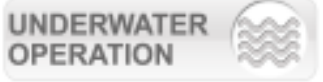


TOOLS FOR THE SPECIALIST IMPACT WRENCHES



MACHINE FEATURES



Square drive



Planetary gear drive



Rotation direction reversible



Push button actuation

Air inlet and exhaust

Type for underground mining (6 1035 0010)



Torque adjustment



TECHNICAL SPECIFICATION

IMPACT WRENCHES

This industrial type offers simple handling with little weight. Usable in ATEX area of equipment group I and II.



| Order no. | ATEX Guideline 94/9 EC | Square drive | For bolts up to | Max. tightening torque* | Air consumption | Distance centre/ outer edge | Noise level | Vibration level | Hose ID | Weight |
|-------------|------------------------|--------------|-----------------|-------------------------|---------------------|-----------------------------|-------------|------------------|---------|--------|
| | | | m m | Nm | m ³ /min | mm | dB(A) | m/s ² | m m | kg |
| 6 1034 0010 | II2GcT6 | 1/2" | M20 | 610 | 0.32 | 47.5 | 90 | 2.6 | 10 | 2.5 |
| 6 1035 0010 | IM2cT6 | 1/2" | M20 | 610 | 0.32 | 47.5 | 90 | 2.6 | 10 | 3.6 |

*The recommended max. tightening torque depends on screws of class 8.8. Performance data at an operating pressure of 6 bar.

IMPACT WRENCH

This robust impact wrench is usable in ATEX area of equipment group II.



| Order no. | ATEX Guideline 94/9 EC | Square drive | For bolts up to | Max. tightening torque* | Air consumption | Distance centre/ outer edge | Noise level | Vibration level | Hose ID | Weight |
|-------------|------------------------|--------------|-----------------|-------------------------|---------------------|-----------------------------|-------------|------------------|---------|--------|
| | | | m m | Nm | m ³ /min | mm | dB(A) | m/s ² | m m | kg |
| 6 1313 0010 | II2GcT6 | 3/4" | M27 | 1,300 | 1.2 | 47.5 | 102 | 4.8 | 13 | 6.2 |
| 6 1317 0010 | II2GcT6 | 1" | M32 | 2,100 | 1.2 | 47.5 | 102 | 4.0 | 13 | 7.1 |

*The recommended max. tightening torque depends on screws of class 8.8. Performance data at an operating pressure of 6 bar.

IMPACT WRENCH

Our powerful impact wrench with slim design. Usable in ATEX area of equipment group I and II.

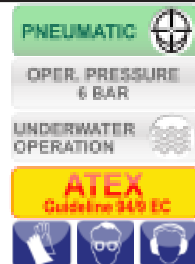


| Order no. | ATEX Guideline 94/9 EC | Square drive | For bolts up to | Max. tightening torque* | Air consumption | Distance centre/ outer edge | Noise level | Vibration level | Hose ID | Weight |
|-------------|------------------------|--------------|-----------------|-------------------------|---------------------|-----------------------------|-------------|------------------|---------|--------|
| | | | m m | Nm | m ³ /min | mm | dB(A) | m/s ² | m m | kg |
| 6 1316 0010 | IM2cT6 | 1" | M30 | 1,350 | 1.4 | 45 | 96 | 4.5 | 13 | 6.5 |
| 6 1316 0020 | IM2cT6 | 3/4" | M30 | 1,350 | 1.4 | 45 | 96 | 4.5 | 13 | 6.4 |
| 6 1316 0050 | II2GcT6 | 3/4" | M30 | 1,350 | 1.4 | 45 | 96 | 4.5 | 13 | 5.6 |
| 6 1316 0040 | II2GcT6 | 1" | M30 | 1,350 | 1.4 | 45 | 96 | 4.5 | 13 | 5.7 |

*The recommended max. tightening torque depends on screws of class 8.8. Performance data at an operating pressure of 6 bar.

IMPACT WRENCH

Particularly developed for underwater application



| Order no. | ATEX Guideline 94/9 EC | Square drive | For bolts up to | Max. tightening torque* | Air consumption | Distance centre/ outer edge | Noise level | Vibration level | Hose ID | Weight |
|-------------|------------------------|--------------|-----------------|-------------------------|---------------------|-----------------------------|-------------|------------------|---------|--------|
| | | | m m | Nm | m ³ /min | mm | dB(A) | m/s ² | m m | kg |
| 6 1316 0070 | II2GcT6 | 3/4" | M30 | 1,350 | 1.4 | 45 | 96 | 4.5 | 13 | 5.6 |
| 6 1316 0060 | II2GcT6 | 1" | M30 | 1,350 | 1.4 | 45 | 96 | 4.5 | 13 | 5.7 |

*The recommended max. tightening torque depends on screws of class 8.8. Performance data at an operating pressure of 6 bar.

MACHINE FEATURES



Square drive



Planetary gear drive



D-Handle



Second handle

Air connection



Rotation direction reversible



TECHNICAL SPECIFICATION

IMPACT WRENCH

Our most powerful 3/4" impact wrench is also usable in ATEX area of equipment group I.



| Order no. | ATEX Guideline 94/9 EC | Square drive | For bolts up to | Max. tightening torque* | Air consumption | Distance centre/outer edge | Noise level | Vibration level | Hose ID | Weight |
|--------------------|------------------------|--------------|-----------------|-------------------------|---------------------|----------------------------|-------------|------------------|---------|--------|
| | | | mm | Nm | m ³ /min | mm | dB(A) | m/s ² | mm | kg |
| 6 1312 0010 | IM2cT6 | 3/4" | M33 | 1,800 | 1.1 | 49 | 92 | 3.2 | 13 | 9.0 |

*The recommended max. tightening torque depends on screws of class 8.8. Performance data at an operating pressure of 6 bar.

IMPACT WRENCH

Our most powerful 3/4" impact wrench is also usable in ATEX area of equipment group I and II.



| Order no. | ATEX Guideline 94/9 EC | Square drive | For bolts up to | Max. tightening torque* | Air consumption | Distance centre/outer edge | Noise level | Vibration level | Hose ID | Weight |
|--------------------|------------------------|--------------|-----------------|-------------------------|---------------------|----------------------------|-------------|------------------|---------|--------|
| | | | mm | Nm | m ³ /min | mm | dB(A) | m/s ² | mm | kg |
| 6 1412 0010 | IM2cT6 | 1" | M33 | 1,800 | 1.1 | 49 | 92 | 3.2 | 13 | 9.0 |
| 6 1410 0010 | II2GcT6 | 1" | M36 | 2,200 | 1.6 | 57 | 92 | 6.2 | 13 | 11.0 |
| 6 1411 0010 | IM2cT6 | 1" | M36 | 2,200 | 1.6 | 57 | 92 | 6.2 | 13 | 13.5 |

*The recommended max. tightening torque depends on screws of class 8.8. Performance data at an operating pressure of 6 bar.

IMPACT WRENCH

Our most powerful industrial type with low air consumption. Usable in ATEX area of equipment group I and II.



| Order no. | ATEX Guideline 94/9 EC | Square drive | For bolts up to | Max. tightening torque* | Air consumption | Distance centre/outer edge | Noise level | Vibration level | Hose ID | Weight |
|--------------------|------------------------|--------------|-----------------|-------------------------|---------------------|----------------------------|-------------|------------------|---------|--------|
| | | | mm | Nm | m ³ /min | mm | dB(A) | m/s ² | mm | kg |
| 6 1417 0040 | II2GcT6 | 1 1/2" | M56 | 4,400 | 1.6 | 57 | 107 | 6.6 | 15 | 12.2 |
| 6 1511 0010 | IM2cT6 | 1 1/2" | M56 | 4,400 | 1.6 | 57 | 92 | 5.5 | 15 | 14.9 |

*The recommended max. tightening torque depends on screws of class 8.8. Performance data at an operating pressure of 6 bar.

MACHINE FEATURES



Square drive



Second handle



Rotation direction reversible



Latch with locking device

Connection

Hydraulic hose set
(2 1317 9010)

Hose coupling



TECHNICAL SPECIFICATION

IMPACT WRENCHES

The hydraulic impact wrenches for **open circuit** are suitable for ATEX-safety class equipment group I



| Order no. | ATEX Guideline 94/9 EC | Square drive | For bolts up to | Max. tightening torque* (adjustable) | Oil flow | Distance centre/ outer edge | Noise level | Vibration level | Connection | Weight |
|-------------|------------------------|--------------|-----------------|--------------------------------------|----------|-----------------------------|-------------|------------------|------------|--------|
| | | | m m | Nm | l/min | m m | dB(A) | m/s ² | | kg |
| 6 1518 0010 | IM2cT5 | 3/4" | M30 | 350-1,700 | 20-40 | 45 | 85.3 | 3.8 | STECKO-10 | 9.0 |
| 6 1519 0010 | IM2cT5 | 1" | M30 | 350-1,700 | 20-40 | 45 | 85.3 | 3.8 | STECKO-10 | 9.0 |

*The recommended max. tightening torque depends on screws of class 8.8. Performance data at an operating pressure of 140 bar.

IMPACT WRENCHES

Universally usable hydraulic impact wrenches for **open circuit**, also for diving work.



Accessories:

Hydraulic hose set order no. 2 1317 9010.

| Order no. | ATEX Guideline 94/9 EC | Square drive | For bolts up to | Max. tightening torque* (adjustable) | Oil flow | Distance centre/ outer edge | Noise level | Vibration level | Connection | Weight |
|-------------|------------------------|--------------|-----------------|--------------------------------------|----------|-----------------------------|-------------|------------------|------------|--------|
| | | | m m | Nm | l/min | m m | dB(A) | m/s ² | | kg |
| 6 1515 0010 | II2GcT5 | 3/4" | M30 | 350-1,700 | 20-40 | 45 | 85.3 | 3.8 | M18x1.5 | 7.3 |
| 6 1514 0010 | II2GcT5 | 1" | M30 | 350-1,700 | 20-40 | 45 | 85.3 | 3.8 | M18x1.5 | 7.3 |

*The recommended max. tightening torque depends on screws of class 8.8. Performance data at an operating pressure of 140 bar.

IMPACT WRENCH

Our most powerful 1" hydraulic impact wrench for **open circuit**, also for diving work.



Accessories:

Hydraulic hose set order no. 2 1317 9010.

| Order no. | ATEX Guideline 94/9 EC | Square drive | For bolts up to | Max. tightening torque* (adjustable) | Oil flow | Distance centre/ outer edge | Noise level | Vibration level | Connection | Weight |
|-------------|------------------------|--------------|-----------------|--------------------------------------|----------|-----------------------------|-------------|------------------|---------------|--------|
| | | | m m | Nm | l/min | m m | dB(A) | m/s ² | | kg |
| 6 1520 0010 | II2GcT5 | 1" | M36 | 850-2,500 | 25-45 | 60 | 99.2 | 6.75 | 3/4"-16UNF-2B | 10.7 |

*The recommended max. tightening torque depends on screws of class 8.8. Performance data at an operating pressure of 140 bar.

IMPACT WRENCHES

Universally usable hydraulic impact wrenches for **closed circuit** which also can be driven with HFA emulsion.

Operating pressure : 260 bar with hydraulic oil
300 bar with HFA emulsion



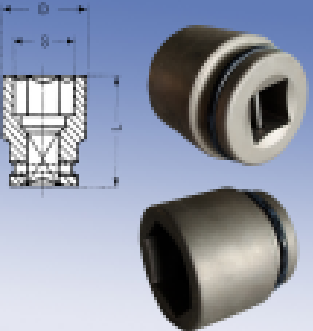
| Order no. | ATEX Guideline 94/9 EC | Square drive | For bolts up to | Max. tightening torque* (adjustable) | Oil flow oil/HFA | Distance centre/ outer edge | Noise level | Vibration level | Connection | Weight |
|-------------|------------------------|--------------|-----------------|--------------------------------------|------------------|-----------------------------|-------------|------------------|------------|--------|
| | | | m m | Nm | l/min | m m | dB(A) | m/s ² | m m | kg |
| 6 1516 0010 | IM2cT5 | 3/4" | M30 | 350-1,700 | 9.5/12.0 | 52.5 | 94.5 | 10.9 | STECKO-10 | 7.4 |
| 6 1517 0010 | IM2cT5 | 1" | M39 | 550-3,400 | 9.5/12.0 | 52.5 | 102.0 | 14.0 | STECKO-10 | 9.3 |

*The recommended max. tightening torque depends on screws of class 8.8. Performance data at operating pressure.


ACCESSORIES

Manufactured as per DIN 3129 / ISO 2725 made of super chrome vanadium steel, phosphatized, complete with locking pins and rings.
Other accessories on request.

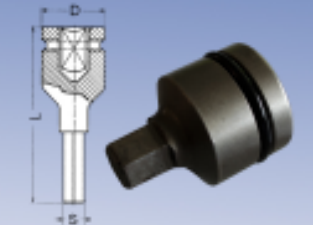
HEXAGON SOCKETS, STANDARD LENGTH

|  | 1/2" Square Drive | | | | 3/4" Square Drive | | | | 1" Square Drive | | | | 1 1/2" Square Drive | | | |
|---|-------------------|---------|---------|---------|-------------------|---------|---------|---------|-----------------|---------|---------|---------|---------------------|---------|---------|---------|
| | Order no. | S mm | L mm | D mm | Order no. | S mm | L mm | D mm | Order no. | S mm | L mm | D mm | Order no. | S mm | L mm | D mm |
| | 9 1408 1290 | 8 | 40 | 15 | 9 1408 0390 | 17 | 50 | 31 | 9 1408 0580 | 24 | 55 | 42,5 | 9 1408 0790 | 41 | 80 | 70 |
| | 9 1408 1310 | 10 | 40 | 17 | 9 1408 0400 | 19 | 50 | 33,5 | 9 1408 0590 | 27 | 55 | 46 | 9 1408 0800 | 46 | 84 | 75 |
| | 9 1408 1320 | 13 | 40 | 21 | 9 1408 0410 | 22 | 50 | 37 | 9 1408 0600 | 30 | 57 | 50 | 9 1408 0810 | 50 | 87 | 81 |
| | 9 1408 0110 | 14 | 40 | 23 | 9 1408 0420 | 24 | 50 | 40 | 9 1408 0610 | 32 | 57 | 52 | 9 1408 0820 | 55 | 90 | 86 |
| | 9 1408 0120 | 17 | 40 | 26 | 9 1408 0430 | 27 | 53 | 43,5 | 9 1408 0620 | 36 | 60 | 55 | 9 1408 0830 | 60 | 90 | 93 |
| | 9 1408 0130 | 19 | 40 | 28,5 | 9 1408 0440 | 30 | 53 | 47 | 9 1408 0630 | 41 | 64 | 64 | 9 1408 0840 | 65 | 90 | 100 |
| | 9 1408 0140 | 22 | 40 | 32,5 | 9 1408 0450 | 32 | 57 | 50 | 9 1408 0640 | 46 | 69 | 70 | 9 1408 0850 | 70 | 100 | 105 |
| | 9 1408 0150 | 24 | 45 | 35 | 9 1408 0460 | 36 | 56 | 52 | 9 1408 0650 | 50 | 72 | 73 | 9 1408 0860 | 75 | 105 | 110 |
| | 9 1408 0160 | 27 | 50 | 38 | 9 1408 0470 | 41 | 58 | 61,5 | 9 1408 0660 | 55 | 76 | 82 | 9 1408 0870 | 80 | 110 | 119 |
| | 9 1408 0170 | 30 | 50 | 42 | 9 1408 0480 | 46 | 64 | 63,0 | 9 1408 0670 | 60 | 82 | 86 | 9 1408 0880 | 85 | 117 | 125 |
| | | | | | | | | | 9 1408 0680 | 65 | 85 | 92 | | | | |

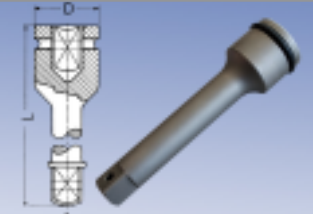
HEXAGON SOCKETS, EXTRA LONG

|  | 1/2" Square Drive | | | | 3/4" Square Drive | | | | 1" Square Drive | | | | 1 1/2" Square Drive | | | |
|--|-------------------|---------|---------|---------|-------------------|---------|---------|---------|-----------------|---------|---------|---------|---------------------|---------|---------|---------|
| | Order no. | S mm | L mm | D mm | Order no. | S mm | L mm | D mm | Order no. | S mm | L mm | D mm | Order no. | S mm | L mm | D mm |
| | 9 1408 0190 | 14 | 80 | 21 | 9 1408 0510 | 22 | 95 | 38 | 9 1408 0690 | 24 | 100 | 42 | 9 1408 0940 | 41 | 115 | 70 |
| | 9 1408 0200 | 17 | 80 | 24 | 9 1408 0520 | 24 | 95 | 40 | 9 1408 0700 | 27 | 100 | 46 | 9 1408 0950 | 46 | 115 | 77 |
| | 9 1408 0210 | 19 | 80 | 26 | 9 1408 0530 | 27 | 95 | 43 | 9 1408 0710 | 30 | 100 | 50 | 9 1408 0960 | 50 | 135 | 82 |
| | 9 1408 0220 | 22 | 80 | 30 | 9 1408 0540 | 30 | 95 | 47 | 9 1408 0720 | 32 | 100 | 51 | 9 1408 0970 | 55 | 140 | 88 |
| | 9 1408 0230 | 24 | 80 | 32 | 9 1408 0550 | 32 | 95 | 49 | 9 1408 0730 | 36 | 100 | 54 | 9 1408 0980 | 60 | 150 | 94 |
| | 9 1408 0240 | 27 | 80 | 36,5 | 9 1408 0560 | 36 | 95 | 54 | 9 1408 0740 | 41 | 100 | 63 | 9 1408 0990 | 65 | 150 | 101 |
| | | | | | | | | | 9 1408 0750 | 46 | 100 | 70 | 9 1408 1000 | 70 | 160 | 107 |
| | | | | | | | | | 9 1408 0760 | 50 | 110 | 75 | 9 1408 1010 | 75 | 170 | 113 |
| | | | | | | | | | 9 1408 0770 | 55 | 112 | 80 | 9 1408 1020 | 80 | 170 | 120 |
| | | | | | | | | | 9 1408 0780 | 60 | 114 | 85 | 9 1408 1030 | 85 | 170 | 126 |

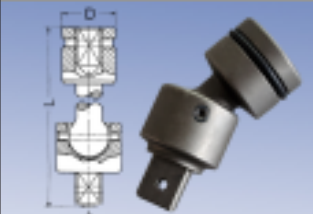
HEXAGON SOCKETS FOR ALLEN HEAD SCREWS

|  | 1/2" Square Drive | | | | 3/4" Square Drive | | | | 1" Square Drive | | | | 1 1/2" Square Drive | | | |
|---|-------------------|---------|---------|---------|-------------------|---------|---------|---------|-----------------|---------|---------|---------|---------------------|---------|---------|---------|
| | Order no. | S mm | L mm | D mm | Order no. | S mm | L mm | D mm | Order no. | S mm | L mm | D mm | Order no. | S mm | L mm | D mm |
| | 9 1424 0570 | 5 | 55 | 30 | 9 1424 0540 | 17 | 85 | 44 | 9 1424 0440 | 17 | 75 | 54 | 9 1424 0710 | 17 | 120 | 57 |
| | 9 1424 0580 | 6 | 55 | 30 | 9 1424 0550 | 19 | 85 | 44 | 9 1424 0450 | 19 | 75 | 54 | 9 1424 0720 | 19 | 120 | 57 |
| | 9 1424 0590 | 8 | 55 | 30 | 9 1424 0660 | 22 | 85 | 44 | 9 1424 0460 | 22 | 75 | 54 | 9 1424 0730 | 22 | 120 | 57 |
| | 9 1424 0600 | 10 | 55 | 30 | 9 1424 0670 | 24 | 85 | 44 | 9 1424 0470 | 24 | 75 | 54 | 9 1424 0740 | 24 | 120 | 57 |
| | 9 1424 0610 | 12 | 55 | 30 | | | | | | | | | | | | |

EXTENSIONS

|  | 1/2" Square Drive | | | | 3/4" Square Drive | | | | 1" Square Drive | | | | 1 1/2" Square Drive | | | |
|---|-------------------|---------|---------|---------|-------------------|---------|---------|---------|-----------------|---------|---------|---------|---------------------|---------|---------|---------|
| | Order no. | A mm | L mm | D mm | Order no. | A mm | L mm | D mm | Order no. | A mm | L mm | D mm | Order no. | A mm | L mm | D mm |
| | 9 1420 0050 | 1/2" | 125 | 25 | 9 1420 0100 | 3/4" | 175 | 44 | 9 1420 0140 | 1" | 175 | 54 | 9 1420 0170 | 1 1/2" | 250 | 57 |
| | 9 1420 0060 | 1/2" | 250 | 25 | 9 1420 0110 | 3/4" | 250 | 44 | 9 1420 0150 | 1" | 250 | 54 | 9 1420 0180 | 1 1/2" | 380 | 57 |
| | | | | | 9 1420 0120 | 3/4" | 330 | 44 | 9 1420 0160 | 1" | 330 | 54 | 9 1420 0190 | 1 1/2" | 500 | 57 |

UNIVERSAL JOINTS

|  | 1/2" Square Drive | | | | 3/4" Square Drive | | | | 1" Square Drive | | | | 1 1/2" Square Drive | | | |
|---|-------------------|---------|---------|---------|-------------------|---------|---------|---------|-----------------|---------|---------|---------|---------------------|---------|---------|---------|
| | Order no. | A mm | L mm | D mm | Order no. | A mm | L mm | D mm | Order no. | A mm | L mm | D mm | Order no. | A mm | L mm | D mm |
| | 9 1422 0040 | 1/2" | 75 | 30 | 9 1422 0070 | 3/4" | 65 | 44 | 9 1408 0090 | 1" | 100 | 54 | 9 1422 0110 | 1 1/2" | 175 | 57 |

SPITZNAS

Maschinenfabrik GmbH, Fellerstraße 4, D-42555 Velbert, Germany
Tel: +49-(0)2052-605-0 Fax: +49-(0)2052-605-29
E-Mail: sales@spitznas.com Internet: http://www.spitznas.com