

MINIMAT Screwdrivers


The basic solution for almost all screwdriving tasks
straight handle design - torque from 0.2 - 20 Nm (2 to 177 in.lbs)

- **robust**
- **highest precision**
- **ergonomic**
- **long-life**
- **low noise level**

The particular strength of the MINIMAT screwdriver in straight handle design is that it can carry out screw assemblies with torque ranges from 0.2 Nm to 20 Nm. In these ranges you can not only assemble screws but also adjust them.

The ergonomic MINIMAT screwdriver is extremely durable due to its extraordinary processing quality and design for heavy industrial use. The MINIMAT clutch works with the tried and tested principle of a mechanical separation and shut-off clutch.

Handheld Screwdriver pneumatic



The highly precise shut-off clutch allows torque precision of $\leq 3\%$ standard deviation, which is maintained for millions of assemblies.

When used under the correct conditions DEPRAG pneumatic screwdrivers with shut-off clutch conform with a Cmk value of ≥ 1.67 with 15% tolerance in relation to 6 Sigma according to ISO 5393.

In other words a Cmk value of 1.67 means that there is a failure rate of 0.6 per million screw assemblies.

MINIMAT SCREWDRIVER

| Screwdriver Style | | Motor Size 1 *) | | | | | | |
|--|-------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Driver reversible, right shut-off Push To Start | Type | 347-218U | 347-318U | 347-518U | 347-618U | | | |
| | Part no. | 397060A | 397060B | 397060C | 397060D | | | |
| Screws | up to | M3 | M3 | M3 | M3 | | | |
| Torque | min. | Nm/in.lbs | 0.3/2.7 | 0.3/2.7 | 0.2/1.8 | 0.2/1.8 | | |
| Torque | max. | Nm/in.lbs | 1/8.85 | 1.4/12.4 | 2/17.7 | 2/17.7 | | |
| Speed, idling | rpm | 1900 | 1300 | 900 | 600 | | | |
| Air consumption | m ³ /min/cfm | 0.23/8 | 0.23/8 | 0.23/8 | 0.23/8 | | | |
| Main body dia. | mm/in | 28/1 ¹ / ₈ | 28/1 ¹ / ₈ | 28/1 ¹ / ₈ | 28/1 ¹ / ₈ | | | |
| Length | mm/in | 203/7.9 | 203/7.9 | 203/7.9 | 203/7.9 | | | |
| Weight | kg/lbs | 0.4/0.9 | 0.4/0.9 | 0.4/0.9 | 0.43/0.95 | | | |
| Noise level | dB (A) | 62 | 62 | 62 | 62 | | | |
| Air hose dia. | mm/in. | 6 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ | | | |
| Hose dia for screw suction | mm/in. | 3 ¹ / ₈ | 3 ¹ / ₈ | 3 ¹ / ₈ | 3 ¹ / ₈ | | | |
| Internal hex. drive DIN ISO 1173 | | F6.3 (1/4") | F6.3 (1/4") | F6.3 (1/4") | F6.3 (1/4") | | | |
| Quick change chuck, mounted | | yes | yes | yes | yes | | | |
| Screwdriver Style | | Motor Size 2 | | | | | | |
| Driver reversible, right shut-off Push To Start | Type | 347-228U | 347-728U | 347-328U | 347-428U | 347-528U | | |
| | Part no. | 386363A | 386363E | 386363B | 386363D | 386363C | | |
| Driver reversible, right shut-off Lever Start | Type | 347-221U | 347-721U | 347-321U | 347-421U | 347-521U | | |
| | Part no. | 386364A | 386364E | 386364B | 386364D | 386364C | | |
| Screws | up to | M4 | M4 | M4 | M4 | M5 | | |
| Torque | min. | Nm/in.lbs | 0.5/4.4 | 0.4/3.5 | 0.4/3.5 | 0.4/3.5 | 0.3/2.7 | |
| soft pull-up | max. | Nm/in.lbs | 1.3/11.5 | 1.8/15.9 | 2.4/21.2 | 3.5/31 | 5/44.3 | |
| hard pull-up | max. | Nm/in.lbs | 1.8/15.9 | 2.0/17.7 | 2.8/24.8 | 4/35.4 | 5/44.3 | |
| Speed, idling | rpm | 3000 | 1600 | 1100 | 750 | 500 | | |
| Air consumption | m ³ /min/cfm | 0.3/11 | 0.3/11 | 0.3/11 | 0.3/11 | 0.3/11 | | |
| Main body dia. | mm/in | 33/1 ⁵ / ₁₆ | 33/1 ⁵ / ₁₆ | 33/1 ⁵ / ₁₆ | 33/1 ⁵ / ₁₆ | 33/1 ⁵ / ₁₆ | | |
| Length | mm/in | 223/8 ²⁵ / ₃₂ | 223/8 ²⁵ / ₃₂ | 223/8 ²⁵ / ₃₂ | 223/8 ²⁵ / ₃₂ | 223/8 ²⁵ / ₃₂ | | |
| Weight | kg/lbs | 0.69/1.5 | 0.69/1.5 | 0.69/1.5 | 0.69/1.5 | 0.69/1.5 | | |
| Noise level | dB (A) | 67 | 67 | 67 | 67 | 67 | | |
| Air hose dia. | mm/in. | 6 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ | | |
| Internal hex. drive DIN ISO 1173 | | F6.3 (1/4") | F6.3 (1/4") | F6.3 (1/4") | F6.3 (1/4") | F6.3 (1/4") | | |
| Quick change chuck, mounted | | yes | yes | yes | yes | yes | | |
| Screwdriver Style | | Motor Size 2.5 | | | Motor Size 3 | | | |
| Driver reversible, right shut-off Push To Start | Type | 345-7258U | 345-3258U | 345-4258U | 346-238U | 346-738U | 346-338U | 346-438U |
| | Part no. | 351568A | 351568B | 351568C | 396188B | 396188C | 396188D | 396188E |
| Driver reversible, right shut-off Lever Start | Type | 345-7251U | 345-3251U | 345-4251U | - | 346-731U | 346-331U | 346-431U |
| | Part no. | 384354A | 384354B | 384354C | - | 398684C | 398684D | 398684E |
| Screws | up to | M5 | M6 | M6 | M5 | M6 | M6 | M8 |
| Torque | min. | Nm/in.lbs | 1/8.85 | 1/8.85 | 1/8.85 | 2/17.7 | 2/17.7 | 2/17.7 |
| soft pull-up | max. | Nm/in.lbs | 5/44.3 | 10/88.5 | 12/106.2 | 4.5/39.8 | 7/62 | 12/106.2 |
| hard pull-up | max. | Nm/in.lbs | 6/53.1 | 10/88.5 | 12/106.2 | 5.5/48.7 | 8/70.8 | 12/106.2 |
| Speed, idling | rpm | 1100 | 640 | 310 | 2300 | 1200 | 650 | 320 |
| Air consumption | m ³ /min/cfm | 0.35/12 | 0.35/12 | 0.35/12 | 0.4/14 | 0.4/14 | 0.4/14 | 0.4/14 |
| Main body dia. | mm/in. | 40/1 ⁹ / ₁₆ | 40/1 ⁹ / ₁₆ | 40/1 ⁹ / ₁₆ | 44/1 ³ / ₄ | 44/1 ³ / ₄ | 44/1 ³ / ₄ | 44/1 ³ / ₄ |
| Length | mm/in. | 245/9 ⁵ / ₈ | 245/9 ⁵ / ₈ | 245/9 ⁵ / ₈ | 299/11 ²⁵ / ₃₂ | 299/11 ²⁵ / ₃₂ | 299/11 ²⁵ / ₃₂ | 299/11 ²⁵ / ₃₂ |
| Weight | kg/lbs | 0.9/2 | 0.9/2 | 0.9/2 | 1.36/3 | 1.5/3.3 | 1.5/3.3 | 1.5/3.3 |
| Noise level | dB (A) | 76 | 76 | 76 | 73 | 73 | 73 | 73 |
| Air hose dia. | mm/in. | 6 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ |
| Internal hex. drive DIN ISO 1173 | | F6.3 (1/4") | F6.3 (1/4") | F6.3 (1/4") | F6.3 (1/4") | F6.3 (1/4") | F6.3 (1/4") | F6.3 (1/4") |
| Quick change chuck, mounted | | yes | yes | yes | yes | yes | yes | yes |

Performance data relate to an air pressure of 6.3 bar (90 PSI)

*) Built-in vacuum interface (vacuum channel inside handle)

Included in delivery: Hose coupling with nozzle and nipple · Torque adjustment tools · Assortment of clutch springs

Suitable tool inserts and connecting components with a drive as per DIN ISO 1173 – E6.3 (1/4"), see also our brochure D 3320 E.



It is necessary to use a torque support (e.g. stand, handgrip) for maximum torque: over 4 Nm for straight design. Suitable torque supports can be found in our brochure D3345E.

Optional Equipment

| Suitable for MINIMAT screwdriver | | Motor Size 1 | Motor Size 2 | Motor Size 2.5 | Motor Size 3 |
|---|----------|--------------|--------------|----------------|--------------|
| Exhaust hose (1 m / 3.3 ft.) | Part no. | 402957D | 389653A | – | – |
| Exhaust hose (0.6 m / 2 ft.) | Part no. | – | – | 398703B | 398703A |
| Support ring for screwdriver with push to start | Part no. | 3870321 | 389775A | – | 398704A |
| Spring sleeve cpl. | Part no. | 364672A | 364672A | 364680A | 364672A |
| Spring sleeve cpl., with vacuum connection (in connection with finder, see leaflet: Inserting tools D 3320 E) | Part no. | 364672A | 364672C | 364680D | 364672C |
| Spring sleeve cpl., with vacuum connection (in connection with socket, see leaflet: Inserting tools D 3320 E) | Part no. | 364672B | 364672F | 364680D | 364672F |
| Foam rubber grip | Part no. | 821702 | 821703 | – | – |
| Handle | Part no. | – | – | 360749 | 328756A |



Screwdriver with lever-start

MINIMAT SCREWDRIVER in combination with feeder

| Screwdriver Style | | | Motor Size 1 | | | | Motor Size 2 | | | | |
|-----------------------------------|--------------|------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|--------|
| Driver | Type | | 347Z-218 | 347Z-318 | 347Z-518 | 347Z-618 | 347Z-228 | 347Z-328 | 347Z-428 | 347Z-528 | |
| In combination with feeder | Part no. | | 397063A | 397063B | 397063C | 397063D | 389638A | 389638B | 389638D | 389638C | |
| Screws | up to | | M3 | M3 | M3 | M3 | M4 | M4 | M4 | M5 | |
| Torque | min. | Nm/in.lbs | 0.3/2.7 | 0.3/2.7 | 0.2/1.8 | 0.2/1.8 | 0.5/4.4 | 0.4/3.5 | 0.4/3.5 | 0.3/2.7 | |
| | soft pull-up | max. | Nm/in.lbs | 1/8.85 | 1.4/12.4 | 2/17.7 | 2/17.7 | 1.8/15.9 | 3/26.55 | 4/35.4 | 5/44.3 |
| | hard pull-up | max. | Nm/in.lbs | 1/8.85 | 1.4/12.4 | 2/17.7 | 2/17.7 | 2/17.7 | 3.2/28.3 | 4.5/39.8 | 5/44.3 |
| Speed, idling | | rpm | 1900 | 1300 | 900 | 600 | 4000 | 1550 | 1000 | 680 | |
| Air consumption | | m³/min/cfm | 0.23/8 | 0.23/8 | 0.23/8 | 0.23/8 | 0.3/11 | 0.3/11 | 0.3/11 | 0.3/11 | |
| Main body dia. | | mm/in | 28/1 ¹ / ₈ | 28/1 ¹ / ₈ | 28/1 ¹ / ₈ | 28/1 ¹ / ₈ | 33/1 ⁵ / ₁₆ | 33/1 ⁵ / ₁₆ | 33/1 ⁵ / ₁₆ | 33/1 ⁵ / ₁₆ | |
| Length | | mm/in | 190/7.4 | 190/7.4 | 190/7.4 | 198/7.7 | 228/9 | 228/9 | 228/9 | 228/9 | |
| Weight | | kg/lbs | 0.4/0.9 | 0.4/0.9 | 0.4/0.9 | 0.43/0.95 | 0.86/1.9 | 0.86/1.9 | 0.86/1.9 | 0.86/1.9 | |
| Noise level | | dB (A) | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | |
| Air hose dia. | | mm/in. | 6 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ | |

Optional Equipment

| | | | |
|---|----------|---------|---------|
| Exhaust hose (1 m / 3.3 ft.) | Part no. | 402957B | 389653A |
| Support ring for screwdriver in combination with feeder | Part no. | 3945982 | 394598 |

Included in delivery: Hose coupling with nozzle and nipple · Torque adjustment tools · Assortment of clutch springs

Performance data relate to an air pressure of 6.3 bar (90 PSI)

Note:

The mouthpiece guide, as well as the other application and screw specific components in the illustration are not included with delivery. They must be ordered separately and assembled by us in the factory.



Note: The screwdrivers motor size 2.5 and 3 are also available in connection with feeders.

Details on our feeding systems can be found in brochure D3820E.

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MINIMAT Screwdrivers

The basic solution for almost all screwdriving tasks

pistol grip design - torque from 0.3 to 20 Nm / 2.7 to 177 in.lbs

- robust
- highest precision
- ergonomic
- long-life
- low noise level

The particular strength of the MINIMAT screwdriver in pistol grip design is that it can carry out screw assemblies with torque ranges from 0.3 Nm to 20 Nm. In these ranges you can not only assemble screws but also adjust them.

The ergonomic MINIMAT screwdriver is extremely durable due to its extraordinary processing quality and design for heavy industrial use.

The highly precise shut-off clutch allows torque precision of $\leq 3\%$ standard deviation, which is maintained for millions of assemblies. When used under the correct conditions DEPRAG pneumatic screwdrivers with shut-off clutch conform with a Cmk value of ≥ 1.67 with 15% tolerance in relation to 6 Sigma according to ISO 5393.

In other words a Cmk value of 1.67 means that there is a failure rate of 0.6 per million screw assemblies.

Handheld Screwdriver pneumatic



TECHNICAL DATA

MINIMAT Screwdrivers - pistol grip design

| Screwdriver style | | | Motor Size 2 | | | |
|---|---------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--|
| Reversible, trigger-start Lower air-inlet | Type Part no. | 347-227U 394569A | 347-327U 394569B | 347-427U 394569D | 347-527U 394569C | |
| Reversible, trigger-start Upper air-inlet | Type Part no. | 347-227OU 394570A | 347-327OU 394570B | 347-427OU 394570D | 347-527OU 394570C | |
| Reversible, push-to-start Lower air-inlet | Type Part no. | 347-229U 394573A | 347-329U 394573B | 347-429U 394573D | 347-529U 394573C | |
| Reversible, push-to-start Upper air-inlet | Type Part no. | 347-229OU 394574A | 347-329OU 394574B | 347-429OU 394574D | 347-529OU 394574C | |
| Screws | up to | M3 | M4 | M4 | M5 | |
| Torque | min. | Nm / in.lbs | 0.5 / 5 | 0.4 / 4 | 0.4 / 4 | |
| Torque (soft pull-up) | max. | Nm / in.lbs | 1.3 / 11 | 3 / 26 | 3.5 / 31 | |
| Torque (hard pull-up) | max. | Nm / in.lbs | 1.5 / 13 | 3.2 / 28 | 4 / 35 | |
| Speed, idling | rpm | 3000 | 1100 | 750 | 500 | |
| Air consumption | m ³ /min / cfm | 0.3 / 11 | 0.3 / 11 | 0.3 / 11 | 0.3 / 11 | |
| Distance from spindle centre to side | mm / in. | 14.5 / ⁹ / ₁₆ | 14.5 / ⁹ / ₁₆ | 14.5 / ⁹ / ₁₆ | 14.5 / ⁹ / ₁₆ | |
| Length | mm / in. | 208 / 8 ³ / ₁₆ | 208 / 8 ³ / ₁₆ | 208 / 8 ³ / ₁₆ | 208 / 8 ³ / ₁₆ | |
| Weight | kg / lbs | 0.75 / 1.6 | 0.75 / 1.6 | 0.75 / 1.6 | 0.75 / 1.6 | |
| Noise level | dB(A) | 69 | 69 | 69 | 69 | |
| Screwdriver style | | | Motor Size 2.5 | | | |
| Reversible, trigger-start Lower air-inlet | Type Part no. | | 346-7257U 412799A | 346-3257U 412799B | 346-4257U 412799C | |
| Reversible, push-to-start Lower air-inlet | Type Part no. | | 345-7259U 390854A | 345-3259U 390854B | 345-4259U 390854C | |
| Screws | up to | | M5 | M6 | M6 | |
| Torque | min. | Nm / in.lbs | 1 / 9 | 1 / 9 | 1 / 9 | |
| Torque (soft pull-up) | max. | Nm / in.lbs | 5 / 44 | 10 / 88 | 12 / 106.2 | |
| Torque (hard pull-up) | max. | Nm / in.lbs | 6 / 53 | 10 / 88 | 12 / 106.2 | |
| Speed, idling | rpm | | 1025 | 525 | 270 | |
| Air consumption | m ³ /min / cfm | | 0.35 / 12 | 0.35 / 12 | 0.35 / 12 | |
| Distance from spindle centre to side | mm / in. | | 20 / ²⁵ / ₃₂ | 20 / ²⁵ / ₃₂ | 20 / ²⁵ / ₃₂ | |
| Length | mm / in. | | 240 / 9 ⁷ / ₁₆ | 240 / 9 ⁷ / ₁₆ | 240 / 9 ⁷ / ₁₆ | |
| Weight | kg / lbs | | 1.2 / 2.6 | 1.2 / 2.6 | 1.2 / 2.6 | |
| Noise level | dB(A) | | 72 | 72 | 72 | |
| Screwdriver style | | | Motor Size 3 | | | |
| Reversible, trigger-start Upper air-inlet, lower air-inlet or rear air-inlet | Type Part no. | 346-237U 400373B | 346-737U 400373C | 346-337U 400373D | 346-437U 400373E | |
| Reversible, push-to-start Upper air-inlet, lower air-inlet or rear air-inlet | Type Part no. | 346-239U 411447B | 346-739U 411447C | 346-339U 411447D | 346-439U 411447E | |
| Screws | up to | M5 | M6 | M6 | M8 | |
| Torque | min. | Nm / in.lbs | 2 / 17.7 | 2 / 17.7 | 2 / 17.7 | |
| Torque (soft pull-up) | max. | Nm / in.lbs | 4.5 / 39.8 | 7 / 62 | 12 / 106.2 | |
| Torque (hard pull-up) | max. | Nm / in.lbs | 5.5 / 48.7 | 8 / 70.8 | 12 / 106.2 | |
| Speed, idling | rpm | 2300 | 1200 | 650 | 320 | |
| Air consumption | m ³ /min / cfm | 0.4 / 14 | 0.4 / 14 | 0.4 / 14 | 0.4 / 14 | |
| Distance from spindle centre to side | mm / in. | 21 / 0.8 | 21 / 0.8 | 21 / 0.8 | 21 / 0.8 | |
| Length | mm / in. | 280 / 10.9 | 280 / 10.9 | 280 / 10.9 | 280 / 10.9 | |
| Weight | kg / lbs | 1.6 / 3.5 | 1.7 / 3.75 | 1.7 / 3.75 | 1.7 / 3.75 | |
| Noise level | dB(A) | 72 | 72 | 72 | 72 | |

Performance data relate to an air pressure of 6.3 bar (90 PSI), Air hose dia. 6 mm/1/4", Internal hex. drive DIN ISO 1173 – F6.3 (1/4"), integrated quick change chuck

Included in delivery:

Hose coupling with nozzle and nipple · Torque adjustment tools · Assortment of clutch springs

The screwdrivers motor sizes 2, 2.5 and 3 can also be delivered with an automatic screw feed system. Please contact us for more information!

The screwdrivers motor size 2 are also available in explosion-proof design. Please contact us for more information!

Suitable tool inserts and connecting components with a drive as per DIN ISO 1173 E6.3 (1/4"), see also in our brochure D3320E – Inserting tools.

TECHNICAL DATA

MINIMAT Screwdrivers - pistol grip design

| Screwdriver style | | | Motor Size 4 | | |
|--|---------------------------|--|-----------------|-----------------|-----------------|
| Reversible, trigger-start | Type | | 344-347U | 344-447U | 344-247U |
| Upper air-inlet, lower air-inlet or rear air-inlet | Part no. | | 400320D | 400320E | 400320F |
| Reversible, push-to-start | Type | | 344-349U | 344-449U | 344-249U |
| Upper air-inlet, lower air-inlet or rear air-inlet | Part no. | | 411448D | 411448E | 411448F |
| Screws | up to | | M5 | M6 | M8 |
| Torque min. | Nm / in.lbs | | 3 / 26 | 3 / 26 | 2 / 17.7 |
| Torque (soft pull-up) max. | Nm / in.lbs | | 6.5 / 57.5 | 8 / 70.8 | 17 / 150.5 |
| Torque (hard pull-up) max. | Nm / in.lbs | | 8.5 / 75.2 | 10 / 88.5 | 17 / 150.5 |
| Speed, idling | rpm | | 2300 | 1600 | 650 |
| Air consumption | m ³ /min / cfm | | 1 / 35.3 | 1 / 35.3 | 1 / 35.3 |
| Distance from spindle centre to side | mm / in. | | 21 / 0.8 | 21 / 0.8 | 21 / 0.8 |
| Length | mm / in. | | 292 / 11.4 | 292 / 11.4 | 311 / 12.1 |
| Weight | kg / lbs | | 1.7 / 3.7 | 1.7 / 3.7 | 1.95 / 4.3 |
| Noise level | dB(A) | | 81 | 81 | 81 |

Performance data relate to an air pressure of 6.3 bar (90 PSI), Air hose dia. 10 mm/1/4", Internal hex. drive DIN ISO 1173 – F6.3 (1/4"), integrated quick change chuck

Included in delivery:

Hose coupling with nozzle and nipple · Torque adjustment tools · Assortment of clutch springs

► Suitable tool inserts and connecting components with a drive as per DIN ISO 1173 E6.3 (1/4"), see also in our brochure D3320E – Inserting tools.

Optional Equipment

| | | Motor Size 2 | Motor Size 2.5 | Motor Size 3 | Motor Size 4 |
|---|----------|--------------|----------------|--------------|--------------|
| Spring-Sleeve cpl., without screw suction | Part no. | 364672A | 364680A | 364672A | 364672A |
| Spring-Sleeve cpl., with screw suction (in connection with finder, see leaflet: Inserting Tools D 3320 E) | Part no. | 364672C | 364680D | 364672C | 364672C |
| Exhaust hose (0.75 m / 2.5 ft.) with air hose (2 m / 6.6 ft.) | Part no. | – | 330628A | 413417A | 413417A |
| Handle | Part no. | – | – | 4109711 | 4109711 |



It is necessary to use a torque support (e.g. stand, handgrip) for maximum torque: over 10 Nm for pistol grip.
Suitable torque supports can be found in our brochure D3345E.

► The screwdriver is actuated by trigger. If needed, exhaust hoses can be connected to the screwdriver; this will direct exhaust air away from the assembly area. For size 3 pistol-grip drivers, we offer additional side-handles, which are an useful addition for higher torque values.

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MINIMAT Screwdrivers

The basic solution for almost all screwdriving tasks

angle head design – torque from 0.3 - 65 Nm / 3 to 575 in.lbs

- **robust**
- **highest precision**
- **ergonomic**
- **long-life**
- **low noise level**

The particular strength of the MINIMAT screwdriver in angle head design is that it can carry out screw assemblies with torque ranges from 0.3 Nm to 65 Nm. In these ranges you can not only assemble screws but also adjust them. Screwdrivers with angle head design are preferably used for assemblies in tight areas. Because of the angle head design even large torque values can be managed by hand without problems. The handle is linked with the angle head by a plug connection and can be arrested in different positions.

Handheld Screwdriver pneumatic



Motor size 2

Motor size 2.5

Motor size 3

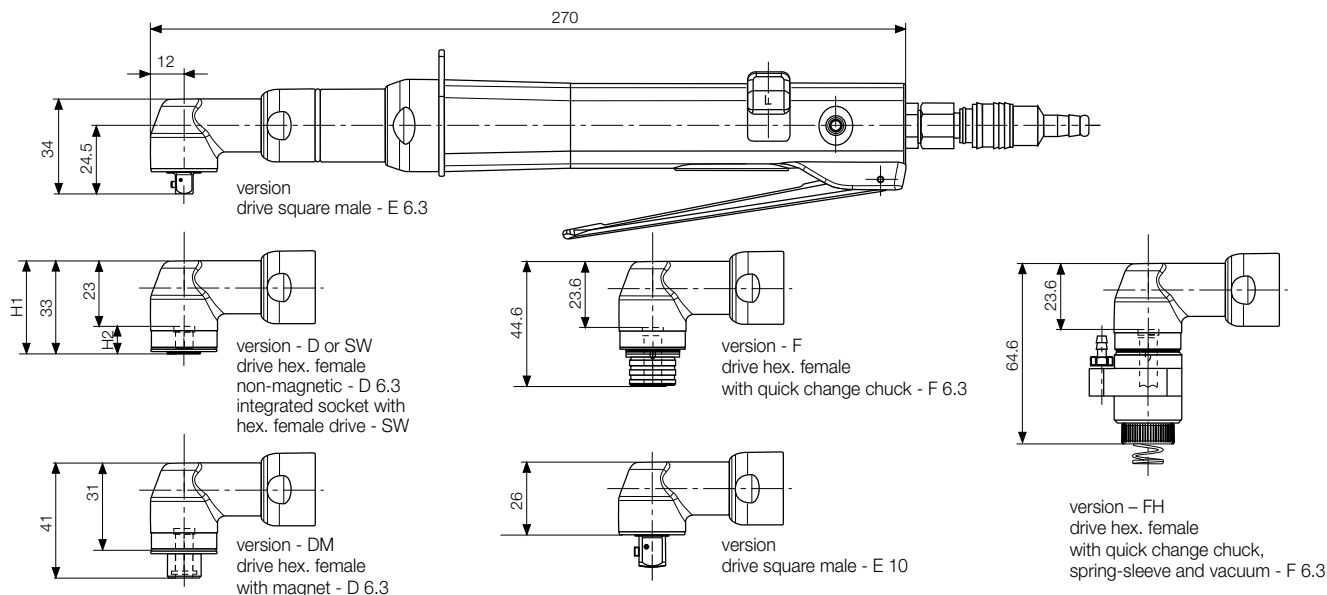
Motor size 4

The ergonomic MINIMAT screwdriver is extremely durable due to its extraordinary processing quality and design for heavy industrial use.

The MINIMAT clutch works with the tried and tested principle of a mechanical separation and shut-off clutch. This highly precise shut-off clutch allows torque precision of $< \pm 3\%$ standard deviation, which is maintained for millions of assemblies.

When used under the correct conditions DEPRAG pneumatic screwdrivers with shut-off clutch conform with a Cmk value of ≥ 1.67 with a tolerance requirement of $\pm 10\%$ in relation to 6 Sigma according to ISO 5393.

In other words a Cmk value of 1.67 means that there is a failure rate of 0.6 per million screw assemblies.



*) Measurement plus length of bit or sockets is space requirement.

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Technical Data

| Screwdriver Style | | Motor Size 2 | | |
|--|---------------------------|----------------------------------|----------------------------------|----------------------------------|
| Driver reversible, right shut-off drive square male 1/4" | Type Part no. | 377-321U 386530B | 377-421U 386530D | 377-521U 386530C |
| Driver reversible, right shut-off drive square male 3/8" | Type Part no. | 377-321U-E10 390887B | 377-421U-E10 390887D | 377-521U-E10 390887C |
| Driver reversible, right shut-off drive hex. female 1/4" non-magnetic | Type Part no. | 377-321U-D 390883B | 377-421U-D 390883D | 377-521U-D 390883C |
| Driver reversible, right shut-off drive hex. female 1/4" with magnet | Type Part no. | 377-321U-DM 390884B | 377-421U-DM 390884D | 377-521U-DM 390884C |
| Driver reversible, right shut-off drive hex. female 1/4" with quick change chuck | Type Part no. | 377-321U-F 390885B | 377-421U-F 390885D | 377-521U-F 390885C |
| Driver reversible, right shut-off drive hex. female 1/4" with quick change chuck and spring-sleeve | Type Part no. | 377-321U-FH 390886B | 377-421U-FH 390886D | 377-521U-FH 390886C |
| Driver reversible, right shut-off integrated socket with hex. female drive | Type Part no. | 377-32 U-SW.. 3909251B | 377-421U-SW.. 3909251D | 377-521U-SW.. 3909251C |
| | AF 6 mm | Part no. | 3909252B | 3909252C |
| | AF 8 mm | Part no. | 3909253B | 3909253C |
| | AF 10 mm | Part no. | 3909254B | 3909254C |
| | AF 13 mm | Part no. | 3909254D | 3909254C |
| Screws | up to | M 4 | M 5 | M 5 |
| Torque min. | Nm / in. lbs | 0.4 / 4 | 0.4 / 4 | 0.3 / 3 |
| Torque max. | Nm / in. lbs | 3.5 / 31 | 4.5 / 40 | 6.5 / 57 |
| Speed, idling | rpm | 780 | 500 | 350 |
| Air consumption | m ³ /min / cfm | 0.3 / 11 | 0.3 / 11 | 0.3 / 11 |
| Height (H1) for AF 6 - AF 10 / AF 13 | mm | 29 / 30.5 | 29 / 30.5 | 29 / 30.5 |
| | in. | 1 9/64 / 1 13/64 | 1 9/64 / 1 13/64 | 1 9/64 / 1 13/64 |
| Height (H2) for AF 6 / AF 8 / AF 10 / AF 13 | mm | 3.5 / 4 / 4 / 5.5 | 3.5 / 4 / 4 / 5.5 | 3.5 / 4 / 4 / 5.5 |
| | in. | 9/64 / 5/32 / 5/32 / 1/32 | 9/64 / 5/32 / 5/32 / 1/32 | 9/64 / 5/32 / 5/32 / 1/32 |
| Weight | kg / lbs | 0.85 / 1.9 | 0.85 / 1.9 | 0.85 / 1.9 |
| Noise level | dB (A) | 67 | 67 | 67 |
| Air hose dia. | mm / in. | 6 / 1/4 | 6 / 1/4 | 6 / 1/4 |
| Air inlet pipe thread size | | 1/8" m | 1/8" m | 1/8" m |

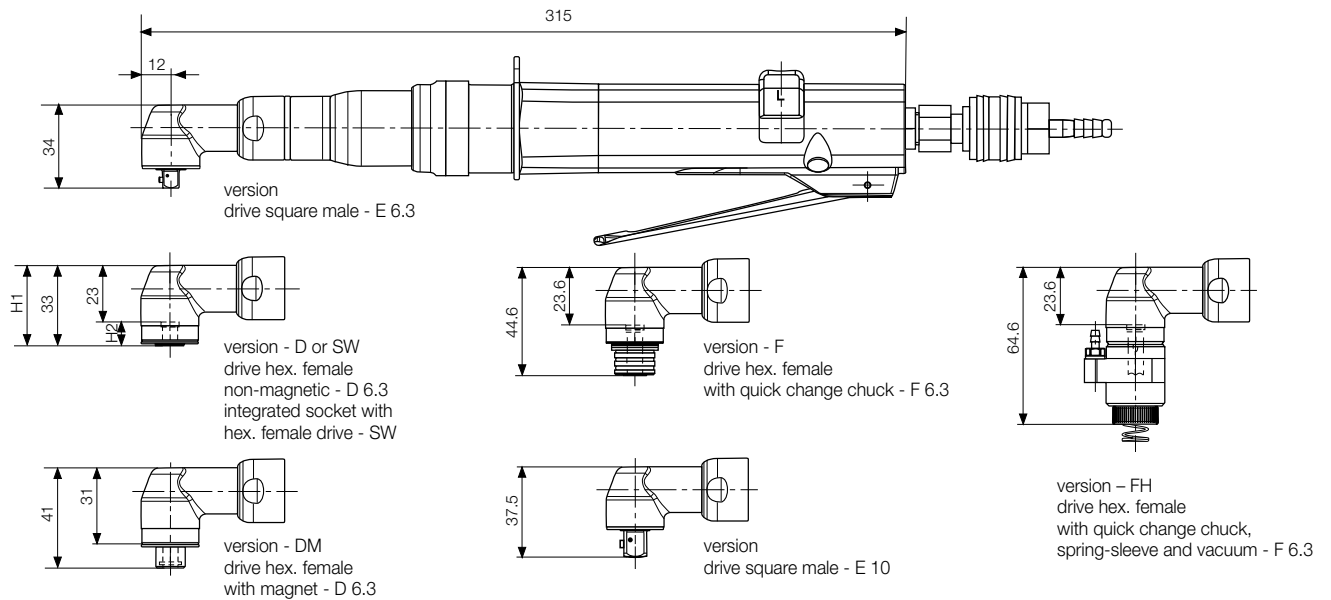
Performance data relate to an air pressure of 6.3 bar (90 PSI)

Included in delivery

Hose coupling with nozzle and nipple · Torque adjustment tool · Assortment of clutch springs

Optional Equipment

Exhaust hose (1 m /3.3 ft.) part no. 389653A
suitable for 377-...U-FH types: vacuum connector for screw suction part no. 392636A



*) Measurement plus length of bit or sockets is space requirement.

378385

Technical Data

| Screwdriver Style | | Motor Size 2.5 | |
|--|---------------------------|---------------------------------|---------------------------------|
| Driver reversible, right shut-off drive square male 1/4" | Type Part no. | 376-7251U 378385A | 376-3251U 378385B |
| Driver reversible, right shut-off drive square male 3/8" | Type Part no. | 376-7251U-E10 382687A | 376-3251U-E10 382687B |
| Driver reversible, right shut-off drive hex. female 1/4" non-magnetic | Type Part no. | 376-7251U-D 382683A | 376-3251U-D 382683B |
| Driver reversible, right shut-off drive hex. female 1/4" with magnet | Type Part no. | 376-7251U-DM 382684A | 376-3251U-DM 382684B |
| Driver reversible, right shut-off drive hex. female 1/4" with quick change chuck | Type Part no. | 376-7251U-F 382685A | 376-3251U-F 382685B |
| Driver reversible, right shut-off drive hex. female 1/4" with quick change chuck and spring-sleeve | Type Part no. | 376-7251U-FH 382686A | 376-3251U-FH 382686B |
| Driver reversible, right shut-off integrated socket with hex. female drive | Type | 376-7251U-SW.. | 376-3251U-SW.. |
| AF 6 mm | Part no. | 3861391A | 3861391B |
| AF 8 mm | Part no. | 3861392A | 3861392B |
| AF 10 mm | Part no. | 3861393A | 3861393B |
| AF 13 mm | Part no. | 3861394A | 3861394B |
| Screws | up to | M 6 | M 6 |
| Torque min. | Nm / in. lbs | 1.5 / 13 | 1.5 / 13 |
| Torque max. | Nm / in. lbs | 8 / 71 | 15 / 133 |
| Speed, idling | rpm | 810 | 410 |
| Air consumption | m ³ /min / cfm | 0.35 / 12 | 0.35 / 12 |
| Height (H1) for AF 6 - AF 10 / AF 13 | mm | 29 / 30.5 | 29 / 30.5 |
| | in. | 1 9/64 / 1 13/64 | 1 9/64 / 1 13/64 |
| Height (H2) for AF 6 / AF 8 / AF 10 / AF 13 | mm | 3.5 / 4 / 4 / 5.5 | 3.5 / 4 / 4 / 5.5 |
| | in. | 9/64 / 5/32 / 5/32 / 7/32 | 9/64 / 5/32 / 5/32 / 7/32 |
| Weight | kg / lbs | 1.2 / 2.6 | 1.2 / 2.6 |
| Noise level | dB (A) | 76 | 76 |
| Air hose dia. | mm / in. | 6 / 1/4 | 6 / 1/4 |
| Air inlet pipe thread size | | 1/4" m | 1/4" m |

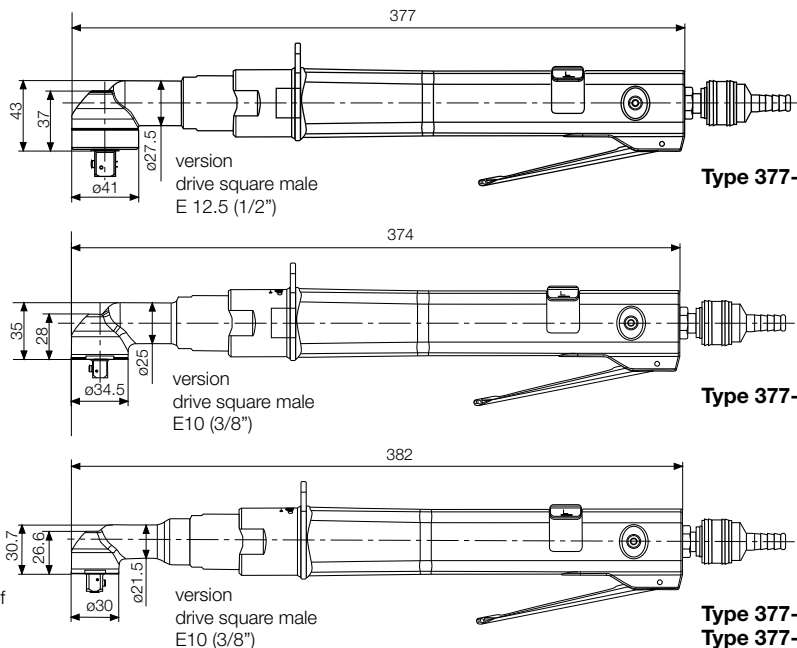
Performance data relate to an air pressure of 6.3 bar (90 PSI)

Included in delivery

Hose coupling with nozzle and nipple · Torque adjustment tool · Assortment of clutch springs

Optional Equipment

Exhaust hose (0.6 m / 2 ft.), part no. 398703B



*) Measurement plus length of bit or sockets is space requirement.

Technical Data

| Screwdriver Style | | Motor Size 3 | | |
|--|---------------------------|-----------------------|-----------------------|-----------------------|
| Driver reversible, right shut-off drive square male E12.5 (1/2") | Type | 377-731U-E12.5 | 377-331U-E12.5 | 377-431U-E12.5 |
| | Part no. | 396037C | 396037D | 396037E |
| Screws | up to | M 6 | M 8 | M 10 |
| Torque min. | Nm / in. lbs | 4 / 35 | 4 / 35 | 4 / 35 |
| Torque max. | Nm / in. lbs | 11 / 97 | 20 / 177 | 35 / 310 |
| Speed, idling | rpm | 700 | 350 | 180 |
| Air consumption | m ³ /min / cfm | 0.4 / 14 | 0.4 / 14 | 0.4 / 14 |
| Length (L) | mm / in. | 377 / 14 27/32 | 377 / 14 27/32 | 377 / 14 27/32 |
| Weight | kg / lbs | 2 / 4.4 | 2 / 4.4 | 2 / 4.4 |
| Noise level | dB (A) | 75 | 75 | 75 |
| Air hose dia. | mm / in. | 10 / 3/8 | 10 / 3/8 | 10 / 3/8 |
| Air inlet pipe thread size | | 1/4" f | 1/4" f | 1/4" f |
| Driver reversible, right shut-off drive square male E10 (3/8") | Type | 377-731U-E10 | 377-331U-E10 | 377-431U-E10 |
| | Part no. | 411310C | 411310D | 400611E |
| Screws | up to | M 6 | M 8 | M 10 |
| Torque min. | Nm / in. lbs | 4 / 35 | 4 / 35 | 4 / 35 |
| Torque max. | Nm / in. lbs | 10 / 88.5 | 19 / 168 | 33 / 292 |
| Speed, idling | rpm | 730 | 365 | 190 |
| Air consumption | m ³ /min / cfm | 0.4 / 14 | 0.4 / 14 | 0.4 / 14 |
| Length (L) | mm / in. | 382 / 15 1/32 | 382 / 15 1/32 | 374 / 14 23/32 |
| Weight | kg / lbs | 1.9 / 4.2 | 1.9 / 4.2 | 1.9 / 4.2 |
| Noise level | dB (A) | 75 | 75 | 75 |
| Air hose dia. | mm / in. | 10 / 3/8 | 10 / 3/8 | 10 / 3/8 |
| Air inlet pipe thread size | | 1/4" f | 1/4" f | 1/4" f |

Performance data relate to an air pressure of 6.3 bar (90 PSI)

Included in delivery

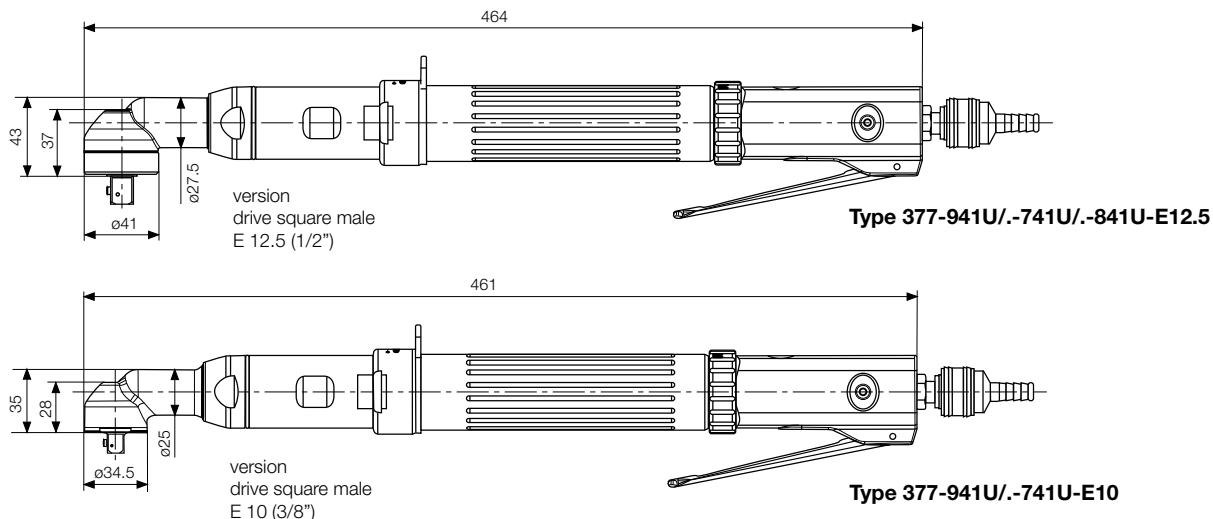
Hose coupling with nozzle and nipple · Torque adjustment tool · Assortment of clutch springs

Optional Equipment

Exhaust hose (0.6 m / 2 ft.), part no. 398703A

| Screwdriver Style | Suitable tool inserts and connecting components |
|---|---|
| External square drive DIN 3121 – E 6.3 (1/4") | with a drive as per DIN 3121 – G 6.3 (1/4") |
| External square drive DIN 3121 – E 10 (3/8") | with a drive as per DIN 3121 – G 10 (3/8") |
| External square drive DIN 3121 – E 12.5 (1/2") | with a drive as per DIN 3121 – G 12.5 (1/2") |
| Internal hex. drive DIN ISO 1173 – D 6.3 (1/4") | with a drive as per DIN ISO 1173 – C 6.3 (1/4") |
| Internal hex. drive DIN ISO 1173 – F 6.3 (1/4") | with a drive as per DIN ISO 1173 – E 6.3 (1/4") |
| Internal hex. drive DIN ISO 1173 – D 8 (5/16") | with a drive as per DIN ISO 1173 – C 8 (5/16") |

Please also find suitable tool inserts in our brochure D3320E.



*) Measurements plus length of bit or sockets in space requirement

404429

Technical Data

| Screwdriver Style | | Motor Size 4 | | |
|---|---------------------------|-----------------------|-----------------------|-----------------------|
| Driver reversible, right shut-off drive square male E12.5 (1/2") | Type | 377-941U-E12.5 | 377-741U-E12.5 | 377-841U-E12.5 |
| | Part no. | 379100B | 379100C | 379100D |
| Screws | up to | M 10 | M 10 | M 12 |
| Torque min. | Nm / in. lbs | 8 / 70.8 | 8 / 70.8 | 8 / 70.8 |
| Torque max. | Nm / in. lbs | 32 / 283 | 46 / 407 | 65 / 575 |
| Speed, idling | rpm | 410 | 270 | 185 |
| Air consumption | m ³ /min / cfm | 1 / 35.3 | 1 / 35.3 | 1 / 35.3 |
| Length (L) | mm / in. | 464 / 18 | 464 / 18 | 464 / 18 |
| Weight | kg / lbs | 2.3 / 5 | 2.3 / 5 | 2.3 / 5 |
| Noise level | dB (A) | 78 | 78 | 78 |
| Air hose dia. | mm / in. | 10 / 3/8 | 10 / 3/8 | 10 / 3/8 |
| Air inlet pipe thread size | | 1/4" f | 1/4" f | 1/4" f |
| Driver reversible, right shut-off drive square male E10 (3/8") | Type | 377-941U-E10 | 377-741U-E10 | |
| | Part no. | 400638B | 400638C | |
| Screws | up to | M 10 | M 10 | |
| Torque min. | Nm / in. lbs | 7 / 62 | 7 / 62 | |
| Torque max. | Nm / in. lbs | 30 / 265.5 | 44 / 389 | |
| Speed, idling | rpm | 430 | 285 | |
| Air consumption | m ³ /min / cfm | 1 / 35.3 | 1 / 35.3 | |
| Length (L) | mm / in. | 461 / 18 5/32 | 461 / 18 5/32 | |
| Weight | kg / lbs | 2.2 / 4.8 | 2.2 / 4.8 | |
| Noise level | dB (A) | 78 | 78 | |
| Air hose dia. | mm / in. | 10 / 3/8 | 10 / 3/8 | |
| Air inlet pipe thread size | | 1/4" f | 1/4" f | |

Performance data relate to an air pressure of 6.3 bar (90 PSI)

| | |
|-----------------------------|--|
| Included in delivery | Hose coupling with nozzle and nipple · Torque adjustment tool · Assortment of clutch springs |
| Optional Equipment | Exhaust hose (0.6 m / 2 ft.), part no. 398703A |



It is necessary to use a torque support (e.g. stand, handgrip) for maximum torque: over 60 Nm for angle design.
Suitable torque supports can be found in our brochure D3345E.

DEPRAG

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CERTIFIED AS PER DIN EN ISO 9001
