

Product Catalogue

Max Metal Ltd

1680 bul. Bulgaria 86A, Sofia Bulgaria

Precision, Cold Drawn Seamless H8 Tubes

| OD | ID | WT | KG/M |
|------|------|------|-------|
| 60 | 50 | 5 | 6,78 |
| 65 | 50 | 7,5 | 10,64 |
| 70 | 50 | 10 | 14,8 |
| 80 | 50 | 15 | 24,04 |
| 63,5 | 50,8 | 6,35 | 8,95 |
| 70 | 60 | 5 | 8,01 |
| 72 | 60 | 6 | 9,77 |
| 75 | 60 | 7,5 | 12,48 |
| 80 | 60 | 10 | 17,26 |
| 85 | 60 | 12,5 | 22,35 |
| 73 | 63 | 5 | 8,38 |
| 75 | 63 | 6 | 10,21 |
| 78 | 63 | 7,5 | 13,04 |
| 83 | 63 | 10 | 18 |
| 76,2 | 63,5 | 6,35 | 10,94 |
| 80 | 63 | 8,5 | 14,99 |
| 75 | 65 | 5 | 8,63 |
| 80 | 65 | 7,5 | 13,41 |
| 95 | 65 | 15 | 29,59 |
| 80 | 70 | 5 | 9,25 |
| 82 | 70 | 6 | 11,25 |
| 85 | 70 | 7,5 | 14,33 |
| 90 | 70 | 10 | 19,73 |
| 100 | 70 | 15 | 31,44 |
| 85 | 75 | 5 | 9,86 |
| 87 | 75 | 6 | 11,99 |
| 90 | 75 | 7,5 | 15,26 |
| 95 | 75 | 10 | 20,96 |
| 105 | 75 | 15 | 33,29 |
| 88,9 | 76,2 | 6,35 | 12,93 |
| 90 | 80 | 5 | 10,48 |
| 92 | 80 | 6 | 12,73 |
| 95 | 80 | 7,5 | 16,18 |
| 100 | 80 | 10 | 22,2 |

| OD | ID | WT | KG/M |
|--------|--------|-------|-------|
| 105 | 80 | 12,5 | 28,51 |
| 110 | 80 | 15 | 35,14 |
| 95,25 | 82,55 | 6,35 | 13,92 |
| 95 | 85 | 5 | 11,1 |
| 97 | 85 | 6 | 13,47 |
| 100 | 85 | 7,5 | 17,11 |
| 105 | 85 | 10 | 23,43 |
| 110 | 85 | 12,5 | 30,06 |
| 101,6 | 88,9 | 6,35 | 14,92 |
| 100 | 90 | 5 | 11,71 |
| 102 | 90 | 6 | 14,21 |
| 110 | 90 | 10 | 24,66 |
| 120 | 90 | 15 | 38,84 |
| 105 | 90 | 7,5 | 18,03 |
| 110 | 100 | 5 | 12,95 |
| 115 | 100 | 7,5 | 19,88 |
| 120 | 100 | 10 | 27,13 |
| 125 | 100 | 12,5 | 34,68 |
| 130 | 100 | 15 | 42,54 |
| 140,00 | 100,00 | 20,00 | 59,19 |
| 114,30 | 101,60 | 6,35 | 16,91 |
| 120 | 105 | 7,5 | 20,81 |
| 125 | 105 | 10 | 28,36 |
| 130 | 105 | 12,5 | 36,22 |
| 135 | 105 | 15 | 44,39 |
| 125 | 110 | 7,5 | 21,73 |
| 130 | 110 | 10 | 29,59 |
| 135 | 110 | 12,5 | 37,76 |
| 140 | 110 | 15 | 46,24 |
| 127 | 114,3 | 6,35 | 18,89 |
| 130 | 115 | 7,5 | 22,66 |
| 135 | 115 | 10 | 30,83 |
| 140 | 115 | 12,5 | 39,30 |
| 145 | 115 | 15 | 48,09 |

| | |
|---------------------|--|
| Steel Grade | E355+SR |
| Product Standard | EN 10305-1 |
| ID Tolerance | H8 |
| Eccentricity | max. 5% |
| Straightness | max. 0,5mm / 1.000mm |
| Roughness | Ra = max. 0,3 µm |
| Length of tubes | L = 5.000mm - 7.000mm |
| Protection of tubes | Tubes are oiled on the ID and OD against corrosion |

Precision, Cold Drawn Seamless H8 Tubes

| OD | ID | WT | KG/M |
|-------|-----|-------|-------|
| 135 | 120 | 7,5 | 23,58 |
| 140 | 120 | 10 | 32,06 |
| 145 | 120 | 12,5 | 40,85 |
| 150 | 120 | 15 | 49,94 |
| 140 | 125 | 7,5 | 24,51 |
| 145 | 125 | 10 | 33,29 |
| 150 | 125 | 12,5 | 42,39 |
| 160 | 125 | 17,5 | 61,50 |
| 139,7 | 127 | 6,35 | 20,88 |
| 150 | 130 | 10 | 34,53 |
| 155 | 130 | 12,5 | 43,93 |
| 160 | 130 | 15 | 53,64 |
| 150 | 135 | 7,5 | 26,36 |
| 160 | 135 | 12,5 | 45,47 |
| 160 | 140 | 10 | 36,99 |
| 165 | 140 | 12,5 | 47,01 |
| 170 | 140 | 15 | 57,34 |
| 175 | 140 | 17,5 | 67,97 |
| 180 | 140 | 20 | 78,92 |
| 175 | 147 | 14,09 | 55,91 |
| 180 | 147 | 16,59 | 66,86 |
| 165 | 150 | 7,5 | 29,13 |
| 170 | 150 | 10 | 39,46 |
| 175 | 150 | 12,5 | 50,09 |
| 180 | 150 | 15 | 61,04 |
| 181 | 150 | 15,5 | 63,26 |
| 180 | 160 | 10 | 41,92 |
| 185 | 160 | 12,5 | 53,18 |
| 190 | 160 | 15 | 64,74 |
| 195 | 160 | 17,5 | 76,60 |
| 200 | 160 | 20 | 88,78 |
| 185 | 165 | 10 | 43,16 |
| 190 | 165 | 12,5 | 54,72 |
| 193,7 | 165 | 14,35 | 63,47 |

| OD | ID | WT | KG/M |
|-----|-----|------|-------|
| 195 | 165 | 15 | 66,59 |
| 200 | 165 | 17,5 | 78,76 |
| 205 | 165 | 20 | 91,25 |
| 190 | 170 | 10 | 44,39 |
| 195 | 170 | 12,5 | 56,26 |
| 200 | 170 | 15 | 68,44 |
| 200 | 180 | 10 | 46,86 |
| 205 | 180 | 12,5 | 59,34 |
| 210 | 180 | 15 | 72,13 |

| C% max | Mn% max | Si% max | P% max | S% max | N% max |
|--------|---------|---------|--------|--------|--------|
| 0,22 | 1,6 | 0,55 | 0,025 | 0,02 | 0,009 |

Precision, Welded Cold Drawn H9 Tubes

| OD | ID | WT | KG/M |
|----|----|-----|-------|
| 30 | 20 | 5 | 3,08 |
| 35 | 25 | 5 | 3,70 |
| 40 | 30 | 5 | 4,32 |
| 42 | 32 | 5 | 4,56 |
| 45 | 35 | 5 | 4,93 |
| 50 | 40 | 5 | 5,55 |
| 55 | 45 | 5 | 6,17 |
| 60 | 50 | 5 | 6,78 |
| 65 | 50 | 7,5 | 10,64 |
| 65 | 55 | 5 | 7,40 |
| 70 | 60 | 5 | 8,02 |
| 73 | 63 | 5 | 8,39 |
| 75 | 63 | 6 | 10,21 |
| 75 | 65 | 5 | 8,63 |
| 80 | 65 | 7,5 | 13,41 |
| 80 | 70 | 5 | 9,25 |

| OD | ID | WT | KG/M |
|-----|-----|-----|-------|
| 82 | 70 | 6 | 11,25 |
| 85 | 70 | 7,5 | 14,34 |
| 85 | 75 | 5 | 9,87 |
| 90 | 75 | 7,5 | 15,26 |
| 90 | 80 | 5 | 10,48 |
| 92 | 80 | 6 | 12,73 |
| 95 | 80 | 7,5 | 16,19 |
| 100 | 85 | 7,5 | 17,11 |
| 100 | 90 | 5 | 11,72 |
| 102 | 88 | 7 | 16,41 |
| 102 | 90 | 6 | 14,21 |
| 105 | 90 | 7,5 | 18,04 |
| 110 | 95 | 7,5 | 18,97 |
| 110 | 100 | 5 | 12,95 |
| 115 | 100 | 7,5 | 19,89 |
| 125 | 110 | 7,5 | 21,74 |

| | |
|---------------------|--|
| Steel Grade | E355+C |
| Product Standard | EN 10305-2 |
| ID Tolerance | H9 |
| Eccentricity | max. 3% |
| Straightness | max. 1mm / 1.000mm |
| Length of tubes | L = 5.000mm - 7.000mm |
| Protection of tubes | Tubes are oiled on the ID and OD against corrosion |
| Quality Control | 100% SEP 1925 EDDY CURRENT 100% SEP 1915 U.S., съгл. EN 10893-10 |

| Steel Grade | No. Material | C% max. | Si% max. | Mn% max | S% max. | P% max. | Al% max. |
|-------------|--------------|---------|----------|---------|---------|---------|----------|
| E355 | 1.0580 | 0,22 | 0,55 | 1,6 | 0,025 | 0,025 | 0,02 |

Hard Chrome Plated Bars

| | |
|--|--|
| Hard Chrome Plated Bars | Steel Grades: C45E, 20MnV6, 42CrMo4 |
| Induction hardened and hard chrome plated bars | Steel Grade: C45E, 20MnV6, 42CrMo4 |
| Dimension Range | Ø6mm - Ø160mm |
| Diameter Tolerance | ISO f7 |
| Roughness | Ra = max. 0,20 µm |
| Standard chrome layer | < Ø20mm - min.15 µm > Ø20mm - min.20 µm |
| Chrome layer hardness | Min.900HV _{0,1} |
| Straightness | < Ø16mm - max. 0,3mm / 1.000mm > Ø16mm - max. 0,2mm / 1.000mm |
| Corrosion Resistance | Рейтинг 9-10 / 200h NSS, acc. ISO 10289 |

Chemical Composition

| Steel Grade | C % | Si % | Mn % | P % | S % | Cr % | Mo % | Ni % | V % | N % |
|-------------|-----------|----------|---------|------------|------------|----------|----------|----------|---------|-----|
| C45E | 0,42-0,5 | max. 0,4 | 0,5-0,8 | max. 0,03 | max. 0,035 | max. 0,4 | max. 0,1 | max. 0,4 | - | - |
| 20MnV6 | 0,16-0,22 | 0,1-0,5 | 1,3-1,7 | max. 0,035 | max. 0,035 | - | - | - | 0,1-0,2 | - |
| 42CrMo4 | 0,38-0,45 | max. 0,4 | 0,6-0,9 | max. 0,025 | max. 0,035 | 0,9-1,2 | 0,15-0,3 | - | - | - |

Continuous Cast Iron Bars

| Cast Iron Grades | Shape | Size Range | Mechanical Properties | | | |
|------------------------------|--|------------------------------------|-----------------------|---|---------------------|------------|
| | | | Size Range | Tensile Strength N/mm ² МНН. | Hardness Brinell | |
| EN-GJL-250C EN-GJS-500-7C | Round | Ø40мм - Ø440мм | EN-GJL-250C | Ø20мм - Ø50мм | 195 | 170-240 HB |
| EN-GJL-250C EN-GJS-500-7C | Square | Ø40мм x Ø40мм - Ø300мм x Ø300мм | | > Ø50мм - Ø100мм | 180 | |
| EN-GJL-250C EN-GJS-500-7C | Rectangular | Send inquiry | | > Ø100мм - Ø200мм | 165 | |
| | | | | > Ø200мм - Ø300мм | 155 | |
| | | | | | | |
| Other Grades | EN-GJL-150C EN-GJL-200C EN-GJL-300C EN-GJS-400-15C EN-GJS-600-3C | | EN-GJS-500-7C | Ø20мм - Ø60мм | 500 | 150-230 HB |
| | | | | > Ø60мм - Ø120мм | 450 | |
| | | | | > Ø120мм - Ø400мм | 420 | |