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и решений по автоматизации сборочных операций.

DEPRAG

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Complete Product Line

DEPRAG



Screwdriving technology



Automation



Air motors



Air tools

It all started
more than 75 years ago:
Air Tools
made in Amberg



The name DEPRAG was established by using the first letters of the original company name.



**With the best ideas, tools and machines we offer
economical solutions for all industries**

- **Quality**
- **Performance**
- **Durability**
- **Service**
- **Consultation**

**Handheld Screwdrivers and
Stationary Screwdriver Spindles**

Feeders

Measuring Technology

Screwdriving- and Assembly Systems

Air Motors



Handheld Screwdrivers with automatic clutch

DEPRAG-MICROMAT-/MINIMAT-Screwdrivers

Type	Order No.	Drive	Screws	min. Nm	Torque max. soft pull-up Nm	max. hard pull-up Nm	Speed, idling rpm	Weight kilos
straight, right rotation, push-to-start (hex. female)								
345-308	33 92 67 A	3 mm	M 3	0.02	0.5	0.6	1600	0.15
345-408	34 57 63 A	3 mm	M 3	0.02	0.55	0.55	1100	0.15
345-708	38 51 62 A	3 mm	M 3	0.02	0.7	0.7	600	0.16
345-508	33 92 68 A	3 mm	M 3	0.02	0.7	0.7	350	0.16
straight, reversible, push-to-start (hex. female)								
345-308 U	33 92 69 A	3 mm	M 3	0.02	0.4	0.5	1300	0.17
345-408 U	34 57 64 A	3 mm	M 3	0.02	0.5	0.5	950	0.17
345-708 U	38 51 63 B	3 mm	M 3	0.02	0.7	0.7	480	0.18
345-508 U	33 92 70 A	3 mm	M 3	0.02	0.7	0.7	300	0.18
347-218 U	39 70 60 A	1/4"	M 3	0.3	1	1	1900	0.40
347-318 U	39 70 60 B	1/4"	M 3	0.3	1.4	1.4	1300	0.40
347-518 U	39 70 60 C	1/4"	M 3	0.2	2	2	900	0.40
347-618 U	39 70 60 D	1/4"	M 3	0.2	2	2	600	0.43
347-228 U	38 63 63 A	1/4"	M 4	0.5	1.3	1.8	3000	0.68
347-728 U	38 63 63 E	1/4"	M 4	0.4	1.8	2.0	1600	0.69
347-328 U	38 63 63 B	1/4"	M 4	0.4	2.4	2.8	1100	0.69
347-428 U	38 63 63 D	1/4"	M 4	0.4	3.5	4	750	0.69
347-528 U	38 63 63 C	1/4"	M 5	0.3	5	5	500	0.69
345-7258 U	35 15 68 A	1/4"	M 5	1	5	6	1100	0.90
345-3258 U	35 15 68 B	1/4"	M 6	1	10	10	640	0.90
345-4258 U	35 15 68 C	1/4"	M 6	1	12	12	310	0.90
346-238 U	39 61 88 B	1/4"	M 5	2	4.5	5.5	2300	1.31
346-738 U	39 61 88 C	1/4"	M 6	2	7	8	1200	1.45
346-338 U	39 61 88 D	1/4"	M 6	2	12	12	650	1.45
346-438 U	39 61 88 E	1/4"	M 8	2	20	20	320	1.45
straight, reversible, lever-start (hex. female)								
347-221 U	38 63 64 A	1/4"	M 4	0.5	1.3	1.8	3000	0.68
347-721 U	38 63 64 E	1/4"	M 4	0.4	1.8	2.0	1600	0.69
347-321 U	38 63 64 B	1/4"	M 4	0.4	2.4	2.8	1100	0.69
347-421 U	38 63 64 D	1/4"	M 4	0.4	3.5	4	750	0.69
347-521 U	38 63 64 C	1/4"	M 5	0.3	5	5	500	0.69
345-7251 U	38 43 54 A	1/4"	M 5	1	5	6	1100	0.9
345-3251 U	38 43 54 B	1/4"	M 6	1	10	10	640	0.9
345-4251 U	38 43 54 C	1/4"	M 6	1	12	12	310	0.9
346-731 U	39 86 84 C	1/4"	M 6	2	7	8	1200	1.45
346-331 U	39 86 84 D	1/4"	M 6	2	12	12	650	1.45
346-431 U	39 86 84 E	1/4"	M 8	2	20	20	320	1.45

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



345-308 U
to
345-508 U



347-218 U
to
347-618 U

347-228 U
to
347-528 U

345-7258 U
to
345-4258 U

346-238 U
to
346-438 U

Handheld Screwdrivers with automatic clutch

DEPRAG

DEPRAG-MICROMAT-/MINIMAT-Screwdrivers

Type	Order No.	Drive	Screws	Torque			Speed, idling rpm	Weight kilos
				min. Nm	max. soft pull-up Nm	max. hard pull-up Nm		
pistol grip, lower air-inlet, reversible, trigger-start (hex. female)								
347-227 U	39 45 69 A	1/4"	M 3	0.5	1.3	1.5	3000	0.75
347-327 U	39 45 69 B	1/4"	M 4	0.4	3	3.2	1100	0.75
347-427 U	39 45 69 D	1/4"	M 4	0.4	3.5	4	750	0.75
347-527 U	39 45 69 C	1/4"	M 5	0.3	5	5	500	0.75
346-7257 U	41 27 99 A	1/4"	M 5	1	5	6	1025	1.2
346-3257 U	41 27 99 B	1/4"	M 6	1	10	10	525	1.2
346-4257 U	41 27 99 C	1/4"	M 6	1	12	12	270	1.2
346-237 U	40 03 73 B	1/4"	M 5	2	4.5	5.5	2300	1.6
346-737 U	40 03 73 C	1/4"	M 6	2	7	8	1200	1.7
346-337 U	40 03 73 D	1/4"	M 6	2	12	12	650	1.7
346-437 U	40 03 73 E	1/4"	M 8	2	20	20	320	1.7
pistol grip, upper air-inlet, reversible, trigger-start (hex. female)								
347-227 OU	37 28 19 A	1/4"	M 3	0.5	1.3	1.5	3000	0.75
347-327 OU	37 28 19 B	1/4"	M 4	0.4	3	3.2	1100	0.75
347-427 OU	37 28 19 D	1/4"	M 4	0.4	3.5	4	750	0.75
347-527 OU	37 28 19 C	1/4"	M 5	0.3	5	5	500	0.75
pistol grip, upper air-inlet, reversible, push-to-start (hex. female)								
347-229 U	39 45 73 A	1/4"	M 3	0.5	1.3	1.5	3000	0.75
347-329 U	39 45 73 B	1/4"	M 4	0.4	3	3.2	1100	0.75
347-429 U	39 45 73 D	1/4"	M 4	0.4	3.5	4	750	0.75
347-529 U	39 45 73 C	1/4"	M 5	0.3	5	5	500	0.75
345-7259 U	39 08 54 A	1/4"	M 5	1	5	6	1025	1.2
345-3259 U	39 08 54 B	1/4"	M 6	1	10	10	525	1.2
345-4259 U	39 08 54 C	1/4"	M 6	1	12	12	270	1.2
346-239 U	41 14 47 B	1/4"	M 5	2	4.5	5.5	2300	1.6
346-739 U	41 14 47 C	1/4"	M 6	2	7	8	1200	1.7
346-339 U	41 14 47 D	1/4"	M 6	2	12	12	650	1.7
346-439 U	41 14 47 E	1/4"	M 8	2	20	20	320	1.7
pistol grip, upper air-inlet, reversible, push-to-start (hex. female)								
347-229 OU	39 45 74 A	1/4"	M 3	0.5	1.3	1.5	3000	0.75
347-329 OU	39 45 74 B	1/4"	M 4	0.4	3	3.2	1100	0.75
347-429 OU	39 45 74 D	1/4"	M 4	0.4	3.5	4	750	0.75
347-529 OU	39 45 74 C	1/4"	M 5	0.3	5	5	500	0.75
pistol grip, lower air-inlet, upper air-inlet or rear air-inlet, reversible, trigger-start (hex. female)								
344-347 U	40 03 20 D	1/4"	M5	3.5	6.5	8.5	2400	1.7
344-447 U	40 03 20 E	1/4"	M6	3.5	8	10	1700	1.7
pistol grip, lower air-inlet, upper air-inlet or rear air-inlet, reversible, push-to-start (hex. female)								
344-349 U	41 14 48 D	1/4"	M5	3.5	6.5	8.5	2400	1.7
344-449 U	41 14 48 E	1/4"	M6	3.5	8	10	1700	1.7

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



347-227 OU
to
347-527 OU



346-7257 U
to
346-4257 U



346-237U
to
346-437 U

Handheld Screwdrivers with automatic clutch

DEPRAG-MINIMAT-Screwdrivers

Type	Order No.	Drive	Screws	Torque		Speed, idling	Weight
				min.	max.		
				Nm	Nm		
angle-head, reversible, lever-start (square male)							
377-321 U	38 65 30 B	1/4"	M 4	0.4	3.5	780	0.85
377-321 U-E10	39 08 87 B	3/8"	M 4	0.4	3.5	780	0.85
377-421 U	38 65 30 D	1/4"	M 5	0.4	4.5	500	0.85
377-421 U-E10	39 08 87 D	3/8"	M 5	0.4	4.5	500	0.85
377-521 U	38 65 30 C	1/4"	M 5	0.3	6.5	350	0.85
377-521 U-E10	39 08 87 C	3/8"	M 5	0.3	6.5	350	0.85
376-7251 U	37 83 85 A	1/4"	M 6	1.5	8	810	1.2
376-7251 U-E10	38 26 87 A	3/8"	M 6	1.5	8	810	1.2
376-3251 U	37 83 85 B	1/4"	M 6	1.5	15	410	1.2
376-3251 U-E10	38 26 87 B	3/8"	M 6	1.5	15	410	1.2
377-731 U-E12.5	39 60 37 C	1/2"	M 6	4	11	700	2
377-331 U-E12.5	39 60 37 D	1/2"	M 8	4	20	350	2
377-431 U-E12.5	39 60 37 E	1/2"	M 10	4	35	180	2
377-731 U-E10	40 06 11 C	3/8"	M 6	4	10	730	1.9
377-331 U-E10	40 06 11 D	3/8"	M 8	4	19	365	1.9
377-431 U-E10	40 06 11 E	3/8"	M 10	4	33	190	1.9
377-941 U-E12.5	37 91 00 B	1/2"	M 10	7	32	410	2.3
377-741 U-E12.5	37 91 00 C	1/2"	M 10	7	46	270	2.3
377-841 U-E12.5	37 91 00 D	1/2"	M 12	7	65	185	2.3
377-941 U-E10	40 06 38 B	3/8"	M 10	7	30	430	2.2
377-741 U-E10	40 06 38 C	3/8"	M 10	7	44	285	2.2
angle-head, reversible, lever-start (hex. female, non-magnetic)							
377-321 U-D	39 08 83 B	1/4"	M 4	0.4	3.5	780	0.85
377-421 U-D	39 08 83 D	1/4"	M 5	0.4	4.5	500	0.85
377-521 U-D	39 08 83 C	1/4"	M 5	0.3	6.5	350	0.85
376-7251 U-D	38 26 83 A	1/4"	M 6	1.5	8	810	1.2
376-3251 U-D	38 26 83 B	1/4"	M 6	1.5	15	410	1.2
angle-head, reversible, lever-start (hex. female, magnetic)							
377-321 U-DM	39 08 84 B	1/4"	M 4	0.4	3.5	780	0.85
377-421 U-DM	39 08 84 D	1/4"	M 5	0.4	4.5	500	0.85
377-521 U-DM	39 08 84 C	1/4"	M 5	0.3	6.5	350	0.85
376-7251 U-DM	38 26 84 A	1/4"	M 6	1.5	8	810	1.2
376-3251 U-DM	38 26 84 B	1/4"	M 6	1.5	15	410	1.2
angle-head, reversible, lever-start (hex. female, with quick change chuck)							
377-321 U-F	39 08 85 B	1/4"	M 4	0.4	3.5	780	0.85
377-421 U-F	39 08 85 D	1/4"	M 5	0.4	4.5	500	0.85
377-521 U-F	39 08 85 C	1/4"	M 5	0.3	6.5	350	0.85
376-7251 U-F	38 26 85 A	1/4"	M 6	1.5	8	810	1.2
376-3251 U-F	38 26 85 B	1/4"	M 6	1.5	15	410	1.2

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



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



376-7251 U
376-3251 U



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



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

Handheld Screwdrivers with automatic clutch

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DEPRAG-MINIMAT-Screwdrivers

Type	Order No.	Drive	Screws	Torque		Speed, idling rpm	Weight kilos
				min.	max.		
				Nm	Nm		
angle-head, reversible, lever-start (hex. female, with quick change chuck and spring-sleeve)							
377-321 U-FH	39 08 86 B	1/4"	M 4	0.4	3.5	780	0.85
377-421 U-FH	39 08 86 D	1/4"	M 5	0.4	4.5	500	0.85
377-521 U-FH	39 08 86 C	1/4"	M 5	0.3	6.5	350	0.85
376-7251 U-FH	38 26 86 A	1/4"	M 6	1.5	8	810	1.2
376-3251 U-FH	38 26 86 B	1/4"	M 6	1.5	15	410	1.2
angle-head, reversible, lever-start (integrated socket with hex. female drive)							
377-321 U-SW 6	39 09 25/1B	AF6	M 4	0.4	3.5	780	0.85
377-321 U-SW 8	39 09 25/2B	AF8	M 4	0.4	3.5	780	0.85
377-321 U-SW 10	39 09 25/3B	AF10	M 4	0.4	3.5	780	0.85
377-321 U-SW 13	39 09 25/4B	AF13	M 4	0.4	3.5	780	0.85
377-421 U-SW 6	39 09 25/1D	AF6	M 5	0.4	4.5	500	0.85
377-421 U-SW 8	39 09 25/2D	AF8	M 5	0.4	4.5	500	0.85
377-421 U-SW 10	39 09 25/3D	AF10	M 5	0.4	4.5	500	0.85
377-421 U-SW 13	39 09 25/4D	AF13	M 5	0.4	4.5	500	0.85
377-521 U-SW 6	39 09 25/1C	AF6	M 5	0.3	6.5	350	0.85
377-521 U-SW 8	39 09 25/2C	AF8	M 5	0.3	6.5	350	0.85
377-521 U-SW 10	39 09 25/3C	AF10	M 5	0.3	6.5	350	0.85
377-521 U-SW 13	39 09 25/4C	AF13	M 5	0.3	6.5	350	0.85
376-7251U-SW6	38 61 39/1A	AF6	M 6	1.5	8	810	1.2
376-7251U-SW8	38 61 39/2A	AF8	M 6	1.5	8	810	1.2
376-7251U-SW10	38 61 39/3A	AF10	M 6	1.5	8	810	1.2
376-7251U-SW13	38 61 39/4A	AF13	M 6	1.5	8	810	1.2
376-3251U-SW6	38 61 39/1B	AF6	M 6	1.5	15	410	1.2
376-3251U-SW8	38 61 39/2B	AF8	M 6	1.5	15	410	1.2
376-3251U-SW10	38 61 39/3B	AF10	M 6	1.5	15	410	1.2
376-3251U-SW13	38 61 39/4B	AF13	M 6	1.5	15	410	1.2

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



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



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

Handheld Screwdrivers with automatic clutch

DEPRAG-MICROMAT-/MINIMAT-ESD-Screwdrivers

Type	Order No.	Drive	Screws	Torque			Speed, idling	Weight	
				min.	max.	max.			
				Nm	soft pull-up Nm	hard pull-up Nm			
rpm									kilos
straight, reversible, push-to-start (hex. female)									
345-308 U ESD	37 68 46 A	3 mm	M 3	0.02	0.4	0.5	1300	0.17	
345-408 U ESD	37 68 46 B	3 mm	M 3	0.02	0.5	0.5	950	0.17	
345-708 U ESD	38 51 64 A	3 mm	M 3	0.02	0.7	0.7	480	0.18	
345-508 U ESD	37 68 46 C	3 mm	M 3	0.02	0.7	0.7	300	0.18	
347-218 U ESD	40 33 45 A	1/4"	M 3	0.3	1	1	1900	0.40	
347-318 U ESD	40 33 45 B	1/4"	M 3	0.3	1.4	1.4	1300	0.40	
347-518 U ESD	40 33 45 C	1/4"	M 3	0.2	2	2	900	0.40	
347-618 U ESD	40 33 45 D	1/4"	M 3	0.2	2	2	600	0.43	
347-228 U ESD	39 24 76 A	1/4"	M 4	0.5	1.3	1.8	3000	0.68	
347-328 U ESD	39 24 76 B	1/4"	M 4	0.4	2.4	2.8	1100	0.69	
347-428 U ESD	39 24 76 D	1/4"	M 4	0.4	3.5	4	750	0.69	
347-528 U ESD	39 24 76 C	1/4"	M 5	0.3	5	5	500	0.69	

345-308 U ESD
to
345-508 U ESD

347-218 U ESD
to
347-618 U ESD

347-228 U ESD
to
347-528 U ESD



347 S-328 U
to
347 S-528 U



347 S-327 U
to
347 S-527 U



345 T-7258 U
345 T-3258 U
345 T-4258 U



345 T-7257 U
345 T-3257 U
345 T-4257 U

DEPRAG-SENSOMAT-Screwdrivers

Type	Order No.	Drive	Screws	Seating Torque		Driving Torque max. Nm	Speed, idling rpm	Weight kilos
				min. Nm	max. Nm			
straight, reversible, push-to-start (hex. female)								
347 S-218 U	40 51 58 A	1/4"	M 3	0.3	1	1.1	1900	0.52
347 S-318 U	40 51 58 B	1/4"	M 3	0.4	1.4	1.6	1300	0.52
347 S-518 U	40 51 58 C	1/4"	M 3	0.4	2	2.2	900	0.52
347 S-618 U	40 51 58 D	1/4"	M 3	0.4	2	2.2	600	0.52
347 S-328 U	38 65 42 B	1/4"	M 4	0.4	2.8	3.1	1100	0.76
347 S-428 U	38 65 42 D	1/4"	M 4	0.4	3.5	3.9	750	0.76
347 S-528 U	38 65 42 C	1/4"	M 5	0.3	5	5.5	500	0.76
346 S-238 U	40 91 14 B	1/4"	M 5	0.5	4.5	5	2300	1.41
346 S-738 U	40 91 14 C	1/4"	M 5	0.4	5	7	1200	1.48
pistol grip, lower air-inlet, reversible, trigger-start (hex. female)								
347 S-327 U	39 14 86 B	1/4"	M 4	0.4	3	3.3	110	0.82
347 S-427 U	39 14 86 D	1/4"	M 4	0.4	3.5	3.9	750	0.82
347 S-527 U	39 14 86 C	1/4"	M 5	0.3	5	5.5	500	0.82
345 S-237 U	39 27 73 A	1/4"	M 5	0.5	4.5	5	2300	1.5
345 S-737 U	39 27 73 B	1/4"	M 5	0.4	5	7	1200	1.6
pistol grip, upper air-inlet, reversible, trigger-start (hex. female)								
347 S-327 OU	39 14 90 B	1/4"	M 4	0.4	3	3.3	1100	0.82
347 S-427 OU	39 14 90 D	1/4"	M 4	0.4	3.5	3.9	750	0.82
347 S-527 OU	39 14 90 C	1/4"	M 5	0.3	5	5.5	500	0.82

DEPRAG-MINIMAT-T the Depth-Stop-Driver

Type	Order No.	Drive	Torque max. Nm	Speed, idling rpm	Weight kilos
straight, reversible, push-to-start (hex. female)					
345 T-7258 U	36 92 72 A	1/4"	5	1100	0.8
345 T-3258 U	36 92 72 B	1/4"	10	680	0.8
345 T-4258 U	36 92 72 C	1/4"	12	310	0.8
pistol grip, lower air-inlet, reversible, trigger-start (hex. female)					
345 T-7257 U	36 92 73 A	1/4"	5	1025	1.1
345 T-3257 U	36 92 73 B	1/4"	10	525	1.1
345 T-4257 U	36 92 73 C	1/4"	12	270	1.1

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

Handheld Screwdrivers with automatic clutch

DEPRAG

DEPRAG-MICROMAT/MINIMAT-F-Screwdrivers

with Multi-Function control

Type	Order No.	Drive	Screws	Torque			Speed, idling	Weight
				min. Nm	soft pull-up Nm	max. hard pull-up Nm		
straight, right rotation, push-to-start (hex. female)								
345F-308	39 94 00 A	3 mm	M 3	0.02	0.5	0.6	1600	0.15
345F-408	39 94 00 B	3 mm	M 3	0.02	0.55	0.55	1100	0.15
345F-708	39 94 00 C	3 mm	M 3	0.02	0.7	0.7	600	0.16
345F-508	39 94 00 D	3 mm	M 3	0.02	0.7	0.7	350	0.16
347F-218	39 70 61 A	1/4"	M 3	0.3	1	1	1900	0.40
347F-318	39 70 61 B	1/4"	M 3	0.3	1.4	1.4	1300	0.40
347F-518	39 70 61 C	1/4"	M 3	0.2	2	2	900	0.40
347F-618	39 70 61 D	1/4"	M 3	0.2	2	2	600	0.43
347F-228	38 63 65 A	1/4"	M 4	0.5	1.8	2	4000	0.68
347F-328	38 63 65 B	1/4"	M 4	0.4	3	3.2	1550	0.69
347F-428	38 63 65 D	1/4"	M 4	0.4	4	4.5	1000	0.69
347F-528	38 63 65 C	1/4"	M 5	0.3	5	5	680	0.69
345F-7258	40 15 37 A	1/4"	M 5	1	5	6	1100	1.2
345F-3258	40 15 37 B	1/4"	M 6	1	10	10	680	1.2
345F-4258	40 15 37 C	1/4"	M 6	1	12	12	310	1.2
346F-238	39 63 59 B	1/4"	M 5	2	5	6	2500	1.28
346F-738	39 63 59 C	1/4"	M 6	2	8	9	1400	1.34
346F-338	39 63 59 D	1/4"	M 6	2	14	14	750	1.34
346F-438	39 63 59 E	1/4"	M 8	2	20	20	400	1.34
pistol grip, lower air-inlet, right rotation, trigger start (hex. female)								
347F-227	39 17 35 A	1/4"	M 3	0.4	1.5	1.8	4000	0.75
347F-327	39 17 35 B	1/4"	M 4	0.4	3	3.2	1550	0.75
347F-427	39 17 35 D	1/4"	M 4	0.4	3.5	4	1000	0.75
347F-527	39 17 35 C	1/4"	M 5	0.3	5	5	680	0.75
345F-7257	39 46 25 A	1/4"	M 5	1	5	6	1025	1.2
345F-3257	39 46 25 B	1/4"	M 6	1	10	10	525	1.2
345F-4257	39 46 25 C	1/4"	M 6	1	12	12	270	1.2
346F-737	40 05 61 C	1/4"	M 6	2	8	9	1400	1.7
346F-337	40 05 61 D	1/4"	M 6	2	14	14	750	1.7
346F-437	40 05 61 E	1/4"	M 8	2	20	20	400	1.7
pistol grip, upper air-inlet, right rotation, trigger-start (hex. female)								
347F-227 O	39 14 73 A	1/4"	M 3	0.4	1.5	1.8	4000	0.75
347F-327 O	39 14 73 B	1/4"	M 4	0.4	3	3.2	1550	0.75
347F-427 O	39 14 73 D	1/4"	M 4	0.4	3.5	4	1000	0.75
347F-527 O	39 14 73 C	1/4"	M 5	0.3	5	5	680	0.75
pistol grip, lower air-inlet, reversible, trigger-start (hex. female)								
347F-227 U	39 50 47 A	1/4"	M 3	0.4	1.5	1.8	3000	0.75
347F-327 U	39 50 47 B	1/4"	M 4	0.4	3	3.2	1100	0.75
347F-427 U	39 50 47 D	1/4"	M 4	0.4	3.5	4	750	0.75
347F-527 U	39 50 47 C	1/4"	M 5	0.3	5	5	500	0.75
346F-737 U	40 28 45 C	1/4"	M 6	2	7	8	1200	1.7
346F-337 U	40 28 45 D	1/4"	M 6	2	12	12	650	1.7
346F-437 U	40 28 45 E	1/4"	M 8	2	20	20	320	1.7
pistol grip, upper air-inlet, reversible, trigger-start (hex. female)								
347F-227 OU	39 50 52 A	1/4"	M 3	0.4	1.5	1.8	3000	0.75
347F-327 OU	39 50 52 B	1/4"	M 4	0.4	3	3.2	1100	0.75
347F-427 OU	39 50 52 D	1/4"	M 4	0.4	3.5	4	750	0.75
347F-527 OU	39 50 52 C	1/4"	M 5	0.3	5	5	500	0.75
angle-head, right rotation, lever-start (square male)								
377F-321	38 96 89 B	1/4"	M 4	0.4	3.5	3.5	820	0.85
377F-421	38 96 89 D	1/4"	M 5	0.4	4.5	4.5	530	0.85
377F-521	38 96 89 C	1/4"	M 5	0.3	6.5	6.5	380	0.85
376 F-7251	39 20 61 A	1/4"	M 6	1.5	8	8	810	1.2
376 F-3251	39 20 61 B	1/4"	M 6	1.5	15	15	410	1.2
377 F-731	40 40 85 C	1/2"	M 6	4	13	13	840	2
377 F-331	40 40 85 D	1/2"	M 8	4	23	23	450	2
377 F-431	40 40 85 E	1/2"	M 10	4	33	33	240	2

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

Required Accessories for MINIMAT-F Screwdriver:
Function Controller fc 10 and Pneumatic Controller pc10.



347F-228
to
347F-528



345 F-7257
to
345 F-4257



347 F-227 O
to
347 F-527 O



377F-321
to
377F-521



fc10



pc10

Handheld Screwdrivers

DEPRAG MINIMAT-QC Control Screwdrivers

Type	Order No.	Drive	min. Nm	Torque max. Nm	Speed, idling rpm
straight, reversible, push-to-start (hex. female)					
347QC-518 U	39 70 62 C	1/4"	0.4	2	900
347QC-618 U	39 70 62 D	1/4"	0.4	2	600
346QC-338 U	39 76 30 D	1/4"	2	12	650
346QC-438 U	39 76 30 E	1/4"	4	20	320
angle-head, reversible, lever-start (square male)					
377QC-331 U	39 88 14 D	1/2"	4	22	280
377QC-431 U	39 88 14 E	1/2"	6	35	180

Required Accessories for MINIMAT-QC Screwdriver:
Measuring Electronic ME 1000 QC

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

Electric Screwdrivers

Type	Order No.	Drive	Screws	min. Nm	Torque max. soft-pull-up Nm	max. hard-pull-up Nm	Speed, idling rpm	Weight kg
straight, reversible, trigger-start (hex. female)								
341 E-101 U	38 64 11 A	1/4"	M 3	0,10	1	1	700	0.38
341 E-251 U	38 64 16 A	1/4"	M 4	0,85	2.2	2.5	700	0.68
341 E-321 U	38 64 17 A	1/4"	M 4	1,60	3	3.2	550	0.72
straight, reversible, push-to-start (hex. female)								
341 E-258 U	38 64 18 A	1/4"	M 4	0,85	2.2	2.5	700	0.68
341 E-328 U	38 64 19 A	1/4"	M 4	1,60	3	3.2	550	0.72

DEPRAG MICROMAT-EC/MINIMAT-EC Screwdrivers

Type	Order No.	Drive	min. Nm	Torque max.* Nm	min. rpm	Speed max.* rpm
straight, push-to-start (hex. female)						
320EGA19-0002	40 20 30 A	3 mm	0.03	0.2	150	1500
320EGA19-0005	40 20 30 C	3 mm	0.08	0.5	120	1200
320EGA19-0008	40 20 30 B	3 mm	0.15	0.8	100	1000
320EGA27-0004	39 95 15 A	3 mm	0.06	0.4	60	1200
320EGA27-0010	39 95 15 B	3 mm	0.15	1	50	1000
320EGA27-0022	39 95 15 C	1/4"	0.4	2.2	50	700
320EGA27-0040	39 95 15 D	1/4"	0.7	4	40	400
320EGA36-0060	40 48 66 B	1/4"	1	6	70	740
320EGA36-0120	40 48 66 C	1/4"	2	12	35	380
320EGA36-0180	40 48 66 D	1/4"	3	18	25	280
straight, trigger-start (hex. female)						
320EGT19-0002	41 20 30 A	3 mm	0.03	0.2	150	1500
320EGT19-0005	41 20 30 C	3 mm	0.08	0.5	120	1200
320EGT19-0008	41 20 30 B	3 mm	0.15	0.8	100	1000
320EGT27-0004	40 41 49 A	3 mm	0.06	0.4	60	1200
320EGT27-0010	40 41 49 B	3 mm	0.15	1	50	1000
320EGT27-0022	40 41 49 C	1/4"	0.4	2.2	50	700
320EGT27-0040	40 41 49 D	1/4"	0.7	4	40	400
320EGT36-0060	40 83 24 B	1/4"	1	6	70	740
320EGT36-0120	40 83 24 C	1/4"	2	12	35	380
320EGT36-0180	40 83 24 D	1/4"	3	18	25	280
pistol-grip, trigger-start (hex. female)						
320EPT27-0004	40 36 36 A	3 mm	0.06	0.4	60	1200
320EPT27-0010	40 36 36 B	3 mm	0.15	1	50	1000
320EPT27-0022	40 36 36 C	1/4"	0.4	2.2	50	700
320EPT27-0040	40 36 36 D	1/4"	0.7	4	40	400
320EPT36-0040	40 05 32 A	1/4"	0.8	4	100	1000
320EPT36-0060	40 05 32 B	1/4"	1	6	70	740
320EPT36-0120	40 05 32 C	1/4"	2	12	35	380
320EPT36-0180	40 05 32 D	1/4"	3	18	25	280

Required Accessories for EC-Screwdriver:

Sequence controller AST 10-..., motor cable and power supply cable

*) as per VDI/VDE 2647 Directive

Handheld Screwdrivers

DEPRAG

DEPRAG MICROMAT-EC/MINIMAT-EC Screwdrivers

Type	Order No.	Drive	Torque		Speed	
			min. Nm	max. *) Nm	min. rpm	max. *) rpm
angle head, lever-start (square male)						
320EWT27-0022-E6	40 05 80 B	1/4"	0.4	2.2	80	800
320EWT27-0035-E6	40 05 80 C	1/4"	0.7	3.5	50	500
320EWT27-0060-E6	40 05 80 E	1/4"	1	6	30	300
320EWT27-0022-E10	40 99 02 B	3/8"	0.4	2.2	80	800
320EWT27-0035-E10	40 99 02 C	3/8"	0.7	3.5	50	500
320EWT27-0060-E10	40 99 02 E	3/8"	1	6	30	300
320EWT36-0060-E6	40 56 46 B	1/4"	1	6	75	750
320EWT36-0120-E6	40 56 46 C	1/4"	2	12	40	400
320EWT36-0180-E10	40 56 46 D	3/8"	3	18	20	240
320EWT36-0250-E10	40 56 46 E	3/8"	5	25	15	180
320EWT36-0060-E10	41 09 32 B	3/8"	1	6	75	750
320EWT36-0120-E10	41 09 32 C	3/8"	2	12	40	400
angle head, lever-start (hex female)						
320EWT27-0022-F6	40 99 03 B	1/4"	0.4	2.2	80	800
320EWT27-0035-F6	40 99 03 C	1/4"	0.7	3.5	50	500
320EWT27-0060-F6	40 99 03 E	1/4"	1	6	30	300
320EWT27-0022-D6	40 99 00 B	1/4"	0.4	2.2	80	800
320EWT27-0035-D6	40 99 00 C	1/4"	0.7	3.5	50	500
320EWT27-0060-D6	40 99 00 E	1/4"	1	6	30	300
320EWT27-0022-DM6	40 99 01 B	1/4"	0.4	2.2	80	800
320EWT27-0035-DM6	40 99 01 C	1/4"	0.7	3.5	50	500
320EWT27-0060-DM6	40 99 01 E	1/4"	1	6	30	300
320EWT36-0060-F6	41 13 07 B	1/4"	1	6	75	750
320EWT36-0120-F6	41 13 07 C	1/4"	2	12	40	400
320EWT36-0060-D6	41 09 34 B	1/4"	1	6	75	750
320EWT36-0120-D6	41 09 34 C	1/4"	2	12	40	400
320EWT36-0060-DM6	41 13 01 B	1/4"	1	6	75	750
320EWT36-0120-DM6	41 13 01 C	1/4	2	12	40	400

Required Accessories for EC-Screwdriver:

Sequence controller AST 10-..., motor cable and power supply cable

*) as per VDI/VDE 2647 Directive



320 EWT27-..
320 EWT36-..

DEPRAG MINIMAT-ED Digital Electric Screwdriver with integrated electromagnetic shut-off clutch

Type	Order No.	Drive	Torque		Speed rpm
			min. Nm	max. Nm	
straight, trigger-start or push-to-start (hex. female)					
345EG36-0050	40 00 36 G	1/4"	1	5	500
345EG36-0030	40 00 36 H	1/4"	0.6	3	810
pistol-grip, trigger-start or push-to-start (hex. female)					
345EP36-0050	41 04 55 G	1/4"	1	5	500
345EP36-0030	41 04 55 H	1/4"	0.6	3	810

Required Accessories for Digital Screwdriver: Power supply, motor cable and power supply cable



DEPRAG-MINIMAT-EC-Servo Screwdriver

Type angle head design	Order No.	Torque		Speed	
		min. Nm	max. Nm	min. rpm	max. rpm
315 EWT58-0600-E12	39 98 53 A	12	60	25	550
315 EWT58-0350-E10	39 98 53 B	7	35	50	800
315 EWT58-1200-E12	39 98 53 C	25	120	15	250

Required Accessories for EC-Servo Screwdriver: Sequence controller AST 30-31 and motor cable



315 EWT58-..

Handheld Screwdrivers

VARIOMAT, drilling machine and screwdriver in one tool

Type	Order No.	Drive	Screws nominal Ø	Torque			Speed, idling rpm	Weight kilos
				min.	max.	max.		
				Nm	soft-pull-up Nm	hard-pull-up Nm		
basic model								
305-237 UH	40 13 54 A	1/2" 20 UNF/ F6.3 *)	max. 5	according to equipment (equipment optional)			1900	0.9

Please order necessary accessories extra

*) according to equipment, see also prospect D 3520 E

RECYCLING -Drivers

Type	Order No.	Drive	Torque max. Nm	Speed, idling rpm	Weight kilos
straight, reversible, push-to-start (hex female)					
325-3258 UL	36 27 14 A	1/4"	10	640	0.8
325-4258 UL	36 27 14 B	1/4"	10	310	0.8
pistol grip, lower air-inlet, reversible, trigger-start (hex. female)					
305-3257 UL	35 25 87 E	1/4"	10	525	1.05
305-4257 UL	35 25 87 F	1/4"	10	270	1.05

Slip clutch Screwdrivers

Type	Order No.	Drive	Screws	min. Nm	max. Nm	Speed, idling rpm	Weight kilos
straight, reversible, lever-start (hex. female)							
323-221 U	38 97 26 A	1/4"	M 4	0.5	1.3	3000	0.68
323-321 U	38 97 26 B	1/4"	M 4	0.4	2.4	1100	0.69
323-521 U	38 97 26 C	1/4"	M 5	0.3	5	500	0.69
325-7251 U	38 27 10 A	1/4"	M 5	1	5	1100	1
325-3251 U	38 27 10 B	1/4"	M 6	1	10	640	1
325-4251 U	38 27 10 C	1/4"	M 6	1	12	310	1
pistol grip, lower air-inlet, reversible, trigger-start (hex. female)							
323-227 U	37 42 19 A	1/4"	M 3	0.5	1.5	3000	0.75
323-327 U	37 42 19 B	1/4"	M 4	0.3	3	1100	0.75
323-527 U	37 42 19 C	1/4"	M 5	0.3	5	500	0.75
325-7257 U	37 57 97 A	1/4"	M 5	1	5	1025	1.2
325-3257 U	37 57 97 B	1/4"	M 6	1	10	525	1.2
325-4257 U	37 57 97 C	1/4"	M 6	1	12	270	1.2
pistol grip, upper air-inlet, reversible, trigger-start (hex. female)							
323-227 OU	39 62 84 A	1/4"	M 3	0.4	1.5	2500	0.75
323-327 OU	39 62 84 B	1/4"	M 4	0.3	3	1100	0.75
323-527 OU	39 62 84 C	1/4"	M 5	0.3	5	500	0.75
angle-head, reversible, lever-start (square male)							
353-321 U	38 97 72 B	1/4"	M 4	0.4	4	780	0.85
353-521 U	38 97 72 C	1/4"	M 5	0.3	6.5	350	0.85

Flat head wrenches

Type	Order No.	Screws	Speed, idling rpm	Weight kilos
straight, lever-start, closed head				
39-521-19 K	39 16 25 A	M 3 - M 6	90	1.15
39-331-19 K	39 05 18 F	M 4 - M 6	165	1.5
39-331-21 K	39 05 18 G	M 4 - M 7	160	1.5
39-331-32 K	39 05 18 A	M 6 - M 12	150	1.6
39-331-32 L	39 05 18 C	M 6 - M 12	150	1.75
39-331-46 K	39 05 18 N	M 8 - M 18	110	1.7
straight, lever-start, open head				
39-331-43 O	39 05 18 D	M 5 - M 10	150	1.6

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



305-237 UH



325-3258 UL
325-4258 UL



305-3257 UL
305-4257 UL



323-221 U
to
323-521 U



323-227 U
to
323-527 U



353-321 U
353-521 U



39-521-19 K 39-331-19 K
to
39-331-46 K



39-331-43 O

Handheld Screwdrivers

DEPRAG

Impulse Driver without shut-off

Type	Order No.	Drive	Screws	Torque min. Nm	Torque max. Nm	Speed, idling rpm	Air con- sumption m ³ /min	Weight kilos
straight, reversible (Quick Change Chuck with hex. female)								
HSC 02 GS	81 24 82 A	1/4"	M 4 - M 6	14	20	10500	0.25	0.96
HSC 03 GS	81 24 80 A	1/4"	M 6	18	27	10500	0.30	1.02
pistol grip, reversible (Quick Change Chuck with hex. female)								
HSC 03 PS	81 24 79 A	1/4"	M 6	18	27	10500	0.30	1.02
HSC 04 PS	81 24 78 B	1/4"	M 4 - M 6	24	38	8400	0.6	1.3
pistol grip, reversible (square male)								
HSC 03 P	81 24 81 A	3/8"	M 6 - M 8	19	30	10500	0.30	1.02
HSC 04 P	81 24 83 A	3/8"	M 8 - M 10	28	48	8200	0.35	1.4
HSC 08 P	81 24 84 A	1/2"	M 10	60	85	6500	0.40	2
HSC 10 P	81 24 85 A	1/2"	M 12 - M 14	100	140	6000	0.50	2.7

Impulse Driver with shut-off

Type	Order No.	Drive	Screws	Torque min. Nm	Torque max. Nm	Speed, idling rpm	Air con- sumption m ³ /min	Weight kilos
straight, reversible (Quick Change Chuck with hex. female)								
HY 115 G1	36 30 27 A	1/4"	to M 6	5	15	3000	0.10	1.1
HY 135 G8	36 30 31 A	7/16"	to M 8	15	35	4000	0.37	1.35
pistol grip, reversible (Quick Change Chuck with hex. female)								
HY 207 P7	39 74 49 A	1/4"	M 5 to M 6	3	6	5500	0.19	0.9
HY 211 P7	41 15 58 A	1/4"	to M 6	6	11	6500	0.3	0.85
HY 220 P7	41 15 59 A	1/4"	to M 7	10	20	7500	0.35	0.85
HY 135 P7	36 30 33 B	7/16"	to M 8	15	35	2500	0.37	1.45
pistol grip, reversible (square male)								
HY 160 P7	37 59 30 A	1/2"	to M 10	30	60	3500	0.7	2

*upper air-inlet possible

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



HSC 02 GS
HSC 03 GS



HSC 03 PS
to
HSC 10 P



HY 207 P7



HY 115 G1
HY 135 G8



HY 160 P7

Stationary Screwdriver Spindles

with automatic clutch

DEPRAG MICROMAT / MINIMAT Screwdriver Spindles

Type	Order No.	Drive	min. Nm	Torque max. soft pull-up Nm	max. hard pull-up Nm	Speed, idling min ⁻¹	Weight kilos
Control Screwdrivers, right rotation, push-to-start (hex. female)							
345-308-31	33 92 71 A	3 mm	0.02	0.5	0.6	1600	0.18
345-408-31	34 57 65 A	3 mm	0.02	0.55	0.55	1100	0.18
345-708-31	38 51 38 A	3 mm	0.02	0.7	0.7	650	0.19
345-508-31	33 92 71 B	3 mm	0.02	0.7	0.7	350	0.19
347-218-31	39 70 66 A	1/4"	0.3	1	1	1900	0.5
347-318-31	39 70 66 B	1/4"	0.3	1.4	1.4	1300	0.5
347-518-31	39 70 66 C	1/4"	0.2	2	2	900	0.5
347-618-31	39 70 66 D	1/4"	0.2	2	2	600	0.55
347-228-31	38 63 69 A	1/4"	0.5	1.6	2.2	4000	0.89
347-328-31	38 63 69 B	1/4"	0.4	3	3.5	1550	0.89
347-528-31	38 63 69 C	1/4"	0.3	5	5	680	0.89
346-238-31	40 61 09 B	1/4"	2	5	6	2500	1.5
346-738-31	40 61 09 C	1/4"	2	8	9	1400	1.6
346-338-31	40 61 09 D	1/4"	2	14	14	800	1.6
346-438-31	40 61 09 E	1/4"	2	20	20	400	1.6
344-340-31 ³⁾	38 97 30 A	7/16"	4	8	8	2800	2.5
344-440-31 ³⁾	38 97 30 B	7/16"	4	10	10	2100	2.5
344-740-31 ³⁾	38 97 30 C	7/16"	16	34	34	640	2.65
344-840-31 ³⁾	38 97 30 D	7/16"	16	45	45	450	2.65
344-940-31	40 46 23 B	1/2"	40	85	85	250	6
344-140-31	40 46 23 C	1/2"	40	130	130	160	6
344-240-31	40 46 23 D	1/2"	40	180	180	115	6

Control Screwdrivers for Off-Set / Reduction Gear, right rotation, push-to-start

347-228-31 LV for Off-Set Gear	38 86 45 A 38 86 49 A	1/4" ¹⁾	0.5	1.5	2	4200	1.34
347-328-31 LV for Off-Set Gear	38 86 45 B 38 86 49 A	1/4" ¹⁾	0.4	2.8	3.3	1700	1.34
347-528-31 LV for Off-Set Gear	38 86 45 C 38 86 49 A	1/4" ¹⁾	0.3	4.7	4.7	750	1.34
346-738-31 LV for Off-Set Gear	40 10 68 C 40 12 36 B	1/4" ¹⁾	2.6	9	9	1050	3
346-338-31 LV for Off-Set Gear	40 10 68 D 40 12 36 B	1/4" ¹⁾	2.6	15	15	600	3
346-438-31 LV for Off-Set Gear	40 10 68 E 40 12 36 B	1/4" ¹⁾	2.6	20	20	300	3
346-338-31 for Off-Set Gear	40 61 09 D 40 72 04 A	3/8" ²⁾	4	42	62	200	3.2
346-438-31 for Off-Set Gear	33 31 781 A	1/2" ²⁾	6	62		130	4.1
346-338-31 for Off-Set Gear	40 61 09 E 40 72 04 A	3/8" ²⁾	4	72	72	100	3.2
346-438-31 for Off-Set Gear	33 31 781 A	1/2" ²⁾	6	105	105	60	4.1
346-438-31 for Off-Set Gear	34 31 551 A	1/2" ²⁾	7	140	140	50	4.4

Control Screwdrivers with in-line Piezo Torque Sensor, right rotation, push-to-start (hex. female)

345C-508-31	37 60 88 A	3 mm	0.05	0.7	0.7	350	0.34
345C-708-31	37 60 88 C	3 mm	0.12	0.7	0.7	650	0.34
347C-518-31	39 70 70 C	1/4"	0.4	2	2	900	0.6
347C-618-31	39 70 70 D	1/4"	0.4	2	2	600	0.6
347C-428-31	39 25 34 D	1/4"	1	4	4.5	1000	1.1
347C-528-31	39 25 34 C	1/4"	0.8	5	5	680	1.1
345C-338-31	33 83 82 C	1/4"	2	14	14	800	1.8
345C-438-31	33 83 82 D	1/4"	2	24	24	400	1.8

¹⁾ hex female

²⁾ square male

³⁾ with Remote-Start

Type	Order No.	Drive	min. Nm	Seating Torque max. Nm	Driving Torque max. Nm	Speed, idling rpm	Weight kilos
SENSOMAT, right rotation, push-to-start (hex. female)							
347S-228-31	39 14 88 A	1/4"	0.5	1.6	2	4000	0.9
347S-328-31	39 14 88 B	1/4"	0.4	3	3.3	1550	0.9
347S-528-31	39 14 88 C	1/4"	0.3	5	5.5	680	0.9
346S-238-31	40 92 80 B	1/4"	0.5	4	4.5	2500	1.3
346S-738-31	40 92 80 C	1/4"	0.5	5	7	1400	1.3

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

All Screwdriver Spindles are also available with left-rotation, reversible and remote-start operation.

345-308-31
to
345-508-31

347-228-31
to
347-528-31

344-340-31
to
344-840-31

346-338-31
with Reduction Gear

345C-508-31

347C-518-31
347C-618-31

347C-428-31
347C-528-31

345C-338-31
345C-438-31

Stationary Screwdriver Spindles

DEPRAG MINIMAT Screwdriver Spindles

Type	Order No.	Drive	Torque		Speed, max. rpm	Weight kilos
			min. Nm	max. Nm		
Control Screwdrivers, angle head, right rotation, remote start (square male)						
377-320-7-E6.3	20 06 16 B	1/4" 1)	0.4	3.6	1070	0.9
377-420-7-E6.3	20 06 16 D	1/4" 1)	0.4	4.5	710	0.9
377-520-7-E6.3	20 06 16 C	1/4" 1)	0.3	6.5	470	0.9
377-230-7-E10	20 09 41 B	3/8"	4	7	1500	1.9
377-730-7-E10	20 09 41 C	3/8"	4	12	840	1.9
377-330-7-E10	20 09 41 D	3/8"	4	20	450	1.9
377-430-7-E10	20 09 41 E	3/8"	4	35	240	1.9
377-740-7-E12.5	20 06 62 C	1/2"	20	48	390	2.7
377-840-7-E12.5	20 06 62 D	1/2"	20	67	270	2.7

1) also available with hex. female

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

All Screwdriver Spindles in angle head design are also available with reversible operation.

DEPRAG MINIMAT-EC-Servo Screwdriver Spindles

Type	Order No.	Drive	Torque		Speed, idling rpm	Weight kilos
			min. Nm	max. Nm		
EC-Screwdrivers with Torque- and Angle Transducer, reversible (hex. female)						
310 E 30-002	39 33 00 A	1/4"	0.2	2	1200	1.1
310 E 30-005	39 33 00 B	1/4"	0.8	5	600	1.1
310 E 36-005	38 31 43 A	1/4"	1	5	1000	1.8
310 E 36-012	38 31 43 B	1/4"	2	12	600	1.8
310 E 36-018	38 31 43 C	1/4"	4	18	450	1.85
310 E 36-025	38 31 43 D	1/4"	5	25	350	1.85
EC-Screwdrivers with Torque- and Angle Transducer, reversible (square male)						
310 E 56-022	39 00 04 D	1/2"	5	22	1500	7
310 E 56-040	39 00 04 A	1/2"	8	40	800	7.2
310 E 56-090	39 00 04 B	1/2"	15	90	350	7.3
310 E 56-140	39 00 04 C	1/2"	25	140	300	7.3
310 E 56-270	38 95 20 E	3/4"	50	270	100	7.7
EC-Screwdrivers with Torque- and Angle Transducer, reversible (square male), angle head						
310 EW 36-0075-E10	20 09 52 A	3/8"	1.5	7.5	35	620
310 EW 36-0180-E10	20 09 52 B	3/8"	3.5	18	20	375
310 EW 36-0250-E10	20 09 52 C	3/8"	5	25	15	280
310 EW 36-0360-E10	20 09 52 D	3/8"	7	36	10	210

DEPRAG MICROMAT-EC / MINIMAT-EC Screwdriver Spindles

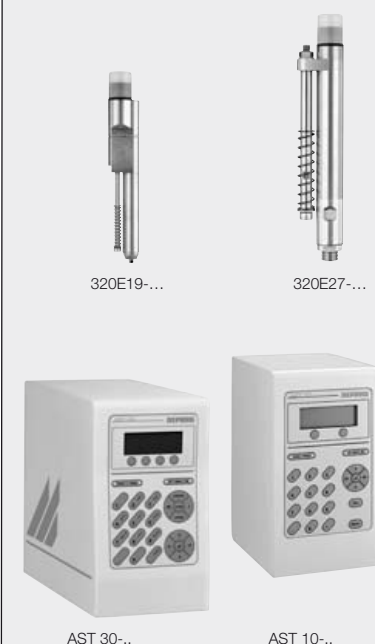
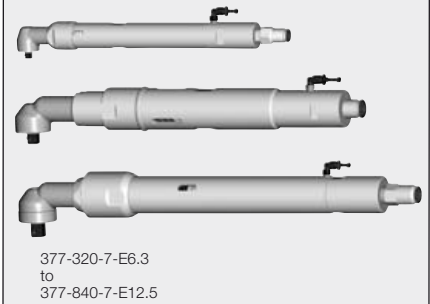
Type	Order No.	Drive	Torque		Speed	
			min. Nm	max.*) Nm	min. rpm	max.*) rpm
EC-Screwdrivers (hex. female)						
320E19-0002	40 50 24 A	3 mm	0.03	0.2	150	1500
320E19-0005	40 50 24 C	3 mm	0.08	0.5	120	1200
320E19-0008	40 50 24 B	3 mm	0.15	0.8	100	1000
320E27-0004	39 39 84 A	3 mm	0.06	0.4	60	1200
320E27-0010	39 39 84 B	3 mm	0.15	1.0	50	1000
320E27-0024	39 39 84 C	1/4"	0.4	2.4	50	700
320E27-0042	39 39 84 D	1/4"	0.7	4.2	40	400
320E36-0060	40 44 07 A	1/4"	1	6	70	740
320E36-0120	40 44 07 B	1/4"	2	12	35	380
320E36-0180	40 44 07 C	1/4"	3	18	25	280

*) as per VDI/VDE 2647 Directive

Controller for EC-Servo / EC-Screwdrivers

Designation	Type	Power Source	Remark
for Screwdriver 310 E...			
Sequence Controller	AST 30-..	AC 230 V / 115 V	see leaflet D 3160 E
for Screwdriver 320 E...			
Sequence Controller	AST 10-..	AC 230 V / 115 V	see leaflet D 3165 E

DEPRAG



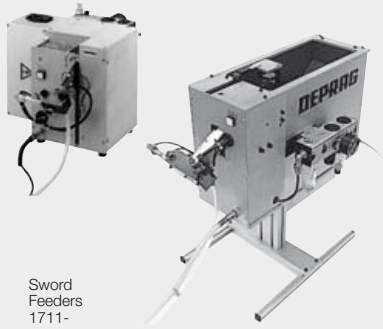
Feeders

Vibratory Bowl Feeders and Sword Feeders for handheld Drivers and Press-In Tools

Type	Number of screw-drivers	Filling capacity l	max. Head dia. mm	max. Shaft length mm	Shaft dia. from - to mm	Power source AC
1511-ES/0.15	1	0.15	5	8	1 - 2.5	230 V/115 V
1522-ES/0.15	2	0.15	4	8	1 - 2.5	
1611-ES/0.75	1	0.75	12	35	1.5 - 6.3	
1622-ES/0.75	2	0.75	8	25	2 - 6.3	
1511-ES/2.5	1	2.5	14	40	4 - 10	
1522-ES/2.5	2	2.5	14	35	4 - 10	
1711-ES/0.15	1	0.15	4.5	8	1 - 2.5	
1711-ES/1.5	1	1.5	12	25	2 - 6.3	



Vibratory Bowl Feeders 15xx-



Sword Feeders 1711-



ERGOMAT-Z



Press-In Tool

DEPRAG-ERGOMAT-Z auto stroke screwdriver for screwfeeder

Type	Order No.	Drive	Screws	min. Nm	Torque max. Nm	Speed, idling rpm	Driving Stroke mm	Weight kilos
347 V-218	40 68 59 A	1/4"	M 3	0.3	1	1900	-	0.8
347 V-318	40 68 59 B	1/4"	M 3	0.3	1.4	1300	-	0.8
347 V-518	40 68 59 C	1/4"	M 3	0.2	2	900	-	0.8

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

Press-In Tools for Vibratory Bowl Feeders

Type	Parts to be transported	Remark
EDG-...	Rivets, Dowel Pins	with one press-in stroke
EDGZ-...-	Pins, Bushings	with one press-in stroke and one additional locking stroke

Feeders

Feeding Machines stationary for automated Assembly Units

Screwfeeding Machines

Type	Number of screw-drivers	Filling capacity l	max. Head dia mm	max. Shaft length mm	Shaft dia. from - to mm	Power source AC
05. .	1 - 5	0.15	5	8	1 - 2.5	230 V/115 V
06. .	1 - 6	0.75	8 / 12	35	1.6 - 6.3	
05. .	1 - 6	2.5	14 / 16	50	4 - 8	
05. .	1 - 6	6	30	100	8 - 16	
05. .	1 - 4	12	30/40	120/130	12 - 18	
07. .	1 - 6	1.5	12	25	2 - 6.3	

Nut Feeders

Type	Number of screw-drivers	Filling capacity l	Across Flats mm	Female Thread mm	max. Nut height mm	Power source AC
06. .	1 / 2 / 4	0.75	4/5.5 - 8	3 - 5	5	230 V/115 V
05. .	1 / 2 / 4	2.5	5.5 - 13/17	3 - 8	8	

Feeders for small components

Type	Number of Outlets	Filling capacity l	Parts to be transported	Power source AC
06. .	1	0.75	Rivets, Bolts, Pin, Washers	230 V/115 V
05. .	1	2.5	Sleeve etc.	
07. .	1	1.5	Tooling Parts, Balls	

Screwfeeding Machines for automated Assembly Units can be supplied with or without magnetic valves, as well as with electronic sequence control integrated.

Belt-Driven Hoppers for Feeders

Type	Order No.	Filling capacity l	Operating Voltage DC
B 10	36 99 43 A	10	24 V
B 20	38 50 11 A	20	24 V

Screw-Presenters

Type	Number of screw-drivers	Filling capacity	Shaft dia. from - to mm	Shaft length from - to mm	Operating Voltage DC	Remark
SG 1211-..	1	0.1	1.4 - 5	2 - 25	12	for handheld Screwdrivers
SG 0211-..	1	0.1	1.4 - 5	2 - 18	12	for stationary Screwdrivers

Tape-on-Reel Feeder

Type	Suitable components	Operating Voltage DC
0111-..	single- and double-sided adhesive components	24 V

DEPRAG



Vibratory Bowl Feeders



Belt Driven Hopper



Screw-Presenters



Tape-on-Reel Feeder

Measuring Technology

Measuring Instruments for screwdriving-stations with integrated piezo-spindles

Designation	Type	Measuring channels	Voltage	Remark
Measuring electronic	ME 1000 QC	1	24 VDC	for Torque Measurement for Torque- and Angle Measurement
Measuring electronic	ME 1000 DMS	1	24 VDC	
Measuring electronic	ME 1000 PE	1	24 VDC	for Torque- and Angle Measurement
Printer	ND 40/ND 100	—	—	—

Measuring Instruments for manual use

Designation	Type Nm	Measuring range Power Supply	Electric	Remark
Measuring electronic	ME 5000	see transducer	Rechargeable Battery with Docking Station and Battery charger	Value Display
Measuring electronic	ME 5400	see transducer	Power Unit 100 up to 240 Volt (50 or 60 Hz)	Value Display external standard PC-Monitor
Measuring electronic	ME 5600	see transducer	Power Supply 85 up to 264 Volt (50 or 60 Hz)	Value Display LC-Display graphic Touch Screen



ME 1000...



Measuring electronic ME 5000
with Docking Station



ME 5400



ME 5600



Measuring Technology

DEPRAG

Torque-Transducers for measuring instruments

Designation	Type	Order No.	Measuring range Nm
Piezo-electric (PE) transducers			
Torque-Dynamometer	MP 25 PE	36 08 50 A	± 25
Torque-Dynamometer	MP 200 PE	37 32 05 A	± 200
Torque-Dynamometer	MP 1000 PE	40 80 00 A	± 1000
Torque-Wrench	MS 25 PE-W	34 62 17 A	± 25
Strain gage (DMS) transducers			
Torque-Dynamometer	MP 2 DMS	38 52 00 B	± 0.1 to ± 2
Torque-Dynamometer	MP 7 DMS	38 52 00 A	± 1 to ± 7
Torque-Dynamometer	MP 25 DMS	38 52 00 C	± 4 to ± 25
Torque-Dynamometer	MP 160 DMS	38 52 00 D	± 20 to ± 160
Torque-Dynamometer	MP 500 DMS	40 80 88 A	± 50 to ± 500
Torque-Wrench	MS 2 DMS	38 77 98 B	± 0.2 to ± 2
Torque-Wrench	MS 7 DMS	38 77 98 A	± 1 to ± 7
Torque-Wrench	MS 7 DMS-W	38 80 50 A	± 1 to ± 7
Torque-Wrench	MS 25 DMS-W	38 80 50 C	± 4 to ± 25
Offset torque transducers			
Torque transducer	V002-E6.3/F6.3	38 54 81 B	0.2 to 2 (pos./neg.)
Torque transducer	V005-E6.3/F6.3	38 54 81 C	0.5 to 5 (pos./neg.)
Torque transducer	V010-E6.3/F6.3	38 54 81 D	1.0 to 10 (pos./neg.)
Torque transducer	V020-E6.3/F6.3	38 54 81 E	2.0 to 20 (pos./neg.)

Mechanical Torque-Wrenches with manual indicator

Order No.	Measuring range Nm	Increment Nm	Drive (square male)
80 46 86	0 - 3.4	0.1	1/4"
80 46 87	0 - 8.4	0.2	1/4"
80 46 88	0 - 17	0.5	3/8"
80 46 89	0 - 60	1	3/8"



Torque-Dynamometer



Torque-Wrench

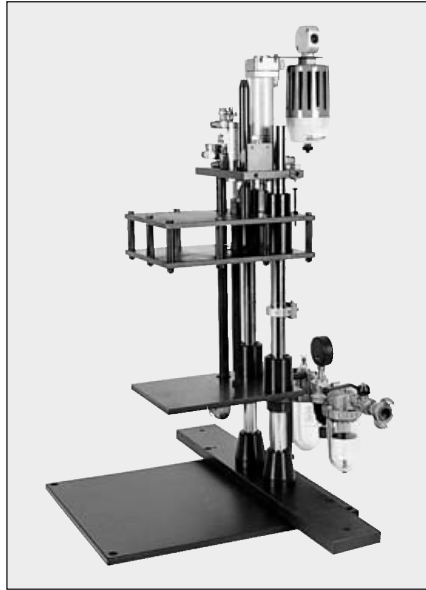


Offset Torque transducer



Mechanical Torque-Wrench

Screwdriving- and Assembly Systems



Basic Screwdriving Components:

Single-Spindle Screwdriving Function Module SFM-N (left):

With this SFM, we offer a standard module for the manufacturing of complete screwdriving stations by the customer. All screwdriving function modules include a complete range of control-functions, mouthpiece- and screwdriver stroke, depth control, integrated stroke compensation and they can be equipped with all screwdriver spindle sizes.

Basic Unit (right):

This module is the basis for Multi-Spindle Assembly Units.



Single-Spindle Screwdriving Function Module SFM-L

(Robot End-of-Arm Tooling) (left):

This SFM-L is specifically designed to integrate with X-Y Positioning Systems or Robots.

DCAM (right):

The DEPRAG COMPACT Assembly Module with axis-movement by stepper-motors, freely programmable, work envelope 600 x 600 x 150 mm (23 x 23 x 6 in.), with DEPRAG screwdriving-controller.

Screwdriving- and Assembly Systems

Screwdriving-Controllers:

Type	Order No.	number of inputs	number of outputs	number of axis	Voltage
Standard					
LC 120	38 54 27 A	12	8	—	230 V / 115 V
LC 124	34 99 84 A	14	10	—	
LC 156	34 99 84 B	30	26	—	
LC 172	34 99 84 C	38	34	—	
LC2plus	83 00 92	32	32	—	400 V / 220 V
LC 2	95 07 79 A	32	32	—	230 V / 115 V
for stepper-motors					
MC 281	38 54 32 A	16	16	1	230 V / 115 V
MC 282	38 54 33 A	32	32	1 - 2	
MC 283	38 54 34 A	48	48	1 - 3	

The Screwdriving-Controller allows the complete sequence control of all DEPRAG standard screwdriving systems. A suitable

controller with sequence program is available for the various sizes and complexities of our systems.



Complete Screwdriving Systems:

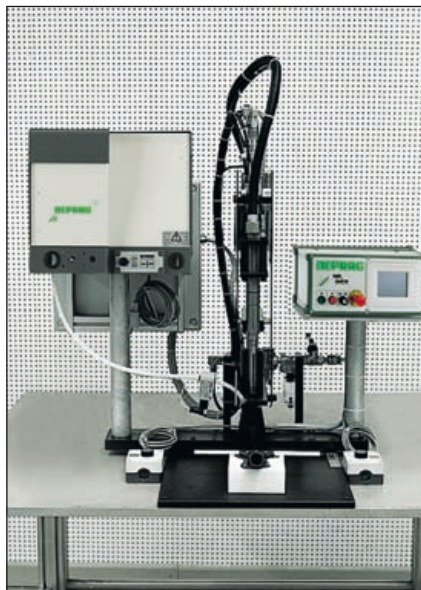
The low-cost standard solution (left):

Complete Single Spindle Screwdriving Unit with automatic screwfeeding; with electronic controller and 2-Hand Safety-Start.

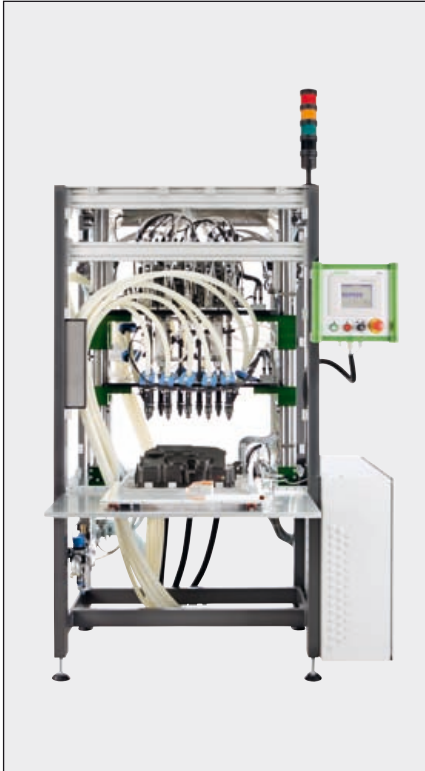
The complex Assembly Station (right):

DEPRAG Assembly Station for the assembly of airbags – equipped with

- Nut Feeder,
- EC-Servo Screwdriver with Controller Model AST 30,
- Pneumatic Screwdriver,
- 3D-formed part fixture,
- Light Curtain to safeguard operator.



Screwdriving- and Assembly Systems



DEPRAG Assembly Station utilizing a 13-Spindle Insertion Unit with fully automatic feeding to assemble automotive heads.



Conveyor-integrated screwdriving station for the inverted assembly of electric motors.

The station is equipped with three individual SFM – Screwdriver Function Modules for assembly in inverted (underfloor) plane. These SFM's are supplied by DEPRAG automatic screwfeeders with supply hoppers and they are positioned by an XY-cartesian style robot.

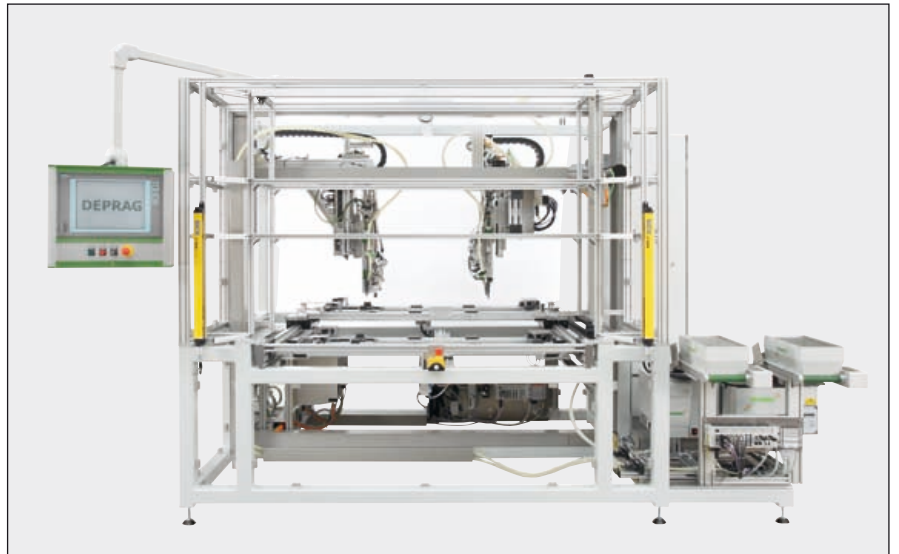
This station is fully controlled by a DEPRAG LC2 plus Controller and supervised by a DEPRAG Touch Panel TP2 plus.

Screwdriving- and Assembly Systems

The Gantry Screwdriving Cell:

Suitable for larger work areas (up to 2.0 m x 1.5 m / 6.6 x 5.0 ft.), a gantry style screwdriving cell can be equipped with several individual screwdriving stations.

These robotic screwdrivers can be used in individual workstations or in a conveyor-integrated system



The complete Assembly Cell

When looking for assembly tasks beyond screwdriving, DEPRAG offers complete assembly cells that can include welding, coil-winding, etc.

Such a station will include all necessary feeding, handling, pick & place, as well as the complete control functions.



Air Motors



Explosion-proof



Acid Insensitive



Underwater Usage



Vibration Insensitive

Air motors are safe and robust drive systems which come into play when a resilient, overload-safe, high performance drive is required. Always ready for action long after traditional drive technologies have stopped rotating.

sterilizable	high longevity	heat insensitive	cleaning-solvent resistant
 II 2 GD c IIC T6 (80°C) X	overload-safe	lightweight	service-friendly
robust	reversible	compact	stainless-steel version

Application Areas:



Medical Industry



Food Industry



Ship-Building



Paper Industry

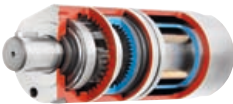
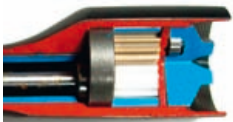


Foundry, Smelter and Power Plant



Machine Building

Automotive Industry, Pharmaceutical Industry, Chemical Industry, Mixing Technology, Power Tools, Transport and Conveyor Technology and many additional application areas...

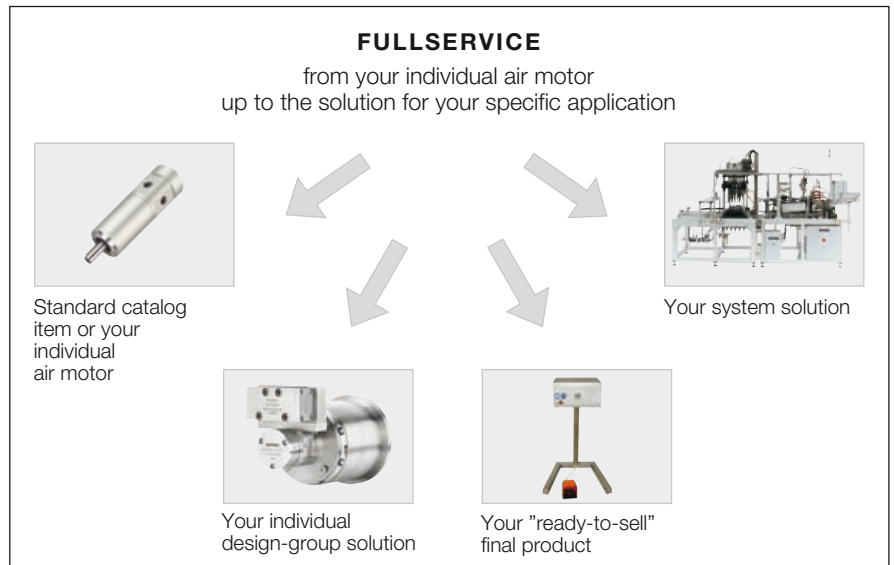
Product Line:	Advantages:	Product Offer:
Air-Vane Motors  	• Speeds up to approx. 60,000 rpm • Compact & lightweight • Conforms to ATEX • Overload-safe • Robust & powerful	• Basic Line • Advanced Line • Power Line • Individual Line • Grinding, Polishing and Drill Motors • Motors with Brake-Module
Tooth-Gear Motors  	• High speeds up to 100,000 rpm • Oilfree • No wear parts • Low noise level • Suitable for continuous use	Tooth-gear motors are developed individually to fit your application.
Turbines  	• High speeds up to 120,000 rpm • Oilfree • No wear parts • Optimum power to weight ratio • Low air-consumption	The design, layout and manufacturing of a turbine motor is carried out according to your specific application.

Air Vane Motors

Our range of air vane motors:

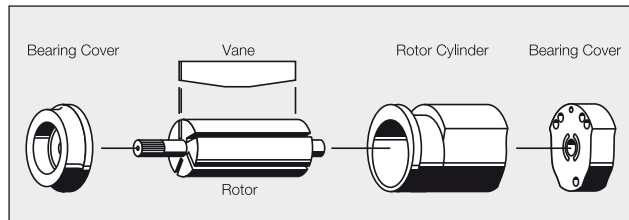
- Extensive catalogue programme:
 - Basic Line
 - Advanced Line
 - Power Line
 - Individual Line
 - Grinding, Polishing and Drill Motors
 - Motors with Brake Module
- Your individual Air Motor
- Your individual design group solution
- Your "ready-to-sell" final product
- Your system solution

Contact our applications consultant for advice. We are happy to support you in the choice of a suitable drive system.



Function:

Pressure energy is converted to rotary motion for the rotor through the expansion of compressed supply air in the work chambers, which is build up by the vanes and rotor cylinder.



Catalogue Spectrum

Motor size	Power kW	Nominal-Speed rpm	Speed, idling rpm
Basic Line			
1	0.2	16 to 5000	32 to 10000
3	0.4	16 to 5000	32 to 10000
5	0.6	16 to 5000	32 to 10000
Advanced Line with Grinding, Polishing and Drill Motors			
0	0.02	475 to 650	950 to 1300
1	0.08	650 to 12000	1300 to 24000
2	0.12	50 to 11000	100 to 22000
2.5	0.2	25 to 7250	50 to 14500
3	0.3	25 to 7250	50 to 14500
6	0.6	50 to 7000	100 to 14000
8	1.2	60 to 4000	120 to 8000
Power Line			
9	1.6	20 to 4500	25 to 9000
11	2.6	20 to 3500	30 to 7000
13	3.6	18 to 3000	30 to 6000
32	1.9	100 to 3400	200 to 6800
50	3.3	75 to 3000	150 to 6000
52	4.6	75 to 2800	150 to 5600
54	5.1	400 to 300	800 to 600
55	9	400 to 800	800 to 1600
65	18	3000	6000
Motors with Brake Modules			
We offer an extensive standard range of stainless steel motors with integrated brake equipment. NEW: ATEX conform complete system: air motor – holding brake – gear			

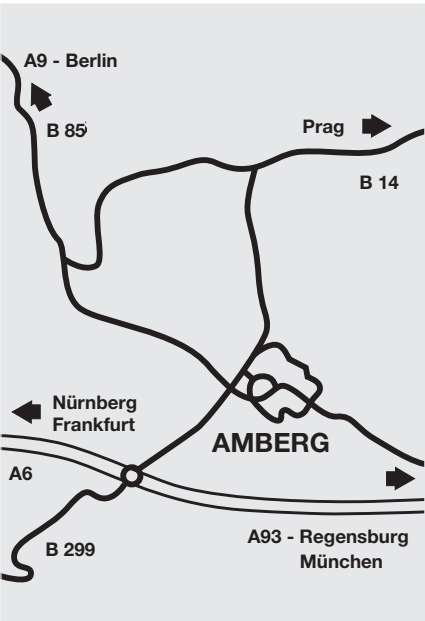
Performance data relate to an air pressure of 6 bar (85 psi)





Location

The city of Amberg, a principality during the middle ages and with its over 1000 year old history, was well protected by the historic bulwark and therefore impregnable. Today, the city is open to the whole world, offering a store of treasures to friends of art and entertainment. The countryside is a paradise for the patron of nature and scenery. Today, Amberg is located in the center of Germany and can be easily reached. By the use of the Autobahn, the drive to the airport of Nuremberg takes 45 minutes and to the airport of Munich 90 minutes. Since we can discuss and offer competent solutions for your assembly needs right here; why don't you come and visit us?



History

- 1801** Foundation of the Bavarian Rifle Plant.
- 1878** Move to the current factory area.
- 1918** Integration into the German Works, Change-Over to non-military-products, such as the manufacturing of tools, fixtures, and compressed air products.
- 1931** **DEUTSCHE PRÄZISIONSWERKZEUG AKTIENGESELLSCHAFT**
The Amberg subsidiary of the German Works was to be closed. Otto Schulz assumes part of the production and founds:
DEPRAG SCHULZ GmbH & Co.
- 1970** Expansion of the manufacturing area. New construction of the office building.
- 1981** Foundation of the US subsidiary. DEPRAG Inc. in Lewisville, Texas.
- 1993** Opening of the subsidiary DEPRAG Skandinavia AB Eskilstuna/Sweden
- 1998** Takeover of the company NAREX a.s. and foundation of DEPRAG CZ a.s. in Lázně Bělohrad/Czechia.
- 2001** Opening of the subsidiary DEPRAG Sarl in Haguenau, France
- 2002** Opening of the subsidiary DEPRAG Assembly Technologies Co. Ltd. in Suzhou/China
- 2003** Opening of the subsidiary DEPRAG Ltd. in Whitchurch/ United Kingdom
- 2006** 75-Year Anniversary of DEPRAG
- Today** Ready for the future with a well founded tradition and advanced technology.

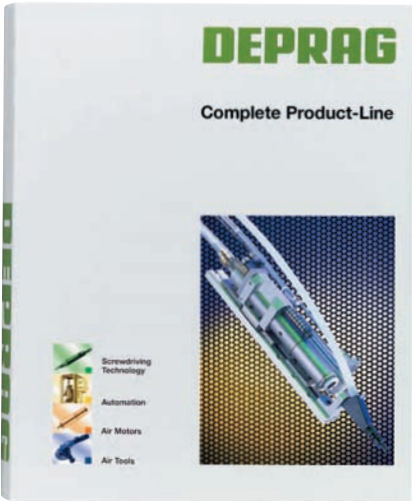
Partners

Over 500 active staff members design, manufacture and distribute handheld air-tools, air-drives and screwdriving systems. Our staff - your partners - stands for quality, performance, worldwide service and competent advice.



For more information:

our catalog
Complete Product-Line



our leaflets and
technical data



Listing of individual Catalogs:

SCREWDRIVING TECHNOLOGY

Handheld Automatic Screwdrivers

- D 3410 Handheld Screwdrivers
- D 3420 Micromat-Screwdrivers
- D 3421 Micromat/Minimat-ESD, straight
- D 3430 Minimat Screwdrivers, straight
- D 3435 Minimat Screwdrivers, Pistol grip
- D 3440 Micromat/Minimat-F
- D 3441 Minimat-QC
- D 3450 Minimat, angle-head design
- D 3460 Sensomat
- D 3470 Minimat-T
- D 3480 Electric Screwdrivers - straight
- D 3490 MICROMAT-E/MINIMAT-E,
Electric Screwdrivers
- D 3495 MINIMAT-ED,
Digital Electric Screwdriver
- D 3497 MINIMAT-E, Electric Screwdrivers -
angle head design

Other Handheld Screwdrivers

- D 3520 VARIOMAT
- D 3530 Recycling-Drivers
- D 3540 Slip clutch Screwdrivers
- D 3550 Flat head Wrenches
- D 3570 Impulse Driver, without shut-off
- D 3571 Impulse Driver, with shut-off

Stationary Screwdriver Spindles

- D 3120 Stationary Screwdriver Spindles
- D 3130 Control Screwdriver Spindles
- D 3135 Control Screwdriver Spindles -
angle head design
- D 3140 Sensomat Screwdriver Spindles
- D 3150 Torque Sensor Screwdriver Spindles
- D 3160 MINIMAT-E,
EC Servo Screwdriver Spindles
- D 3165 MICROMAT-E/MINIMAT-E,
Electric Screwdriver Spindles

Feeders

- D 3820 Screwfeeding-machines, handheld
- D 3821 Handguided Press-in Devices
- D 3830 Feeding-machines, stationary
- D 3840 Screw-Presenters
- D 3850 Belt-Driven Hoppers
- D 3870 Tape- on Reel Feeder

Measuring Technology

- D 3020 Torque-Transducers
- D 3022 Torque-Measuring Instruments
- D 3024 Electronic Torque Measurements

AUTOMATION

Screwdriving- and Assembly Systems

- D 3310 Screwdriving Function Module (SFM)
- D 3311 Screwdriving Function Module (SFM-N)
- D 3312 Screwdriving Function Module (SFM-L)
- D 3313 Screwdriving Function Module (SFM-S)
- D 3350 Controllers
- D 3370 DCAM
- D 3371 DCAM-XS
- D 3380 Screwdriving Stations and
Assembly Systems
- D 3330 Services

Accessories

- D 3320 Inserting Tools for Screwdrivers
- D 3340 Workplace equipment and
accessories

AIR MOTORS

- D 6000 Air Motors
- D 6200 Basic Line
- D 6400 Advanced Line
up to 1.2 kW
- D 6600 Power Line 1.6 - 18 kW

GENERAL INFO

DEPRAG INDUSTRIAL AIR TOOLS

Details will be provided
at www.depragindustrial.com

- D 0012 Complete Product-Line
- D 0030 Corporate Image
- D 0080 Screwdriving Technique
and Quality Assurance
- D 0090 Preventive maintenance and repair
of air-operated tools

DEPRAG

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