

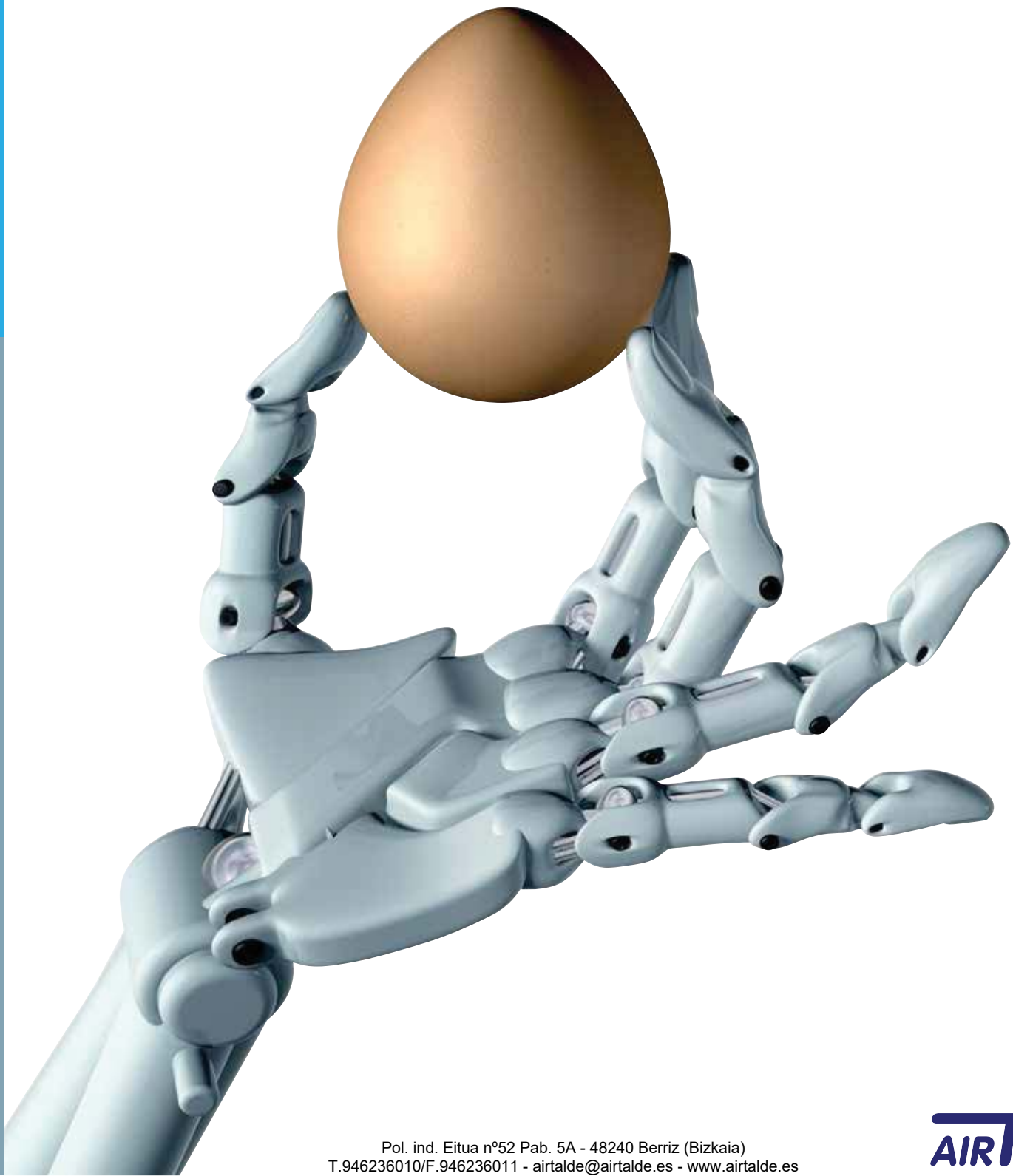
Robot spindles
Air spindles
Built-in air motors

AIR TALDE



Let's hatch it out!

We advise you
broadly and competently
about robot spindles



Robot spindles

From our extensive program

Spindles with radial deflection for deburring and milling

- Free speed: 15 000 – 100 000 min⁻¹
- Power: 100 – 800 Watt



ESR 1000



ESR 551



ESR 350



ESR 170

Spindles with radial or axial deflection for brushing

- Free speed: 520 – 20 000 min⁻¹
- Power: 380 – 840 Watt



ESR 38-520 AX25



ESR 50



SSU 60

Robot spindles

From our extensive program

Axial and radial compensation with quick change chuck and / or sensors

Free speed up to 20 000 min⁻¹



ESR with radial deflection and quick change chuck



ESR with axial deflection and quick change chuck



ESR 30 AX25 ST axial deflection with sensors

Radial see-saw compensation unit with sensor control

With this modular deflection unit you can combine many air motors, chamfering tools, filing machines or grinding spindles.



Numerous combinations

Robot spindles

From our extensive program

Robot spindles for use with in CNC machines

With maximum speed to the peak of productivity:
Save up to 80 % machining time with highest cutting rates
and up to 300 m/min feeding speed.



ESR 1000 X3



ESR 350 X3



ESK 1000 ARF SK40



ESK 350 ARF SK40

We test your individual deburring task

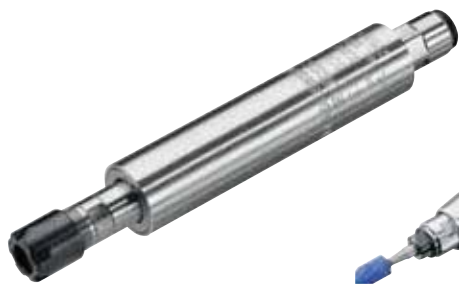
We test your specific deburring task with our robot
and advise you on basis of our test results and our
experience of many years regarding deburring tasks.



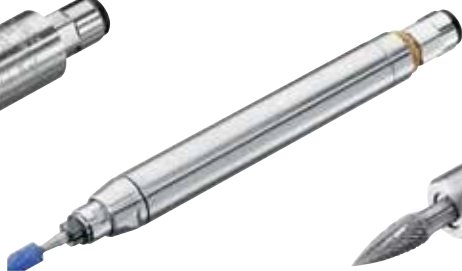
UR 10 Testing system

- Quick change chuck page 46
- Speed control sensor page 44
- Find the latest info and the complete program at:
www.MANNESMANN-DEMAG.com

Air spindles



ES 804 ER



ES 550 ZG



ES 350 ER

Technical data

Type		ES 804 ER	ES 550 ZG	ES 350 ER
Article No.		60051-24-7	29924-59-7	60012-15-7
Free speed	rpm	80 000	55 000	35 000
Power	Watt	110	70	300
Direction of rotation		clockwise	clockwise	clockwise
Exhaust air		to the rear	to the rear	to the rear
Collet included	mm	3	3	6
Collets available	mm	—	1.0 1.5 2.0 2.5 3/32" 1/8"	3 4 5
Carbide burrs	max. mm	4	4	10
Mounted points and wheels	max. mm	6	6	16
Noise level	dB(A)	80	75	79
Air consumption	l / sec	3.0	2.3	8.3
Weight	kg	0.11	0.08	0.42
Connection air supply (hose)	Ø mm, inside /outside	4 6	4 6	6 8

Power and free speed at 6 bar operating pressure. Compressed air quality: lubricated.

- For installation in transfer lines, machine tools and robot stations
- Stainless steel housings
- Stainless steel collet spindles
- Small dimensions
- High true-running accuracy
- 100 % overload capacity
- Paired ball bearings for longer tool life time and better operating characteristic (except ES 550 ZG)
- With rotating splashguard to prevent penetration of dust, water or chips (except ES 550 ZG)



ES 280 ER

ES 200 ER

ES 170 ER

Technical data

Type		ES 280 ER	ES 200 ER	ES 170 ER
Article No.		29924-52-7	60008-32-7	29924-44-7
Free speed	rpm	28 000	20 000	15 000
Power	Watt	380	400	800
Direction of rotation		clockwise	clockwise	clockwise
Exhaust air		to the rear	to the rear	to the rear
Collet included	mm	6	6	8
Collets available	mm	3 5 8 10	3 5 8 10	3 5 6 10
Carbide burrs	max. mm	10	12	15
Mounted points and wheels	max. mm	16	25	32
Noise level	dB(A)	80	72	86
Air consumption	l / sec	11.5	8.5	15.8
Weight	kg	0.75	1.10	1.65
Connection air supply (hose)	Ø mm, inside / outside	10 12	10 12	10 12

Power and free speed at 6 bar operating pressure. Compressed air quality: lubricated.

- For installation in transfer lines, machine tools and robot stations
- Stainless steel housings
- Stainless steel collet spindles
- Small dimensions
- High true-running accuracy
- 100 % overload capacity
- Paired ball bearings for longer tool life time and better operating characteristic
- With rotating splashguard to prevent penetration of dust, water or chips

Air spindles

Non-lubricated turbines



EST 1000 ZG

EST 1000 K | EST 650 K

Technical data

Type		EST 1000 ZG	EST 1000 K	EST 650 K
Article No.		Impeller turbine 29924-61-7	Jet turbine 29939-57-7	Jet turbine 29939-58-7
Free speed	rpm	100 000	80 000	65 000
Power	Watt	100	100	70
Direction of rotation		clockwise	clockwise	clockwise
Exhaust air		to the front	to the rear	to the rear
Collet included	mm	3	3	3
Collets available	mm	1.0 1.5 2.0 2.5 3/32" 1/8"	1.0 1.5 2.0 2.5 3/32" 1/8"	1.0 1.5 2.0 2.5 3/32" 1/8"
Carbide burrs	max. mm	3	3	3
Mounted points and wheels	max. mm	5	5	5
Noise level	dB(A)	74	69	69
Air consumption	l / sec	5.3	3.5	3.5
Weight	kg	0.25	0.26	0.26
Connection air supply (hose)	Ø mm, inside / outside	2.7 4	6 8	6 8

Power and free speed at 6 bar operating pressure. Compressed air quality: non-lubricated.

- For installation in transfer lines, machine tools and robot stations
- Stainless steel housings
- Stainless steel spindles
- Floating spindle support
- High revolutions for excellent processing quality
- Maintenance-friendly
- High true-running accuracy for long tool life
- EST 650: centrifugal governor



EBS 504 ZG

EBS 520 ER

EWBS 38-520

EBS 520 WK

Technical data

Type		EBS 504 ZG	EBS 520 ER	EBS 520 WK	EWBS 38-520
Article No.		29937-30-7	60001-36-7	60003-50-7	60001-29-5
Free speed	rpm	500	520	520	520
Power	Watt	160	380	380	380
Start-up		push start	external	external	external
Direction of rotation		clockwise	clockwise	clockwise	clockwise
Exhaust air		to the rear	to the rear	to the rear	to the rear
ER collet		—	—	10 mm	1/4" – 6 kt.
Collet included	mm	8	8	—	—
Collets available	mm	5 6 1/4" 10	3 5 6 10	—	—
Radial compliance of coupling		—	—	± 7°	—
Radial off-set of coupling max.	mm	—	—	± 0.5	—
Noise level	dB(A)	65	—	—	—
Air consumption	l / sec	5.3	8.5	8.5	8.5
Weight	kg	0.75	1.40	1.20	2.30
Air supply hose	Ø mm / i	—	8	8	8
Exhaust air hose	Ø mm / i	—	10	10	10
Connection air supply (hose)	Ø mm, inside / outside	6 8	—	—	—

Power and free speed at 6 bar operating pressure. Compressed air quality: lubricated.

- For installation in transfer lines, machine tools and robot stations
- Stainless steel housings
- Stainless steel collet spindles
- Ideal for chamfering and brushing

- Collets up to 10 mm
- Type EBS 520: Splash guard to protect against dust, water and chips
- Push start of EBS 504 lowers air consumption

- Type EBS 520 WK: With spiral coupling to compensate radial or axial offset, chamfering tool shaft diameter 10 mm, shaft length max. 10 mm

Accessories

HSS-counter sink	EWBS 38-520
3 teeth, 1/4" hex. / 90°	
Sinking range 2.5 – 10 mm	48109-21-6
Sinking range 3.2 – 16.5 mm	48109-22-6
Sinking range 5 – 25 mm	48109-24-6

Built-in air motors

With collet and speed sensor



EBM 5200 S

EBM 19000 S-ST

Technical data

Type with collet (clockwise)		EBM 19000 S	EBM 5200 S	EBM 2900 S	EBM 2400 S	EBM 1200 S
Article No.		29945-61-7	60003-64-7	29948 33 7	60003-63-7	60015-38-7
Type with speed sensor (clockwise)		EBM 19000 S-ST	EBM 5200 S-ST	EBM 2900 S-ST	EBM 2400 S-ST	EBM 1200 S-ST
Article No.		60054-91-7	60058-01-7	60058-02-7	60058-03-7	60058-04-7
Free speed	rpm	19 000	5 200	2 900	2 400	1 200
Power	Watt	380	380	380	380	380
Collet included	mm	6	6	6	6	6
Collets available	mm	3 5 8 10	3 5 8 10	3 5 8 10	3 5 8 10	3 5 8 10
Direction of rotation		clockwise	clockwise	clockwise	clockwise	clockwise
Exhaust air		to the rear	to the rear	to the rear	to the rear	to the rear
Air consumption	l / sec	8.5	8.5	8.5	8.5	8.5
Weight	kg	1.12	1.12	1.12	1.12	1.42
Air supply hose	Ø mm / i	8	8	8	8	8
Exhaust air hose	Ø mm / i	10	10	10	10	10

Power and free speed at 6 bar operating pressure. Compressed air quality: lubricated.

- For installation in transfer lines, machine tools and robot stations
- Stainless steel housings
- Stainless steel collet spindles
- Ideal for drilling or brushing
- Without valve, for central remote control
- Small housing diameter for minimum centre-to-centre spacing
- Reversible EBMU Types
- Splash guard to protect against dust, water and chips

EBM-ST-models

Technical details

- Integrated inductive sensor (M5)
- Real working speed control for uniform results
- Data reading and analysis by superordinate control or separately available control unit
- To protect against collision
- Re-adjustment or replacement advice on higher speed caused by tool wear
- Early detection of motor wear on decreasing speed

The suitable accessories:
page 49 and 50.

Built-in air motors With drill chuck



EBM 38-5200 B

EBM 38-5200 B

Technical data

Type		EBM 38-5200 B	EBM 38-2900 B	EBM 38-2400 B	EBM 38-1200 B
Article No.		60053-66-7	60019-47-7	60058-05-7	60008-71-7
Free speed	rpm	5 200	2 900	2 400	1 200
Power	Watt	380	380	380	380
Drill chuck clamp. range	mm	1 – 10	1 – 10	1 – 10	1 – 10
DIN taper or thread		3/8" × 24 UNF	3/8" × 24 UNF	3/8" × 24 UNF	3/8" × 24 UNF
Direction of rotation		clockwise	clockwise	clockwise	clockwise
Exhaust air		to the rear	to the rear	to the rear	to the rear
Air consumption	l/sec	8.5	8.5	8.5	8.5
Weight	kg	1.20	1.20	1.20	1.50
Air supply hose	Ø mm / i	8	8	8	8
Exhaust air hose	Ø mm / i	10	10	10	10

Power and free speed at 6 bar operating pressure. Compressed air quality: lubricated.

- For installation in transfer lines, machine tools and robot stations
- Stainless steel housings
- Ideal for drilling or brushing
- Without valve, for central remote control
- Small housing diameter for minimum centre-to-centre spacing

The suitable accessories:
page 49 and 50.



Throttle with silencer



Oil trap

Speed can be adjusted accurately if a throttle silencer is used.
(Article No. 9361705)

Using an oil trap the exhaust air can be filtered up to 99%.
(Article No. 60025-98-6)

Built-in air motors

With quick-change chuck

230 – 380 W



EBM 38-5200 WS

Tool change with fork

Technical data

Type		EBMU 23-14000 WS 60037-48-7	EBMU 23-4000 WS 60038-54-7	EBMU 23-2000 WS 60038-57-7	EBM 38-19000 WS 60051-92-7	EBM 38-5200 WS 60038-62-7	EBM 38-2400 WS 60038-63-7
Article No.							
Free speed	rpm	14 000	4 000	2 000	19 000	5 200	2 400
Power	Watt	230	230	230	380	380	380
Direction of rotation		reversible	reversible	reversible	clockwise	clockwise	clockwise
Exhaust air		to the rear	to the rear	to the rear	to the rear	to the rear	to the rear
Air consumption	l / sec	7.8	7.8	7.8	8.3	8.3	8.3
Weight	kg	1.8	1.8	1.8	1.8	1.8	1.8
Air supply hose	Ø mm / i	8	8	8	8	8	8
Exhaust air hose	Ø mm / i	10	10	10	10	10	10

Power and free speed at 6 bar operating pressure. Compressed air quality: lubricated.

- Ideal for **brushing**
- Manual brush change or automatic tool change for robot systems

Necessary accessories – please order separately

Collet holder
+ ER collet
+ nut
or
holder with M 14 × 2 thread



Fork



Brush holder



Holder M 14 × 2



Nut

Accessories

Fork for automated tool change	60036-02-5
Collet holder	60050-24-3
Holder with M 14 × 2 thread	60050-38-3
Nut	29701-56-3
Speed throttle 1/2 "	9 361 705

Tools to be changed will be prepared in a secondary process and can be integrated within very short time

→ Collets page 49

Built-in air motors With quick-change chuck 500 – 620 W



EBM 55-5600 WS

Tool change with fork

Technical data

Type		EBMU 40-4800 WS	EBMU 40-3000 WS	EBM 55-5600 WS	EBM 55-3600 WS
Article No.		60038-29-7	60038-28-7	60038-27-7	60038-69-7
Free speed	rpm	4 800	3 000	5 600	3 600
Power	Watt	500	500	620	620
Direction of rotation		reversible	reversible	clockwise	clockwise
Exhaust air		to the rear	to the rear	to the rear	to the rear
Air consumption	l / sec	12.6	12.6	14.6	14.6
Weight	kg	2.3	2.3	2.3	2.3
Air supply hose	Ø mm / i	10	10	10	10
Exhaust air hose	Ø mm / i	16	16	16	16

Power and free speed at 6 bar operating pressure. Compressed air quality: lubricated.

- Ideal for **brushing**
- Manual brush change or automatic tool change for robot systems

Necessary accessories – please order separately

Collet holder
+ ER collet
+ nut
or
holder with M 14 × 2 thread



Fork



Brush holder



Holder M 14 × 2



Nut

Accessories

Fork for automated tool change	60036-02-5
Collet holder	60050-24-3
Holder with M 14 × 2 thread	60050-38-3
Nut	29701-56-3
Speed throttle 1/2 "	9 361 706

Tools to be changed will be prepared in a secondary process and can be integrated within very short time

→ Collets page 49

Built-in air motors

With quick-change chuck

820 – 1 200 W



Example: Tool change with fork

... or manually

EBM 120-1200 WS

Technical data

Type		EBMU 82-13600 WS 60038-65-5	EBMU 82-4000 WS 60038-73-5	EBMU 82-850 WS 60038-74-5	EBM 120-18600 WS 60038-70-5	EBM 120-5400 WS 60038-71-5	EBM 120-1200 WS 60038-72-5
Article No.							
Free speed	rpm	13 600	4 000	850	18 600	5 400	1 200
Power	Watt	820	820	820	1 200	1 200	1 200
Direction of rotation		reversible	reversible	reversible	clockwise	clockwise	clockwise
Exhaust air		to the rear	to the rear	to the rear	to the rear	to the rear	to the rear
Air consumption	l / sec	18	18	18	23	23	23
Weight	kg	3.4	3.4	3.4	3.4	3.4	3.4
Air supply hose	Ø mm / i	13	13	13	13	13	13
Exhaust air hose	Ø mm / i	16	16	16	16	16	16

Power and free speed at 6 bar operating pressure. Compressed air quality: lubricated.

- Ideal for **brushing**
- Manual brush change or automatic tool change for robot systems

Necessary accessories – please order separately

Collet holder
+ ER collet
+ nut
or
holder with M 14 × 2 thread



Fork



Brush holder



Holder M 14 × 2



Nut

Accessories

Fork for automated tool change	60036-02-5
Collet holder	60050-24-3
Holder with M 14 × 2 thread	60050-38-3
Nut	29701-56-3
Speed throttle 1/2 "	9 361 708

Tools to be changed will be prepared in a secondary process and can be integrated within very short time

→ Collets page 49

Examples



Spindles | ZG collets

Clamping range Ø (mm|")

Types	page	1.0	1.5	2.0	2.5	3/32"	3.0	1/8"
EST 1000 ZG	42	9 369 912	9 369 913	9 369 914	9 369 915	9 369 916	9 369 825	9 369 917
EST 1000 K	42	9 369 912	9 369 913	9 369 914	9 369 915	9 369 916	9 369 825	9 369 917
EST 650 K	42	9 369 912	9 369 913	9 369 914	9 369 915	9 369 916	9 369 825	9 369 917
ES 550 ZG	40	9 369 912	9 369 913	9 369 914	9 369 915	9 369 916	9 369 825	9 369 917

Spindles | ER collets

Types	page	3.0	4.0	5.0	6.0	8.0	10.0
ES 804 ER	40	9 369 993	—	—	—	—	—
ES 350 ER	40	9 369 853	9 369 849	9 369 838	9 369 832	—	—
ES 280-170 ER	41	9 369 855	—	9 369 850	9 369 839	9 369 842	9 369 852

Motors | ZG collets

Types	page	3.0	4.0	5.0	6.0	8.0	1/4"	10.0
EBS 504 ZG	43	—	—	9 369 816	9 369 837	9 369 818	9 369 987	9 369 817

Motors | ER collets

Types	page	3.0	4.0	5.0	6.0	8.0	10.0
all EBM	44	9 369 855	9 369 884	9 369 850	9 369 839	9 369 842	9 369 852
EBM / EBMU w. SWF	46-48	9 369 855	9 369 884	9 369 850	9 369 839	9 369 842	9 369 852
EBS 520 ER	43	9 369 855	9 369 884	9 369 850	9 369 839	9 369 842	9 369 852

Motors | Drill chucks, drill chuck keys

Types	page	drill chuck	drill chuck key	quick change drill chuck
all EBM 38-... B	45	9 376 022	9 369 811	9 369 988

Speed throttle with silencer

Tap	G 1/8"	G 1/4"	G 3/8"	G 1/2"
Article No.	9361 707	9361 705	9361 706	9361 708

Silencer

Tap	G 1/4"	G 3/8"	G 1/2"	G 3/4"	G 1"
Article No.	47004-18-6	49589-03-6	49589-02-6	49589-00-6	49589-01-6

Oil trap

- Design: Silencer with filter
- Mounting: upright
- Operating pressure min./max.: 0 / 10 bar
- Medium: Compressed air
- Temperature range min./max.: - 10 / + 60 °C
- Housing: aluminum
- Filter end cap: steel
- Cask and collecting pan: Polyoxymethylene

Article No.		60025-98-6	60025-96-6
Threaded Connection		G 1/2 "	G 1 "
Nominal flow	l / min	2 500	3 500
Weight	kg	0.74	1.25
Max. residual lubricant content	mg / m ³	0.01	0.01
Filter efficiency		99.99 %	99.99 %
Silencing		up to 40 dB(A)	up to 40 dB(A)



Oil trap





MANNESMANN DEMAG drilling and cutting tools are distinguished by:

- Ergonomic design
- Low air consumption
- Very low noise levels
- Absolutely easy to service and uncomplicated to maintain
- Modular systems: various assemblies are interchangeable
- Conception for precise as well as for rugged industrial applications



Drills

Our wide range – drilling from 1 to 50 mm, with straight, angled or pistol grip designs – guarantees suitable drilling in all applications. The choice of the right drill is determined firstly by the drilling diameter, the material and the cutting speed which is required.

Countersinks

Our countersinks offer a perfect program for all deburring works, which must be accomplished by hand. The countersinks are ideal tools to deburr, spot face or chamfer steel, cast iron, non-ferrous or light metals. The low and variable cutting speed ensures best working results.

Tapping machines

MANNESMANN DEMAG tapping machines are in the best way suitable for cutting and cleaning threads. Grace to the optimized power-weight ratio and the handy design the tools offer opportunities for all kind of manufacturing applications. Our tapping tools are equipped with a two jaw pendular chuck with a round wedge.

→ Simply work more rational – with MANNESMANN DEMAG drills, countersinks and tapping machines.

Drills (pistol grip)

With gear rim drill chuck

- Exhaust silencer is built into the pistol grip so that there is no disruptive exhaust air
- Compact design
- Ergonomical aluminium handle
- Low maintenance
- Air supply through handle
- D 6-55 P also suitable for sinking



1



2

Technical data

Type		D 6-501 P	D 6-351 P	D 6-55 P	D 8-6000 P	D 8-2800 P
Order No.		03138-77-4	03138-97-4	03255-00-5	29919-70-5	46910-46-5
Illustration		1	1	1	2	2
Free speed	rpm	5 000	3 500	550	6 000	2 800
Power	Watt	150	150	150	320	320
DIN taper		B 10	B 10	B 10	B 12	B 12
Drill chuck clamp. range	mm	1 – 6	1 – 6	1 – 6	1 – 8	1 – 8
Drilling capacity steel	mm	4	4	4	6	6
Drilling capacity alumin.	mm	6	6	6	10	10
Noise level	dB(A)	69	69	69	75	75
Air consumption	l/sec	5.3	5.3	5.3	7.0	7.0
Weight without hose	kg	0.60	0.60	0.65	1.00	1.00
Ø machine	mm	31	31	31	38	38
Machine length	mm	162	162	188	195	198
Hose I.D.	mm	6	6	6	6	6
Connection		G 1/4" i	G 1/4" i	G 1/4" i	G 1/4" i	G 1/4" i
Accessories supplied		drill chuck key	drill chuck key	drill chuck key	drill chuck key	drill chuck key

Power and free speed at 6 bar operating pressure. Compressed air quality: lubricated.

Accessories



For type	D 6-501 P	D 6-351 P	D 6-55 P	D 8-6000 P	D 8-2800 P
Gear rim drill chuck	9 376 019	9 376 019	9 376 019	9 376 014	9 376 014
Drill chuck key	9 369 811	9 369 811	9 369 811	9 369 811	9 369 811
Quick change drill chuck	9 369 990	9 369 990	9 369 990	9 369 988	9 369 988

→ Accessories page 73

- Exhaust silencer is built into the pistol grip so that there is no disruptive exhaust air
- Compact design
- Ergonomical aluminium handle
- Low maintenance
- Air supply through handle
- D 13-45 P with quick change drill chuck

Drills (pistol grip) With gear rim drill chuck



1



2



3

Technical data

Type		D 10-1800 P	D 13-900 P	D 13-380 P	D 13-45 P	D 15-600 P	D 15-1800 P
Order No.		46920-36-5	46920-37-5	46920-39-5	29900-01-6	47470-53-5	47420-53-5
Illustration		1	1	1	2	3	3
Free speed	rpm	1 500	900	380	450	600	1 800
Power	Watt	320	320	300	400	520	520
DIN taper		B 12	B 12	B 12	1/2" × 20 UNF	3/8" × 24 UNF	3/8" × 24 UNF
Drill chuck clamp. range	mm	1 – 10	1 – 13	1 – 13	1.5 – 13	3 – 13	3 – 13
Drilling capacity steel	mm	8	8	8	13	13	8
Drilling capacity alumin.	mm	12	12	12	20	20	12
Noise level	dB(A)	75	75	75	79	77	77
Air consumption	l/sec	7.0	7.0	7.0	9.0	11.3	11.3
Weight without hose	kg	1.10	1.25	1.30	1.90	2.40	1.25
Ø machine	mm	38	38	38	45	54	54
Machine length	mm	232	234	240	260	247	226
Hose l. D.	mm	8	8	10	10	10	10
Connection		G 1/4" i	G 1/4" i	G 1/4" i	G 1/4" i	G 1/4" i	G 1/4" i
Accessories supplied		drill chuck key	drill chuck key	drill chuck key	side handles	drill chuck key	drill chuck key

Power and free speed at 6 bar operating pressure. Compressed air quality: lubricated.

Accessories



For type	D 10-1800 P	D 13-900 P	D 13-380 P	D 13-45 P	D 15-600 P	D 15-1800 P
Gear rim drill chuck	9 376 014	9 376 017	9 376 017	—	9 369 821	9 369 821
Drill chuck key	9 369 811	9 376 018	9 376 018	—	9 376 018	9 376 018
Quick change drill chuck	9 369 989	9 369 991	9 369 991	9 369 992	—	—
Side handles	—	—	—	29943-42-6	47409-00-5	47409-00-5

→ Accessories page 73

Drills (straight)

With gear rim drill chuck

- Suitable for vertical drilling work
- Exhaust air to the rear
- Very low-noise
- Suitable for brushing
- Handy and light-weight



1

Technical data

Type		D 6-5000 H	D 6-3500 H	D 8-6002 H	D 8-3702 H	D 8-2802 H
Article No.		48100-30-5	48100-31-5	29945-33-5	29945-34-5	29945-35-5
Illustration		1	1	1	1	1
Valve		lever valve	lever valve	lever valve	lever valve	lever valve
Free speed	rpm	6 000	3 500	6 000	3 700	2 800
Power	Watt	150	150	320	320	320
DIN taper		B 10	B 10	B 12	B 12	B 12
Drill chuck clamp. range	mm	1 – 6	1 – 6	1 – 10	1 – 10	1 – 10
Drilling capacity steel	mm	4	5	6	6	6
Drilling capacity alumin.	mm	6	8	10	10	10
Noise level	dB(A)	67	67	70	70	70
Air consumption	l/sec	4.2	4.2	5.3	5.3	5.3
Weight without hose	kg	0.70	0.70	1.20	1.20	1.20
Ø machine	mm	31	31	38	38	38
Machine length	mm	195	195	222	222	226
Hose I.D.	mm	6	6	6	6	6
Connection		G 1/4" i	G 1/4" i	G 1/4" i	G 1/4" i	G 1/4" i
Accessories supplied		drill chuck key	drill chuck key	drill chuck key, hose unit	drill chuck key, hose unit	drill chuck key, hose unit

Power and free speed at 6 bar operating pressure. Compressed air quality: lubricated.

Accessories



For type	D 6-5000 H	D 6-3500 H	D 8-6002 H	D 8-3702 H	D 8-2802 H
Gear rim drill chuck	9 376 019	9 376 019	9 376 014	9 376 014	9 376 014
Drill chuck key	9 369 811	9 369 811	9 369 811	9 369 811	9 369 811
Quick change drill chuck	9 369 990	9 369 990	9 369 988	9 369 988	9 369 988
Hose unit	29200-31-5	29200-31-5	29923-33-5	29923-33-5	29923-33-5

Hose unit incl. air supply and air exhaust hose.

→ Accessories page 73

- Suitable for vertical drilling work
- Exhaust air to the rear
- Very low-noise
- DS-model with collet suitable for brushing
- Handy and light-weight

Drills (straight) With collet



1

2

3

Technical data

Type		DS 6000-100 H	DS 6002 H	DS 6-5000 H	DS 8-2802 H
Article No.		60016-00-5	29945-99-5	48100-20-5	29945-36-5
Illustration		1	3	2	3
Valve		lever valve	lever valve	lever valve	lever valve
Free speed	rpm	6 000	6 000	5 000	2 800
Power	Watt	320	320	150	320
Collet included	mm	6	6	6	8
Noise level	dB(A)	70	70	67	70
Air consumption	l/sec	5.3	5.3	4.2	5.3
Weight without hose	kg	1.30	1.00	0.70	1.10
Ø machine	mm	38	38	31	38
Machine length	mm	311	197	180	197
Hose I. D.	mm	6	6	6	6
Connection		G 1/4" i	G 1/4" i	G 1/4" i	G 1/4" i
Accessories supplied		Collet, wrench, hose unit	Collet, wrench, hose unit	Collet, wrench	Collet, wrench, hose unit

Power and free speed at 6 bar operating pressure. Compressed air quality: lubricated.

Accessories



For type	DS 6000-100 H	DS 6002 H	DS 6-5000 H	DS 8-2802 H
Collet 6 mm	9 369 891	9 369 826	9 369 918	9 369 826
Collet 8 mm	—	9 369 843	—	9 369 843
Hose unit	29923-33-5	29923-33-5	29200-31-5	29923-33-5

Hose unit incl. air supply and air exhaust hose.

→ Accessories page 73

Angle drills

With Morse taper

- The speed regulator fitted as standard ensures that a constant speed can be maintained, even under the smallest load
- This means that there is very little wear on the vanes
- Drill bits are changed by means of a feed screw
- The very small centre-to-centre distance allows the drills to be used close to walls



D 3350

D 3400

Clockwise turning | Technical data

Type		D 3300	D 3350	D 3400	D 3450
Article No.		43300-00-6	43350-00-6	43400-00-6	43450-00-6
Direction of rotation		clockwise	clockwise	clockwise	clockwise
Drilling in steel up to	mm	15	23	32	50
Reaming up to	mm	12	18	27	36
Morse taper		1	2	3	4
Free speed	rpm	1 000	400	400	300
Air consumption, under load	m ³ / min	0.6	1.6	2.1	2.2
Air consumption, at free speed	m ³ / min	0.6	0.7	0.8	1.0
Power	kW	0.48	1.50	2.10	2.20
Length	mm	318	446	480	507
Height	mm	141	193	215	239
Feed via feed screw	mm	45	60	75	75
Distance from centre of spindle to outer edge	mm	25	30	35	40
Weight	kg	2.9	8.3	11.7	13.9
Hose I. D.	mm	10	15	15	19
Connection		G 3/8" i	G 1/2" i	G 1/2" i	G 1/2" i

Power and free speed at 6 bar operating pressure.

Accessories supplied



For type	D 3300	D 3350	D 3400	D 3450
External thread coupling	9 361 337	9 361 338	9 361 337	9 361 338

→ Accessories page 73

- Angle drills with collet for difficult to access areas
- Quick-action drill chuck on request
- Lever start
- Exhaust air to the rear

Angle drills

With gear rim drill chuck, collet



DW 2200



DWS 2201



DW 700

Technical data

Type		DW 2200	DWS 2201	DW 700
Article No.		29945-65-6	60026-52-6	29945-66-6
Valve		lever valve	lever valve	lever valve
Free speed	rpm	2 200	2 200	700
Power	Watt	300	300	300
Collet	mm	—	6	—
Drill chuck clamping range	mm	1 – 8	—	1 – 10
Taper DIN		3/8" × 24 UNF	—	3/8" × 24 UNF
Noise level	dB(A)	76	76	76
Air consumption	l/sec	9	9	9
Length	mm	255	255	285
Head height	mm	83	54	90
Ø machine	mm	40	40	40
Weight	kg	1.10	1.00	1.30
Connection	G	1/4" i	1/4" i	1/4" i
Hose I. D.	mm	8	8	8
Accessories supplied		drill chuck key	wrench, collet	drill chuck key

Power and free speed at 6 bar operating pressure. Compressed air quality: lubricated.

Accessories



Gear rim drill chuck	DW 2200	DWS 2201	DW 700
Article No.	9 376 023	—	9 376 022
Collets			
3 mm	—	9 369 853	—
5 mm 3/16"	—	9 369 838	—
6 mm	—	9 369 832	—

Collets

1 | 1.5 | 3.5 | 4.5 | 5.5 mm
available on request.

→ Accessories page 73

Countersinks

Deburring of drillings



BS 502

BS 500 P

- Extremely quiet and robust
- Automatic start as soon as pressure is applied (Type BS 502)
- Low air consumption, as drive is only active during actual operation
- Thus leading to longer service life
- Suitable for additional activities during the main production time on CNC machine tools
- Cold-insulating handle
- The ergonomic design of the handle means that work is non-tiring
- BS 502, BSW 903 and BSW 506 with speed regulator
- The ease of operation is supported by a starter button on the type BS 500 P
- BSW 903 and BSW 506 (angle version) for deburring of places only accessible with difficulty, e. g. holes with cross sections

Technical data

Type		BS 502	BS 500 P	BSW 903	BSW 506
Article No.		29602-46-5	29500-32-5	60012-08-5	29945-64-5
Valve		push start	starter button	lever valve	lever valve
Free speed	rpm	500	500	900	500
Speed regulator		ja	—	ja	ja
Power	Watt	160	160	35	65
Chamfering range	mm	5 – 30	5 – 30	2 – 10	5 – 25
Collet included	mm	8	8	3 skt	1/4" skt
Collet optional	mm	6, 10	6, 10	—	—
Noise level	dB(A)	65	63	68	71
Air consumption	l / sec	5.0	5.0	2.8	5.0
Weight without hose	kg	0.65	0.78	0.40	0.85
Ø machine	mm	31	31	25	30
Machine length	mm	230	190	258	295
Head height without counterbore	mm	—	—	18	30.5
Hose unit					
Supply air hose	m	1.5	—	1.5	1.5
Exhaust air hose	m	1	—	1	1
Connection		G 1/4"	G 1/4" i	G 1/4"	G 1/4"
Accessories supplied		drill chuck key	drill chuck key	—	—

Power and free speed at 6 bar operating pressure. Compressed air quality: lubricated.



BSW 903

BSW 506

→ Accessories page 61

Countersinks

Deburring of drillings



HSS counterbore BS



HSS counterbore BSW 506



HSS counterbore BSW 903

HSS counterbores

For types BS 502 and BS 500 P

3 teeth, shaft 8 Ø / 90°

Sinking range 3.5 – 14 mm	48109-11-6
Sinking range 5 – 25 mm	48109-10-6
Sinking range 5 – 30 mm	48109-09-6

For type BSW 506

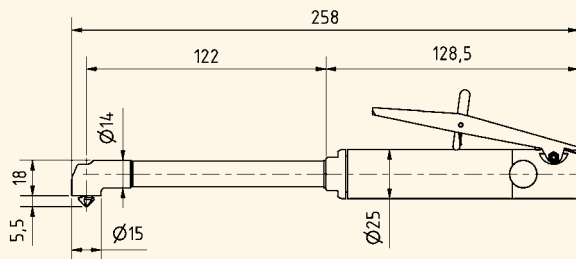
3 teeth, 1/4" hexagon / 90°

Sinking range 2.5 – 10 mm	48109-21-6
Sinking range 3.2 – 16,5 mm	48109-22-6
Sinking range 3.5 – 20.5 mm	48109-23-6
Sinking range 5 – 25 mm	48109-24-6

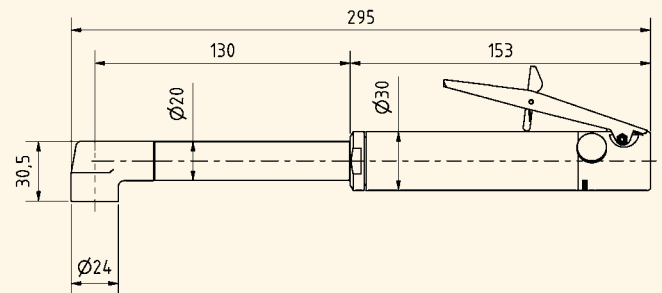
For type BSW 903

3 teeth, 3 mm hexagon / 90°

Sinking range 2 – 6 mm	48109-26-6
Sinking range 2 – 10 mm	48109-25-6



BSW 903



BSW 506

Accessories

Hose unit	BS 502	BS 500 P	BSW 903	BSW 506
Article No.	29603-25-5	—	60012-24-5	29923-49-5
Collets				
6 mm	9 369 837	9 369 837	—	—
8 mm	9 369 818	9 369 818	—	—
10 mm	9 369 817	9 369 817	—	—

Tapping machines



GE 8-500 P



G 14-6 P

- Handy-ergonomic aluminium handle
- Quiet, high power
- Reversible forward and return speed with rocker
- Efficient operation: pendular chuck makes it easy to start the cut
- Optimum cutting power
- Backward speed twice that of forward motion on model G 14-6 P
- Model G 14-6 P: reversing gear
- Available with quick change chuck upon request
- For standard thread taper holder up to 11 x 9 are available

Technical data

Type		GE 8-500 P	GE 8-900 P	G 14-6 P
Article No.		47060-06-5	47060-08-5	47650-53-5
Free speed	rpm	500	900	600
Power	Watt	200	200	550
Pendular chuck		Ja	Ja	Ja
Square clamping range	mm	3 – 9	3 – 9	6 – 9
Taper DIN 238		B 12	B 12	B 12
Tapping in steel	mm	M 6	M 6	M 14
Tapping in aluminium	mm	M 8	M 8	M 16
Ø machine	mm	38	38	52
Machine length	mm	251	251	318
Noise level	dB(A)	77	77	78
Weight without hose	kg	1.20	1.20	2.20
Air consumption	l/sec	4.5	4.5	9.0
Hose I.D.	mm	6	6	10
Connection		G 1/4" i	G 1/4" i	G 1/4" i
Accessories supplied		pendular chuck	pendular chuck	pendular chuck, side handle

Power and free speed at 6 bar operating pressure. Compressed air quality: lubricated.

Accessories

Type	Tapping chuck assy.	Drill chuck key	Integral chuck jaws	Side handles
GE 8 without round wedge	9 369 982	9 369 834	9 369 954	03256-00-5
G 14 with round wedge	9 369 833	9 369 834	9 369 955	03208-97-6



Swivel joint

Variacor	60001-60-6
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Further Information see p. 74

→ Accessories page 73

- Safety lever start
- Can be used without lubrication
- Integrated silencer
- Ergonomic handle
- Versatile in usage
- Tapping tools for dead end holes upon request



Rotation direction reversed easily by pulling machine

Tapping machines Straight form



MAS 8

Technical data

Type		MAS 8	MAY 10	MAY 12
Article No.		134 610 108	134 309 028	136 309 016
Start with pressure		lever start	lever start	lever start
Free speed clockwise	rpm	500	450	220
Free speed counter clockwise	rpm	800	930	470
Quick change chuck		yes	yes	yes
Tapping in steel	mm	M 8	M 10	M 12
Tapping in aluminium	mm	M 12	M 13	M 14
Noise level	dB(A)	74	78	78
Air consumption	l / sec	9	11	11
Machine length	mm	240	335	335
Ø machine	mm	40	46	46
Weight without hose	kg	0.98	1.82	1.82
Connection	G	1/4" i	1/4" i	1/4" i
Hose I. D.	mm	8	8	8
Accessories supplied	quik change chuck for tap holder, side handle, pendant			
Power and free speed at 6 bar operating pressure. Compressed air quality: lubricated.				

Quick change chuck for tap holder

For tapping air tools	Article No.
MAS 8	65 941 1001
MAY 10	65 961 1001
MAY 12	65 961 1001

Tap holder

Tap holders allow a quick use of different taper sizes

	Ø Shaft taper mm	□ Square drive taper mm	Article No.
M 2	2.8	2.1	65 521 1028
M 3	3.5	2.7	65 527 1035
M 3.5	4.0	3.0	65 530 1040
M 4	4.5	3.4	65 534 1045
M 5 6 8	6.0	4.9	65 549 1060
M 10	7.0	5.5	65 555 1070
M 11	8.0	6.2	65 562 1080
M 12	9.0	7.0	65 570 1090
M 14	11.0	9.0	65 590 1110

Air saw

For sheet steel, aluminium and plastics



SRV 110

- The air saw is ideal for the processing of sheet steel (autobody sheet, pipes out of sheet metal etc.), aluminium and plastics
- High cutting speed
- High performance at low air consumption
- Low noise level
- Anti vibration system patented
- Saw blades of steel
- Safety lever according to EN 792
- Fulfills the European Union guideline 2002 / 44 / EC with the vibration value of 2 m / s²

Technical data

Type		SRV 110
Article No.		29800-27-6
Number of blows	rpm	9 000
Stroke length	mm	8
Air consumption	l / sec	1.5
Noise level	dB(A)	80
Ø machine	mm	41
Machine length	mm	210
Weight without hose	kg	1.15
Hose I. D.	mm	8
Connection		G 1/4" i
Accessories supplied		wrench, 1 set of saw blade

Power and free speed at 6 bar operating pressure.
Compressed air quality: lubricated.

Saw blades | length 96 mm

Range of application	Tooth distance	Teeth per inch	Article No.
ST 37 / V2A and non-ferrous metals up to 1 mm. Suitable for curved cut.	0.8 mm	32	29905-10-6
ST 37 / V2A and non-ferrous metals up to 2 mm. Suitable for curved cut.	1.0 mm	24	29905-11-6
ST 37 / V2A and non-ferrous metals up to 2.5 mm. Wood, plastics, laminated fabrics.	1.8 mm	14	29905-12-6

→ Accessories page 73

- To remove welding cinder and paint as well as for concrete plastering
- Extremely low vibrations level: 2 m/s^2
- Patented vibration system
- Noise level under 80 dB(A)
- Blowing function available on request

Chipping hammers Straight form



SHV 150

Technical data

Type		SHV 150	SHV 150 B
Article No.		35970-00-6	35970-01-6
Valve		lever start	lever start
Number of blows	rpm	9 000	9 000
Frequency	Hz	150	150
Exhaust air		to front	to front
Vibration	m/s^2	2.0	2.0
Noise level	dB(A)	76	76
Air consumption	l/sec	1.5	1.5
Ø machine	mm	40	40
Machine length	mm	210	210
Weight	kg	1.45	1.45
Hose I.D.	mm	6	6
Connection thread		G 1/4" i	G 1/4" i
Accessories supplied		wrench	wrench

Power and number of blows at 6 bar operating pressure. Compressed air quality: lubricated.

Flat chisel

For type		SHV 150, SHV 150 B
Flat chisel, with tungsten tip	100 × 10 mm	39525606
Flat chisel, with tungsten tip	100 × 17 mm	39525616
Flat chisel, with tungsten tip	100 × 36 mm	39525626

→ Accessories page 73

Needle scalers

- Versatile use for burring, cleaning, separating slag, trimming of castings, roughening, removing of paint
- Easy change of needles with bayonet joint
- Vibration level $\leq 5 \text{ m/s}^2$
- Patented vibration system
- Low air consumption



GNV 19 | GNV 28



NGV 18

Technical data

Type		GNV 19	GNV 28	NGV 18
Article No.		60000-73-6	60003-89-6	29701-11-6
Valve		lever start	lever start	lever start
Number of blows	rpm	6 600	5 500	8 700
Frequency	Hz	110	91	145
Exhaust air		to front	to front	to front
Vibration	m/s^2	3.7	4.0	3.5
Number of needles		19	28	18
Length of needles	mm	127	140	127
Ø needle	mm	3.2	3.2	3.0
Noise level	dB(A)	98	99	93
Air consumption	l/sec	2.0	2.2	1.6
Ø machine	mm	49	49	40
Machine length	mm	272	290	310
Weight	kg	2.40	3.05	1.95
Hose I.D.	mm	10	10	10
Connection thread		G 1/4" i	G 1/4" i	G 1/4" i
Accessories supplied		needle set	needle set	needle set

Power and number of blows at 6 bar operating pressure. Compressed air quality: lubricated.

Needles for replacement

For Type	GNV 19	GNV 28	NGV 18
Set	9376918 (127 mm)	9376919 (140 mm)	9376917 (178 mm)
Set	9376914 (178 mm)	9376920 (178 mm)	9376913 (127 mm)

→ Accessories page 73

Assembly and torque measuring technology
For the complete range of assembly tools
see our website or ask our local partner





The many advantages of MANNESMANN DEMAG impact wrenches:

- Excellent power / weight ratios and very small reaction forces
- Easy and non-tiring to use
- Comfortable to service thanks to their two-part housing
- High power production with an economical air consumption
- For robust use in all branches of industry
- Can be used over a wide range thanks to adjustable impact strength
- Exhaust air through the handle

Hammer mechanism options:

- 1 TWIN hammer mechanism allows two strikes per round on both sides of the drive spindle
- 2 The three jaw system strikes both jaws of the drive spindle simultaneously for an outstanding high power
- 3 One jaw hammer mechanism strike once on one side of the drive spindle for a very powerful impulse

Impact wrenches

Guideline values for torques and pretensioning forces according to DIN 13

Screw quality according to DIN 267

Size	screw width internal mm	screw width external mm	3.6 torque Nm	4.6 torque Nm	4.8 torque Nm	5.6 torque Nm	5.8 torque Nm	6.9 torque Nm	8.8 torque Nm	10.9 torque Nm	12.9 torque Nm
M 4	3	7	0.85	1.10	1.50	1.40	1.90	2.30	2.90	4.10	4.90
M 5	4	9	1.70	2.20	3.00	2.80	3.70	4.50	6.00	8.50	10.00
M 6	5	10	2.90	3.90	5.10	4.80	6.40	7.70	10.00	14.00	17.00
M 8	6	13	7.00	9.30	12.00	12.00	16.00	19.00	25.00	35.00	41.00
M 10	8	17	14.00	19.00	25.00	23.00	31.00	37.00	49.00	69.00	83.00
M 12	10	19	24.00	32.00	43.00	40.00	54.00	65.00	86.00	120.00	145.00
M 14	12	22	39.00	51.00	68.00	64.00	86.00	105.00	135.00	190.00	230.00
M 16	14	24	59.00	79.00	105.00	98.00	130.00	155.00	210.00	295.00	355.00
M 18	14	27	81.00	110.00	145.00	135.00	180.00	215.00	290.00	405.00	485.00
M 20	17	30	115.00	155.00	205.00	190.00	255.00	305.00	410.00	580.00	690.00
M 22	17	32	155.00	205.00	275.00	260.00	345.00	415.00	550.00	780.00	930.00
M 24	19	36	200.00	265.00	350.00	330.00	440.00	530.00	710.00	1 000	1 200
M 27	19	41	295.00	390.00	520.00	490.00	650.00	780.00	1 050	1 500	1 800
M 30	22	46	395.00	530.00	710.00	660.00	880.00	1 050	1 450	2 000	2 400
M 33	24	50	540.00	720.00	960.00	900.00	1 200	1 450	1 900	2 700	3 250
M 36	27	55	690.00	920.00	1 250	1 150	1 550	1 850	2 450	3 450	4 150
M 39	27	60	920.00	1 200	1 600	1 500	2 000	2 400	3 200	4 500	5 400
M 42	32	65	1 100	1 500	1 950	1 850	2 450	2 950	3 950	5 550	6 650
M 45	32	70	1 400	1 850	2 450	2 300	3 100	3 700	4 950	6 950	8 350
M 48	36	75	1 700	2 250	3 000	2 800	3 750	4 450	5 950	8 400	10 100
M 52	36	80	2 150	2 900	3 850	3 600	4 800	5 750	7 650	10 800	12 900
M 56	—	85	2 700	3 600	4 800	4 500	5 950	7 150	9 550	13 400	16 100
M 60	—	90	3 350	4 450	5 950	5 550	7 400	8 900	11 900	16 700	20 000
M 64	—	95	4 000	5 350	7 150	6 700	8 950	10 700	14 300	20 100	24 100
M 68	—	100	4 850	6 500	8 650	8 100	10 800	13 000	17 300	24 300	29 100

The table shows an overview of necessary torques for screws and nuts of all grades.



Impact wrenches

- Type E 10 PS3 with quick-change chuck
- Type E 25 P: long lifetime because the strike mechanism is permanently greased via an oil bath



E 10 P3



E 10 PS3



E 16 P3



E 24 P3

Technical data

Type		E 10 P3	E 10 PS3	E 16 P3	E 18 P3	E 24 P3	E 25 P	E 27 P
Article No.		29501-56-5	29501-57-5	03954-77-4	29915-32-5	29908-31-5	29946-37-6	60053-08-6
For screws up to	mm	M 6 – M 12	M 6 – M 12	M 6 – M 18	M 8 – M 18	M 14 – M 24	M 14 – M 24	M 14 – M 24
Torque max.	Nm	140	80	350	400	950	1 500	1 600
Working range	Nm	30–110	15–60	70–210	80–240	200–570	320–910	320–910
Driv. square end		3/8"	1/4" SWF	1/2"	1/2"	3/4"	3/4"	3/4"
Length	mm	155	165	180	185	214	189	182
Throttle stages		4	4	4	4	4	—	—
Air consumption	m ³ /min	0.28	0.28	0.40	0.68	0.77	0.95	0.90
Weight	kg	1.20	1.25	2.35	2.40	4.15	5.68	5.95
Number of blows	p. min.	2 600	2 600	1 500	1 100	1 000	830	1 000
Free speed	rpm	10 000	10 000	8 000	6 800	5 300	4 800	5 400
Connection		G 1/4" i	G 1/4" i	G 1/4" i	G 1/4" i	G 3/8" i	G 1/2" i	G 1/2" i
Hose I. D.	mm	10	10	10	10	10	13	13
Noise level	dB(A)	72	72	72	85	85	87	94
Hammer mechanism		jaw hammer mechanism	jaw hammer mechanism	jaw hammer mechanism	TWIN hammer mechanism	three jaw hammer mechanism	TWIN hammer mechanism	three jaw hammer mechanism

Power and free speed at 6 bar operating pressure. Compressed air quality: lubricated.

Accessories supplied

E 10 – E 18	Clamp. impact grease, oil bottle
E 24 – E 57	Thread socket, impact grease, oil bottle

Accessories

Swivel joint

1/4" × 1/4" internal / external	60001-60-6
3/8" × 3/8" internal / external	60001-61-6
1/2" × 1/2" internal / external	60001-62-6



Impact wrench with swivel joint



E 31 P



E 36 P2



E 41 F



E 40 P

Technical data

Type		E 31 P	E 33 P	E 36 P2	E 41 F	E 40 P
Article No.		60029-74-6	29946-39-6	60051-65-6	60053-09-6	60010-92-6
For screws up to	mm	M 16 – M 26	M 18 – M 33	M 18 – M 40	M 18 – M 40	M 18 – M 45
Torque max.	Nm	1 900	2 500	3 000	3 185	3 700
Working range	Nm	200–1 450	490–1 325	685–1 570	600–2 060	785–1 670
Driv. square end		1"	1"	1"	1"	1"
Length	mm	266	235	223	299	240
Throttle stages		—	—	—	—	—
Air consumption	m ³ /min	1.10	1.10	1.35	1.25	1.35
Weight	kg	5.60	7.27	9.10	9.50	10.85
Number of blows	p. min.	1 150	780	780	750	755
Free speed	rpm	6 800	4 300	3 100	3 300	3 000
Connection		G 1/2" i	G 1/2" i	G 1/2" i	G 1/2" i	G 1/2" i
Hose I. D.	mm	13	13	13	16	13
Noise level	dB(A)	90	92	90	99	90
Hammer mechanism		three jaw hammer mechanism	three jaw hammer mechanism	three jaw hammer mechanism	three jaw hammer mechanism	three jaw hammer mechanism

Power and free speed at 6 bar operating pressure. Compressed air quality: lubricated.



Extended drive spindle E 33 P (150 mm)



Accessories

For Types E 31 – 57

Throttle control 1/2" i	03024-47-4
Throttle control 3/8" i	60010-93-6

Impact wrenches



E 57 F



A 71

Technical data

Type		E 57 F	A 71	A 81
Article No.		60056-38-6	45700-01-6	45800-01-6
For screws up to	mm	M 24 – M 55	M 30 – M 80	M 50 – M 110
Torque max.	Nm	5 900	8 000	24 000
Working range	Nm	1 300–3 200	2 300–5 275	5 400–7 850
Driv. square end		1 1/2"	1 1/2"	2 1/2"
Length	mm	365	448	535
Throttle stages		—	—	—
Air consumption	m ³ /min	1.60	2.80	5.50
Weight	kg	14.55	32.00	67.00
Number of blows	p. min.	650	515	400
Free speed	rpm	3 200	2 300	2 100
Connection		G 1/2" i	G 3/4" i	G 1" i
Hose I. D.	mm	16	19	25
Noise level	dB(A)	90	104	104
Hammer mechanism		three jaw hammer mechanism	three jaw hammer mechanism	three jaw hammer mechanism

Power and free speed at 6 bar operating pressure. Compressed air quality: lubricated.



Holster

for impact and hydropulse wrenches

- Universal and protective
- Tool is always within reach
- Tidy working area

Impact wrench with holster

For E 10 – E 18, RRI

60012-17-6

Accessories

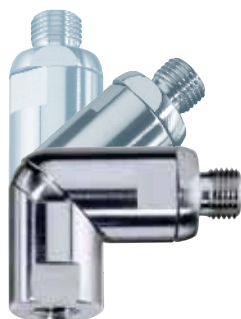
For the complete range of accessories
see our website or ask our local partner.



Accessories

Variacor®-swivel joint

For all airtools



Variable swiveling



Example G 201 HV



More flexibility

The Variacor®-swivel joint can be used with all air tools and inelastic hoses.

System features

- No deviation of the hose means longer lifetime
- Less stress on the workers wrist and muscles means comfortable work
- Efficient: low pressure decrease, connection directly to the tool, hose and tool can be positioned in an optimal way

Dimensions



Connection	A	B	C	D
			internal thread	external thread
1/4" × 1/4"	24.0	67	G 1/4"	G 1/4"
3/8" × 3/8"	29.5	82	G 3/8"	G 3/8"
1/2" × 1/2"	29.5	82	G 1/2"	G 1/2"
3/4" × 3/4"	46.0	98	G 3/4"	G 3/4"
1" × 1"	46.0	98	G 1"	G 1"



Accessories

Variacor®-swivel joint 90° pivoting, 360° turning



Technical data

Connection	Thread	Air flow l/sec	Weight g	Ø internal mm	Article No.
1/4" × 1/4"	internal / external	12	72	7	60001-60-6
3/8" × 3/8"	internal / external	30	126	11	60001-61-6
1/2" × 1/2"	internal / external	30	132	11	60001-62-6
3/4" × 3/4"	internal / external	52	358	16	60001-63-6
1" × 1"	internal / external	52	372	16	60001-64-6

Max. 10 bar air pressure. Temperature range min. – max.: –10 to +70 °C.



Accessories

Filter lubrication units (FLU), pressure reducers, special oil



Service unit and compressed air special oil

Pressure reducer and accessories

Filter lubrication units

- Block-built, two-piece
- Consist of condensate filter with pressure regulator and oil-fog lubricator

		with increased air flow!			
Connection		1/4"	3/8"	1/2"	1"
Article No.		030 290 74	030 291 74	030 292 74	030 293 74
Operat. pressure min. – max.	bar	0.5 – 16	0.5 – 16	0.5 – 16	0.5 – 16
Flow rate max.	m ³ / min	1.50	1.80	3.40	5.00
Width × Height	mm	96 × 203	96 × 203	140 × 273	195 × 273

Pressure reducers

- Block-built
- Manual condensate drain

Connection		1/4"
Article No.		030 280 74
Operating pressure min. – max.	bar	0.5 – 16
Flow rate max.	m ³ / min	2.00
Width × Height	mm	48 × 203

Accessories

Distribution unit	R 3/8"	R 3/8"	R 1/2"
Article No.	9325215	9325216	9325217
Outlets	2	3	3

Double nipple	1/4"	3/8"	1/2"
Article No.	49410-50-6	49410-51-6	49410-52-6

Reducing nipple	1/2" × 3/8"	1" × 3/4"
Article No.	9325210	9325211

Compressed air special oil

- For oil-fog lubrication and FLU
- According to DIN 51 524-2 with viscosity class VG 32 according to ISO 3448
- Viscosity at 40 °C: –32 mm² / s; 32 cSt

Special oil	Bottle 1 litre	Can 5 litre
Article No.	095 055 33	095 085 33



Insight in our production

Our highly motivated workers produce precision parts with CNC machining centres in our modern job shop. This is the basis for best quality and optimized lifetime of our air driven products. Precisely fitting parts are the basis for efficient assembly processes and cost effective repairs.

After machining the parts the next steps are assembly and end control. Testing stands with lubricated or dry air record all relevant data of the machines during a fully automated test run. All tools and motors leave our company in tested quality. The quality management monitors all production processes. This is proven with TÜV-Cert. ISO 9001:2008.



Air chisel hammers

The light ones



Our light chisel hammers:

- Safely to operate thanks to a smaller and lighter construction
- High-capacity
- Easy handling
- Ergonomical construction
- Easy maintenance

Should you need a trustworthy **repair service** please contact us.

The light chisel hammers are perfectly suitable for the fettling of foundry products, for light works in the building industry, for the frame-and-body construction to disconnect flangings or welded joints. Please find the corresponding chisels and special designs at www.MANNESMANN-DEMAG.com.

Due to the sensitive start, the extensive regulation of the impact strength (regulators can be found in "Accessories") and the only slight recoil these chisel hammers in connection with round guide bushings are also especially suitable for light and very light riveting works.

Because of their light weight our light chisel hammers are perfectly suitable for restoration works in high altitudes.



Perfectly suitable for:

- Running-off of liquid metal melt
- Breaking loose and cleaning of:
 - Converters
 - Casting ladles
 - Induction furnaces
 - Cupola furnaces
 - Refractory brick lining work

Air chisel hammers With metal silencers



You work under difficult conditions? You better use the best hammers!
The robust design is a perfect quality product and especially for the use in heat and melting areas. Our models with metal silencer are extremely vibration dampened. The installed air cushion provides a protection against wearing from unloaded strokes. It is buffered to a working pressure of up to 9 bar.

