TOOLS











Screwdriving Technology

Air Tools

Presses

Torque Wrenches

Pneumatic Hammers

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Pneumacon

TOOLS

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Deprag Schulz GmbH has a large range of good quality screwdrivers and feeding technology. The DEPRAG product line offers not only handheld screwdrivers for the industrial mass production, but also a wide assortment of stationary screwdrivers for automatic assembly machines. The screwdivers can be chosen with pneumatic or electric drive.

DEPRAG handheld screwdrivers are designed to fulfill the highest requirements for the industrial assembly. Due to the wide torque-range, designs that fit any application and by using the most modern drive-technology, the DEPRAG handheld screwdrivers assure a maximum process reliability for every configuration level.

The achievement of zero-reject production rates has the highest priority in the industrial assembly process. Time and again we hear of product recalls due to defective screw joints. The associated material damage and loss of brand image is dreaded by every industry. Selecting the correct tightening tool for an industrial mass production is the cornerstone to achieve a high-quality and zero-reject production system.



Handheld pneumatic screwdrivers



345-3008 U
-
345-7008 U



345-308 U
-
345-508 U

NANOMAT / MICROMAT

The NANOMAT is designed for micro assemblies. The torqe capability is from 0,8 to 30Ncm. The specialty of MICROMAT screwdriver is its high torque-accuracy in a torque range from 2Ncm to 70Ncm. It's also really small - hardly larger than a ballpoint pen. MICROMAT ESD-safe version is also available.

Design: Straight	Torque			Speed, idling, rpm	Recommended screw size	Weight, kg
	Min. Ncm	Max. torque (soft pull up), Ncm	Max. Torque (hard pull up) Ncm			
Push-To-Start, 3 mm chuck:						
345-3008 U	1	15	15	1 400	M 2	0,14
345-5008 U	0,8	25	25	680	M 2	0,14
345-6008 U	0,8	30	30	500	M 2	0,14
345-7008 U	0,8	30	30	300	M 2	0,14
Push-To-Start, 3 mm chuck:						
345-308 U	2	40	50	1 300	M 3	0,17
345-408 U	2	50	50	950	M 3	0,17
345-708 U	2	70	70	480	M 3	0,18
345-508 U	2	70	70	300	M 3	0,18

Handheld pneumatic screwdrivers



347-218 U - 347-618 U | 347-228 U - 347-528 U | 345-7258 U - 345-4258 U | 346-238 U - 346-438 U

MINIMAT

The particular strength of the MINIMAT screwdriver is the wide torque range of 0,2Nm to 65Nm. This screwdriver is not only able to drive screws, but to actually adjust a connection. The ergonomic design of the housing allows a fatigue-proof operation in continued use. The handheld MINIMAT screwdrivers are available in three different design executions: straight, pistol grip and angle-head. ESD version of the straight design is also available.

Design: Straight	Torque			Speed, idling, rpm	Recommended screw size	Weight, kg
	Min. Nm	Max. torque (soft pull up), Nm	Max. Torque (hard pull up) Nm			
Push-To-Start, 1/4" chuck:						
347-218 U	0,3	1	1	1 900	M 3	0,40
347-318 U	0,3	1,4	1,4	1 300	M 3	0,40
347-518 U	0,2	2	2	900	M 3	0,40
347-618 U	0,2	2	2	600	M 3	0,43
347-228 U	0,5	1,3	1,8	3 000	M 4	0,68
347-728 U	0,4	1,8	2,0	1 600	M 4	0,69
347-328 U	0,4	2,4	2,8	1 100	M 4	0,69
347-428 U	0,4	3,5	4	750	M 4	0,69
347-528 U	0,3	5	5	500	M 5	0,69
345-7258 U	1	5	6	1 100	M 5	0,90
345-3258 U	1	10	10	640	M 6	0,90
345-4258 U	1	12	12	310	M 6	0,90
346-238 U	2	4,5	5,5	2 300	M 5	1,31
346-738 U	2	7	8	1 200	M 6	1,45
346-338 U	2	12	12	650	M 6	1,45
346-438 U	2	20	20	320	M 8	1,45



346-7257 U - 346-4257 U

Design: Pistol grip	Torque			Speed, idling, rpm	Recommended screw size	Weight, kg
	Min. Nm	Max. torque (soft pull up), Nm	Max. Torque (hard pull up) Nm			
Trigger-start, 1/4" chuck, Lower air-inlet:						
347-227 U	0,5	1,3	1,5	3 000	M 3	0,75
347-327 U	0,4	3	3,2	1 100	M 4	0,75
347-427 U	0,4	3,5	4	750	M 4	0,75
347-527 U	0,3	5	5	500	M 5	0,75
346-7257 U	1	5	6	1 025	M 5	1,2
346-3257 U	1	10	10	525	M 6	1,2
346-4257 U	1	12	12	270	M 6	1,2
346-237 U	2	4,5	5,5	2 300	M 5	1,6
346-737 U	2	7	8	1 200	M 6	1,7
346-337 U	2	12	12	650	M 6	1,7
346-437 U	2	20	20	320	M 8	1,7

Handheld pneumatic screwdrivers

MINIMAT

Angle-head



377-321 U
377-421 U
377-521 U



376-3251 U
376-7251 U



377-331 U
377-431 U
377-731 U



377-741 U
377-841 U
377-941 U



377-321 U-SW..
377-421 U-SW..
377-521 U-SW..



376-3251 U-SW..
376-7251 U-SW..

Design: Angle-Head	Torque		Speed, idling, rpm	Drive	Recommended screw size	Weight, kg
	Min. Nm	Max. Nm				
Trigger-start and drive square male:						
377-321 U	0,4	3,5	780	1/4"	M 4	0,85
377-321 U-E10	0,4	3,5	780	3/8"	M 4	0,85
377-421 U	0,4	4,5	500	1/4"	M 5	0,85
377-421 U-E10	0,4	4,5	500	3/8"	M 5	0,85
377-521 U	0,3	6,5	350	1/4"	M 5	0,85
377-521 U-E10	0,3	6,5	350	3/8"	M 5	0,85
376-7251 U	1,5	8	810	1/4"	M 6	1,2
376-7251 U-E10	1,5	8	810	3/8"	M 6	1,2
376-3251 U	1,5	15	410	1/4"	M 6	1,2
376-3251 U-E10	1,5	15	410	3/8"	M 6	1,2
377-731 U-E12,5	4	11	700	1/2"	M 6	2
377-331 U-E12,5	4	20	350	1/2"	M 8	2
377-431 U-E12,5	4	35	180	1/2"	M 10	2
377-731 U-E10	4	10	730	3/8"	M 6	1,9
377-331 U-E10	4	19	365	3/8"	M 8	1,9
377-431 U-E10	4	33	190	3/8"	M 10	1,9
377-941 U-E10	7	30	430	3/8"	M 10	2,2
377-741 U-E10	7	44	285	3/8"	M 10	2,2
377-741 U-E12,5	8	46	270	1/2"	M 10	2,3
377-841 U-E12,5	8	65	185	1/2"	M 12	2,3
377-941 U-E12,5	8	32	410	1/2"	M 10	2,3
Trigger-start, hex drive, non-magnetic:						
377-321 U-D	0,4	3,5	780	1/4"	M 4	0,85
377-421 U-D	0,4	4,5	500	1/4"	M 5	0,85
377-521 U-D	0,3	6,5	350	1/4"	M 5	0,85
376-7251 U-D	1,5	8	810	1/4"	M 6	1,2
376-3251 U-D	1,5	15	410	1/4"	M 6	1,2
Trigger-start, hex drive with magnet:						
377-321 U-DM	0,4	3,5	780	1/4"	M 4	0,85
377-421 U-DM	0,4	4,5	500	1/4"	M 5	0,85
377-521 U-DM	0,3	6,5	350	1/4"	M 5	0,85
376-7251 U-DM	1,5	8	810	1/4"	M 6	1,2
376-3251 U-DM	1,5	15	410	1/4"	M 6	1,2
Trigger-start, hex drive with quick change chuck:						
377-321 U-F	0,4	3,5	780	1/4"	M 4	0,85
377-421 U-F	0,4	4,5	500	1/4"	M 5	0,85
377-521 U-F	0,3	6,5	350	1/4"	M 5	0,85
376-7251 U-F	1,5	8	810	1/4"	M 6	1,2
376-3251 U-F	1,5	15	410	1/4"	M 6	1,2
Trigger-start, integrated socket with hex female drive						
377-321 U-SW 6	0,4	3,5	780	AF6	M 4	0,85
377-321 U-SW 8	0,4	3,5	780	AF8	M 4	0,85
377-321 U-SW 10	0,4	3,5	780	AF10	M 4	0,85
377-321 U-SW 13	0,4	3,5	780	AF13	M 4	0,85
377-421 U-SW 6	0,4	4,5	500	AF6	M 5	0,85
377-421 U-SW 8	0,4	4,5	500	AF8	M 5	0,85
377-421 U-SW 10	0,4	4,5	500	AF10	M 5	0,85
377-421 U-SW 13	0,4	4,5	500	AF13	M 5	0,85
377-521 U-SW 6	0,3	6,5	350	AF6	M 5	0,85
377-521 U-SW 8	0,3	6,5	350	AF8	M 5	0,85
377-521 U-SW 10	0,3	6,5	350	AF10	M 5	0,85
377-521 U-SW 13	0,3	6,5	350	AF13	M 5	0,85
376-7251U-SW6	1,5	8	810	AF6	M 6	1,2
376-7251U-SW8	1,5	8	810	AF8	M 6	1,2
376-7251U-SW10	1,5	8	810	AF10	M 6	1,2
376-7251U-SW13	1,5	8	810	AF13	M 6	1,2
376-3251U-SW6	1,5	15	410	AF6	M 6	1,2
376-3251U-SW8	1,5	15	410	AF8	M 6	1,2
376-3251U-SW10	1,5	15	410	AF10	M 6	1,2
376-3251U-SW13	1,5	15	410	AF13	M 6	1,2

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

DEPRAG

Handheld pneumatic screwdrivers



345-308 U ESD - 345-508 U ESD | 347-218 U ESD - 347-618 U ESD | 347-228 U ESD - 347-528 U ESD

MICROMAT ESD

Our ESD Screwdrivers are especially designed for the operation in electrostatic exposed areas and where an ESD-safe assembly is required (specifications according to EN 100 015).
The supplied conductive pressure hose allows a simple, direct and grounded connection, without the need for an additional cable-connection. Between the airhose for the tool and the main air-outlet an insulating connector with a resistance of 1 MΩ (available as an optional item) can be installed.

Design: Straight	Torque			Speed, idling, rpm	Drive	Recommended screw size	Weight, kg
	Min. Nm	Max. torque (soft pull up), Nm	Max. Torque (hard pull up) Nm				
Push-To-Start, quick change chuck:							
345-308 U ESD	0,02	0,4	0,5	1 300	3 mm	M 3	0,17
345-408 U ESD	0,02	0,5	0,5	950	3 mm	M 3	0,17
345-708 U ESD	0,02	0,7	0,7	480	3 mm	M 3	0,18
345-508 U ESD	0,02	0,7	0,7	300	3 mm	M 3	0,18
347-218 U ESD	0,3	1	1	1 900	1/4”	M 3	0,40
347-318 U ESD	0,3	1,4	1,4	1 300	1/4”	M 3	0,40
347-518 U ESD	0,2	2	2	900	1/4”	M 3	0,40
347-618 U ESD	0,2	2	2	600	1/4”	M 3	0,43
347-228 U ESD	0,5	1,3	1,8	3 000	1/4”	M 4	0,68
347-328 U ESD	0,4	2,4	2,8	1 100	1/4”	M 4	0,69
347-428 U ESD	0,4	3,5	4	750	1/4”	M 4	0,69
347-528 U ESD	0,3	5	5	500	1/4”	M 5	0,69
345-7258U ESD	1	5	6	1 100	1/4”	M 5	0,9
345-3258U ESD	1	10	10	640	1/4”	M 6	0,9
345-4258U ESD	1	12	12	310	1/4”	M 6	0,9

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

Handheld pneumatic screwdrivers for special applications



39-521-19 K | 39-331-19 K - 39-331-46 K

FLAT HEAD WRENCH

DEPRAG flat head wrenches are preferably used for screw-assembly in space-limited areas. The flat head wrenches are available with interchangeable socket inserts – also customer specific.
If the supply-air is shut-off, then the tool can be used to retighten a connection.

Type	Speed, idling, rpm	Recommended screw size	Weight, kg
Straight design, trigger-start, closed head:			
39-521-19 K	90	M 4 - M 6	1,15
39-331-19 K	165	M 4 - M 6	1,5
39-331-21 K	160	M 4 - M 7	1,5
39-331-32 K	150	M 6 - M 12	1,6
39-331-32 L	150	M 6 - M 12	1,75
39-331-46 K	110	M 8 - M 18	1,7

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



HY 115 G1
HY 135 G8

IMPULSE SCREWDRIVER WITH AUTOMATIC SHUT-OFF

The low-vibration impulse screwdriver allows the fast tightening of fasteners without any tangible torque reaction.

Type	Torque		Speed, idling, rpm	Air consumption, l /min	Chuck	Recommended screw size	Weight, kg
	Min. Nm	Max. Nm					
Straight design, 1/4” chuck:							
HY 115 G1	5	15	3000	100	1/4”	M 6	1,1
HY 135 G8	15	35	4000	370	7/16”	M 8	1,35

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

Handheld screwdrivers with electric drive



342EGT-0003



342EGT-0012 / 342EGT-0019



342EGA-0029 / 342EGA-0049



342EGA-0088

ELECTRIC SCREWDRIVER

The cost-effective electric screwdriver with mechanical shut-off clutch is a good alternative if no pneumatic connection is available. All screwdrivers fulfil the requirements for the processing of ESD-sensitive components.

Type	Torque		Speed, rpm	Recommended screw size	Weight, kg
	Min. Nm	Max. Nm			
Trigger-start, 1/4" chuck:					
342 EGT-0003	0,04	0,3	700/1 000	M 2	0,39
342 EGT-0012	0,15	1,2	650/1 000	M 3	0,52
342 EGT-0019	0,3	1,9	650/1 000	M 4	0,52
342 EGT-0029	1	2,9	750/1 000	M 4	0,8
342 EGT-0049	2	4,9	750/1 000	M 5	0,8
342 EGT-0088	3	8,8	600/800	M 6	1,2
342 EGT-0120	4	12	400/550	M 6	1,2
Push-To-Start, 1/4" chuck:					
342 EGA-0012	0,15	1,2	650/1 000	M 3	0,52
342 EGA-0019	0,3	1,9	650/1 000	M 4	0,52
342 EGA-0029	1	2,9	750/1 000	M 4	0,8
342 EGA-0049	2	4,9	750/1 000	M 5	0,8
342 EGA-0088	3	8,8	600/800	M 6	1,2
342 EGA-0120	4	12	400/550	M 6	1,2

ELECTRONIC MICROMAT / MINIMAT -EC SCREWDRIVERS

The flexible MINIMAT-EC screwdriver for the highest demands allow the free programming of the screw-tightening process. Within the performance range of each screwdriver, the torque, speed, stand-by-time and rotational direction can be individually customized to the screw assembly task.
To operate the handheld screwdriver, a sequence controller with integrated power supply is used.



MINIMAT-EC
320EGA27-…
320EGA36-…

Type	Torque		Speed		Chuck
	Min. Nm	Max.*) Nm	Min. rpm	Max.*) rpm	
Straight design, Push-To-Start:					
320EGA22-00005	0,01	0,05	170	1 500	3 mm
320EGA22-00012	0,03	0,12	170	1 500	3 mm
320EGA22-00025	0,05	0,25	100	2 000	3 mm
320EGA22-00050	0,1	0,50	80	1 600	3 mm
320EGA22-00070	0,16	0,80	60	1 200	3 mm
320EGA22-00120	0,18	1,2	50	900	1/4"
320EGA22-00200	0,4	2,0	80	550	1/4"
320EGA27-0004	0,06	0,4	60	1 200	3 mm
320EGA27-0010	0,15	1	50	1 000	3 mm
320EGA27-0018	0,4	1,8	100	1 000	1/4"
320EGA27-0022	0,4	2,2	50	700	1/4"
320EGA27-0040	0,7	4	40	400	1/4"
320EGA36-0040	0,8	4	100	1 000	1/4"
320EGA36-0060	1	6	70	740	1/4"
320EGA36-0120	2	12	35	380	1/4"
320EGA36-0180	3	18	25	280	1/4"
320EGA36-0250	5	25	20	250	1/4"

Also available with trigger-start

Pistol grip, Trigger-start:					
320EPT27-0004	0,06	0,4	60	1 200	3 mm
320EPT27-0010	0,15	1	50	1 000	3 mm
320EPT27-0022	0,4	2,2	50	700	1/4"
320EPT27-0040	0,7	4	40	400	1/4"
320EPT36-0040	0,8	4	100	1 000	1/4"
320EPT36-0060	1	6	70	740	1/4"
320EPT36-0120	2	12	35	380	1/4"
320EPT36-0180	3	18	25	280	1/4"



MINIMAT-EC
320EPT27-…
320EPT36-…

Programmable screwdrivers always need sequence controller with integrated power supply. See page 13.

*) Compliant with the VDI/VDE 2647 directive

Handheld screwdrivers with electric drive



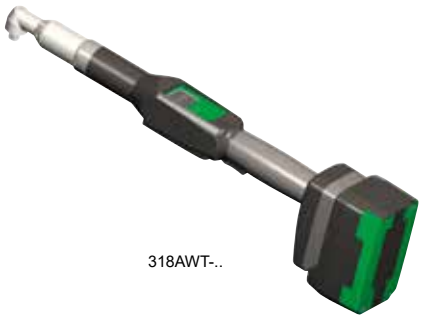
320 EWT27-..
320 EWT36-..

ELECTRONIC MICROMAT / MINIMAT -EC WITH ANGLE-HEAD

Type	Torque		Speed		Drive / chuck
	Min. Nm	Max.*) Nm	Min. rpm	Max.*) rpm	
Trigger-start, drive square male:					
320EWT27-0022-E6	0,4	2,2	80	800	1/4"
320EWT27-0035-E6	0,7	3,5	50	500	1/4"
320EWT27-0060-E6	1	6	30	300	1/4"
320EWT27-0022-E10	0,4	2,2	80	800	3/8"
320EWT27-0035-E10	0,7	3,5	50	500	3/8"
320EWT27-0060-E10	1	6	30	300	3/8"
320EWT36-0060-E6	1	6	75	750	1/4"
320EWT36-0120-E6	2	12	40	400	1/4"
320EWT36-0180-E10	3	18	20	240	3/8"
320EWT36-0250-E10	5	25	15	180	3/8"
320EWT36-0060-E10	1	6	75	750	3/8"
320EWT36-0120-E10	2	12	40	400	3/8"
Trigger-start, 1/4" chuck:					
320EWT27-0022-F6	0,4	2,2	80	800	1/4"
320EWT27-0035-F6	0,7	3,5	50	500	1/4"
320EWT27-0060-F6	1	6	30	300	1/4"
320EWT27-0022-D6	0,4	2,2	80	800	1/4"
320EWT27-0035-D6	0,7	3,5	50	500	1/4"
320EWT27-0060-D6	1	6	30	300	1/4"
320EWT27-0022-DM6	0,4	2,2	80	800	1/4"
320EWT27-0035-DM6	0,7	3,5	50	500	1/4"
320EWT27-0060-DM6	1	6	30	300	1/4"
320EWT36-0060-F6	1	6	75	750	1/4"
320EWT36-0120-F6	2	12	40	400	1/4"
320EWT36-0060-D6	1	6	75	750	1/4"
320EWT36-0120-D6	2	12	40	400	1/4"
320EWT36-0060-DM6	1	6	75	750	1/4"
320EWT36-0120-DM6	2	12	40	400	1/4"

Programmable screwdrivers always need sequence controller with integrated power supply. See page 13.

*) Compliant with the VDI/VDE 2647 directive



318AWT-..

MINIMAT-EC CORDLESS SCREWDRIVER

Where compressed air hoses or electrical cables interfere with the assembly process, industry looks forward to a battery powered, cordless EC nutrunner solution. The new cordless angle-head screwdriver series will be introduced to the market with four different models that have a torque range of 2 Nm to 50 Nm.

Type	Torque		Speed		Drive
	Min.Nm	Max. Nm	Min. rpm	Max. rpm	
Trigger-start, drive square male:					
318AWT-0120	2	12	50	780	3/8"
318AWT-0210	5	21	30	430	3/8"
318AWT-0320	7	32	30	280	3/8"
318AWT-0500	12	50	30	185	3/8"

MINIMAT-ED ELECTRONIC SCREWDRIVER

The MINIMAT-ED is recommended for a wide range of applications, particularly for workplaces with varying tightening parameters. Select the torque mode to set the preferred version of the torque adjustment. This can either be done by switching between the max. five adjustable screwdriving programs or through the quick change of the shut-off torque in screwdriving program 1.



345 EG36-..

Type	Torque		Speed, rpm	Chuck
	Min. Nm	Max. Nm		
Straight model:				
330EG36-0012	0,24	1,2	1 500	1/4"
330EG36-0018	0,36	1,8	1 500	1/4"
330EG36-0032	0,64	3,2	1 200	1/4"
330EG36-0048	1	4,8	1 000	1/4"

Digital screwdrivers always need sequence controller with integrated power supply.

Pneumatic stationary screwdrivers



345-3008-31
-
345-7008-31



345-308-31
-
345-508-31



347-228-31
-
347-528-31

MICROMAT / MINIMAT

The MINIMAT screwdriver is the capability to achieve torque ranges from 0.2 to 180 Nm. The particular strength of the MICROMAT screwdriver is the very low torque capability of 2 Ncm to 70 Ncm. The extraordinary constructive quality of the slender screwdrivers and the capability to be used in a heavy industrial environment, assures extreme high up-times. The screwdriver spindles are easy to integrate and they have very small mounting dimensions.

Type	Torque			Speed, idling, rpm	Drive / chuck	Weight, kg
	Min. Nm	Max. torque (soft pull up), Nm	Max. Torque (hard pull up) Nm			
Spindle right rotation, Push To Start						
345-3008-31	0,01	0,15	0,15	1 600	3 mm	0,14
345-5008-31	0,008	0,25	0,25	775	3 mm	0,14
345-6008-31	0,008	0,30	0,30	590	3 mm	0,14
345-7008-31	0,008	0,30	0,30	340	3 mm	0,14
345-308-31	0,02	0,5	0,6	1 600	3 mm	0,18
345-408-31	0,02	0,55	0,55	1 100	3 mm	0,18
345-708-31	0,02	0,7	0,7	650	3 mm	0,19
345-508-31	0,02	0,7	0,7	350	3 mm	0,19
347-218-31	0,3	1	1	1 900	1/4”	0,5
347-318-31	0,3	1,4	1,4	1 300	1/4”	0,5
347-518-31	0,2	2	2	900	1/4”	0,5
347-618-31	0,2	2	2	600	1/4”	0,55
347-228-31	0,5	1,6	2,2	4 000	1/4”	0,89
347-328-31	0,4	3	3,5	1 550	1/4”	0,89
347-528-31	0,3	5	5	680	1/4”	0,89
346-238-31	2	5	6	2 500	1/4”	1,5
346-738-31	2	8	9	1 400	1/4”	1,6
346-338-31	2	14	14	800	1/4”	1,6
346-438-31	2	20	20	400	1/4”	1,6
344-340-31 x)	4	8	8	2 800	7/16”	2,5
344-440-31 x)	4	10	10	2 100	7/16”	2,5
344-740-31 x)	16	34	34	640	7/16”	2,65
344-840-31 x)	16	45	45	450	7/16”	2,65
344-940-31 x)	40	85	85	250	1/2”	6
344-140-31 x)	40	130	130	160	1/2”	6
344-240-31 x)	40	180	180	115	1/2”	6

x) Remote control





SENSOMAT

The SENSOMAT was designed for screw assemblies where the driving-torque (thread-forming force) is close to – or even higher –than the seating torque. It is possible to equip this screwdriver with a mechanical clutch-lock-out, which allows the safe assembly of thread forming- or thread cutting screws.

The SENSOMAT drives the screw with full motor power. Shortly before the screw bottoms out, the shut-off clutch is activated and the driver shuts-off exactly at the preset torque. The screw is completely seated without any damage to the screw-thread.

Type	Seating torque		Torque, Nm	Speed, idling, rpm	Weight, kg
	Min. Nm	Max. Nm			
Spindle right rotation, Push To Start, straight design, hex drive 1/4”:					
347S-228-31	0,5	1,6	2	4 000	0,9
347S-328-31	0,4	3	3,3	1 550	0,9
347S-528-31	0,3	5	5,5	680	0,9
346S-238-31	0,5	4	4,5	2 500	1,3
346S-738-31	0,5	5	7	1 400	1,3

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

Nb!	All pneumatic stationary screwdrivers are also available spindle left rotation, spindle reversible and remote-controlled.

Stationary screwdrivers with electric drive



330E36-0018

MINIMAT-E

The maintenance free brushless EC drive provides outstanding dynamics and high maximum torque which is ideal for screw tightening. The screwdriver is available with push-to-start or remote start PLC signal.

Type	Torque		Speed, rpm	Diameter, mm	Length, mm	Weight, kg
	Min. Nm	Max. Nm				
Push-to-start, 1/4" chuck:						
342EA36-0009-200	0,3	2,65	2 000	36	283	1
342EA36-0009-100	0,3	2,65	1 000	36	283	1
342EA36-0009-65	0,3	2,65	650	36	283	1
342EA36-0018-200	0,5	1,8	2 000	36	283	1
342EA36-0018-100	0,4	1,8	1 000	36	283	1
342EA36-0018-65	0,3	1,8	650	36	283	1
342EA36-0024-100	0,4	2,4	1 000	36	283	1
342EA36-0024-65	0,4	2,4	650	36	283	1
342EA36-0036-65	0,5	3,6	650	36	283	1
342EA36-0048-100	0,4	4,8	1 000	36	283	1
342EA36-0048-65	0,3	4,8	650	36	283	1

MINIMAT-ED

The MINIMAT-ED is available in four versions for torques between 0.24 to 4.8 Nm at speeds of 1500 rpm. The brushless electric motors provide low maintenance operation. There are five different screwdriving programs available to implement individual screwdriving procedures.

Type	Torque		Speed min, rpm	Speed max, rpm	Diameter, mm	Length, mm	Weight, kg
	Min. Nm	Max. Nm					
330E36-0012	0,24	1,2	150	1500	36	314	1,2
330E36-0018	0,36	1,8	150	1500	36	314	1,2
330E36-0032	0,64	3,2	120	1200	36	314	1,2
330E36-0048	1,0	4,8	90	900	36	314	1,2

Stationary screwdrivers with electric drive



320E12-0012



320E19-…



320E27-…

MICROMAT / MINIMAT -EC

The flexible screwdrivers for the highest quality demands allow the free programming of the screw tightening process. Within the power range of the selected tool, the torque value, speed, stand-by and direction of rotation can be adjusted individually to the assembly requirement.

Type	Torque		Speed		Chuck
	Min. Nm	Max.*) Nm	Min.rpm	Max.*) rpm	
Straight design:					
320E22-0012	0,02	0,12	120	1 500	3 mm
320E22-0002	0,03	0,2	150	1 500	3 mm
320E22-0005	0,08	0,5	120	1 200	3 mm
320E22-0008	0,15	0,8	100	1 000	3 mm
320E27-0004-D	0,06	0,4	60	1 200	3 mm
320E27-0010-D	0,15	1,0	50	1 000	3 mm
320E27-0018-D	0,4	1,8	100	1 000	1/4”
320E27-0024-D	0,4	2,4	50	700	1/4”
320E27-0042-D	0,7	4,2	40	400	1/4”
320E36-0040-D	0,5	4	100	1 000	1/4”
320E36-0060-D	1	6	70	740	1/4”
320E36-0090-D	2	9	50	550	1/4”
320E36-0120-D	2	12	35	380	1/4”
320E36-0180-D	3	18	25	280	1/4”

*) Compliant with the VDI/VDE 2647 directive



310 E 30-... 310 E 36-... 310 E 56-...



310 EW 36-...



311 E 27-…



311 E 36-…

MINIMAT-EC-SERVO

The integrated torque and angle sensor module employs non contact signal transmission techniques and enables precise control of the screwdriving process as well as the documentation of the screwdriving results and process parameters and also guarantees the highest shut-off accuracy. The EC-Servo screwdriver is suitable for applications with the most demanding quality requirements – where direct measurement and control methods are required.

Type	Torque		Speed		Drive	Weight, kg
	Min. Nm	Max. Nm	Min. rpm	Max. rpm		
Straight design, 1/4" hex drive:						
310 E 30-002	0,2	2	50	1 200	1/4”	1,1
310 E 30-005	0,8	5	25	600	1/4”	1,1
310 E 36-005	1	5	50	1 000	1/4”	1,8
310 E 36-012	2	12	25	600	1/4”	1,8
310 E 36-018	4	18	20	450	1/4”	1,85
310 E 36-025	5	25	15	350	1/4”	1,85
Straight design, square drive:						
310 E 56-022	5	22	50	1 500	1/2”	7
310 E 56-040	8	40	25	800	1/2”	7,2
310 E 56-090	15	90	10	350	1/2”	7,3
310 E 56-140	25	140	10	300	1/2”	7,3
310 E 56-270	50	270	5	100	3/4”	7,7
Angle-head design, square drive:						
310 EW 36-0075-E10	1,5	7,5	35	620	3/8”	3,1
310 EW 36-0180-E10	3,5	18	20	375	3/8”	3,1
310 EW 36-0250-E10	5	25	15	280	3/8”	3,1
310 EW 36-0360-E10	7	36	10	210	3/8”	3,1
Straight design, hex drive:						
311E27-0010	0,2	1	60	1 500	1/4”	1,2
311E27-0020	0,4	2	60	1 500	1/4”	1,2
311E27-0050	1	5	40	800	1/4”	1,2
311E27-0120	2,4	12	20	400	1/4”	1,2
311E36-0150	3	15	50	1 000	3/8”	2,8
311E36-0300	6	30	30	600	3/8”	2,8
311E36-0500	10	50	20	400	3/8”	2,8

Equipment Required:	Programmable MICROMAT-EC / MINIMAT-EC screwdrivers always need sequence controller with integrated power supply.

Controllers

SCREWDRIVING CONTROLLER

Besides the screwdriver, the screwdriving controller is an essential component of the electronic screwdriving system. According to the parameterized screw-tightening process, the controller controls the EC-drive of the screwdriver, evaluates the measuring signals and provides all necessary operator- and documentation functions.

The offered EC- and EC-Servo systems are equipped with highly dynamic brushless motors; they differ in the way the torque measurements are generated.
While the EC-technology used with the sequence controllers AST5 and AST11 are based on the exact motor-current measurement, the EC-Servo system with the controller AST30-31 and AST40 evaluates the signals of the transducer integrated in the tool.



AST5

AST5

- Torque range: 0,03 Nm - 2,0 Nm
- For handheld MICROMAT-EC ja MINIMAT-EC screwdrivers
- Number of possible multistage programs: 100
- Documentation possibility: internal storage, retrieval via Ethernet (Datalogger, touch screen)
- Operator friendly colour touch-screen for the direct input of screwdriving cycles and tightening parameter, graphical display of torque-curves
- Small size for confined spaces at manual workstations



AST6

AST6

- Torque range: 0,02 - 2,0 Nm
- For NANOMAT-EC ja MICROMAT-EC screwdriver spindles
- Number of possible multistage programs: 100
- Documentation possibility: internal storage, retrieval via Ethernet (Datalogger, touch screen)
- Operator friendly colour touch-screen for the direct input of screwdriving cycles and tightening parameter, graphical display of torque-curves
- Small sized



AST11

AST11

- Torque range: 0,03 - 25 Nm
- For MICROMAT-EC ja MINIMAT-EC handheld and stationary screwdrivers
- Number of possible multistage programs: 16
- Documentation possibility: internal storage, retrieval via Ethernet (Datalogger, http), parametrizable printer port
- PLC-ports: I/O, Profibus, EtherCAT, EthernetIP



AST30

AST30

- Torque range: 0,2 Nm - 270 Nm
- For MINIMAT-EC-SERVO stationary screwdrivers
- Number of possible multistage programs: 32
- Documentation possibility: internal storage, output via RS232 or Ethernet (Datalogger), printer port
- PLC-ports: I/O, Profibus, EtherCAT, EthernetIP



AST40

AST40

- Torque range: 0,2 Nm - 500 Nm
- For MINIMAT-EC-SERVO stationary screwdrivers
- Number of possible multistage programs: 120
- Documentation possibility: internal storage, output via RS232 or Ethernet (Datalogger), printer port
- PLC-ports: I/O, Profibus, EtherCAT, EthernetIP

Measuring technology



Measuring instrument ME 5000 with docking station



ME 5400
ME 6000

To assure the safety of your production process, DEPRAG offers a wide range of torque- and angle measurement instruments. All measuring instruments include gauge, sensor and cables. Measurement principle is adapted to our screwdriver assortment and based on strain-gauge technology (DMS) or the PE (Piezoelectric) measuring.

MEASURING INSTRUMENT



ME 5600

Type	Type	Measuring range	Operating voltage	Nb!
Torque measurement device, Portable	ME 5000	See Torque transducers	Rechargeable battery	• Peak-value display • Measurement series with statistics
Torque measurement device Connected with PC	ME 5400 ME 6000	See Torque transducers	Power unit 110 or 240 V	• Peak-value display, • PC is required • Measurement series with statistics
Torque measurement device Table stand	ME 5600	See Torque transducers	Power unit 110 or 240 V	• Peak-value display • Measurement series with statistics

TORQUE TRANSDUCER



Measuring platform



E-torque wrench



Transducer

PE (Piezoelectric):	Type	Measuring range, Nm
Measuring platform	MP 1 PE	± 1
	MP 25 PE	± 25
	MP 200 PE	± 200
	MP 1000 PE	± 1000
E-torque wrench	MS 25 PE-W	± 25
Strain-gauge technology (DMS):	**Type**	**Measuring range, Nm**
Measuring platform	MP 2 DMS	0,2 - 2
	MP 7 DMS	1 - 7
	MP 25 DMS	4 - 25
	MP 160 DMS	20 - 160
	MP 500 DMS	50 - 500
E-torque wrench	MS 2 DMS	0,2 - 2
	MS 7 DMS	1 - 7
	MS 7 DMS-W	1 - 7
	MS 25 DMS-W	4 - 25
Torque transducer (strain gauge, non-contact):	**Type**	**Measuring range, Nm**
Transducer	V002-E6,3/F6,3	0,2 - 2
	V005-E6,3/F6,3	0,5 - 5
	V010-E6,3/F6,3	1 - 10
	V020-E6,3/F6,3	2 - 20

MECHANICAL TORQUE WRENCHES



Mechanical Torque Wrenche

Type	Measuring range, Nm	Increment, Nm	Drive
804686	0 - 3,4	0,1	1/4"
804687	0 - 8,4	0,2	1/4"
804688	0 - 17	0,5	3/8"
804689	0 - 60	1	3/8"

DEPRAG

Feeding technology

Vibratory feeders







Sword feeders





VIBRATORY AND SWORD FEEDERS FOR MANUAL USE

DEPRAG feeders with a vibratory drive are particularly suitable for screws from < M1 to M8. Shaft lengths of 5 mm to 50 mm can be processed. The high output of DEPRAG vibratory bowl feeders distinguishes them from other feeding systems.

Sword feeders or segment feeders are used when components are particularly sensitive and a more gentle feeding environment is required. They are also extremely quiet. Our sword feeders can be used for screw sizes M2 to M6. They are ideal for screws up to 25 mm in length. Operating voltage is 230 V /115V.

Type	Amount of connectable drivers	Filling capacity, l	Max. head diameter, mm	Max. shaft length, mm	Range of shaft diameter, mm
1511-ES/0,15	1	0,15	5	8	1 - 2,5
1522-ES/0,15	2	0,15	4	8	1 - 2,5
1011-0,75	1	0,75	12	35	1,5 - 6,3
1022-0,75	2	0,75	8	25	2 - 6,3
1011-1,2	1	1,2	12	50	3 - 7
1011-/2,5	1	2,5	14	60	4 - 10
1022-2,5	2	2,5	14	50	4 - 10
1811-0,15	1	0,15	4,5	8	1 - 2,5
1811-1,5-x	1	1,5	12	25	2 - 6,3

ERGOMAT-Z – THE AUTO STROKE SCREWDRIVER FOR FEEDERS

When using feeders with hand-screwdrivers, it is necessary for the bit to retract, so that a new screw can fall into the feed-channel. With the ERGOMAT-Z driver, this stroke is performed automatically within the driver.



ERGOMAT-Z

Type	Torque		Speed, idling, rpm	Drive hex	Recom-mended screw size	Weight, kg
	Min. Nm	Max. Nm				
347 Z-218	0,3	1	1 900	1/4"	M 3	0,8
347 Z-318	0,3	1,4	1 300	1/4"	M 3	0,8
347 Z-518	0,2	2	900	1/4"	M 3	0,8
347 Z-718	0,2	2,5	640	1/4"	M 4	0,8

Performance data relate to an air pressure of 6.3 bar

PRESS-INSERTION SYSTEMS

DEPRAG handheld and stationary press-insertion tools are combined with the suitable feeder. Some of the connection-elements, such as rivets, pins, sleeves and balls can be processed with this system both process reliable and efficient.



Press-Insertion System

	Type	Nb!
Press-Insertion System for stationary use	EDG-..	1, Insertion stroke
	EDGZ-..-..	2, insertion stroke and an additional locking stroke

STATIONARY FEEDING SYSTEMS

DEPRAG feeding systems are designed to feed screws and screw-similar fasteners (pins etc.). Integrations and start-up procedures are simple. Operating voltage is 230 V /115V.



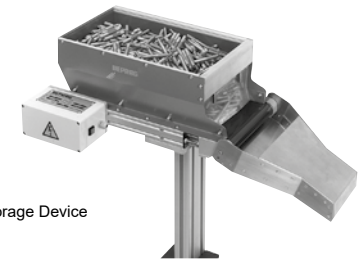
Vibratory Feeder eacy feed

Type	Amount of connectable drivers	Filling capacity, l	Max. head diameter, mm	Max. shaft length, mm	Range of shaft diameter, mm
SZG 0611-XX	1	0,05	3	8	0,6 - 2,0
SZG 0511-XX	1 - 6	0,15	5	8	1 - 2,5
01011-0,75	1 - 6	0,75	8 / 12	35	1,6 - 6,3
01011-1,2	1 - 6	1,2	16	50	3 - 7
01011-2,5	1 - 6	2,5	14 / 16	50	4 - 8
SZG 0511-XX	1 - 6	6	30	100	8 - 16
SZG 0511-XX	1 - 4	12	30/40	120/130	12 - 20
SZG 0811-XX	1 - 6	1,5	12	25	2 - 6,3

Feeding technology

FEEDER FOR NUTS

DEPRAG has feeders for nuts, in sizes of AF4-17.



Storage Device

Type	Amount of connecta-ble drivers	Filling capacity, l	Hex size, mm	Thread, mm	Max. shaft length, mm	Power supply, AC
01011M-0,75	1 / 2 / 4	0,75	4/5,5-8	3 - 5	5	230 V / 115 V
01011M-2,5	1 / 2 / 4	2,5	5,5-13/17	3 - 8	8	

STORAGE DEVICES

Belt-driven hoppers are the ideal supplement to feeding systems to dramatically increase the required refill intervals. A fill-level sensor that is installed in the feeding system sends a signal to a controller when the minimum fill-level is reached.

Type	Filling capacity, l	Voltage, DC
B 10	10	24 V
B 20	20	24 V

SCREW PRESENTER

You are looking for a quick solution to automate your assembly, but an automatic screwfeeder is not feasible because of the low number of screws to be processed. For such a case, the DEPRAG screw presenter is the ideal solution.
Screw presenters are well-suited for the automatic presentation of screws to allow pickup with handheld or stationary screwdriver.



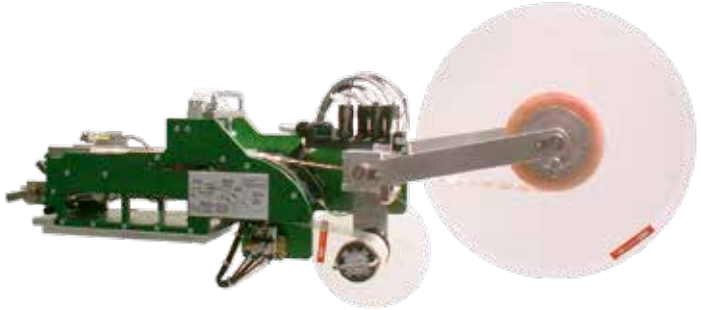
Screw presenter

Type	Amount of connectable drivers	Filling capacity, l	Shaft diameter, mm	Shaft length, mm	Voltage, DC	Nb!
SG 1211-. .	1	0,1	1,4 - 5	2 - 25	12	For manual use
SG 0211-. .	1	0,1	1,4 - 5	2 - 18	12	For stationary use

TAPE-ON-REEL FEEDER

The DEPRAG Tape-on-Reel Feeder is specifically designed for the process-reliable and position-accurate delivery of adhesive components, which are supplied on reel tapes. This type of feeding system enables the assembly automation of both single-sided and double-sided adhesive components, which are frequently used as a sealant.

Type	Application	Voltage, DC
0111-. .	Adhesive components that are supplied on a reel	24 V



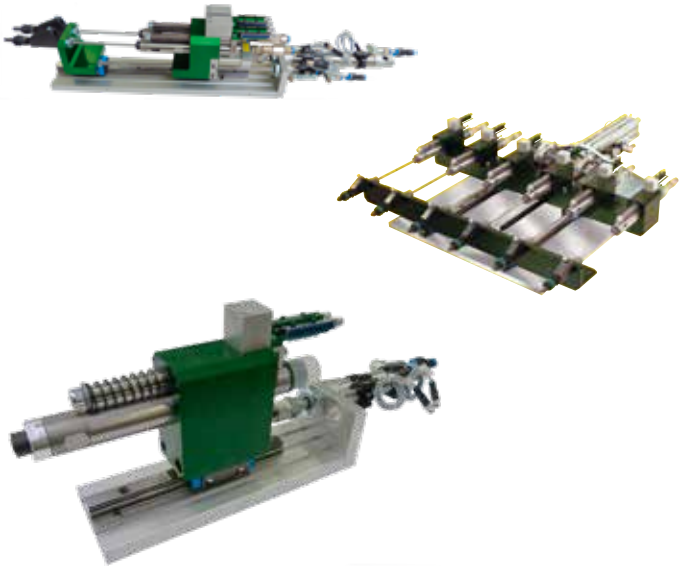
Tape-on-Reel feeder

Standardized assembly systems



Screwdriving, labeling, palletizing, clipping, pressing, laser inscribing, ultra-sonic welding, testing, gluing and any other functions can be realized economically with DEPRAG Assembly modules. The cell includes machine base, portal axis system, part handling and safety system.

Screwdriver function fodules



DEPRAG Screwdriver function modules are equipped with one or multiple screwdrivers and with or without feeding technology. Due to the modular design, the screwdriver function module can easily and individually be adapted to fit your application. They are always delivered ready to use and if desired, also wired and sensed.

Manual workstations



Working stations are custom made with process control system combined for example with feeding system and programmable screwdrivers.

Balancers



BALANCERS

Balancers are used to ease continuous and repeated work. Balancer is attached on the hook of a tool. Balancer makes the tool feel lighter and takes the strain off the operator.

Part No.	Load, kg	Cable length, m	Weight, kg
833320A	0 - 0,50	1,60	0,40
833320B	0,30 - 1,50	1,60	0,50
833320C	1,20 - 2,50	1,60	0,60
833390B	1,50 - 3,00	2,50	0,80
833395A	2,00 - 5,00	3,00	3,30
833395B	4,00 - 8,00	3,00	3,70
833395C	7,00 - 10,00	3,00	3,70
833395D	10,00 - 14,00	3,00	3,90
810350C	12,00 - 20,00	2,00	15,90
810351C	20,00 - 30,00	2,00	16,30
810352C	30,00 - 45,00	2,00	18,00

PARALLEL ARMS AND LINEAR STANDS

Linear stand for ergonomic process reliable guidance of your tool, used to support the tool weight and for fast and secure positioning. Linear stands make the tool feel lighter and takes the strain off the operator. It keeps the tool always in the right position. Linear tools with position control are also available.



	Part No.	Reach max. mm	Torque max., Nm	Max. Load, kg
Parallel arms	PA25-0400-0002	800	25	2,0
	PA75-0500-0405	1100	75	5,0
	PS25-0750-0205	800	25	2,5
	PS75-1000-0405	1000	75	5,0
	Wall bracket/table stand and tool holder are not included in the price.			
Linear stands	408010A	600	25	
	408010B	770	50	
	408010C	770	150	
	Balancer and tool holder are not included in the price.			
Telescopic arms	408351A	430-925	15	
	Wall bracket is included			

	Part No.	Diameter of tool, mm	Torque max., Nm
Tool holders	ATH-2540-25	25-40	25
	ATH-4050-25	40-50	25
	ATH-4050-75	40-50	75
	ATH-5060-75	50-60	75

	Part No.	Height, mm	Torque max., Nm
Table stand	TST-0300-25	300	25
	TST-0470-25	470	25
	TST-0510-75	510	75

	Part No.		Torque max., Nm
Wall bracket	WBR-25		25
	WBR-75-D		75

DEPRAG AIR TOOLS

DEPRAG air tools are distinguished by their long lifespan, power density and user friendliness. Effortless performance is guaranteed – even when working on areas which are difficult to reach.

The product range contains a wide selection of tools. DEPRAG´s comprehensive program includes angle grinders with vane motor and turbine motor. Straight grinders and angle grinders are available with different power ranges and idle speeds. DEPRAG CZ a.s. offers drills from small hand drilling machines up to MK5-drills. Tappers are available as straight design or pistolgrip, for all the way size M14 threads. DEPRAG hammers and needle scalers are excellent tools for cleaning, riveting or demolition. For cutting, shaping and sculpting we recommend DEPRAG air files, saws and metal shears.

All DEPRAG pneumatic tools are made in Germany or The Czech Republic.





Straight grinders with collets



GDS009-1000BY

POWER CLASS 90 W

The DEPRAG Top-Speed-Grinder with a modern gear-motor, brings all the advantages, such as high power-output, consistent high-speed, robustness and oilfree use.

Type	Power W	Speed, 1/min	Collet, mm	Weight kg	Max. Ø of grinding tip, mm	Max. Ø of grinding insert., mm	Nb!
GDS009-1000BY	90	100 000	3	0,3	5	3	Twist Valve



GDS011-550BY

POWER CLASS 110 - 130 W

Small grinders are especially well suited for finishing and precision grinding. GDS011-650BYE is equipped with flexible spindle.

GDS011-550BY	110	55 000	3	0,1	10	3	Twist Valve
GDS011-650BYE*)	110	65 000	3	0,1	10	3	Push Valve
GDS013-720BX	130	72 000	3	0,3	10	3	Lever Valve
GDS013-720BY	130	72 000	3	0,3	10	3	Twist Valve

*) With flexible spindle



GDST025-700BY

POWER CLASS 250 W

DEPRAG die grinder with turbine drive is especially designed for carbide burrs. Low levels of vibration and oilfree operation.

GDST025-700BY	250	70 000	3/6	0,3	13	6	Twist Valve
GDST025-700BYO	250	70 000	3/6	0,3	13	6	Twist Valve

BY = with integrated, automatic brake
BYO = without brake

Straight grinders with collets

POWER CLASS 300 W

Ergonomic DEPRAG die-grinders are available in three designs: short, basic and long design. Also 15 000, 20 000, 23 000 and 45 000 rounds per minute are available. Flexible spindle improves working quality and reduces vibration.



GDS030-300BX

Type	Power, W	Speed, 1/min	Collet, mm	Weight kg	Max. Ø of grind-ing tip, mm	Max. Ø of grinding insert., mm	Nb!
GDS030-120BX	300	12 000	8	0,4	20	10	Lever Valve
GDS030-180BXE *)	300	18 000	6	0,4	20	10	Lever Valve
GDS030-250BXES *)	300	25 000	8	0,6	25	12	Lever Valve
GDS030-300BX	300	30 000	6	0,4	20	6	Lever Valve
GDS030-300VX	300	30 000	6	0,4	20	6	Lever Valve

*) With flexible spindle
SX = short design, BX =basic design, VX = long design, WX = extension design

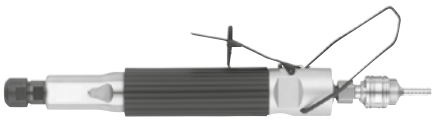


GDS030-300QX

POWER CLASS 300 W

The grinder has an extended, slender spindle and it is best used in areas that are hard to access.

GDS030-300QX	300	30 000	6	0,4	10	6	Lever Valve



GDS035-023BX

POWER CLASS 250/350 W

DEPRAG powerful grinder allows the low-fatique operation in industrial areas. Equipped with lever valve.

GDS035-023BX	350	2 300	6	1,2			Lever Valve
GDS035-045BX	350	4 500	6	1,2			Lever Valve



GDST050-0550BXO

POWER CLASS 500 W

Turbine grinder for carbide burrs. Low levels of vibration and oilfree operation. Short and slender spindle also available.

GDST050-550BXO	500	55 000	6	0,8	16	12	Lever Valve



GDS050-200SXI

POWER CLASS 500 W

Powerful straight grinder for carbide burrs and grinding stones. Also speed of 25 000 and 30 000 RPM are available.



GDS050-200VXI

GDS050-120SXI	500	12 000	6	0,7	32	16	Lever Valve
GDS050-200SXI	500	20 000	6	0,7	32	16	Lever Valve
GDS050-120BXI	500	12 000	6	0,9	32	16	Lever Valve
GDS050-200BXI	500	20 000	6	0,9	32	16	Lever Valve
GDS050-120VXI	500	12 000	6	0,8	32	16	Lever Valve
GDS050-200VXI	500	20 000	6	0,8	32	16	Lever Valve
GDS050-200WXI	500	20 000	6	1,0	32	16	Lever Valve

SX = short design, BX =basic design, VX = long design, WX = extension design



GDS070-230SXI

POWER CLASS 700 W

Powerful straight grinder for carbide burrs and grinding stones. Also speed of 19 000 RPM is available.

GDS070-070SXI	700	7 000	6	1,2	35	16	Lever Valve
GDS070-230SXI	700	23 000	6	1,2	35	16	Lever Valve
GDS070-120BXI	700	12 000	6	1,5	50	16	Lever Valve
GDS070-153BXI	700	15 300	6	1,5	35	16	Lever Valve
GDS070-230BXI	700	23 000	6	1,7	35	16	Lever Valve
GDS070-153VXI	700	15 300	6	1,5		16	Lever Valve
GDS070-230VXI	700	23 000	6	1,5	35	16	Lever Valve
GDS070-153WXI	700	15 300	6	2,1	35	16	Lever Valve
GDS070-153W1XI	700	15 300	6	2,6	35	16	Lever Valve
GDS070-153W2XI	700	15 300	6	3,1		16	Lever Valve



GDS070-VXI

Extension spindle lengths: WXI - 400 mm, W1XI - 600 mm, W2XI - 800 mm, W3XI - 1000 mm, W4XI - 1200 mm
SX = short design, BX =basic design, VX = long design, WX = extension design

DEPRAG

Angle grinders with collets



GDA030-450BX



GDA060-200BX



GDB030-300SX



GS508-120BX



GS315-240BX

ANGLE GRINDERS WITH COLLETS

DEPRAG grinders with collets are especially well suited for the precision grinding in tight places. There is no bevel gear in the machine, which makes the service interval longer.

Type	Power, W	Speed, 1/min	I.D. of air inlet hose, mm	Weight, kg	Max. Ø of grinding tip, mm	Max. Ø of grinding insert, mm	Max. Ø of collet, mm
Angle 90°							
GDA030-300BX	300	30 000	8	0,5	20	6	6
GDA030-450BX	300	45 000	8	0,5	16	6	6
GDA030-180SX	300	18 000	8	0,7	16	6	6
GDA030-300SX	300	30 000	8	0,5	20	6	6
GDA060-200BX *)	600	20 000	10	1,4	-	-	8
Angle 120°							
GDB030-200BX	300	20 000	8	0,5	20	6	6
GDB030-300BX	300	30 000	8	0,5	20	6	6
GDB030-450BX	300	45 000	8	0,5	16	6	6
GDB030-300SX	300	30 000	8	0,5	20	6	6

*) designed for the grinding (or sharpening) of drill-crowns

STRAIGHT GRINDERS

DEPRAG straight grinders are designed for the use with flat grinding disks when heavy-duty fabrication is required on steel and castings and for the deburring of welding, casting, and ridge seams. It can also be used with steel brushes for the removal of rust, the descaling of rolled steel and forgings. Safety guard is included.

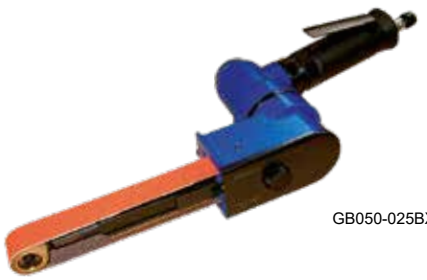
Type	Power, kW	Speed, 1/min	I.D. of air inlet hose, mm	Weight, kg	Grinding tip Ø / width, mm
GS315-240BX	2,4	4 000	16	6,5	150/20
GS508-120BX	1,2	12 000	13	2,2	80/20
GS508-120BXA	1,2	12 000	13	2,2	80/20
GS510-230BX	2,3	9 500	16	4,0	100/20
GS515-280BX	2,8	6 400	16	5,4	150/20
GS818-210BX	2,1	8 500	16	4,0	180/22,23
GS818-210BXE	2,1	8 500	16	4,25	180/22,23
GS823-280BXE	2,8	6 600	16	5,5	230/22,23

BXE = With Autobalancer for reduced vibrations

Belt sanders



GB030-013BX



GB050-025BX

BELT SANDERS

DEPRAG CZ a.s. offers contact arms for belt sanders in different designs, shapes, sizes and materials - made for your application. The application range of the belt grinders is almost unlimited, due to many different contact arms that we offer. Low noise and vibration levels.

Type	Power, kW	Speed, 1/min	I.D. of air inlet hose, mm	Weight, kg	Belt size, mm
GB030-013BX	300	30 000	6	0,9	13 x 305
GB030-013CX *)	300	30 000	6	1,2	13 x 305
GB050-025BX	500	16 000	10	1,4	19 x 480

*) Design with exhaust hose

DEPRAG

DEPRAG AIR TOOLS

Angle grinders



GA810-050BX



GA823-230BX

ANGLE GRINDERS WITH ANGLE GEAR

DEPRAG´s comprehensive program includes angle grinders for grinding disks with diameter of 100 mm to 230 mm at power range from 500 Watt to 2 300 Watt. These grinders are designed to perform best on heavy duty- industrial applications. The robust construction of these tools assure an extended longevity - even when used in 24/7 operations. Vane motor requires lubricated air. Professional angle grinders are equipped with speed regulator, which keeps the speed of the tool constant, even if tool is operated at maximum load.

Type	Power, kW	Speed, 1/min	I.D. of air inlet hose, mm	Weight, kg	I.D. and O.D. of grinding wheel, mm	Thick-ness of grinding wheel, mm	Max. cutting depth, mm	Spindle thread
GA810-050BX	0,5	15 300	10	1,3	100/16	6	30	M14
GA811-100BX	1,0	13 200	13	2,4	115/22,2	6	29	M14
GA812-100BX	1,0	12 200	13	2,4	125/22,2	6	34	M14
GA812-190BX	1,9	11 900	16	3,0	125/22,23	6	30,5	M14
GA815-190BX	1,9	9 850	16	3,1	150/22,23	6	43	M14
GA818-190BX	1,9	8 350	16	3,3	180/22,23	8	58	M14
GA823-190BX	1,9	6 650	16	3,6	230/22,23	8	83	M14
GA818-250BX	2,5	8 400	16	4,4	180/22,2	10	55	M14
GA823-250BX	2,5	6 500	16	4,6	230/22,2	10	80	M14

TURBINE GRINDERS

- DEPRAG turbine grinders are available in power range from 2,2 kW to 4,5 kW for scrubbing and cutting disks Ø from 125 mm to 230 mm. GAT-turbine grinder features an oilfree turbine motor with clearly reduced maintenance expenditure. The machines include built-in filter to remove impurity from the air. Integrated ABU (auto-balancing-unit) reduces vibration and allows a fatigue-free operation. M14 spindle thread is also available.
- Double the power, half the weight
- Oilfree operation
- Spindle-lock at the push of a button; keyless wheel/disk replacement possible

Type	Power, kW	Speed, 1/min	I.D. of air inlet hose, mm	Weight, kg	I.D. and O.D. of grinding wheel, mm	Thickness of grinding wheel, mm	Max. cut-ting depth, mm
GAT812-221BX	2,2	12 000	13	2,2	125/22,23	6	38,5
GAT812-260BX	2,6	12 000	13	2,2	125/22,23	6	38,5
GAT815-260BX	2,6	10 200	13	2,8	150/22,23	10	44
GAT818-260BX	2,6	8 500	13	2,8	180/22,23	13	59
GAT818-451BX	4,5	8 500	19	4,0	180/22,23	10	59
GAT823-451BX	4,5	6 600	19	4,2	230/22,23	8	76



GAT812-221BX



GAT818-260BX

DEPRAG

Polishers

PISTOLGRIP POLISHERS



PLU50A-55ZK

Type	Power, W	Speed, 1/min	O.D. Rubber backing pad, mm	O.D. Polishing wheel, mm	O.D. spindle, mm	I.D. of air inlet hose, mm	Weight, kg	Spindle thread
With speed regulator:								
PLU50A-55ZK	450	21 000	50	35	9,5	10	0,8	M12x1
PLU50B-45ZK	450	17 800	50	35	-	10	0,8	M12x1
PLU50C-40ZK	450	15 000	50	35	-	10	0,8	M12x1
PLU75A-70ZK	450	17 800	75	-	-	10	0,8	M12x1

ANGLE-HEAD POLISHERS



PA070-060BYI

Type	Power, W	Speed, 1/ min	O.D. Rubber backing pad, mm	I.D. of air inlet hose, mm	Weight, kg	Spindle thread
PA025-036SX	250	3 600	120	6	0,9	M14
PA025-021SX	250	2 100	120	6	0,9	M14
PA025-011SX	250	1 100	120	6	0,9	M14
PA030-032BX	300	3 200	120	6	0,8	M14
With speed regulator:						
PLP180A-40X	700	4 000	180	10	2,4	M14
PLP180B-40X	700	4 000	180	10	2,2	M14
PA070-060BYI	700	6 000	180	10	2,0	M14
PA100-050BYI	1 000	5 000	180	10	2,7	M14
With turbine motor:						
PAT260-085BX	2 600	8 500	180	13	2,2	M14



PAT260-085BX

STRAIGHT DESIGN WITH SPEED REGULATOR

Type	Power, kW	Speed, 1/min	I.D. of air inlet hose, mm	Weight, kg	Spindle thread
PS045-034BXT	450	3 400	10	1,5	5/8"

ECCENTRIC ORBITAL POLISHER WITH SPEED REGULATOR

Type	Power, W	Speed, 1/ min	O.D. Polish- ing wheel, mm	I.D. of air inlet hose, mm	Weight, kg	Spindle thread
PLUE125/150	150	12 000	125	10	0,9	5/16"
PAE020-120BX	200	12 000	75	6	1,0	5/16“



PS045-034BXT



PLUE-125/150

Drills and tappers

STRAIGHT DRILLS 120 - 290 W

A simple and fast exchange of the drill bit is possible because of the keyless drill-chuck. It is possible to drill small holes with a diameter of 0.5 to 6.0 mm using DEPRAG pneumatic straight drills that feature a speed range of 600 to 20,000 rpm.



DS012-005PC

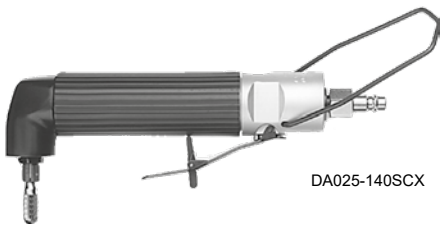
Type	Power, W	Speed, 1/min	Weight, kg	Max. drill diam., mm	Collet chuck, mm
Deburring of holes, push-to-start					
DS012-005PC	120	500	0,8	6	8
Safety lever start					
DS029-170SXPB10	290	17 000	0,89	6	0,5-6,5
DS029-045SXB10	290	4 500	1,0	6	0,5-6,5
DS029-021SXPB12	290	2 100	1,0	10	



DS310-001YRMK5

DRILLS WITH MORSE TAPER 700 W - 3,5 KW

Type	Power, kW	Speed, 1/min	Drill-ing into steel, mm	Ream-ing up to, mm	Tap-ping into steel, mm	Milling of pipes, mm	I.D. of air inlet hose, mm	Weight, kg	Morse taper
Right-rotating, chuck range (1 - 13 mm):									
DS070-014ZMK1	0,7	1 400	15	-	-	-	10	3,5	-
Reversible drill:									
DS310-002YRMK5	3,1	220	60	50	65	65	19	34,0	5
DS310-001YRMK5	3,1	150	80	75	100	120	19	34,0	5



DA025-140SCX

ANGLE DRILLS

Type	Power, kW	Speed, 1/min	I.D. of air inlet hose, mm	Weight, kg	Drilling into steel, mm	Drilling into alu-minum, mm	Chuck capacit, mm	Porais-tukan kartio, mm	Collet, mm
With collet, angle head 90°									
DA020-040SZC	0,20	4 000	6	0,8	3	4,8	-	-	1-4,8
DA035-036SXC	0,35	3 600	10	1,0	6	6	-	-	3-6
DA035-140SXC	0,35	14 000	10	1,0	6	10	-	-	3-6



DA220-004YRMK4

ANGLE-HEAD DRILLS WITH MORSE TAPER, 480 W - 2,2KW

DEPRAG manufactures angle-head drills, which rotate right or both ways. They are capable to drill in to steel up to 80 mm. Drills can be used for tapping and reaming.



DA048-010YMK1

Type	Power kW	Speed, 1/min	Dril-ling into steel, mm	Reaming up to, mm	Tap-ping into steel, mm	Milling of pipes, mm	I.D. of air inlet hose, mm	Weight, kg	Morse taper
Right-rotating									
DA048-010YMK1	0,48	1 000	15	12	-	-	10	2,9	1
DA150-004YMK2	1,5	400	23	18	-	-	15	8,3	2
DA210-004YMK3	2,1	400	32	27	-	-	15	11,7	3
DA220-003YMK4	2,2	300	50	13,9	-	-	19	13,9	4
Reversible drill, with morse taper									
DA220-004YRMK4	2,2	400	55	50	50	55	19	17,0	4
DA220-002YRMK5	2,2	180	80	75	80	120	19	21,7	5

DEPRAG

Drills and tappers



PV6E

PISTOL DRILLS, 170 W - 1,85 KW

DEPRAG line of drills are especially robust air tools for the drilling of different materials. There are many different models available with speed from 350 to 17 000 1/min. Drills are equipped with a key chuck or a quick change chuck.



DP29-021ZB12Q

Type	Power, kW	Speed, 1/min	Drilling into steel, mm	Drilling into aluminum, mm	I.D. of air inlet hose, mm	Weight, kg	Chuck capacity, mm	Spindle thread
PV6F	0,21	5 000	6	6	8	0,7	0,5 - 6	3/8“x24
PV6E [1]	0,21	5 000	6	8	8	0,7	0,5 -6	3/8"x24
DP029-170ZPB10	0,29	17 000	-	6	6	0,9	0,5 - 6,5	B10
DP029-045ZB10Q [1]	0,29	4 500	4	6	6	1,2	- [1]	B10
DP029-021ZB12Q [1]	0,39	2 100	6	8	6	1,0	- [2]	B12
DP029-015ZPB12	0,29	1 500	8	10	6	1,0	0,8 - 10	B12
DP029-007ZPB12	0,29	700	10	-	6	1,0	0,8 - 10	B12
DP029-004ZPB12	0,29	350	10	-	6	1,0	0,8 - 10	B12
DP030-020ZRB12 [2]	0,30	2 000	6	8	8	1,0	1 - 10	B12
PV13D	0,35	350	13	13	10	2,0	2 - 13	1/2"20 UNF
DP040-005ZB16	0,40	470	13	13	10	2,3	1 - 13	B16
PV13B	0,50	1 950	13	13	10	2,5	2 - 13Q	1/2"20 UNF
PV16B	0,50	850	16	16	10	3,2	3 - 16	B16
DP060-037ZP3/8"	0,60	3 700	10	10	10	1,1	0,8 - 10	3/8"x24
DP060-060ZP3/8"	0,60	6 000	10	10	10	1,1	0,8 - 10	3/8"x24
PVR32A-04X [2]	1,45	380	32	32	19	9,5	-	-
PV32A-04X	1,85	380	32	32	19	9,5	-	-

1) Quick change chuck 0 - 6 mm 2) Reversible



PV16B/PV13B



DP060-037ZP3/8"

TAPPERS

DEPRAG tappers are suitable for vertical and horizontal applications. The tappers are equipped with a flexible chuck that perfectly guides the tap-insert and cuts a straight thread, even if the tapper is held at a slight angle.



DS070-003BXRB16

Type	Power, kW	Speed (no load) right, 1/min	Speed (no load) left, 1/min	Tapping into steel mm	Tapping into aluminium, mm	I.D. of air inlet hose, mm	Weight kg	Tap holder capacity, mm	Taper DIN 238
Inline design, start by lever, reverse by pulling									
DS040-007BXRP12	0,25	650	1 120	M6	M8	6	1,5	3 - 9	B12
DS070-003BXRB16	0,7	320	550	M14	M16	10	2,9	3 - 9	B16
Pistolgrip, start and reverse by trigger									
DP015-006ZRB10	0,15	620	660	M5	M6	6	0,8	3 - 9	B10
DP030-007ZRB12	0,3	650	550	M8	M10	6	1,5	3 - 9	B12
DP040-003ZRB16	0,4	300	250	M14	M14	10	2,4	3 - 9	B16



DP040-003ZRB16

Hammers



HC008-R10P

DEPRAG large program of robust hammers include the small-sized hammers needed for an artist while creating stone statues up and including jack hammers that are used during road constructing and in mining. The DEPRAG INDUSTRIAL hammer excel through their longevity, high power output and user friendliness. We offer all kinds of air tools for quarries, construction and foundries.

SMALL-SIZED HAMMERS

HC010-H10B





HC080-HR20V

Type	Hex. Shank, mm	Impacts, 1/min	Rivet-Ø - Alumini-um, mm	Rivet-Ø - Steel, mm	I.D. of air inlet hose, mm	Weight, kg
Pistolgrip design						
HC007-R10P	10,3x36	4 000	-	-	6	0,7
HC007-HR12P	Ø-hex. 11,7x36/10x36	4 000	-	-	6	0,7
HC008-R10P	Ø 10,3x36	3 500	3	2	6	0,8
HC008-HR12P	Ø-hex. 11,7x36/10x36	3 500	3	2	6	0,8
HC012-H14B	hex. 14x25	4 500	-	-	8	1,2
Straight design						
HC010-H10B	hex. 10x25	9 000	-	-	6	1,0
Fist grip design with retainer spring						
HC080-R20V	Ø 20x60	1 400	-	-	13	7,8
HC080-HR20V	Ø-hex. 20/17x60	1 400	-	-	13	7,8
Fist grip design, with cap						
HC040-H19B	hex. 19x50	2 700	-	-	13	4,0
HC040-R20B	Ø 20x60	2 700	-	-	13	4,0
HC040-HR20B	Ø-hex. 20/17x60	2 700	-	-	13	4,0
HC050-H19B	hex. 19x50	2 500	-	-	13	5,0
HC050-R20B	Ø 20x60	2 500	-	-	13	5,0
HC050-HR20B	Ø-hex. 20/17x60	2 500	-	-	13	5,0
HC057-H19B	hex. 19x50	2 100	-	-	13	5,7
HC057-R20B	Ø 20x60	2 100	-	-	13	5,7
HC057-HR20B	Ø-hex. 20/17x60	2 100	-	-	13	5,7



HC012-H14B



HC040-H19B



HP090-H22B

PICK AND SPADE HAMMERS



HB150-H22V

Type	Hex. Shank, mm	Impacts, 1/min	I.D. of air inlet hose, mm	Weight, kg
Fist grip design				
HP090-R25B	Ø 25x75	1 590	16	9,0
HP090-H22B	kk. 22x82	1 590	16	9,0
HP100-H22B	kk. 22x82	1 590	16	9,0
HP100-R25V	Ø 25x75	2 040	16	10,0
HP101-R25B	Ø 25x75	1 200	16	10,3
HP101-R25D	Ø 25x75	1 200	16	10,3
HP120-R25V	Ø 25x75	1 260	16	12,0
HP130-R25B	Ø 25x75	1 260	16	13,0
T-handle				
HB150-H22V	kk. 22x82	1 590	16	15,0
HB200-H25V	kk. 25x108	1 200	16-20	20,0
HB250-H25V	kk. 25x108	1 440	16-20	25,0
HB042-MK2B	kk. 32x160	1 320	16	30,0

DEPRAG

Special tools



HR025-R40B

IMPACT HAMMERS WITH MORSE TAPER

For the forming of loose materials, especially in foundries and wherever bulk materials need to be compacted.

Type	Impacts, min-1	Piston stroke, mm	Piston-Ø, mm	Morse taper	I.D. of air inlet hose, mm	Weight, kg
HR025-R40B	1 200	80	20	-	10	2,5
HR085-R60V	870	220	32	2	13	8,5
HR105-R60V	780	140	36	2	13	10,5
HR025-MK2B	850	120	28	2	13	4,2
HR069-MK2B	870	120	28	2	13	6,9
HR093-MK2B	870	160	32	2	13	9,3



SN23



SN10



SN30

NEEDLE SCALERS

Air needle scalers are high-quality, robust tools for cleaning welding seams, removal of rust from steel structure and, removal of paint etc. The needles shape to the surface so the surface doesn't have to be even. Non-sparking needles up on request. Straight and pistolgrip design are available.

Type	Number of needles	Size of nee-dles, mm	Impacts, 1/min	I.D. of air inlet hose, mm	Weight, kg
SN23 (straight design)	12	Ø 3x180	4 000	10	2,4
SN10	29	Ø 2x150	4 000	10	1,4
SN25	23	Ø 3x180	4 000	10	2,7
SN30	28	Ø 3x180	4 500	10	3,5

PLIERS

DEPRAG pliers are suitable for cutting wires made of copper, aluminium, plastic or steel (400N/mm²). They are also suitable for mounting different kind of clamps. Slender size and light weight make working easier.
A wide range of inserts are available. Please see next page for more information.



P0383X-C00



P0453X-C00



P1361-C00



P1362Z-C00

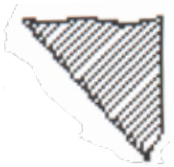


P0452Z-C00

Type	Without inserts, see next page	Weight, kg	I.D. of air inlet hose, mm
Pliers with trigger and integrated lever-lock to avoid unintentional start			
P0181Z-C00	Without inserts	0,08	6,0
P0241Z-C00	"	0,15	6,0
P1361Z-C00	"	0,48	6,0
P1362Z-C00	"	0,59	6,0
P0452Z-C00	"	1,04	6,0
Pliers for cutting, with safety lever			
P0282X-C00	Without inserts	0,5	6,0
P0283X-C00	"	0,6	6,0
P0382X-C00	"	0,65	6,0
P0383X-C00	"	0,8	6,0
P0452X-C00	"	1,0	6,0
P0453X-C00	"	1,15	6,0

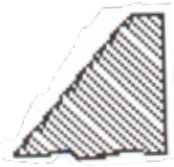
Special tools

A



Materials:

Plastics, copper, soft aluminium, small cross-sections, steel



Characteristics:

Both jaw inserts made from hardened material, upper jaw has a sharp edge, lower jaw is flat (no edge)

B



Materials:

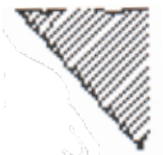
Hard, reinforced plastics, steel (limited), reinforced copper, larger cross-sections



Characteristics:

Both jaw inserts made from hardened material both jaws have an edge in V-form

C



Materials:

Hard, reinforced plastics, steel (limited), reinforced copper, larger cross-sections, for flush cuts



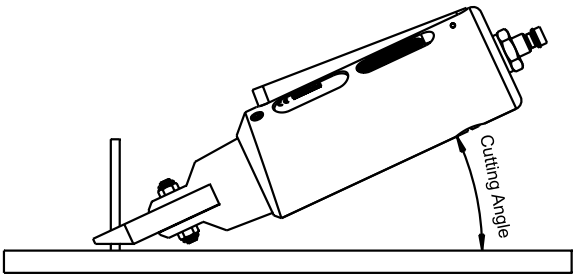
Characteristics:

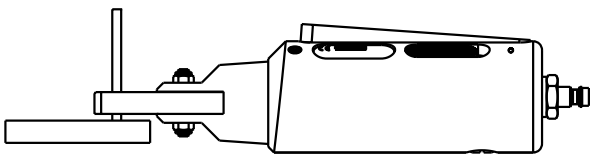
Both jaw inserts made from hardened material, both jaws have a sharp edge

JAW INSERTS FOR CUTTING

Type	Max. Inserts Opening, mm	Cutting angle *)	Cutting capacity Ø (mm)	Cutting Geometry
For type P0181Z-C00				
822306	3,2	0	3	A
6950285	3,2	0	3	B
6950286	3,2	0	3	C
6950133	3,2	25	2,8	A
6950287	3,2	25	2,8	B
6950271	3,2	25	2,8	C
For type P0241Z-C00				
807679	5	0	2	A
6950288	5	0	4,5	B
826648	5	0	4,5	C
807678	5	21	3	A
6950289	5	21	4,5	B
807809	5	21	3	C
For types P0282X-C00, P0283X-C00				
829827	9,5	0	8	A
6950290	9,5	0	8	B
6950165	9,5	0	8	C
826268	9,3	30	8	A
695291	9,3	30	8	B
829826	9,3	30	8	C
For types P1361Z-C00, P1362Z-C00				
80761	14,5	0	12	A
6950071	14,5	0	12	B
807389	14,5	0	12	C
6950073	14,5	25	12	A
6950072	14,5	25	12	B
807528	14,5	25	12	C
For types P0382X-C00, P0383X-C00				
829830	15	0	12,5	A
6950292	15	0	12,5	B
827204	15	0	12,5	C
829829	11,5	25	9	A
832172	11,5	25	9	B
827418	11,5	25	9	C
For types P0452Z-C00, P0452X-C00, P0453X-C00				
807692	10,5	0	9	A
6950214	10,5	0	9	B
6950137	10,5	0	9	C
6950159	10,5	30	9	A
6950293	10,5	30	9	B
801234	10,5	30	9	C

*) Cutting angle





DEPRAG

Special tools



P0383X-P00-190CL08



P0384X-S00-190R10



P0383X-P00-190CO

P0452X-P00-IFE



PLIERS FOR CLAMPS

Type	Width of clamp, mm	Insert opening, adjustable	Max. opening width, mm	Min. closing width, mm	Weight, kg	I.D. of air inlet hose, mm
Pliers Click-clamp						
P0383X-P00-190CL06	6	yes	20	2,5	0,75	6
P0383X-P00-190CL08	8	yes	20	2,5	0,75	6
Pliers for hose-clamp, max. 50 mm						
P0383X-S00-190R08	7,5	yes	13	0,8	0,65	6
P0384X-S00-190R10	10,0	yes	13	0,8	0,65	6
Pliers for hose-clamp, 50 - 100 mm						
P0451X-S00-190R	-	yes	12	0,8	1,0	6
P0452X-S00-190R	-	yes	12	0,8	1,2	6
Pliers for cobra-clamp						
P0383X-P00-190CO	9	yes	23	6,5	0,6	6
Pliers for spring-clamp, max. 50 mm						
P0383X-P00-IFE	-	yes	62	5	0,75	6
Pliers for spring-clamp, 50 - 100mm						
P0452X-P00-IFE	-	yes	70	5	0,75	6

Clamps	Clic-clamp	Hose-clamp	Cobra-clamps	Spring-clamp
				

PPP35AX



SAWS

Pneumatic saw is ideal for applications where it has to be started frequently. They doesn't produce exhaust fumes and noise is clearly lower than with regular saws. The unit is ideal for indoor as well as humid areas and even working underwater. The air saws can also be used in explosions hazardous environments.

Type	Power, kW	Stroke speed (no load), min^{-1}	Stroke of saw blade, mm	Max. length of saw blade, mm	Max. dimensions of cutting material, mm	I.D. of air inlet hose, mm	Weight, kg
Air jig saw for metal and plastic							
PPP35AX	1,1	380	68	350	300x27x1,6	19	9,0
Air jig saw for explosions hazardous environments							
SS150-280BX	1,5	280	68	400	300x27x1,6	19	10,8

SH150-180BX



Type	Power, kW	Speed (no load), min^{-1}	Max. length of chain bar, mm	Max. cutting diameter, mm	I.D. of air inlet hose, mm	Weight, kg
Chain saw, ATEX-compliant						
SH150-180BX	1,5	18 000	350	340	19	7,6

S16-320Y





METAL SHEARS

Metal shears are robust and light weight. Smallest cutting radius is 15 mm so the shears are well-suited for curved cutting job of sheet-metal or non-ferrous plates.

Type	Power, kW	Max. metal thickness, mm				Smallest cutting radius, mm	I.D. of air inlet hose, mm	Weight, kg
		Sheet metal, 400 N/mm^2	Sheet metal, 600 N/mm^2	Sheet metal, 800 N/mm^2	Alumini-um, 250 N/mm^2			
Handheld								
S16-320Y	0,32	1,6	1,2	1,0	2,0	15	6	1,6
S20-180Y	0,32	2,0	1,6	1,4	2,5	20	6	1,90

AIR FILES

DEPRAG low-vibration and light file is steady during operation. The ergonomic handle assures a low fatigue but powerful operation. The machines are delivered with an assortment of different files.

FS905-630BY



Type	Stroke speed, 1/min	Stroke length, mm	File shank size, mm	I.D. of air inlet hose, mm	Weight, kg
FS404-900BU	9 000	4	3	6	0,4
FS905-630BY	6 300	9	5	6	0,5
FS911-370BU	3 700	9	6,5	6	1,1

RAD TORQUE WRENCHES

RAD torque wrenches, manufactured in Canada, provide fast and reliable bolt tightening and loosening. RAD products have proven to be successful all over the world in industries such as oil & gas, petrochemical, mining, aerospace, power generation, and manufacturing. Planetary gear driven wrenches, as opposed to conventional torque tools, have the advantage of continuous rotation while applying controlled torque. This makes them much faster than conventional hydraulic wrenches and with their pistol grip they are safer and more ergonomic. Torque wrenches are available as pneumatic, battery and electric-powered covering a torque range of 35 up to 15.000 Nm. All RAD torque wrenches come with a standard reaction arm. This arm is designed for the most common applications. All wrenches rotate both ways.



RAD battery series



B RAD SELECT BL 2000-2

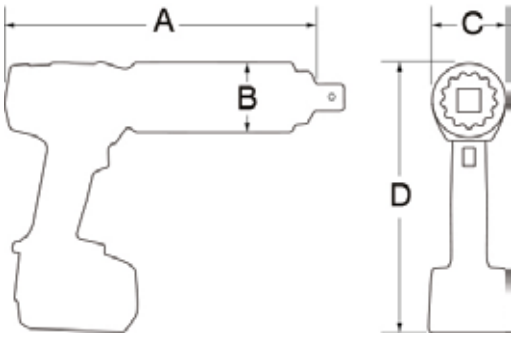




B-RAD SELECT BL

The B-RAD Select BL brushless battery torque wrenches come with two simple buttons to increase or decrease the value by 10 Nm. Tool releases the reaction arm when the desired torque is achieved. Accuracy of ± 5 % and extremely low noise level – only 65 dB. Low battery warning to prevent torque output reduction.

Model	Square drive	Torque range, Nm		Speed, RPM	Weight, Kg	Dimensions, mm			
		Min.	Max.			A	B	C	D
B-RAD SELECT BL 275	¾" or ½"	50	270	47	3,2	228	63	68	262
B-RAD SELECT BL 700	¾"	175	700	21	3,2	231	63	67	262
B-RAD SELECT BL 1400	¾"	300	1 400	10	3,5	231	63	67	262
B-RAD SELECT BL 1400-2	¾"	300	1 400	71	3,5	279	63	67	262
B-RAD SELECT BL 2000	1"	400	2000	6	4,3	244	69	69	262
B-RAD SELECT BL 2000-2	1"	400	2 000	19	4,9	298	69	69	262
B-RAD SELECT BL 4000	1"	815	4 000	3	6,0	285	81	81	266
B-RAD SELECT BL 4000-2	1"	815	4 000	19	6,7	337	81	81	266
B-RAD SELECT BL 7000	1,5"	1 400	7 000	2	8,8	295	95	95	272



DIGITAL DB-RAD PLUS

The Digital B-RAD PLUS series torque wrenches are ideal for applications where compressed air or electricity are not available. The DB-RAD PLUS is RAD's most accurate battery torque wrench with torque settings of 1 Nm. Preset torque settings can be programmed.

Model	Square drive	Torque range, Nm		Speed, RPM	Weight, Kg	Dimensions, mm			
		Min.	Max.			A	B	C	D
DB-RAD PLUS 700-2	¾"	70	700	39	5,0	324	63	76	279
DB-RAD PLUS 1400-2	¾"	140	1 400	18	5,2	330	63	76	279
DB-RAD PLUS 2000-2	1"	200	2 000	17	5,3	349	56	76	279
DB-RAD PLUS 4000-2	1"	400	4 000	13	6,8	398	81	81	279

RAD pneumatic series



RAD DX

RAD SINGLE SPEED

RAD GX-series include tool for heavy duty applications! Because of the best power-to-weight ratio, great accuracy (± 4 %) and excellent reliability it is the right choice for variety of industries. RAD pneumatic series has wide torque range up to 15 000 Nm, so one tool can be used in multiple applications. All RAD pneumatic tools include reaction arm, 3,6 meter hose and a FRL unit (pressure gauge, filter, regulator and oiler) with toolholder. Torque can be set steplessly with pressure regulator. RAD pneumatic torque wrenches are optionally available with ATEX certification. Noise level is only 80 dB.

Model	Square drive	Torque range, Nm		Speed, RPM	Weight, Kg	Dimensions, mm			
		Min.	Max.			A	B	C	D
100 SL	¾" or ½"	35	100	275	2,1	161	60	69	222
275 SL	¾"	50	275	90	2,2	167	60	69	222
475 SL	¾"	70	475	65	2,4	167	60	69	222
10 GX	¾"	150	950	30	3,4	228	63	69	228
14 GX	¾"	275	1 350	20	3,6	228	63	69	228
20 DX	1"	400	2 000	9	3,9	203	69	69	205
34 GX	1"	700	3 400	9	6,1	246	77	83	241
40 DX	1"	1 200	4 000	8	6,6	230	86	83	264
46 GX	1"	1 400	4 600	12	9,0	325	86	93	264
70 DX	1½"	2 000	7 000	8	10,7	285	92	93	264
80 DX	1½"	2 700	8 000	7	12,5	348	101	101	277
110 DX	1½"	3 400	10 800	4	13,8	431	114	114	279
150 DX	1½"	5 400	15 000	3	19,1	353	127	127	281



RAD Pneumatic tools include toolholder, pressure gauge, filter, regulator and oiler.

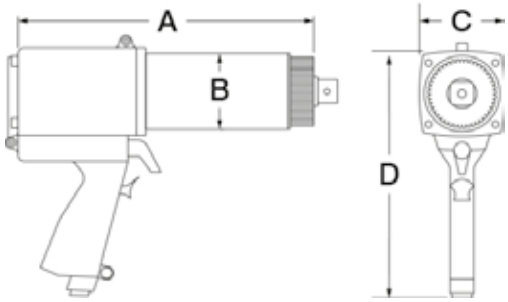
RAD TWO SPEED

Technical characteristics are similar to RAD Single Speed, but Two Speed models are equipped with automatic gearbox design, eliminating the time consuming switch between high and low speed gear. The slower gear comes into use automatically when the need for power is increasing. Controlled bolting accuracy of ±4 % and repeatability of ±2 %.

Model	Square drive	Torque range, Nm		Speed, RPM	Weight, Kg	Dimensions, mm			
		Min.	Max.			A	B	C	D
475 SL-2	¾"	150	475	300	3,7	228	60	69	222
14 GX-2	¾"	450	1 350	85	4,5	262	63	69	205
20 DX-2	1"	700	2 000	50	4,8	250	69	69	205
40 DX-2	1"	1 400	4 000	49	7,3	309	81	83	241



RAD 20 NDX-R Wheel Nut Bolting



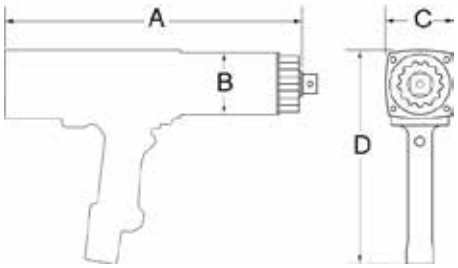
RAD WHEEL NUT BOLTING

The RAD wheel nut bolting series were designed with one job in mind: wheel nut bolting where torque control is a must. RAD planetary gear torque wrenches are vibration free and have the accuracy to prevent accidentally under – and over tightening. The fixed nose extensions are ideal for reaching wheel nut studs that are recessed and where tool clearance is a problem. Accuracy of ±4 %.

Model	Square drive	Torque range, Nm		Speed, RPM	Weight, Kg	Noise dB	Dimensions, mm			
		Min.	Max.				A	B	C	D
10 GX-R	¾"	400	950	115	5,4	80	368	63	69	228
20 NDX-R	1"	400	2 000	10	7,3	80	542	69	70	204
2400 NGX-R	1"	700	2 450	10	12,4	85	546	76	83	241

RAD electronic series





E-RAD BLU ELECTRONIC SERIES

E-RAD BLU series precision torque wrench tools are designed to provide a high accuracy of +/- 3% for high torque assembly applications. This advanced electronic pistol grip torque wrench combines the legendary RAD gearbox design and AC Servo motor technology to reduce bolting time up to 300% as compared to conventional hydraulic wrenches. Build and designed for heavy duty industrial usage. Noise level only 75 dB.

Model	Square drive	Torque range, Nm		Speed, RPM	Weight, Kg	Dimensions, mm			
		Min.	Max.			A	B	C	D
E-RAD BLU 950	¾"	135	950	30	5,4	340	65	78	245
E-RAD BLU 2000	1"	270	2 000	9	5,9	337	69	76	288
E-RAD BLU 3400	1"	340	3 400	10	8,1	380	70	78	254
E-RAD BLU 3400-90°	1"	340	3 400	11	8,3	210	76	78	245
E-RAD BLU 4000	1"	675	4 050	8	10,6	430	83	88	260
E-RAD BLU 4000	1½"	675	4 500	8	10,6	430	83	88	260
E-RAD BLU 8000	1½"	1 385	8 100	4	13,0	430	100	100	260
E-RAD BLU 10K	1½"	2 034	10 000	2	15,0	430	105	105	265
E-RAD BLU 15K	1½"	4 050	15 000	2	20,1	466	127	127	273

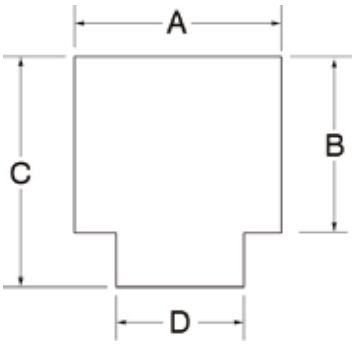
RAD equipment

RAD SMART SOCKET™

RAD Smart Socket™ is a revolutionary socket for measuring torque directly on the bolt. Smart Socket™ is no larger than standard socket. The moment range is up to 16 200 Nm and accuracy of ±1 %. The socket can also be used for calibration.

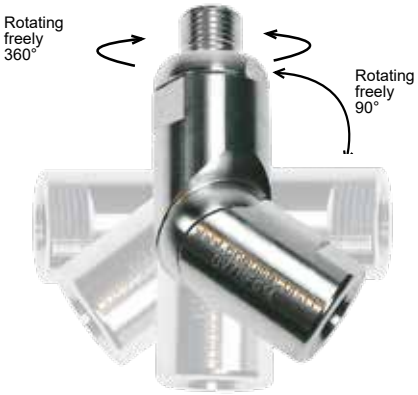
- Measures and displays peak torque
- Built-in rechargeable li-ion battery
- Data logging – download logs (XLS, CSV, PDF)
- Preinstalled tablet and weatherproof storage case is included

Model	Square drive	Torque range, Nm		Weight, Kg	Dimensions, mm			
		Min.	Max.		A	B	C	D
Smart Socket™ 29 mm	¾"	200	2 034	-	-	-	-	-
Smart Socket™ 33 mm	¾"	200	2 034	1,2	72	42	70	100
Smart Socket™ 36 mm	1"	200	2 034	1,2	72	54	65	100
Smart Socket™ 41 mm	1"	200	2 034	1,2	72	54	65	87
Smart Socket™ 46 mm	1"	200	2 034	1,2	72	54	65	87
Smart Socket™ 50 mm	1"	400	4 050	1,4	86	54	69	89
Smart Socket™ 55 mm	1"	400	4 050	1,5	86	54	69	89
Smart Socket™ 60 mm	1"	400	4 050	1,5	86	54	69	89
Smart Socket™ 65 mm	1½"	1 100	10 800	4,0	115	87	90	121
Smart Socket™ 70 mm	1½"	1 100	10 800	4,0	115	87	90	121
Smart Socket™ 80 mm	1½"	1 100	10 800	4,0	115	87	90	121
Smart Socket™ 90 mm	1½"	1 100	16 200	5,8	131	99	99	115
Smart Socket™ 100 mm	1½"	1 100	16 200	7,2	146	99	99	120





DYNA VARIACOR SWIVEL CONNECTIONS



French-based DynaVariacor produces Variacor swivel joint connectors for several different industrial applications. They are greatly suitable to be used with for example pneumatic hoses and tools to bring more mobility and flexibility to the connection. Variacor® connectors are internationally patented.

Variacor swivel connections



SWIVEL CONNECTIONS FOR COMPRESSED AIR

The Joint Swivel Connection is a brilliant multi-directional connection that rotates in all directions. The Joint Swivel connection makes working easier in narrow spaces as pipes and hoses remain straight.

- Maximum working pressure: 10 bar
- Operating temperature: -10 - +70 °C



Model	Thread	Diameter, mm	Length, mm	Max. flow, l/s	Weight, g
DV7MFG14	1/4” male/female	24,0	67,0	12	79,0
DV11MFG38	3/8” male/female	29,5	82,0	30	126,0
DV11MFG12	1/2” male/female	29,5	82,0	30	132,0
DV15MIXFB12	1/2” male/female	39,0	98,0	45	300,0
DV16MFG34	3/4" male/female	46,0	98,0	52	374,0
DV16MFG1	1" male/female	46,0	98,0	52	358,0

SWIVEL CONNECTIONS FOR LIQUID

Variacor® -connections can be used for non-explosive liquids.



Model	Thread	Material	Orifice, mm	Max. working pressure, bar
DV6MFB14HPIXEM	1/4” male/female	AISI 303	6,0	250
DV6MFB38HPIXEM	3/8” male/female	AISI 303	6,0	250
DV11MFB12A	1/2” male/female	Aluminum	11,0	25
DV11MFB38IX	3/8” male/female	AISI 303	11,0	25
DV11MFB12X	1/2” male/female	AISI 303	11,0	25
DV15MFB34X	3/4″ male/female	AISI 303	15,0	25
DV25MFB1IX	1″ male/female	AISI 303	25,0	25

SCHMIDT PRESSES

SCHMIDT Technology is a German family led, medium sized enterprise at the highest technological level. SCHMIDT Technology started their business 80 years ago developing pens. Nowadays their business is divided into three main product ranges: Writing instruments, sensors and presses, of which Pneumacon Oy imports presses. The safety and quality of SCHMIDT Technology products make them unique on the global market and thus sought after for decades.

Presses manufactured by German Schmidt Technology represent the top of the world in terms of quality and safety. Schmidt product range includes manual presses, pneumatic and hydro-pneumatic presses, electric presses and servo-presses. Presses are delivered either as single components for automation lines or as self-standing workstations which can be highly tailored to meet the demands of the customer.



Manual Press



Pneumatic press

Presses



Servo press

MANUAL PRESSES

Maintenance-free presses for assemblies. With small production runs, manual presses are often the most cost effective solutions. Pressing force from 1,6 to 2,5 kN.

MANUAL PRESSES WITH TOGGLE

Presses with toggle are recommended for applications when the material needs to be shaped, for example for riveting, punching or marking. The biggest force is achieved at the very end of the stroke. Maximum force is from 2,5 to 22 kN.

PNEUMATIC PRESSES

Versatile adjustable pneumatic presses can be used in single applications, semi-automated assembly systems or integrated into automated production lines. Maximum pressing capacities are from 1,6 to 43 kN (direct acting) or from 15 to 60 kN (toggle).

HYDROPNEUMATIC PRESSES

Hydropneumatic presses are ideal for applications where most of the power is needed at the end of the stroke. Piston approach is powered pneumatically. Hydraulic force finishes the stroke. Pressing force range is 15 – 220 kN.



ServoPress -wokring station

ELECTRIC PRESSES

To use electric drives instead of pneumatic or hydropneumatic driven cylinders, is a modern advancement in assembly technology. In addition to high efficiency they are extremely quiet (60 dB) and fast to deploy as easy programming of parameters reduces set-up time. Maximum pressing force is 10kN.

SERVO PRESSES

Versatile programmable servo presses are the right choice for the most demanding applications, for example pressing Press Fit components.

- Intelligent compensation due to calculation of individual tolerances of the parts
- Positioning Accuracy 0,01mm
- Pressing force from 15 N to 0,8 – 250 kN

SCARP´AIR PNEUMATIC HAMMERS

Scrap'Air is a product line of a French company called MABI. Scrap'Air includes a wide selection of pneumatic hammers and chisels. In 2010, the company registered a patent for a new anti-vibration hammer kit. The new invention reduces vibrations up to 60%.



Anti-vibration hammers



ANTI-VIBRATION HAMMERS

SCRAP´AIR® manufactures high-quality pneumatic hammers for removal and demolition. Pneumatic hammers have patented anti-vibration system. The hammers are available in four different sizes and all of them are delivered in a handy-box containing: 8 cm delta knife, 4 cm chisel, in-line oiler, oil can and protection kit. Assortment of chisels, knives and spades are also available.

Model	Frequence, min	Air consumption, l/min	Lenght, mm	Weight, g
SCRAP´AIR 24	4 750	210	520	4,2
SCRAP´AIR 36	3 500	250	520	4,3
SCRAP´AIR 38	2 950	280	1 200	6,0
SCRAP´AIR 55	2 250	300	1 200	6,2







CHISELS AND TOOLS

1-2	Pointed chisel
3-6	Chisel, 25 – 80 mm
7-11	Chisel, 80 – 150 mm
12	Carpet knife, replaceable blade
13-14	Tools for stone
15	Removing of bituminous ground
16	Spade 55-size hammer
17-20	Puncture chisel

In addition to the products in the tool catalogue, our product range includes the following products:

CEJN	**CEJN**	Pneumatics and hydraulics
DEPRAG	**DEPRAG**	Air motors
Stucchi	**STUCCHI**	Hydraulic couplings
GAST	**GAST**	Compressors, vacuum pumps and air motors
JUN-AIR	**JUN-AIR**	Compressors
KNOCKS	**KNOCKS**	Compressed air and filtration technologies
THOMAS A Gardner Denver Product	**THOMAS**	Vacuum pumps and oil-less pumps
ALLEGRO INDUSTRIES	**ALLEGRO**	Venturi blowers

Pneumacon

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