



海阔紧固件（苏州）有限公司

HEICO Fasteners (Suzhou) Co., Ltd.

苏州工业园区唯新路69号一能科技园2号楼201室

2-201 OET PARK, 69 Weixin Road, Suzhou 215121

Tel: +86-512-62921880 Fax: +86-512-62920933

www.heico-fasteners.cn

HEICO-LOCK®楔入式防松垫圈产品目录

Product List of HEICO-LOCK® Wedge Lock Washers

标准外径钢制锌片涂层垫圈

Standard Outer Ø Steel Washers, Zinc Flake Coated

| 公制 Metric | 英制 UNC | 型号 SKU | 订购编码 Item Code | 内径 Inner Ø [mm] | 外径 Outer Ø [mm] | 厚度(对) Thk.(St) [mm] | 包装数量 SPQ [pair] | 重量(对) Weight(St) [g] |
|--------------|-----------|-----------|-------------------|-----------------------|-----------------------|---------------------------|-----------------------|----------------------------|
| M3 | #5 | HLS-3 | 220035001070993 | 3.4 ±0.2 | 7.0 ±0.3 | 1.7 ±0.25 | 200 | 0.36 |
| M3.5 | #6 | HLS-3,5 | 220035001076993 | 3.9 ±0.2 | 7.6 ±0.3 | 1.7 ±0.25 | 200 | 0.42 |
| M4 | #8 | HLS-4 | 220045001076993 | 4.4 ±0.2 | 7.6 ±0.3 | 1.7 ±0.25 | 200 | 0.34 |
| M5 | #10 | HLS-5 | 220055001090993 | 5.4 ±0.2 | 9.0 ±0.3 | 1.7 ±0.25 | 200 | 0.48 |
| M6 | | HLS-6 | 220065001108993 | 6.5 ±0.2 | 10.8 ±0.3 | 1.7 ±0.25 | 200 | 0.72 |
| | 1/4" | HLS-1/4" | 220075001115993 | 7.2 ±0.2 | 11.5 ±0.3 | 1.7 ±0.25 | 200 | 0.76 |
| M8 | 5/16" | HLS-8 | 220085001135993 | 8.6 ±0.2 | 13.5 ±0.3 | 2.7 ±0.25 | 200 | 1.54 |
| | 3/8" | HLS-3/8" | 220095001160993 | 10.3 ±0.2 | 16.0 ±0.3 | 2.7 ±0.25 | 200 | 2.20 |
| M10 | | HLS-10 | 220105001166993 | 10.7 ±0.2 | 16.6 ±0.3 | 2.7 ±0.25 | 200 | 2.38 |
| M11 | 7/16" | HLS-11 | 220115001185993 | 11.4 ±0.2 | 18.5 ±0.3 | 2.7 ±0.25 | 200 | 3.20 |
| M12 | | HLS-12 | 220125001195993 | 13.0 ±0.2 | 19.5 ±0.3 | 2.7 ±0.25 | 200 | 3.20 |
| | 1/2" | HLS-1/2" | 220135001195993 | 13.5 ±0.2 | 19.5 ±0.3 | 2.7 ±0.25 | 200 | 2.94 |
| M14 | 9/16" | HLS-14 | 220145001230992 | 15.2 ±0.2 | 23.0 ±0.3 | 3.7 ±0.25 | 100 | 6.12 |
| M16 | 5/8" | HLS-16 | 220165001254992 | 17.0 ±0.2 | 25.4 ±0.3 | 3.7 ±0.25 | 100 | 7.42 |
| M18 | | HLS-18 | 220185001290992 | 19.5 ±0.2 | 29.0 ±0.3 | 3.7 ±0.25 | 100 | 9.66 |
| | 3/4" | HLS-3/4" | 220195001307992 | 20.0 ±0.2 | 30.7 ±0.3 | 3.7 ±0.25 | 100 | 11.74 |
| M20 | | HLS-20 | 220205001307992 | 21.4 ±0.2 | 30.7 ±0.3 | 3.7 ±0.25 | 100 | 10.28 |
| M22 | 7/8" | HLS-22 | 220225001345992 | 23.4 ±0.2 | 34.5 ±0.3 | 3.7 ±0.25 | 100 | 13.82 |
| M24 | | HLS-24 | 220245001390992 | 25.3 ±0.2 | 39.0 ±0.3 | 3.7 ±0.25 | 100 | 17.42 |
| | 1" | HLS-1" | 220255001390992 | 27.9 ±0.2 | 39.0 ±0.3 | 3.4 ±0.25 | 100 | 14.21 |
| M27 | | HLS-27 | 220275001420991 | 28.4 ±0.2 | 42.0 ±0.3 | 5.4 ±0.25 | 50 | 30.69 |
| M30 | 1 1/8" | HLS-30 | 220305001470991 | 31.4 ±0.2 | 47.0 ±0.3 | 5.7 ±0.25 | 50 | 41.28 |
| M33 | 1 1/4" | HLS-33 | 220335001485990 | 34.4 ±0.2 | 48.5 ±0.3 | 5.5 ±0.25 | 25 | 38.58 |
| M36 | 1 3/8" | HLS-36 | 220365001550990 | 37.4 ±0.2 | 55.0 ±0.3 | 6.2 ±0.25 | 25 | 58.88 |
| M39 | 1 1/2" | HLS-39 | 220395001585990 | 40.4 ±0.2 | 58.5 ±0.3 | 6.2 ±0.25 | 25 | 65.18 |
| M42 | | HLS-42 | 220425001630990 | 43.2 ±0.2 | 63.0 ±0.3 | 6.3 ±0.25 | 25 | 77.76 |
| M45 | 1 3/4" | HLS-45 | 220455001700990 | 46.2 ±0.2 | 70.0 ±0.3 | 6.5 ±0.25 | 25 | 106.84 |
| M48 | 1 7/8" | HLS-48 | 220485001750990 | 49.6 ±0.2 | 75.0 ±0.3 | 6.5 ±0.25 | 25 | 123.17 |
| M52 | 2" | HLS-52 | 220525001800997 | 53.6 ±0.2 | 80.0 ±0.3 | 6.5 ±0.25 | 1 | 137.89 |
| M56 | 2 1/4" | HLS-56 | 220565001850997 | 59.1 ±0.2 | 85.0 ±0.3 | 6.5 ±0.25 | 1 | 145.81 |
| M60 | 2 3/8" | HLS-60 | 220605001900997 | 63.1 ±0.2 | 90.0 ±0.3 | 6.5 ±0.25 | 1 | 161.56 |
| M64 | 2 1/2" | HLS-64 | 220645001950997 | 67.1 ±0.2 | 95.0 ±0.3 | 6.5 ±0.25 | 1 | 178.09 |
| M68 | 2 5/8" | HLS-68 | 220685001100997 | 71.1 ±0.2 | 100.0 ±0.3 | 9.3 ±0.5 | 1 | 279.13 |
| M72 | | HLS-72 | 220725001105997 | 75.1 ±0.2 | 105.0 ±0.3 | 9.3 ±0.5 | 1 | 304.96 |
| M76 | 3" | HLS-76 | 220765001110997 | 79.1 ±0.2 | 110.0 ±0.3 | 9.3 ±0.5 | 1 | 331.90 |
| M85 | | HLS-85 | 220855001117997 | 88.1 ±0.2 | 117.5 ±0.5 | 9.3 ±0.5 | 1 | 351.08 |

* 材质为经过热处理的1.1191[C45E]或等同牌号钢材（根据EN10027标准）

Material: heat-treated 1.1191[C45E] steel or equivalent (acc. to EN10027)

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Non-standard sizes upon request

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加宽外径钢制锌片涂层垫圈

Enlarged Outer Ø Steel Washers, Zinc Flake Coated

| 公制 Metric | 英制 UNC | 型号 SKU | 订购编码 Item Code | 内径 Inner Ø [mm] | 外径 Outer Ø [mm] | 厚度(对) Thk.(St) [mm] | 包装数量 SPQ [pair] | 重量(对) Weight(St) [g] |
|--------------|-----------|-----------|-------------------|-----------------------|-----------------------|---------------------------|-----------------------|----------------------------|
| M3.5 | #6 | HLB-3,5 | 220035101090993 | 3.9 ±0.2 | 9.0 ±0.3 | 1.7 ±0.25 | 200 | 0.66 |
| M4 | #8 | HLB-4 | 220045101090993 | 4.4 ±0.2 | 9.0 ±0.3 | 1.7 ±0.25 | 200 | 0.62 |
| M5 | #10 | HLB-5 | 220055101108993 | 5.4 ±0.2 | 10.8 ±0.3 | 1.7 ±0.25 | 200 | 0.86 |
| M6 | | HLB-6 | 220065101135993 | 6.5 ±0.2 | 13.5 ±0.3 | 2.7 ±0.25 | 200 | 2.08 |
| | 1/4" | HLB-1/4" | 220075101135993 | 7.2 ±0.2 | 13.5 ±0.3 | 2.7 ±0.25 | 200 | 1.88 |
| M8 | 5/16" | HLB-8 | 220085101166993 | 8.6 ±0.2 | 16.6 ±0.3 | 2.7 ±0.25 | 200 | 3.20 |
| | 3/8" | HLB-3/8" | 220095101210993 | 10.3 ±0.2 | 21.0 ±0.3 | 2.7 ±0.25 | 200 | 5.52 |
| M10 | | HLB-10 | 220105101210993 | 10.7 ±0.2 | 21.0 ±0.3 | 2.7 ±0.25 | 200 | 5.36 |
| M12 | | HLB-12 | 220125101254992 | 13.0 ±0.2 | 25.4 ±0.3 | 3.7 ±0.25 | 100 | 10.54 |
| | 1/2" | HLB-1/2" | 220135101254992 | 13.5 ±0.2 | 25.4 ±0.3 | 3.7 ±0.25 | 100 | 10.20 |
| M14 | 9/16" | HLB-14 | 220145101307992 | 15.2 ±0.2 | 30.7 ±0.3 | 3.7 ±0.25 | 100 | 16.08 |
| M16 | 5/8" | HLB-16 | 220165101307992 | 17.0 ±0.2 | 30.7 ±0.3 | 3.7 ±0.25 | 100 | 14.64 |
| M18 | | HLB-18 | 220185101345992 | 19.5 ±0.2 | 34.5 ±0.3 | 3.7 ±0.25 | 100 | 18.32 |
| | 3/4" | HLB-3/4" | 220195101390992 | 20.0 ±0.2 | 39.0 ±0.3 | 3.8 ±0.25 | 100 | 25.58 |
| M20 | | HLB-20 | 220205101390992 | 21.4 ±0.2 | 39.0 ±0.3 | 3.8 ±0.25 | 100 | 24.14 |
| M22 | 7/8" | HLB-22 | 220225101420991 | 23.4 ±0.2 | 42.0 ±0.3 | 4.7 ±0.25 | 50 | 34.20 |
| M24 | | HLB-24 | 220245101485991 | 25.3 ±0.2 | 48.5 ±0.3 | 4.7 ±0.25 | 50 | 48.10 |
| | 1" | HLB-1" | 220255101485991 | 27.9 ±0.2 | 48.5 ±0.3 | 4.7 ±0.25 | 50 | 43.82 |
| M27 | | HLB-27 | 220275101485990 | 28.4 ±0.2 | 48.5 ±0.3 | 6.7 ±0.25 | 25 | 60.12 |
| M30 | 1 1/8" | HLB-30 | 220305101585990 | 31.4 ±0.2 | 58.5 ±0.3 | 6.7 ±0.25 | 25 | 97.22 |
| M33 | 1 1/4" | HLB-33 | 220335101585990 | 34.4 ±0.2 | 58.5 ±0.3 | 6.7 ±0.25 | 25 | 91.62 |
| M36 | 1 3/8" | HLB-36 | 220365101630990 | 37.4 ±0.2 | 63.0 ±0.3 | 6.7 ±0.25 | 25 | 105.52 |
| M39 | 1 1/2" | HLB-39 | 220395101755990 | 40.4 ±0.2 | 75.5 ±0.3 | 6.6 ±0.25 | 25 | 159.85 |

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Material: heat-treated 1.1191[C45E] steel or equivalent (acc. to EN10027)

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HEICO-LOCK®楔入式防松垫圈产品目录 Product List of HEICO-LOCK® Wedge Lock Washers

标准外径316L不锈钢垫圈 Standard Outer Ø 316L Stainless Steel Washers

| 公制 Metric | 英制 UNC | 型号 SKU | 订购编码 Item Code | 内径 Inner Ø [mm] | 外径 Outer Ø [mm] | 厚度(对) Thk.(St) [mm] | 包装数量 SPQ [pair] | 重量(对) Weight(St) [g] |
|--------------|-----------|-----------|-------------------|-----------------------|-----------------------|---------------------------|-----------------------|----------------------------|
| M3 | #5 | HLS-3S | 220035031070113 | 3.4 ±0.2 | 7.0 ±0.3 | 1.6 ±0.25 | 200 | 0.36 |
| M3.5 | #6 | HLS-3,5S | 220035031076113 | 3.9 ±0.2 | 7.6 ±0.3 | 1.6 ±0.25 | 200 | 0.42 |
| M4 | #8 | HLS-4S | 220045031076113 | 4.4 ±0.2 | 7.6 ±0.3 | 1.6 ±0.25 | 200 | 0.34 |
| M5 | #10 | HLS-5S | 220055031090113 | 5.4 ±0.2 | 9.0 ±0.3 | 1.6 ±0.25 | 200 | 0.48 |
| M6 | | HLS-6S | 220065031108113 | 6.5 ±0.2 | 10.8 ±0.3 | 1.6 ±0.25 | 200 | 0.72 |
| | 1/4" | HLS-1/4"S | 220075031115113 | 7.2 ±0.2 | 11.5 ±0.3 | 1.6 ±0.25 | 200 | 0.76 |
| M8 | 5/16" | HLS-8S | 220085031135113 | 8.6 ±0.2 | 13.5 ±0.3 | 2.6 ±0.25 | 200 | 1.54 |
| | 3/8" | HLS-3/8"S | 220095031160113 | 10.3 ±0.2 | 16.0 ±0.3 | 2.6 ±0.25 | 200 | 2.20 |
| M10 | | HLS-10S | 220105031166113 | 10.7 ±0.2 | 16.6 ±0.3 | 2.6 ±0.25 | 200 | 2.38 |
| M11 | 7/16" | HLS-11S | 220115031185113 | 11.4 ±0.2 | 18.5 ±0.3 | 2.6 ±0.25 | 200 | 3.20 |
| M12 | | HLS-12S | 220125031195113 | 13.0 ±0.2 | 19.5 ±0.3 | 2.6 ±0.25 | 200 | 3.20 |
| | 1/2" | HLS-1/2"S | 220135031195113 | 13.5 ±0.2 | 19.5 ±0.3 | 2.6 ±0.25 | 200 | 2.94 |
| M14 | 9/16" | HLS-14S | 220145031230112 | 15.2 ±0.2 | 23.0 ±0.3 | 3.6 ±0.25 | 100 | 6.12 |
| M16 | 5/8" | HLS-16S | 220165031254112 | 17.0 ±0.2 | 25.4 ±0.3 | 3.6 ±0.25 | 100 | 7.42 |
| M18 | | HLS-18S | 220185031290112 | 19.5 ±0.2 | 29.0 ±0.3 | 3.6 ±0.25 | 100 | 9.66 |
| | 3/4" | HLS-3/4"S | 220195031307112 | 20.0 ±0.2 | 30.7 ±0.3 | 3.6 ±0.25 | 100 | 11.74 |
| M20 | | HLS-20S | 220205031307112 | 21.4 ±0.2 | 30.7 ±0.3 | 3.6 ±0.25 | 100 | 10.28 |
| M22 | 7/8" | HLS-22S | 220225031345112 | 23.4 ±0.2 | 34.5 ±0.3 | 3.6 ±0.25 | 100 | 13.82 |
| M24 | | HLS-24S | 220245031390112 | 25.3 ±0.2 | 39.0 ±0.3 | 3.6 ±0.25 | 100 | 17.42 |
| | 1" | HLS-1"S | 220255031390112 | 27.9 ±0.2 | 39.0 ±0.3 | 3.4 ±0.25 | 100 | 14.21 |
| M27 | | HLS-27S | 220275031420111 | 28.4 ±0.2 | 42.0 ±0.3 | 5.3 ±0.25 | 50 | 30.69 |
| M30 | 1 1/8" | HLS-30S | 220305031470111 | 31.4 ±0.2 | 47.0 ±0.3 | 5.6 ±0.25 | 50 | 41.29 |
| M33 | 1 1/4" | HLS-33S | 220335031485110 | 34.4 ±0.2 | 48.5 ±0.3 | 5.6 ±0.25 | 25 | 38.58 |
| M36 | 1 3/8" | HLS-36S | 220365031550110 | 37.4 ±0.2 | 55.0 ±0.3 | 6.1 ±0.25 | 25 | 58.88 |
| M39 | 1 1/2" | HLS-39S | 220395031585110 | 40.4 ±0.2 | 58.5 ±0.3 | 6.0 ±0.25 | 25 | 65.18 |
| M42 | | HLS-42S | 220425031630110 | 43.2 ±0.2 | 63.0 ±0.3 | 6.2 ±0.25 | 25 | 77.76 |
| M45 | 1 3/4" | HLS-45S | 220455031700110 | 46.2 ±0.2 | 70.0 ±0.3 | 6.6 ±0.25 | 25 | 106.84 |
| M48 | 1 7/8" | HLS-48S | 220485031750110 | 49.6 ±0.2 | 75.0 ±0.3 | 6.6 ±0.25 | 25 | 123.17 |
| M52 | 2" | HLS-52S | 220525031800117 | 53.6 ±0.2 | 80.0 ±0.3 | 6.6 ±0.25 | 1 | 137.89 |
| M56 | 2 1/4" | HLS-56S | 220565031850117 | 59.1 ±0.2 | 85.0 ±0.3 | 6.6 ±0.25 | 1 | 145.81 |
| M60 | 2 3/8" | HLS-60S | 220605031900117 | 63.1 ±0.2 | 90.0 ±0.3 | 6.6 ±0.25 | 1 | 161.56 |
| M64 | 2 1/2" | HLS-64S | 220645031950117 | 67.1 ±0.2 | 95.0 ±0.3 | 6.6 ±0.25 | 1 | 178.09 |
| M68 | 2 5/8" | HLS-68S | 220685031100117 | 71.1 ±0.2 | 100.0 ±0.3 | 9.5 ±0.5 | 1 | 279.13 |
| M72 | | HLS-72S | 220725031105117 | 75.1 ±0.2 | 105.0 ±0.3 | 9.5 ±0.5 | 1 | 304.96 |
| M76 | 3" | HLS-76S | 220765031110117 | 79.1 ±0.2 | 110.0 ±0.3 | 9.5 ±0.5 | 1 | 331.90 |
| M85 | | HLS-85S | 220855031117117 | 88.1 ±0.2 | 117.5 ±0.5 | 9.4 ±0.5 | 1 | 351.08 |

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HEICO-LOCK®楔入式防松垫圈产品目录 Product List of HEICO-LOCK® Wedge Lock Washers

加宽外径316L不锈钢垫圈 Enlarged Outer Ø 316L Stainless Steel Washers

| 公制 Metric | 英制 UNC | 型号 SKU | 订购编码 Item Code | 内径 Inner Ø [mm] | 外径 Outer Ø [mm] | 厚度(对) Thk.(St) [mm] | 包装数量 SPQ [pair] | 重量(对) Weight(St) [g] |
|--------------|-----------|-----------|-------------------|-----------------------|-----------------------|---------------------------|-----------------------|----------------------------|
| M3.5 | #6 | HLB-3,5S | 220035131090113 | 3.9 ±0.2 | 9.0 ±0.3 | 1.6 ±0.25 | 200 | 0.66 |
| M4 | #8 | HLB-4S | 220045131090113 | 4.4 ±0.2 | 9.0 ±0.3 | 1.6 ±0.25 | 200 | 0.62 |
| M5 | #10 | HLB-5S | 220055131108113 | 5.4 ±0.2 | 10.8 ±0.3 | 1.6 ±0.25 | 200 | 0.86 |
| M6 | | HLB-6S | 220065131135113 | 6.5 ±0.2 | 13.5 ±0.3 | 2.6 ±0.25 | 200 | 2.08 |
| | 1/4" | HLB-1/4"S | 220075131135113 | 7.2 ±0.2 | 13.5 ±0.3 | 2.6 ±0.25 | 200 | 1.88 |
| M8 | 5/16" | HLB-8S | 220085131166113 | 8.6 ±0.2 | 16.6 ±0.3 | 2.6 ±0.25 | 200 | 3.20 |
| | 3/8" | HLB-3/8"S | 220095131210113 | 10.3 ±0.2 | 21.0 ±0.3 | 2.6 ±0.25 | 200 | 5.52 |
| M10 | | HLB-10S | 220105131210113 | 10.7 ±0.2 | 21.0 ±0.3 | 2.6 ±0.25 | 200 | 5.36 |
| M12 | | HLB-12S | 220125131254112 | 13.0 ±0.2 | 25.4 ±0.3 | 3.6 ±0.25 | 100 | 10.54 |
| | 1/2" | HLB-1/2"S | 220135131254112 | 13.5 ±0.2 | 25.4 ±0.3 | 3.6 ±0.25 | 100 | 10.20 |
| M14 | 9/16" | HLB-14S | 220145131307112 | 15.2 ±0.2 | 30.7 ±0.3 | 3.6 ±0.25 | 100 | 16.08 |
| M16 | 5/8" | HLB-16S | 220165131307112 | 17.0 ±0.2 | 30.7 ±0.3 | 3.6 ±0.25 | 100 | 14.64 |
| M18 | | HLB-18S | 220185131345112 | 19.5 ±0.2 | 34.5 ±0.3 | 3.6 ±0.25 | 100 | 18.32 |
| | 3/4" | HLB-3/4"S | 220195131390112 | 20.0 ±0.2 | 39.0 ±0.3 | 3.8 ±0.25 | 100 | 25.58 |
| M20 | | HLB-20S | 220205131390112 | 21.4 ±0.2 | 39.0 ±0.3 | 3.8 ±0.25 | 100 | 24.14 |
| M22 | 7/8" | HLB-22S | 220225131420111 | 23.4 ±0.2 | 42.0 ±0.3 | 4.6 ±0.25 | 50 | 34.20 |
| M24 | | HLB-24S | 220245131485111 | 25.3 ±0.2 | 48.5 ±0.3 | 4.6 ±0.25 | 50 | 48.10 |
| | 1" | HLB-1"S | 220255131485111 | 27.9 ±0.2 | 48.5 ±0.3 | 4.6 ±0.25 | 50 | 43.82 |
| M27 | | HLB-27S | 220275131485110 | 28.4 ±0.2 | 48.5 ±0.3 | 6.6 ±0.25 | 25 | 60.12 |
| M30 | 1 1/8" | HLB-30S | 220305131585110 | 31.4 ±0.2 | 58.5 ±0.3 | 6.6 ±0.25 | 25 | 97.22 |
| M33 | 1 1/4" | HLB-33S | 220335131585110 | 34.4 ±0.2 | 58.5 ±0.3 | 6.6 ±0.25 | 25 | 91.62 |
| M36 | 1 3/8" | HLB-36S | 220365131630110 | 37.4 ±0.2 | 63.0 ±0.3 | 6.6 ±0.25 | 25 | 105.52 |

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苏州工业园区唯新路69号一能科技园2号楼201室
2-201 OET PARK, 69 Weixin Road, Suzhou 215121
Tel: +86-512-62921880 Fax: +86-512-62920933
www.heico-fasteners.cn

HEICO-LOCK®楔入式防松垫圈产品目录 Product List of HEICO-LOCK® Wedge Lock Washers

标准外径254 SMO®垫圈 Standard Outer Ø 254 SMO® Washers

| 公制 Metric | 英制 UNC | 型号 SKU | 订购编码 Item Code | 内径 Inner Ø [mm] | 外径 Outer Ø [mm] | 厚度(对) Thk.(St) [mm] | 包装数量 SPQ [pair] | 重量(对) Weight(St) [g] |
|--------------|-----------|-------------|-------------------|-----------------------|-----------------------|---------------------------|-----------------------|----------------------------|
| M3 | #5 | HLS-3SMO | 220035041070113 | 3.4 ±0.2 | 7.0 ±0.3 | 1.7 ±0.3 | 200 | 0.36 |
| M3.5 | #6 | HLS-3,5SMO | 220035041076113 | 3.9 ±0.2 | 7.6 ±0.3 | 1.7 ±0.3 | 200 | 0.42 |
| M4 | #8 | HLS-4SMO | 220045041076113 | 4.4 ±0.2 | 7.6 ±0.3 | 1.7 ±0.3 | 200 | 0.34 |
| M5 | #10 | HLS-5SMO | 220055041090113 | 5.4 ±0.2 | 9.0 ±0.3 | 1.7 ±0.3 | 200 | 0.48 |
| M6 | | HLS-6SMO | 220065041108113 | 6.5 ±0.2 | 10.8 ±0.3 | 1.7 ±0.3 | 200 | 0.72 |
| | 1/4" | HLS-1/4"SMO | 220075041115113 | 7.2 ±0.2 | 11.5 ±0.3 | 1.7 ±0.3 | 200 | 0.76 |
| M8 | 5/16" | HLS-8SMO | 220085041135113 | 8.6 ±0.2 | 13.5 ±0.3 | 2.2 ±0.4 | 200 | 1.54 |
| | 3/8" | HLS-3/8"SMO | 220095041160113 | 10.3 ±0.2 | 16.0 ±0.3 | 2.2 ±0.4 | 200 | 2.20 |
| M10 | | HLS-10SMO | 220105041166113 | 10.7 ±0.2 | 16.6 ±0.3 | 2.2 ±0.4 | 200 | 2.38 |
| M11 | 7/16" | HLS-11SMO | 220115041185113 | 11.4 ±0.2 | 18.5 ±0.3 | 2.2 ±0.4 | 200 | 3.20 |
| M12 | | HLS-12SMO | 220125041195113 | 13.0 ±0.2 | 19.5 ±0.3 | 2.2 ±0.4 | 200 | 3.20 |
| | 1/2" | HLS-1/2"SMO | 220135041195113 | 13.5 ±0.2 | 19.5 ±0.3 | 2.2 ±0.4 | 200 | 2.94 |
| M14 | 9/16" | HLS-14SMO | 220145041230112 | 15.2 ±0.2 | 23.0 ±0.5 | 3.1 ±0.5 | 100 | 6.12 |
| M16 | 5/8" | HLS-16SMO | 220165041254112 | 17.0 ±0.2 | 25.4 ±0.5 | 3.1 ±0.5 | 100 | 7.42 |
| M18 | | HLS-18SMO | 220185041290112 | 19.5 ±0.2 | 29.0 ±0.5 | 3.1 ±0.5 | 100 | 9.66 |
| | 3/4" | HLS-3/4"SMO | 220195041307112 | 20.0 ±0.2 | 30.7 ±0.5 | 3.1 ±0.5 | 100 | 11.74 |
| M20 | | HLS-20SMO | 220205041307112 | 21.4 ±0.2 | 30.7 ±0.5 | 3.1 ±0.5 | 100 | 10.28 |
| M22 | 7/8" | HLS-22SMO | 220225041345112 | 23.4 ±0.2 | 34.5 ±0.5 | 3.1 ±0.5 | 100 | 13.82 |
| M24 | | HLS-24SMO | 220245041390112 | 25.3 ±0.2 | 39.0 ±0.5 | 3.1 ±0.5 | 100 | 17.42 |
| | 1" | HLS-1"SMO | 220255041390112 | 27.9 ±0.2 | 39.0 ±0.5 | 3.1 ±0.5 | 100 | 14.21 |
| M27 | | HLS-27SMO | 220275041420111 | 28.4 ±0.2 | 42.0 ±0.5 | 5.4 ±0.6 | 50 | 30.69 |
| M30 | 1 1/8" | HLS-30SMO | 220305041470111 | 31.4 ±0.2 | 47.0 ±0.5 | 5.4 ±0.6 | 50 | 41.29 |
| M33 | 1 1/4" | HLS-33SMO | 220335041485110 | 34.4 ±0.2 | 48.5 ±0.5 | 5.4 ±0.6 | 25 | 38.58 |
| M36 | 1 3/8" | HLS-36SMO | 220365041550110 | 37.4 ±0.2 | 55.0 ±0.5 | 5.4 ±0.6 | 25 | 58.88 |
| M39 | 1 1/2" | HLS-39SMO | 220395041585110 | 40.4 ±0.2 | 58.5 ±0.5 | 5.4 ±0.6 | 25 | 65.18 |
| M42 | | HLS-42SMO | 220425041630110 | 43.2 ±0.2 | 63.0 ±0.5 | 5.4 ±0.6 | 25 | 77.76 |

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Material: 1.4547[254 SMO®] or equivalent (acc. to EN10027)

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海阔紧固件（苏州）有限公司
HEICO Fasteners (Suzhou) Co., Ltd.
 苏州工业园区唯新路69号一能科技园2号楼201室
 2-201 OET PARK, 69 Weixin Road, Suzhou 215121
 Tel: +86-512-62921880 Fax: +86-512-62920933
 www.heico-fasteners.cn

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加宽外径254 SMO®不锈钢垫圈 Enlarged Outer Ø 254 SMO® Stainless Steel Washers

| 公制 Metric | 英制 UNC | 型号 SKU | 订购编码 Item Code | 内径 Inner Ø [mm] | 外径 Outer Ø [mm] | 厚度(对) Thk.(St) [mm] | 包装数量 SPQ [pair] | 重量(对) Weight(St) [g] |
|--------------|-----------|-------------|-------------------|-----------------------|-----------------------|---------------------------|-----------------------|----------------------------|
| M3.5 | #6 | HLB-3,5SMO | 220035141090113 | 3.9 ±0.2 | 9.0 ±0.3 | 1.7 ±0.3 | 200 | 0.66 |
| M4 | #8 | HLB-4SMO | 220045141090113 | 4.4 ±0.2 | 9.0 ±0.3 | 1.7 ±0.3 | 200 | 0.62 |
| M5 | #10 | HLB-5SMO | 220055141108113 | 5.4 ±0.2 | 10.8 ±0.3 | 1.7 ±0.3 | 200 | 0.86 |
| M6 | | HLB-6SMO | 220065141135113 | 6.5 ±0.2 | 13.5 ±0.3 | 2.2 ±0.4 | 200 | 2.08 |
| | 1/4" | HLB-1/4"SMO | 220075141135113 | 7.2 ±0.2 | 13.5 ±0.3 | 2.2 ±0.4 | 200 | 1.88 |
| M8 | 5/16" | HLB-8SMO | 220085141166113 | 8.6 ±0.2 | 16.6 ±0.3 | 2.2 ±0.4 | 200 | 3.20 |
| | 3/8" | HLB-3/8"SMO | 220095141210113 | 10.3 ±0.2 | 21.0 ±0.3 | 2.2 ±0.4 | 200 | 5.52 |
| M10 | | HLB-10SMO | 220105141210113 | 10.7 ±0.2 | 21.0 ±0.3 | 2.2 ±0.4 | 200 | 5.36 |
| M12 | | HLB-12SMO | 220125141254112 | 13.0 ±0.2 | 25.4 ±0.3 | 3.1 ±0.5 | 100 | 10.54 |
| | 1/2" | HLB-1/2"SMO | 220135141254112 | 13.5 ±0.2 | 25.4 ±0.3 | 3.1 ±0.5 | 100 | 10.20 |
| M14 | 9/16" | HLB-14SMO | 220145141307112 | 15.2 ±0.2 | 30.7 ±0.5 | 3.1 ±0.5 | 100 | 16.08 |
| M16 | 5/8" | HLB-16SMO | 220165141307112 | 17.0 ±0.2 | 30.7 ±0.5 | 3.1 ±0.5 | 100 | 14.64 |
| M18 | | HLB-18SMO | 220185141345112 | 19.5 ±0.2 | 34.5 ±0.5 | 3.1 ±0.5 | 100 | 18.32 |
| | 3/4" | HLB-3/4"SMO | 220195141390112 | 20.0 ±0.2 | 39.0 ±0.5 | 3.1 ±0.5 | 100 | 25.58 |
| M20 | | HLB-20SMO | 220205141390112 | 21.4 ±0.2 | 39.0 ±0.5 | 3.1 ±0.5 | 100 | 24.14 |
| M22 | 7/8" | HLB-22SMO | 220225141420111 | 23.4 ±0.2 | 42.0 ±0.5 | 3.1 ±0.5 | 50 | 34.20 |
| M24 | | HLB-24SMO | 220245141485111 | 25.3 ±0.2 | 48.5 ±0.5 | 3.1 ±0.5 | 50 | 48.10 |
| | 1" | HLB-1"SMO | 220255141485111 | 27.9 ±0.2 | 48.5 ±0.5 | 3.1 ±0.5 | 50 | 43.82 |
| M27 | | HLB-27SMO | 220275141485110 | 28.4 ±0.2 | 48.5 ±0.5 | 5.4 ±0.6 | 25 | 60.12 |
| M30 | 1 1/8" | HLB-30SMO | 220305141585110 | 31.4 ±0.2 | 58.5 ±0.5 | 5.4 ±0.6 | 25 | 97.22 |
| M33 | 1 1/4" | HLB-33SMO | 220335141585110 | 34.4 ±0.2 | 58.5 ±0.5 | 5.4 ±0.6 | 25 | 91.62 |
| M36 | 1 3/8" | HLB-36SMO | 220365141630110 | 37.4 ±0.2 | 63.0 ±0.5 | 5.4 ±0.6 | 25 | 105.52 |

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海阔紧固件(苏州)有限公司
HEICO Fasteners (Suzhou) Co., Ltd.
苏州工业园区唯新路69号一能科技园2号楼201室
2-201 OET PARK, 69 Weixin Road, Suzhou 215121
Tel: +86-512-62921880 Fax: +86-512-62920933
www.heico-fasteners.cn

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标准外径718合金垫圈 Standard Outer Ø Alloy 718 Washers

| 公制 Metric | 英制 UNC | 型号 SKU | 订购编码 Item Code | 内径 Inner Ø [mm] | 外径 Outer Ø [mm] | 厚度(对) Thk.(St) [mm] | 包装数量 SPQ [pair] | 重量(对) Weight(St) [g] |
|--------------|-----------|---------------|-------------------|-----------------------|-----------------------|---------------------------|-----------------------|----------------------------|
| M3 | #5 | HLS-3ALL718 | 220035061070113 | 3.4 ±0.2 | 7.0 ±0.3 | 1.7 ±0.3 | 200 | 0.36 |
| M3.5 | #6 | HLS-3,5ALL718 | 220035061076113 | 3.9 ±0.2 | 7.6 ±0.3 | 1.7 ±0.3 | 200 | 0.42 |
| M4 | #8 | HLS-4ALL718 | 220065061076113 | 4.4 ±0.2 | 7.6 ±0.3 | 1.7 ±0.3 | 200 | 0.34 |
| M5 | #10 | HLS-5ALL718 | 220055061090113 | 5.4 ±0.2 | 9.0 ±0.3 | 1.7 ±0.3 | 200 | 0.48 |
| M6 | | HLS-6ALL718 | 220065061108113 | 6.5 ±0.2 | 10.8 ±0.3 | 1.7 ±0.3 | 200 | 0.72 |
| M8 | 5/16" | HLS-8ALL718 | 220085061135113 | 8.6 ±0.2 | 13.5 ±0.3 | 2.2 ±0.4 | 200 | 1.54 |
| M10 | | HLS-10ALL718 | 220105061166113 | 10.7 ±0.2 | 16.6 ±0.3 | 2.2 ±0.4 | 200 | 2.38 |
| M12 | | HLS-12ALL718 | 220125061195113 | 13.0 ±0.2 | 19.5 ±0.3 | 2.2 ±0.4 | 200 | 3.20 |
| M14 | 9/16" | HLS-14ALL718 | 220145061230112 | 15.2 ±0.2 | 23.0 ±0.5 | 3.1 ±0.5 | 100 | 6.12 |
| M16 | 5/8" | HLS-16ALL718 | 220165061254112 | 17.0 ±0.2 | 25.4 ±0.5 | 3.1 ±0.5 | 100 | 7.42 |
| M18 | | HLS-18ALL718 | 220185061290112 | 19.5 ±0.2 | 29.0 ±0.5 | 3.1 ±0.5 | 100 | 9.66 |
| M20 | | HLS-20ALL718 | 220205061307112 | 21.4 ±0.2 | 30.7 ±0.5 | 3.1 ±0.5 | 100 | 10.28 |
| M22 | 7/8" | HLS-22ALL718 | 220225061345112 | 23.4 ±0.2 | 34.5 ±0.5 | 3.1 ±0.5 | 100 | 13.82 |
| M24 | | HLS-24ALL718 | 220245061390112 | 25.3 ±0.2 | 39.0 ±0.5 | 3.1 ±0.5 | 100 | 17.42 |

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HEICO Fasteners (Suzhou) Co., Ltd.
苏州工业园区唯新路69号一能科技园2号楼201室
2-201 OET PARK, 69 Weixin Road, Suzhou 215121
Tel: +86-512-62921880 Fax: +86-512-62920933
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加宽外径718合金垫圈 Enlarged Outer Ø Alloy 718 Washers

| 公制 Metric | 英制 UNC | 型号 SKU | 订购编码 Item Code | 内径 Inner Ø [mm] | 外径 Outer Ø [mm] | 厚度(对) Thk.(St) [mm] | 包装数量 SPQ [pair] | 重量(对) Weight(St) [g] |
|--------------|-----------|---------------|-------------------|-----------------------|-----------------------|---------------------------|-----------------------|----------------------------|
| M3.5 | #6 | HLB-3,5ALL718 | 220035161090113 | 3.9 ±0.2 | 9.0 ±0.3 | 1.7 ±0.3 | 200 | 0.66 |
| M4 | #8 | HLB-4ALL718 | 220045161090113 | 4.4 ±0.2 | 9.0 ±0.3 | 1.7 ±0.3 | 200 | 0.62 |
| M5 | #10 | HLB-5ALL718 | 220055161108113 | 5.4 ±0.2 | 10.8 ±0.3 | 1.7 ±0.3 | 200 | 0.86 |
| M6 | | HLB-6ALL718 | 220065161135113 | 6.5 ±0.2 | 13.5 ±0.3 | 2.2 ±0.4 | 200 | 2.08 |
| M8 | 5/16" | HLB-8ALL718 | 220085161166113 | 8.6 ±0.2 | 16.6 ±0.3 | 2.2 ±0.4 | 200 | 3.20 |
| M10 | | HLB-10ALL718 | 220105161210113 | 10.7 ±0.2 | 21.0 ±0.3 | 2.2 ±0.4 | 200 | 5.36 |
| M12 | | HLB-12ALL718 | 220125161256112 | 13.0 ±0.2 | 25.4 ±0.3 | 3.1 ±0.5 | 100 | 10.54 |
| M14 | 9/16" | HLB-14ALL718 | 220145161307112 | 15.2 ±0.2 | 30.7 ±0.5 | 3.1 ±0.5 | 100 | 16.08 |
| M16 | 5/8" | HLB-16ALL718 | 220165161307112 | 17.0 ±0.2 | 30.7 ±0.5 | 3.1 ±0.5 | 100 | 14.64 |
| M18 | | HLB-18ALL718 | 220185161345112 | 19.5 ±0.2 | 34.5 ±0.5 | 3.1 ±0.5 | 100 | 18.32 |
| M20 | | HLB-20ALL718 | 220205161390112 | 21.4 ±0.2 | 39.0 ±0.5 | 3.1 ±0.5 | 100 | 24.14 |
| M22 | 7/8" | HLB-22ALL718 | 220225161420111 | 23.4 ±0.2 | 42.0 ±0.5 | 3.1 ±0.5 | 50 | 34.20 |
| M24 | | HLB-24ALL718 | 220245161485111 | 25.3 ±0.2 | 48.5 ±0.5 | 3.1 ±0.5 | 50 | 48.10 |

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