0	7.1	35800	23100	416 916 900
		4.8 - 7.9	19.5	14.3	8.2	49300	32200	416 920 900
		8.0 - 11.1	22.6	14.3	8.2	49300	32200	416 921 000
		11.2 - 14.2	25.8	14.3	8.2	49300	32200	416 922 900
		14.3 - 17.5	29.0	14.3	8.2	49300	32200	416 923 900
		17.5 - 20.6	32.2	14.3	8.2	49300	32200	416 924 900
		20.7 - 23.8	35.3	14.3	8.2	49300	32200	416 925 900
		23.9 - 27.0	38.5	14.3	8.2	49300	32200	416 926 900
12.7	13.9 - 14.8	27.0 - 30.1	41.7	14.3	8.2	49300	32200	416 927 900
		30.2 - 33.3	44.9	14.3	8.2	49300	32200	416 928 900
		9.6 - 12.7	28.6	19.2	10.5	89600	57800	416 930 900
		12.8 - 15.9	31.8	19.2	10.5	89600	57800	416 931 900
		15.9 - 19.0	34.9	19.2	10.5	89600	57800	416 932 900
16.0	17.4 - 18.5	19.1 - 22.2	38.1	19.2	10.5	89600	57800	416 933 900
		31.8 - 34.9	50.8	19.2	10.5	89600	57800	416 937 900
		19.1 - 25.4	43.5	23.7	13.4	141800	91100	416 942 900
		31.8 - 38.1	56.2	23.7	13.4	141800	91100	416 944 900

* Strengths at break relate to rivet failure.

Other designs available on request.

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The traditional company develops, manufactures and sells more than 30,000 fastening elements, tools and vehicle components – in series production and on request.

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