



PT. Bumi Teknik Utama

PROFESSIONAL INDUSTRIAL EQUIPMENTS

Jakarta
Semarang
Surabaya
Balikpapan



Product Catalog
2019 - 2020 *Version 3*



A

TOOLS

Our Company

Established in 1968 as CV. Timur Raya, and later renamed to PT. Bumi Teknik Utama in 2004, with offices in Jakarta, Semarang, Surabaya, and Balikpapan. Our divisions are Welding Machines division, Welding Accessories division, Welding Consumable division, Tools & Power Tools division, Panel & Hand Tools, Retail division and Service & Support division.

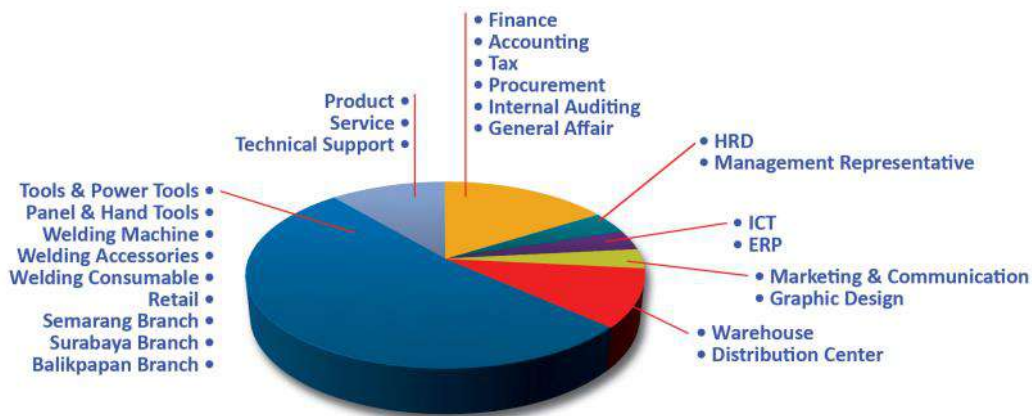
In order to serve our customers better, we established Bumi Distribution Center in Cengkareng and we are planning to open more branches in different provinces and cities in the nationwide.

More than 50 years of industrial experience and utilizing a strong backbone of the latest computerized system, such as online "SAP" ERP system, Business Intelligence and Bumi Intranet, give us the advantageous of fast working collaboration, knowledge, analyze and expertise that contributes greatly to the benefit of our customers.

As one of the fastest growing companies in the industry, we believe Human Capital is one of the company's main pillars. Which we pay lots of attention and investment in the recruitment and talent development program.

Our Customers : Metal Fabricators, Automotive Industry, Shipyard, Power Plant, Mechanical & Electrical, Oil, Gas, Mining and all related supporting Industries.

Our Products : High quality and reliable lifting, cutting, bevelling, grinding, welding, drilling, punching, bending, fastening and related products.



Our Vision : To be the leader in the professional industrial equipments by giving quality products and better after sales services.

Our Mission : To equip our Customers with reliable, durable and efficient Professional Industrial Equipments. Together with preventive and corrective services that fulfill the needs and expectations of our customers and business partners.

Our Core values :

- Treating our customers with respect and faith.
- We grow through creativity, invention and innovation
- We integrate honesty, discipline and commitment into all business aspects.

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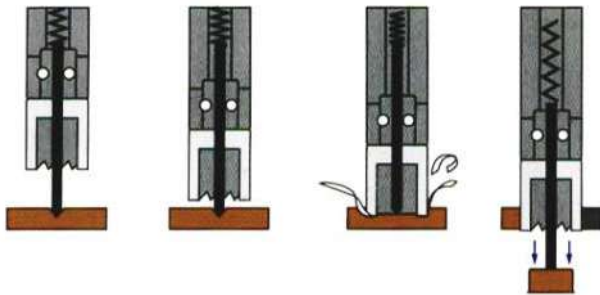
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Cutter Advantageous

Cutter Drilling Process



Better, faster and more efficient than twist drill

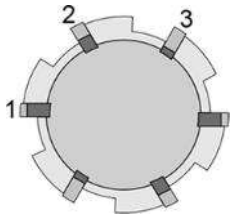
With our Cutter, you can drill without any pre-drilling

Cutter is well established and used in the following Industries :

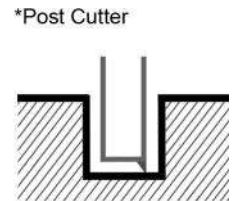
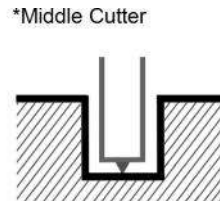
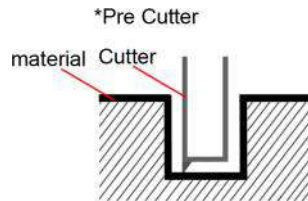
- Steel Fabricators
- Industrial Construction
- Shipbuilding
- Machine Construction
- Truck and Automobile Frame Manufacturing
- Bridges Construction
- Constructions of power plants

Chip Breaker System

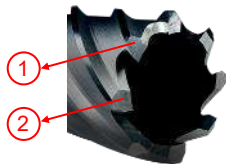
TCT Cutter



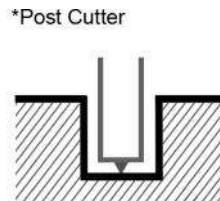
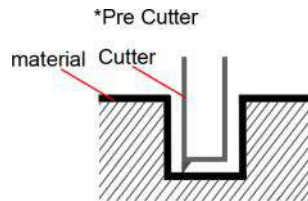
1. Pre Cutter
2. Middle Cutter
3. Post Cutter



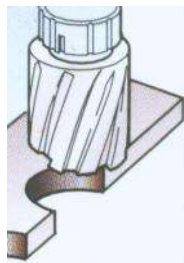
HSS Cutter



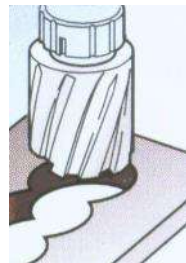
1. Pre Cutter
2. Post Cutter



Cutter can do but not to Twist Drill



Cutter can drill half round hole



Cutter can drill overlapping hole



Cutter drill precisely and no friction

TCT Cutters Technical Info

Clearance Angle is the angle between the TCT tooling and the material to be cut. ALFRA TCT Cutters are equipped with several clearance angles at a cutting edge.

Cutting Depth is the maximum material thickness which might be cut with the particular tool (not to be mistaken with the constructive height of the tool).

Chip Flute takes the generated chips and advances this out of the bore.

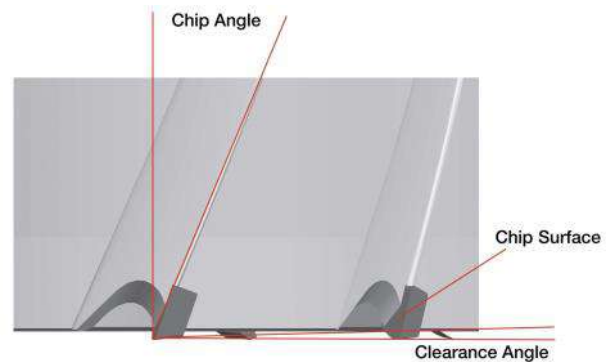
Chip Forwarding Pitch forwards the chips from the TCT tooth to the chip flute.

Chip Surface on this surface the chip is formed.

Chip Angle is the angle between tool axis and chip surface.

Tooth Excess Length is the carbide excess to the basic body.

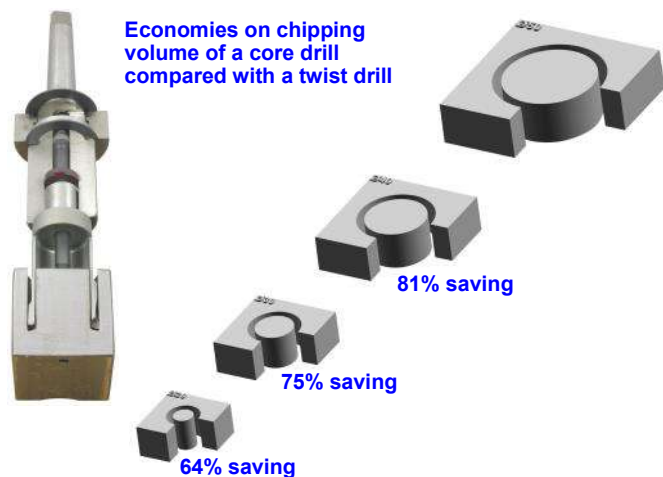
Tooth Height Difference acts as a chip breaker.



Material	m / min	mm / RPM
Constructional Steel 50 kp / m ²	40 - 60	0.08 - 0.12
Steel 50 - 70 kp / m ²	30 - 50	0.08 - 0.12
Stainless Steel	18 - 45	0.80 - 0.10
Cast Iron	65 - 95	0.12 - 0.20
Non-Ferrous Metals, Aluminum	100 - 550	0.22 - 0.45
Exotic Alloys	10 - 30	0.05 - 0.08

The Core Drilling Principle

- Core Drills machine only a fraction of the material at the same bore diameter than a twist drill
- The remaining core is ejected after finishing the drilling process.
- Thereby minor power and feed pressures are required.
- When using twist drills, it is possibly required to pre-drill. This is entirely omitted when using core drills, you can directly drill with the requested diameter.
- The primary drilling time is abbreviated considerably depending on the cutting diameter.



TCT and HSS Cutter RPM Chart

For TCT Cutter			
Material	Unalloyed Steel up to 700 N/mm ²	Alloyed Steel up to 1000 N/mm ²	Alu - Alloy
Vc=m/min	50	35	60
Lubricants	Cutting Oil	Cutting Oil	Cutting Oil
Ø mm	RPM	RPM	RPM
Not suitable for automatic feed !			
18	885	619	1062
19	838	587	1006
20	796	557	955
21	758	531	910
22	724	507	869
23	692	485	831
24	663	464	796
25	637	446	764
26	612	429	735
27	590	413	708
28	569	398	682
29	549	384	659
30	531	372	637
31	514	360	616
32	498	348	597
33	483	338	579
34	468	328	562
35	455	318	546
36	442	310	531
37	430	301	516
38	419	293	503
39	408	286	490
40	398	279	478
41	388	272	466
42	379	265	455
43	370	259	444
44	362	253	434
45	354	248	425
46	346	242	415
47	339	237	407
48	332	232	398
49	325	227	390
50	318	223	382
55	290	203	347
60	265	186	318
65	245	171	294
70	227	159	273
75	212	149	255
80	199	139	239
85	187	131	225
90	177	124	212
95	168	117	201
100	159	111	191

For HSS Cutter			
Material	Unalloyed Steel up to 700 N/mm ²	Alloyed Steel up to 1000 N/mm ²	Alu - Alloy
Vc=m/min	30	20	30
Lubricants	Cutting Oil	Cutting Oil	Cutting Oil
Ø mm	RPM	RPM	RPM
Not suitable for automatic feed !			
12	796	531	796
13	735	490	735
14	682	455	682
15	637	425	637
16	597	398	597
17	562	375	562
18	531	354	531
19	503	335	503
20	478	318	478
21	455	303	455
22	434	290	434
23	415	277	415
24	398	265	398
25	382	255	382
26	367	245	367
27	354	236	354
28	341	227	341
29	329	220	329
30	318	212	318
31	308	205	308
32	299	199	299
33	290	193	290
34	281	187	281
35	273	182	273
36	265	177	265
37	258	172	258
38	251	168	251
39	245	163	245
40	239	159	239
41	233	155	233
42	227	152	227
43	222	148	222
44	217	145	217
45	212	142	212
46	208	138	208
47	203	136	203
48	199	133	199
49	195	130	195
50	191	127	191
60	159	106	159



Rotabest TCT Cutter depth 35 mm

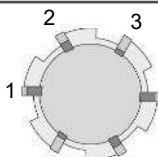


Main Applications

- Steel fabricators
- Shipyard
- Power plant
- Boiler

Chip Breaker System

1. Pre Cutter
2. Middle Cutter
3. Post Cutter



Universal Shank suitable for

- Mag Drill with Weldon
- Mag Drill with One Touch



Advantageous

- Drilling 5 times faster than twist drill
- For heavy to light jobs
- High performance toothing with pre, middle and post cutter, double bevelled
- CAD-optimized cutting geometry for steady flow of chips, uniquely shaped chip grooves to prevent chip jamming,
- Optimum regular chip breaking - smooth and excellent cutting capacity, good chip production at each tooth, regular chip flow
- Rapid drill core removal by ejector pin
- instant centering, no running off center with good concentricity also suitable for NC and CNC Machine
- Minimum cross section of chip removing surface - easy cutting, low torque, low energy consumption
- High tool hardness due to optimum raw material and special heat treatment made it long life and suitable for difficult materials
- High tenacity of cutter, specially graduated hardness - lower risk of tool break especially under rough working conditions
- Industrial scale manufacturing by state of the art CNC technology, results optimum function, best reproducibility and constant quality

Item Code	Item Size	MoQ
209.01.001	Ø 14 mm	1 Pc
209.01.002	Ø 15 mm	1 Pc
209.01.003	Ø 16 mm	1 Pc
209.01.004	Ø 17 mm	1 Pc
209.01.005	Ø 18 mm	1 Pc
209.01.006	Ø 19 mm	1 Pc
209.01.007	Ø 20 mm	1 Pc
209.01.008	Ø 21 mm	1 Pc
209.01.009	Ø 22 mm	1 Pc
209.01.010	Ø 23 mm	1 Pc
209.01.011	Ø 24 mm	1 Pc
209.01.012	Ø 25 mm	1 Pc
209.01.013	Ø 26 mm	1 Pc
209.01.014	Ø 27 mm	1 Pc
209.01.015	Ø 28 mm	1 Pc
209.01.016	Ø 29 mm	1 Pc
209.01.017	Ø 30 mm	1 Pc
209.01.018	Ø 31 mm	1 Pc
209.01.019	Ø 32 mm	1 Pc
209.01.020	Ø 33 mm	1 Pc
209.01.021	Ø 34 mm	1 Pc
209.01.022	Ø 35 mm	1 Pc

Item Code	Item Name	MoQ
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Optional Accessories



209.09.001	Pin TCT 35 Ø 14 - 17 mm, 6.35 x 87 mm	1 Pc
225.05.001	Pin TCT 35 Ø 14 - 17 mm, 6.34 x 90 mm	1 Pc
209.09.002	Pin TCT 35 Ø 18 - 35 mm, 8 x 87 mm	1 Pc
225.05.002	Pin TCT 35 Ø 18 - 35 mm, 7.98 x 90 mm	1 Pc



209.12.005	Tool Holder AMT 2 with Internal Cooling	1 Pc
209.12.006	Tool Holder AMT 3 with Internal Cooling	1 Pc
225.06.001	Tool Holder - MT2 - 19.05 x 50, with Internal Cooling	1 Pc
225.06.002	Tool Holder AMT 3 with Internal Cooling	1 Pc



208.25.010	Coolant Tank	1 Pcs
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308.02.001	Coolant 2000 at 1 Liter	1 Pcs
308.02.002	Coolant 2000 at 5 Liter	1 Pcs



Rotabest TCT Cutter depth 50 mm

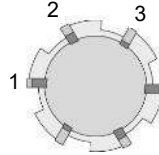


Main Applications

- Steel fabricators
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- Boiler

Chip Breaker System

1. Pre Cutter
2. Middle Cutter
3. Post Cutter



Universal Shank suitable for

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- Mag Drill with One Touch



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- For heavy to light jobs
- High performance toothing with pre, middle and post cutter, double bevelled
- CAD-optimized cutting geometry for steady flow of chips, uniquely shaped chip grooves to prevent chip jamming,
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- Rapid drill core removal by ejector pin
- Instant centering, no running off center with good concentricity also suitable for NC and CNC Machine
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- High tool hardness due to optimum raw material and special heat treatment made it long life and suitable for difficult materials
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Item Code	Item Size	MoQ
209.02.001	Ø 14 mm	1 Pc
209.02.002	Ø 15 mm	1 Pc
209.02.003	Ø 16 mm	1 Pc
209.02.004	Ø 17 mm	1 Pc
209.02.005	Ø 18 mm	1 Pc
209.02.006	Ø 19 mm	1 Pc
209.02.007	Ø 20 mm	1 Pc
209.02.008	Ø 21 mm	1 Pc
209.02.009	Ø 22 mm	1 Pc
209.02.010	Ø 23 mm	1 Pc
209.02.011	Ø 24 mm	1 Pc
209.02.012	Ø 25 mm	1 Pc
209.02.013	Ø 26 mm	1 Pc
209.02.014	Ø 27 mm	1 Pc
209.02.015	Ø 28 mm	1 Pc
209.02.016	Ø 29 mm	1 Pc
209.02.017	Ø 30 mm	1 Pc
209.02.018	Ø 31 mm	1 Pc
209.02.019	Ø 32 mm	1 Pc
209.02.020	Ø 33 mm	1 Pc
209.02.021	Ø 34 mm	1 Pc
209.02.022	Ø 35 mm	1 Pc
209.02.023	Ø 36 mm	1 Pc
209.02.024	Ø 37 mm	1 Pc
209.02.025	Ø 38 mm	1 Pc
209.02.026	Ø 39 mm	1 Pc
209.02.027	Ø 40 mm	1 Pc
209.02.028	Ø 41 mm	1 Pc
209.02.029	Ø 42 mm	1 Pc
209.02.030	Ø 43 mm	1 Pc
209.02.031	Ø 44 mm	1 Pc
209.02.032	Ø 45 mm	1 Pc
209.02.033	Ø 46 mm	1 Pc
209.02.034	Ø 47 mm	1 Pc
209.02.035	Ø 48 mm	1 Pc
209.02.036	Ø 49 mm	1 Pc
209.02.037	Ø 50 mm	1 Pc

Item Code	Item Name	MoQ
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Optional Accessories



209.09.003	Pin TCT 50 Ø 18 - 50 mm & AL 50 Ø 51 - 100 mm, 8 x 102 mm	1 Pc
209.09.004	Pin TCT 50 Ø 14 - 17 mm & HSS 50 Ø 12 - 50 mm, 6.35 x 102 mm	1 Pc
225.05.003	Pin TCT 50 Ø 14 - 17 mm, 6.34 x 106 mm	1 Pc
225.05.004	Pin TCT 50 Ø 18 - 50 mm, 7.98 x 108 mm	1 Pc



209.12.005	Tool Holder AMT 2 with Internal Cooling	1 Pc
209.12.006	Tool Holder AMT 3 with Internal Cooling	1 Pc
225.06.001	Tool Holder - MT2 - 19.05 x 50, with Internal Cooling	1 Pc
225.06.002	Tool Holder AMT3 with Internal Cooling	1 Pc



208.25.010	Coolant Tank	1 Pcs
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308.02.001	Coolant 2000 at 1 Liter	1 Pcs
308.02.002	Coolant 2000 at 5 Liter	1 Pcs



KOBECUT - TCT Cutter depth 35 mm

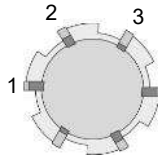


Main Applications

- Steel fabricators
- Shipyard
- Power plant
- Boiler
- Bridges

Chip Breaker System

1. Pre Cutter
2. Middle Cutter
3. Post Cutter



Universal Shank suitable for

- Mag Drill with Weldon
- Mag Drill with One Touch



Advantageous

- Suitable for drilling on cast iron, cast steel, carbon steel, alloy steel, stainless steel, copper, aluminum, etc.
- Drilling 5 times faster than twist drill, reduces the overall effort and time
- High performance tooling with pre, middle and post cutter, double bevelled tips for smooth drilling and less vibration
- Cutting tips geometry for steady flow of chips and preventing chip jamming
- Minimum cross section of chip removing surface - easy cutting, low torque, low energy consumption and low friction
- Better wall design enables cutters to cut faster and more efficiently by removing less material during drilling

Item Code	Item Size	MoQ
225.01.001	Ø 14 mm	1 Pc
225.01.002	Ø 15 mm	1 Pc
225.01.003	Ø 16 mm	1 Pc
225.01.004	Ø 17 mm	1 Pc
225.01.005	Ø 18 mm	1 Pc
225.01.006	Ø 19 mm	1 Pc
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225.01.016	Ø 29 mm	1 Pc
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225.01.019	Ø 32 mm	1 Pc
225.01.020	Ø 33 mm	1 Pc
225.01.021	Ø 34 mm	1 Pc
225.01.022	Ø 35 mm	1 Pc

Item Code	Item Name	MoQ
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Optional Accessories



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209.09.001	Pin TCT 35 Ø 14 - 17 mm, 6.35 x 87 mm	1 Pc
225.05.002	Pin TCT 35 Ø 18 - 35 mm, 7.98 x 90 mm	1 Pc
209.09.002	Pin TCT 35 Ø 18 - 35 mm, 8 x 87 mm	1 Pc



225.06.001	Tool Holder - MT2 - 19.05 x 50, with Internal Cooling	1 Pc
225.06.002	Tool Holder AMT3 with Internal Cooling	1 Pc
209.12.005	Tool Holder AMT2 with Internal Cooling	1 Pc
209.12.006	Tool Holder AMT3 with Internal Cooling	1 Pc



208.25.010	Coolant Tank	1 Pc
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308.02.001	Coolant 2000 at 1 Liter	1 Pc
308.02.002	Coolant 2000 at 5 Liter	1 Pc



KOBECUT - TCT Cutter depth 50 mm

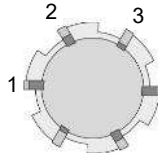


Main Applications

- Steel fabricators
- Shipyard
- Power plant
- Boiler
- Bridges

Chip Breaker System

1. Pre Cutter
2. Middle Cutter
3. Post Cutter



Universal Shank suitable for

- Mag Drill with Weldon
- Mag Drill with One Touch



Advantageous

- Suitable for drilling on cast iron, cast steel, carbon steel, alloy steel, stainless steel, copper, aluminum, etc.
- Drilling 5 times faster than twist drill, reduces the overall effort and time
- High performance toothing with pre, middle and post cutter, double bevelled tips for smooth drilling and less vibration
- Cutting tips geometry for steady flow of chips and preventing chip jamming
- Minimum cross section of chip removing surface - easy cutting, low torque, low energy consumption and low friction
- Better wall design enables cutters to cut faster and more efficiently by removing less material during drilling

Item Code	Item Size	MoQ
225.02.001	Ø 14 mm	1 Pc
225.02.002	Ø 15 mm	1 Pc
225.02.003	Ø 16 mm	1 Pc
225.02.004	Ø 17 mm	1 Pc
225.02.005	Ø 18 mm	1 Pc
225.02.006	Ø 19 mm	1 Pc
225.02.007	Ø 20 mm	1 Pc
225.02.008	Ø 21 mm	1 Pc
225.02.009	Ø 22 mm	1 Pc
225.02.010	Ø 23 mm	1 Pc
225.02.011	Ø 24 mm	1 Pc
225.02.012	Ø 25 mm	1 Pc
225.02.013	Ø 26 mm	1 Pc
225.02.014	Ø 27 mm	1 Pc
225.02.015	Ø 28 mm	1 Pc
225.02.016	Ø 29 mm	1 Pc
225.02.017	Ø 30 mm	1 Pc
225.02.018	Ø 31 mm	1 Pc
225.02.019	Ø 32 mm	1 Pc
225.02.020	Ø 33 mm	1 Pc
225.02.021	Ø 34 mm	1 Pc
225.02.022	Ø 35 mm	1 Pc
225.02.023	Ø 36 mm	1 Pc
225.02.024	Ø 37 mm	1 Pc
225.02.025	Ø 38 mm	1 Pc
225.02.026	Ø 39 mm	1 Pc
225.02.027	Ø 40 mm	1 Pc
225.02.028	Ø 41 mm	1 Pc
225.02.029	Ø 42 mm	1 Pc

Item Code	Item Size	MoQ
225.02.030	Ø 43 mm	1 Pc
225.02.031	Ø 44 mm	1 Pc
225.02.032	Ø 45 mm	1 Pc
225.02.033	Ø 46 mm	1 Pc
225.02.034	Ø 47 mm	1 Pc
225.02.035	Ø 48 mm	1 Pc
225.02.036	Ø 49 mm	1 Pc
225.02.037	Ø 50 mm	1 Pc

Item Code	Item Name	MoQ
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Optional Accessories



225.05.003	Pin TCT 50 Ø 14 - 17 mm, 6.34 x 106 mm	1 Pc
209.09.004	Pin TCT 50 Ø 12 - 50 & TCT 50 Ø 14 - 17 mm, 6.35 x 102 mm	1 Pc
225.05.004	Pin TCT 50 Ø 18 - 50 mm, 7.98 x 108 mm	1 Pc
209.09.003	Pin TCT 50 Ø 18 - 50 & AL 50 Ø 51 - 100 mm, 8 x 102 mm	1 Pc



225.06.001	Tool Holder - MT2 - 19.05 x 50, with Internal Cooling	1 Pc
225.06.002	Tool Holder AMT3 with Internal Cooling	1 Pc
209.12.005	Tool Holder AMT2 with Internal Cooling	1 Pc
209.12.006	Tool Holder AMT3 with Internal Cooling	1 Pc
208.25.010	Coolant Tank	1 Pcs
308.02.001	Coolant 2000 at 1 Liter	1 Pc
308.02.002	Coolant 2000 at 5 Liter	1 Pc



Rotabest TCT AL depth 50 mm

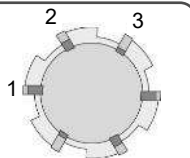


Main Applications

- Steel fabricators
- Shipyard
- Power plant
- Boiler

Chip Breaker System

1. Pre Cutter
2. Middle Cutter
3. Post Cutter



Advantageous

- Suitable for all core drilling, pillar drilling and milling machines
- Heavy industry design with keyway and feather key
- Long term tests series have shown that this specialized design with keyway and feather key has proved outstanding compared to a standard 32 mm Weldon shank. Optimal containment of high torsion forces
- Chip breaker system : pre cutter, middle cutter and post cutter
- Required : tool holder with internal cooling
- Perfect cutting behavior, even at the first drill hole
- Excellent centering properties
- Low cutting pressure and low power use
- Vibration free working
- Chip distribution, no chip jamming
- Drilling depth can be reached in a single operation
- Drill core can be easily ejected

Item Code	Item Size	MoQ
209.03.001	Ø 51 mm	1 Pc
209.03.002	Ø 52 mm	1 Pc
209.03.003	Ø 53 mm	1 Pc
209.03.004	Ø 54 mm	1 Pc
209.03.005	Ø 55 mm	1 Pc
209.03.006	Ø 56 mm	1 Pc
209.03.007	Ø 57 mm	1 Pc
209.03.008	Ø 58 mm	1 Pc
209.03.009	Ø 59 mm	1 Pc
209.03.010	Ø 60 mm	1 Pc
209.03.011	Ø 61 mm	1 Pc
209.03.012	Ø 62 mm	1 Pc
209.03.013	Ø 63 mm	1 Pc
209.03.014	Ø 64 mm	1 Pc
209.03.015	Ø 65 mm	1 Pc
209.03.016	Ø 66 mm	1 Pc
209.03.017	Ø 67 mm	1 Pc
209.03.018	Ø 68 mm	1 Pc
209.03.019	Ø 69 mm	1 Pc
209.03.020	Ø 70 mm	1 Pc
209.03.021	Ø 71 mm	1 Pc
209.03.022	Ø 72 mm	1 Pc
209.03.023	Ø 73 mm	1 Pc
209.03.024	Ø 74 mm	1 Pc
209.03.025	Ø 75 mm	1 Pc
209.03.026	Ø 76 mm	1 Pc
209.03.027	Ø 77 mm	1 Pc
209.03.028	Ø 78 mm	1 Pc
209.03.029	Ø 79 mm	1 Pc
209.03.030	Ø 80 mm	1 Pc
209.03.031	Ø 81 mm	1 Pc
209.03.032	Ø 82 mm	1 Pc
209.03.033	Ø 83 mm	1 Pc
209.03.034	Ø 84 mm	1 Pc
209.03.035	Ø 85 mm	1 Pc
209.03.036	Ø 86 mm	1 Pc
209.03.037	Ø 87 mm	1 Pc

Item Code	Item Size	MoQ
209.03.038	Ø 88 mm	1 Pc
209.03.039	Ø 89 mm	1 Pc
209.03.040	Ø 90 mm	1 Pc
209.03.041	Ø 91 mm	1 Pc
209.03.042	Ø 92 mm	1 Pc
209.03.043	Ø 93 mm	1 Pc
209.03.044	Ø 94 mm	1 Pc
209.03.045	Ø 95 mm	1 Pc
209.03.046	Ø 96 mm	1 Pc
209.03.047	Ø 97 mm	1 Pc
209.03.048	Ø 98 mm	1 Pc
209.03.049	Ø 99 mm	1 Pc
209.03.050	Ø 100 mm	1 Pc

Item Code	Item Name	MoQ
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Optional Accessories

209.09.003	Pin TCT 50 Ø 18 - 50 mm & AL 50 Ø 51 - 100 mm, 8 x 102 mm	1 Pc
225.05.004	Pin TCT 50 Ø 18 - 50 mm , 7.98 x 108 mm	1 Pc



209.12.007	Tool Holder AL-3	1 Pc
209.12.008	Tool Holder AL-4	1 Pc



208.25.010	Coolant Tank	1 Pc
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308.02.001	Coolant 2000 at 1 Liter	1 Pc
308.02.002	Coolant 2000 at 5 Liter	1 Pc



Rotabest HSS Blue depth 30 mm

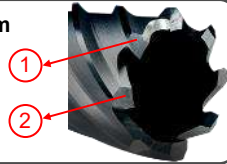


Main Applications

- Steel fabricators
- Shipyard
- Power plant
- Boiler

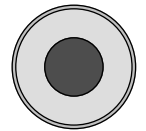
Chip Breaker System

1. Pre Cutting
2. Post Cutting



Weldon Shank suitable for

- Mag Drill with Weldon



Advantageous

- Drilling 4 times faster than twist drill, suitable for heavy to light jobs
- Hardness 67 HRC with multiple hardening and re-grindable up to 10 times
- Special quality high speed steel with Cobalt and coated
- High performance toothing, double bevelled
- High performance toothing with pre and post cutter, double bevelled
- Specially designed tooth geometry - immediate centering no running off center with good concentricity also suitable for NC and CNC Machine
- Optimum regular chip break, smooth and excellent cutting capacity, good chip production at each tooth, regular chip flow
- Minimum cross section of chip removing surface easy cutting, low torque, minimum demand for energy
- High tooth hardness due to optimum raw material and special heat treatment made it long life and suitable for material difficult to cut
- High tenacity of cutter, specially graduated hardness - lower risk of tool break especially under rough working conditions
- Industrial scale manufacturing by state of the art CNC technology, results optimum function, best reproducibility and constant quality

Item Code	Item Size	MoQ
209.07.001	Ø 12 mm	1 Pc
209.07.002	Ø 13 mm	1 Pc
209.07.003	Ø 14 mm	1 Pc
209.07.004	Ø 15 mm	1 Pc
209.07.005	Ø 16 mm	1 Pc
209.07.006	Ø 17 mm	1 Pc
209.07.007	Ø 18 mm	1 Pc
209.07.008	Ø 19 mm	1 Pc
209.07.009	Ø 20 mm	1 Pc
209.07.010	Ø 21 mm	1 Pc
209.07.011	Ø 22 mm	1 Pc
209.07.012	Ø 23 mm	1 Pc
209.07.013	Ø 24 mm	1 Pc
209.07.014	Ø 25 mm	1 Pc
209.07.015	Ø 26 mm	1 Pc
209.07.016	Ø 27 mm	1 Pc
209.07.017	Ø 28 mm	1 Pc
209.07.018	Ø 29 mm	1 Pc
209.07.019	Ø 30 mm	1 Pc
209.07.020	Ø 31 mm	1 Pc
209.07.021	Ø 32 mm	1 Pc
209.07.022	Ø 33 mm	1 Pc
209.07.023	Ø 34 mm	1 Pc
209.07.024	Ø 35 mm	1 Pc
209.07.025	Ø 36 mm	1 Pc

Item Code	Item Size	MoQ
209.07.026	Ø 37 mm	1 Pc
209.07.027	Ø 38 mm	1 Pc
209.07.028	Ø 39 mm	1 Pc
209.07.029	Ø 40 mm	1 Pc

Item Code	Item Name	MoQ
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Optional Accessories



209.09.005 Pin for HSS 30 Ø 12 - 40 mm, 6.35 x 77 mm 1 Pc

225.05.005 Pin for HSS 25 Ø 12 - 40 mm, 6.34 x 77 mm 1 Pc



209.12.005 Tool Holder AMT2 with Internal Cooling 1 Pc

209.12.006 Tool Holder AMT3 with Internal Cooling 1 Pc

225.06.001 Tool Holder - MT2 - 19.05 x 50, with Internal Cooling 1 Pc

225.06.002 Tool Holder AMT3 with Internal Cooling 1 Pc



208.25.010 Coolant Tank 1 Pcs



308.02.001 Coolant 2000 at 1 Liter 1 Pc

308.02.002 Coolant 2000 at 5 Liter 1 Pc



Rotabest HSS Blue depth 50 mm

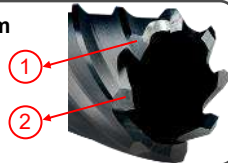


Main Applications

- Steel fabricators
- Shipyard
- Power plant
- Boiler

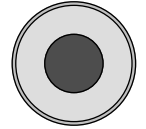
Chip Breaker System

1. Pre Cutting
2. Post Cutting



Weldon Shank suitable for

- Mag Drill with Weldon



Advantageous

- Drilling 4 times faster than twist drill, suitable for heavy to light jobs
- Hardness 67 HRC with multiple hardening and re-grindable up to 10 times
- Special quality high speed steel with Cobalt and coated
- High performance tothing, double bevelled
- High performance tothing with pre and post cutter, double bevelled
- Specially designed tooth geometry - immediate centering no running off center with good concentricity also suitable for NC and CNC Machine
- Optimum regular chip break, smooth and excellent cutting capacity, good chip production at each tooth, regular chip flow
- Minimum cross section of chip removing surface easy cutting, low torque, minimum demand for energy
- High tooth hardness due to optimum raw material and special heat treatment made it long life and suitable for material difficult to cut
- High tenacity of cutter, specially graduated hardness - lower risk of tool break especially under rough working conditions
- Industrial scale manufacturing by state of the art CNC technology, results optimum function, best reproducibility and constant quality

Item Code	Item Size	MoQ
209.08.001	Ø 12 mm	1 Pc
209.08.002	Ø 13 mm	1 Pc
209.08.003	Ø 14 mm	1 Pc
209.08.004	Ø 15 mm	1 Pc
209.08.005	Ø 16 mm	1 Pc
209.08.006	Ø 17 mm	1 Pc
209.08.007	Ø 18 mm	1 Pc
209.08.008	Ø 19 mm	1 Pc
209.08.009	Ø 20 mm	1 Pc
209.08.010	Ø 21 mm	1 Pc
209.08.011	Ø 22 mm	1 Pc
209.08.012	Ø 23 mm	1 Pc
209.08.013	Ø 24 mm	1 Pc
209.08.014	Ø 25 mm	1 Pc
209.08.015	Ø 26 mm	1 Pc
209.08.016	Ø 27 mm	1 Pc
209.08.017	Ø 28 mm	1 Pc
209.08.018	Ø 29 mm	1 Pc
209.08.019	Ø 30 mm	1 Pc
209.08.020	Ø 31 mm	1 Pc
209.08.021	Ø 32 mm	1 Pc
209.08.022	Ø 33 mm	1 Pc
209.08.023	Ø 34 mm	1 Pc
209.08.024	Ø 35 mm	1 Pc
209.08.025	Ø 36 mm	1 Pc
209.08.026	Ø 37 mm	1 Pc
209.08.027	Ø 38 mm	1 Pc
209.08.028	Ø 39 mm	1 Pc
209.08.029	Ø 40 mm	1 Pc
209.08.030	Ø 41 mm	1 Pc
209.08.031	Ø 42 mm	1 Pc
209.08.032	Ø 43 mm	1 Pc
209.08.033	Ø 44 mm	1 Pc
209.08.034	Ø 45 mm	1 Pc
209.08.035	Ø 46 mm	1 Pc
209.08.036	Ø 47 mm	1 Pc
209.08.037	Ø 48 mm	1 Pc

Item Code	Item Size	MoQ
209.08.038	Ø 49 mm	1 Pc
209.08.039	Ø 50 mm	1 Pc
209.08.040	Ø 51 mm	1 Pc
209.08.041	Ø 52 mm	1 Pc
209.08.042	Ø 53 mm	1 Pc
209.08.043	Ø 54 mm	1 Pc
209.08.044	Ø 55 mm	1 Pc
209.08.045	Ø 56 mm	1 Pc
209.08.046	Ø 57 mm	1 Pc
209.08.047	Ø 58 mm	1 Pc
209.08.048	Ø 59 mm	1 Pc
209.08.049	Ø 60 mm	1 Pc

Item Code	Item Name	MoQ
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Optional Accessories



209.09.004 Pin for HSS 50 Ø 12 - 50 mm & TCT 50 Ø 14 - 17 mm, 6.35 x 102 mm 1 Pc

225.05.006 Pilot Pin - 6.34 x 102 mm, for HSS 50 Ø 12 - 50 mm 1 Pc



209.12.005 Tool Holder AMT2 with Internal Cooling 1 Pc

209.12.006 Tool Holder AMT3 with Internal Cooling 1 Pc

225.06.001 Tool Holder - MT2 - 19.05 x 50, with Internal Cooling 1 Pc

225.06.002 Tool Holder AMT3 with Internal Cooling 1 Pc

208.25.010 Coolant Tank 1 Pc



308.02.001 Coolant 2000 at 1 Liter 1 Pc

308.02.002 Coolant 2000 at 5 Liter 1 Pc



KOBECUT - HSS Cutter depth 25 mm

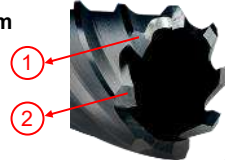


Main Applications

- Steel fabricators
- Shipyard
- Power plant
- Boiler
- Bridges

Chip Breaker System

1. Pre Cutting
2. Post Cutting



Universal Shank suitable for

- Mag Drill with Weldon
- Mag Drill with One Touch



Advantageous

- Drilling 4 times faster than twist drill, suitable for heavy to light jobs
- Special quality High Speed Steel with Cobalt with multiple heat treatment, made it longer cutter life
- High performance tooling with pre and post cutter, double bevelled
- Minimum cross section of chip removing surface easy cutting, low torque, minimum demand for energy
- Optimum regular chip break, smooth and excellent cutting capacity, good chip production at each tooth, regular chip flow
- Hardness 67 HRC with multiple hardening and re-grindable up to 10 times

Item Code	Item Size	MoQ
225.03.001	Ø 12 mm	1 Pc
225.03.002	Ø 13 mm	1 Pc
225.03.003	Ø 14 mm	1 Pc
225.03.004	Ø 15 mm	1 Pc
225.03.005	Ø 16 mm	1 Pc
225.03.006	Ø 17 mm	1 Pc
225.03.007	Ø 18 mm	1 Pc
225.03.008	Ø 19 mm	1 Pc
225.03.009	Ø 20 mm	1 Pc
225.03.010	Ø 21 mm	1 Pc
225.03.011	Ø 22 mm	1 Pc
225.03.012	Ø 23 mm	1 Pc
225.03.013	Ø 24 mm	1 Pc
225.03.014	Ø 25 mm	1 Pc
225.03.015	Ø 26 mm	1 Pc
225.03.016	Ø 27 mm	1 Pc
225.03.017	Ø 28 mm	1 Pc
225.03.018	Ø 29 mm	1 Pc
225.03.019	Ø 30 mm	1 Pc
225.03.020	Ø 31 mm	1 Pc
225.03.021	Ø 32 mm	1 Pc
225.03.022	Ø 33 mm	1 Pc
225.03.023	Ø 34 mm	1 Pc
225.03.024	Ø 35 mm	1 Pc
225.03.025	Ø 36 mm	1 Pc
225.03.026	Ø 37 mm	1 Pc
225.03.027	Ø 38 mm	1 Pc
225.03.028	Ø 39 mm	1 Pc
225.03.029	Ø 40 mm	1 Pc

Item Code	Item Name	MoQ
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Optional Accessories



225.05.005 Pin for HSS 25 Ø 12 - 40 mm, 6.34 x 77 mm 1 Pc

209.09.005 Pin for HSS 30 Ø 12 - 40 mm, 6.34 x 77 mm 1 Pc



225.06.001 Tool Holder - MT2 - 19.05 x 50, with Internal Cooling 1 Pc

225.06.002 Tool Holder AMT3 with Internal Cooling 1 Pc

209.12.005 Tool Holder AMT 2 with Internal Cooling 1 Pc

209.12.006 Tool Holder AMT3 with Internal Cooling 1 Pc



208.25.010 Coolant Tank 1 Pc



308.02.001 Coolant 2000 at 1 Liter 1 Pc

308.02.002 Coolant 2000 at 5 Liter 1 Pc



KOBECUT - HSS Cutter depth 50 mm

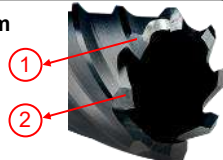


Main Applications

- Steel fabricators
- Shipyard
- Power plant
- Boiler
- Bridges

Chip Breaker System

1. Pre Cutting
2. Post Cutting



Universal Shank suitable for

- Mag Drill with Weldon
- Mag Drill with One Touch



Advantageous

- Drilling 4 times faster than twist drill, suitable for heavy to light jobs
- Special quality High Speed Steel with Cobalt with multiple heat treatment, made it longer cutter life
- High performance toothing with pre and post cutter, double bevelled
- Minimum cross section of chip removing surface easy cutting, low torque, minimum demand for energy
- Optimum regular chip break, smooth and excellent cutting capacity, good chip production at each tooth, regular chip flow
- Hardness 67 HRC with multiple hardening and re-grindable up to 10 times

Item Code	Item Size	MoQ
225.04.001	Ø 12 mm	1 Pc
225.04.002	Ø 13 mm	1 Pc
225.04.003	Ø 14 mm	1 Pc
225.04.004	Ø 15 mm	1 Pc
225.04.005	Ø 16 mm	1 Pc
225.04.006	Ø 17 mm	1 Pc
225.04.007	Ø 18 mm	1 Pc
225.04.008	Ø 19 mm	1 Pc
225.04.009	Ø 20 mm	1 Pc
225.04.010	Ø 21 mm	1 Pc
225.04.011	Ø 22 mm	1 Pc
225.04.012	Ø 23 mm	1 Pc
225.04.013	Ø 24 mm	1 Pc
225.04.014	Ø 25 mm	1 Pc
225.04.015	Ø 26 mm	1 Pc
225.04.016	Ø 27 mm	1 Pc
225.04.017	Ø 28 mm	1 Pc
225.04.018	Ø 29 mm	1 Pc
225.04.019	Ø 30 mm	1 Pc
225.04.020	Ø 31 mm	1 Pc
225.04.021	Ø 32 mm	1 Pc
225.04.022	Ø 33 mm	1 Pc
225.04.023	Ø 34 mm	1 Pc
225.04.024	Ø 35 mm	1 Pc
225.04.025	Ø 36 mm	1 Pc
225.04.026	Ø 37 mm	1 Pc
225.04.027	Ø 38 mm	1 Pc
225.04.028	Ø 39 mm	1 Pc
225.04.029	Ø 40 mm	1 Pc
225.04.030	Ø 41 mm	1 Pc
225.04.031	Ø 42 mm	1 Pc
225.04.032	Ø 43 mm	1 Pc
225.04.033	Ø 44 mm	1 Pc
225.04.034	Ø 45 mm	1 Pc
225.04.035	Ø 46 mm	1 Pc
225.04.036	Ø 47 mm	1 Pc
225.04.037	Ø 48 mm	1 Pc
225.04.038	Ø 49 mm	1 Pc

Item Code	Item Size	MoQ
225.04.039	Ø 50 mm	1 Pc
225.04.040	Ø 51 mm	1 Pc
225.04.041	Ø 52 mm	1 Pc
225.04.042	Ø 53 mm	1 Pc
225.04.043	Ø 54 mm	1 Pc
225.04.044	Ø 55 mm	1 Pc
225.04.045	Ø 56 mm	1 Pc
225.04.046	Ø 57 mm	1 Pc
225.04.047	Ø 58 mm	1 Pc
225.04.048	Ø 59 mm	1 Pc
225.04.049	Ø 60 mm	1 Pc

Item Code	Item Name	MoQ
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Optional Accessories



225.05.006 Pilot Pin - 6.34 x 102 mm, for HSS 50 Ø 12 - 50 mm 1 Pc

209.09.004 Pin HSS 50 Ø 12 - 50 mm & TCT 50 Ø 14 - 17 mm, 6.35 x 102 mm 1 Pc



225.06.001 Tool Holder - MT2 - 19.05 x 50, with Internal Cooling 1 Pc

225.06.002 Tool Holder AMT3 with Internal Cooling 1 Pc

209.12.005 Tool Holder AMT2 with Internal Cooling 1 Pc

209.12.006 Tool Holder AMT3 with Internal Cooling 1 Pc

208.25.010 Coolant Tank 1 Pc



308.02.001 Coolant 2000 at 1 Liter 1 Pc

308.02.002 Coolant 2000 at 5 Liter 1 Pc



Magnetic Drilling Machine - MD 300 N Semi Auto



Advantageous

- It feeds forward automatically with special circuitry to adjust the feed rate to the ideal speed for the most efficient possible drilling
- It still has full manual capability up to Ø 35 mm
- Strong torque in drilling
- Powerful magnetic adhesion
- Support bracket with needle bearing for spindle stability
- 3 points fixing from motor to stand for maximum stability
- Tool holder with integrated internal cooling
- Crank handle can be reversed
- Handy sets in new transport case

Automatic Drilling

Core drill Ø	12 - 30 mm
Core drill cutting depth	45 mm

Manual Drilling

Core drill Ø	12 - 35 mm
Core drill cutting depth	50 mm

Specifications

Input power	1.100 Watt
No load / full load speed	550 / 330 RPM
3 Position feed rate selector	Pos. 1 : Ø 14 - 20 mm Pos. 2 : Ø 21 - 24 mm Pos. 3 : Ø 25 - 30 mm
Tool adaptor	19 mm Weldon shank
Cooling	Internal
Voltage	220 V
Magnet adhesion	15.000 N
Magnet foot size	80 x 180 mm
Magnet foot type	Not movable
Dimension (L x W x H)	290 x 310 x 470 mm
Weight	16.5 Kg



Suitable Cutters	Depth	Diameter
TCT - Alfra & Kobecut	35 mm	14 - 35 mm
TCT - Alfra & Kobecut	50 mm	14 - 35 mm
HSS Cobalt - Alfra & Kobecut	30 mm	12 - 35 mm
HSS Cobalt - Alfra & Kobecut	50 mm	12 - 35 mm

Item Code	Item Name	MoQ
111.01.001	Magnetic Drilling Machine - MD 300 N Semi Auto • Wrench M8, Hex key M2.5, Hex key M 4, T-wrench M6, Chip guard kit, Coolant tank kit, Safety chain	1 Set

Optional Accessories

209.12.003	Quick Drill Chuck + Weldon Shank for twist drills - Ø 1 - 13 mm	1 Pc
225.06.011.1	Quick Drill Chuck + Weldon Shank for twist drills - Ø 1 - 13 mm - 1 Pc	1 Pack
209.12.027	Drill Chuck + Weldon Shank for twist drills	1 Pc
209.12.001	HSS Countersink and deburrer with Weldon shank Ø 25 mm	1 Pc
209.12.002	HSS Countersink and deburrer with Weldon shank Ø 40 mm	1 Pc
209.12.010	Bio 2000	1 Pc
308.02.001	Coolant 2000 at 1 Liter	1 Pc
308.02.002	Coolant 2000 at 5 Liter	1 Pc



Magnetic Drilling Machine - SMD 352



Advantageous

- The 2-Speed Gearbox allows a wide range of cutters to be used and delivers maximum torque
- The quick adjustable variable height slide allows a variety of tools to be used. Lower for cutters, raise for twist drills
- Quick release arbor, make it quick and tool free to change cutter and accessories, integrated with internal cooling
- Powerful magnetic adhesion
- Handy sets in new transport case

Capacity

Core drill Ø	12 - 35 mm
Core drill cutting depth	50 mm
Drill chuck	1 - 13 mm

Specifications

Input power	1.100 Watt
Adjusted speed	2 Speed
No load / full load speed	Gear 1 : 450 / 270 RPM Gear 2 : 730 / 440 RPM
Tool adaptor	Quick chuck
Cooling	Internal
Voltage	220 V
Magnet adhesion	17.000 N
Magnet foot size	80 x 180 mm
Magnet foot type	Not movable
Adjustable slide	Yes
Dimension (L x W x H)	330 x 200 x 460 mm
Weight	15 Kg

Suitable Cutters

Suitable Cutters	Depth	Diameter
TCT - Alfra & Kobecut	35 mm	14 - 35 mm
TCT - Alfra & Kobecut	50 mm	14 - 35 mm
HSS Cobalt - Alfra & Kobecut	30 mm	12 - 35 mm
HSS Cobalt - Alfra & Kobecut	50 mm	12 - 35 mm

Item Code

Item Code	Item Name	MoQ
111.01.005	Magnetic Drilling Machine - SMD 352 • Wrench M8, Hex key M2.5, Hex key M 4, T-wrench M6, Chip guard kit, Coolant tank kit, Safety chain	1 Set

Optional Accessories

209.12.003	Quick Drill Chuck + Weldon Shank for twist drills Ø 1 - 13 mm	1 Pc
225.06.011.1	Quick Chuck - Universal Shank - Ø 1 - 13 mm - 1 Pc	1 Pack
209.12.027	Drill Chuck + Weldon Shank for Twist Drills Ø 1 - 13 mm	1 Pc
209.12.001	HSS Countersink and Deburrer with Weldon Shank Ø 25 mm	1 Pc
209.12.002	HSS Countersink and Deburrer with Weldon Shank Ø 40 mm	1 Pc
209.12.010	Bio 2000	1 Pc
308.02.001	Coolant 2000 at 1 Liter	1 Pc
308.02.002	Coolant 2000 at 5 Liter	1 Pc





Magnetic Drilling Machine - SMD 502



Advantageous

- The 2-Speed Gearbox allows a wide range of cutters to be used and delivers maximum torque
- The quick adjustable variable height slide allows a variety of tools to be used. Lower for cutters, raise for twist drills
- Quick release arbor, make it quick and tool free to change cutter and accessories, integrated with internal cooling
- Powerful magnetic adhesion
- Handy sets in new transport case

Capacity	
Core drill Ø	12 - 50 mm
Core drill cutting depth	50 mm
Drill chuck	1 - 13 mm

Specifications	
Input power	1.100 Watt
No load / full load speed	Gear 1 : 300 / 180 RPM Gear 2 : 450 / 270 RPM
Tool adaptor	Quick chuck
Cooling	Internal
Voltage	220 V
Magnet adhesion	17.000 N
Magnet foot size	94 x 200 mm
Magnet foot type	Not movable
Adjustable slide	Yes
Dimension (L x W x H)	330 x 200 x 460 mm
Weight	15 Kg

Suitable Cutters	Depth	Diameter
TCT - Alfra & Kobecut	35 mm	14 - 35 mm
TCT - Alfra & Kobecut	50 mm	14 - 50 mm
HSS Cobalt - Alfra & Kobecut	30 mm	12 - 40 mm
HSS Cobalt - Alfra & Kobecut	50 mm	12 - 50 mm

Item Code	Item Name	MoQ
111.01.006	Magnetic Drilling Machine - SMD 502	1 Set
	<ul style="list-style-type: none"> • Wrench M8, Hex key M2.5, Hex key M 4, T-wrench M6, Chip guard kit, Coolant tank kit, Safety chain 	

Optional Accessories		
209.12.003	Quick Drill Chuck + Weldon Shank for twist drills Ø 1 - 13 mm	1 Pc
225.06.011.1	Quick Chuck - Universal Shank - Ø 1 - 13 mm - 1 Pc	1 Pack
209.12.027	Drill Chuck + Weldon Shank for Twist Drills Ø 1 - 13 mm	1 Pc
209.12.001	HSS Countersink and Deburrer with Weldon Shank Ø 25 mm	1 Pc
209.12.002	HSS Countersink and Deburrer with Weldon Shank Ø 40 mm	1 Pc
209.12.010	Bio 2000	1 Pc
308.02.001	Coolant 2000 at 1 Liter	1 Pc
308.02.002	Coolant 2000 at 5 Liter	1 Pc





P Line Technical Solutions

The new **P** LINE
Permanent
Professional
Perfect



Power Glossary

Motor		
1	Temperature sensor	The LED Signal informs about a motor overheating due to overload. After cooling down, the motor can be activated again.
2	Carbon brush wear control	The motor LED flashes as soon as the carbon brushes are worn through the mechanical abrasion. The motor continues stroke range.
3	Drive unit	Height adjustable allows a larger, multiple stroke range
4	Smooth start	Protects the motor and extends its life time
5	PUR Control line	Remains flexible even at low temperatures and is optimally protected against external influences.
Gearboxes		
6	Special gearbox	The wear of the gearbox wheels is reduced significantly even under extreme conditions.
Operation		
7	Soft-touch grips	Abrasion resistant for perfect grip. Including integrated Allen key tray
8	Double dovetail slide	Self-adjusting through innovative clamping system

Operation		
9	Magnetic Activation lever	Ergonomic and easy to use. With perforated grip zone for perfect grip.
10	5 metre PUR connection cable	Remains flexible even at low temperatures and is optimally protected against external influences.
11	Membrane keyboard	The keypad has been ergonomically designed and further offset in the housing so that it is less sensitive to moisture and mechanical influences.
12	Circuit board with Hybrid relays	Extra long life. Voltage Spikes are intercepted
13	Quick-release chuck	Weight-optimized to reduce the imbalance to a minimum. It is compatible for all core drills with standard Weldon arbor
Permanent Magnet		
14	Permanent magnet	100% reliability (also in case of power failure) - already can be used from 2 mm thickness (this is unparalleled)
15	LED for magnetic/adhesive power indicator	This show various function statuses - "continuous green" for OK - "red flashing" with holding force which is just sufficient - "continuous red" with low holding force - (motor turns off automatically)
16	TiN coated magnetic undersurface	Scratch - resistant to external influences.



Rotabest RB 35 SP



The new **P LINE**
Permanent
Professional
Perfect



Advantageous

- Powerful Motors 1.100 W, ergonomic design, perfect technology
- Continuously adjustable motor on the slide for a maximum stroke enlargement, when using twist drills and drill chucks
- Newly designed gear - housing with integrated motor support
- Patented P - Line Design
- Trouble with ordinary dovetail or pillar guides ? Solid brass guide rails guarantee an optimum slide guidance
- Optimized Tool Force (Comes into effect just below the cutter)
- Material thickness from 3 - 4 mm



Membrane keyboard, ergonomic design, unaffected by moisture. Easy reachability of keyboard, even in narrow U-beams and H-beams



"green solid light" for OK, "red flashing light" when the adhesive force is still adequate and "red solid light" if the adhesive force is too low (motor switches off automatically)



Permanent magnet with extremely strong adhesion-force with pre-tension, anti corrosion, no electricity power needed



TIN Coating protect the magnet from protruding metal against the magnet foot

Capacity	
Core drill Ø	12 - 35 mm
Core drill cutting depth	50 mm
Twist drill Ø	1 - 13 mm DIN 1897 short

Specifications	
Input power	1.100 Watt
Speed under load	450 RPM
Tool adaptor	Quick-change tool holder
Stroke	105 mm
Adjustable motor in height	80 mm
Voltage	230 V - 50/60 Hz
Tool force (10 mm S235)	2.800 N out of 7.500 N
Tool force (6 mm S235)	2.300 N out of 7.500 N
Min. material thickness	3 mm
Magnet foot size	72 x 190 mm Permanent Magnet
Weight	9.9 kg

Suitable Cutters	Depth	Diameter
TCT - Alfra & Kobecut	35 mm	14 - 35 mm
TCT - Alfra & Kobecut	50 mm	14 - 35 mm
HSS Cobalt - Alfra & Kobecut	30 mm	12 - 35 mm
HSS Cobalt - Alfra & Kobecut	50 mm	12 - 35 mm

Item Code	Item Name	MoQ
109.01.012	Rotabest RB 35 SP	1 Set
	• Transport case, Safety belt, Coolant unit	

Optional Accessories		
209.12.003	Quick Drill Chuck + Weldon Shank for twist drills Ø 1 - 13 mm	1 Pc
225.06.011.1	Quick Chuck - Universal Shank - Ø 1 - 13 mm - 1 Pc	1 Pack
209.12.027	Drill Chuck + Weldon Shank for Twist Drills Ø 1 - 13 mm	1 Pc
209.12.001	HSS Countersink and Deburrer with Weldon Shank Ø 25 mm	1 Pc
209.12.002	HSS Countersink and Deburrer with Weldon Shank Ø 40 mm	1 Pc
209.12.010	Bio 2000	1 Pc
308.02.001	Coolant 2000 at 1 Liter	1 Pc
308.02.002	Coolant 2000 at 5 Liter	1 Pc



Rotabest RB 35 B



Advantageous

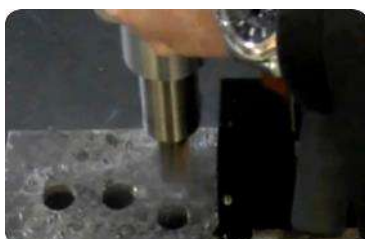
- Smooth start, minimize wear of motor, gearbox and electronics
- Self adjusting guides, self locking comes into action automatically for perfect guiding
- Soft touch grips, perfect "grip" on the handles for better work, even with oily gloves
- Holder for allen key, integrated allen key holder, no searching for the key
- Cord length 5 m, extension cord and cable drums mostly not required
- Metal rings, perfect protection for the magnets against penetration by metallic objects (chips, milling dust, etc)
- Performance and weight optimization, weight, dimensioning and coil sizing are ideally matched, this maximize the Tool Force (TM)

Capacity

Core drill Ø	12 - 35 mm
Core drill cutting depth	50 mm
Twist drill Ø	1 - 13 mm DIN 1897 Short

Specifications

Input power	1.100 Watt
Speed under load	450 RPM
Tool adaptor	19 mm Weldon shank
Stroke	120 mm
Cooling	Integrated, automatically
Voltage	230 V - 50/60 Hz
Tool Force (10 mm)	2.100 N out of 9.000 N
Magnet adhesion	9.000 N
Min. material thickness	6 mm
Magnet foot size	70 x 185 mm
Magnet foot type	Rigid
Dimension (L x W x H)	341 x 147 x 360 mm
Weight	10.6 Kg



Suitable Cutters	Depth	Diameter
TCT - Alfra & Kobecut	35 mm	14 - 35 mm
TCT - Alfra & Kobecut	50 mm	14 - 35 mm
HSS Cobalt - Alfra & Kobecut	30 mm	12 - 35 mm
HSS Cobalt - Alfra & Kobecut	50 mm	12 - 35 mm

Item Code	Item Name	MoQ
109.01.015	Rotabest RB 35 B	1 Set
	<ul style="list-style-type: none"> • Transport case, Safety belt, Coolant unit, Allen key 2,5 mm, Allen key 4,0 mm, HSS cutter Co dia. 19 mm depth 50 mm, HSS pilot pin depth 50 mm 	

Optional Accessories

209.12.003	Quick Drill Chuck + Weldon Shank for twist drills Ø 1 - 13 mm	1 Pc
225.06.011.1	Quick Chuck - Universal Shank - Ø 1 - 13 mm - 1 Pc	1 Pack
209.12.027	Drill Chuck + Weldon Shank for Twist Drills Ø 1 - 13 mm	1 Pc
209.12.001	HSS Countersink and Deburrer with Weldon Shank Ø 25 mm	1 Pc
209.12.002	HSS Countersink and Deburrer with Weldon Shank Ø 40 mm	1 Pc
209.12.010	Bio 2000	1 Pc
308.02.001	Coolant 2000 at 1 Liter	1 Pc
308.02.002	Coolant 2000 at 5 Liter	1 Pc



Rotabest X Series Technical Solutions



Power Glossary

Motor			Operation		
1	Full wave control electronics	Allow maximum power output from the motor.	8	Stepless adjustment	The stroke can be increased continuously
2	Drive unit	Smooth start, minimizes wear of motor, gearbox and electronics	9	5 metre PUR connection cable	Extension cord and cable drums mostly not required
3	Smooth start	Mechanical slipping clutch protects the gearbox from overload and comes into action automatically.	Motor Magnet		
Gearboxes			10	Various LED displays	On states of switching protect you and your machine
4	Special gearbox	Oil bath gear box, reduces wear on the gearbox significantly, even under extreme conditions.	11	Hybrid relays	Drastically reduces contact burning on the relays. The life of the switching elements is significantly increased. Voltage fluctuations are reduced by approx 10%
Operation			12	Membrane keyboard	Perfect ergonomics with large keys. The entire keyboard is located in a protected area (event if the machine drops)
5	Soft-touch grips	Holden for Allen Key, integrated Allen key-holder, no searching for the key.	13	Performance and Weight Optimization Weight	Dimensioning and coil sizing are ideally matched. This maximizes the ToolForce (TM)
6	Soft touch handle	Perfect "grip" on the handles even with oily gloves.	14	Perfect protection	For the magnets against penetration by metallic objects (chips, welding sputter, milling dust, etc.)
7	Self adjusting guides	Make self-locking comes into action automatically for perfect guiding			



Rotabest RB 50 X



Oil Bath



Advantageous

- Smooth start, minimize wear of motor, gearbox and electronics
- Hybrid relays, drastically reduces contact burning on the relays, the life of the switching elements is significantly increased, voltage fluctuations are reduced by approx. 10%
- Oil bath gearbox, reduces wear on the gearbox significantly, even under extreme conditions.
- Stepless adjustment, the stroke can be increased continuously
- Self adjusting guides, self locking comes into action automatically for perfect guiding
- Membrane keyboard, perfect ergonomics with large keys, the entire keyboard is located in a protected area (even if the machine drops)
- Soft touch grips, perfect "grip" on the handles, even with oily gloves
- Holder for allen key, integrated allen key holder, no searching for the key
- Cord length 5 m, extension cord and cable drums is not required
- LED Sensor, various LED displays on states of switching protect you and your machine
- Metal rings, perfect protection for the magnets against penetration by metallic objects (chips, milling dust, etc)
- Performance and weight optimization, weight, dimensioning and coil sizing are ideally matched, this maximize the Tool Force (TM)

Capacity

Core drill Ø	12 - 50 mm
Core drill cutting depth	50 mm
Twist drill Ø	1 - 16 mm

Specifications

Input power	1.200 Watt
Speed with load	Gear 1 : 250 RPM Gear 2 : 450 RPM
Stroke	190 mm
Adjustable motor in height	100 mm
Tool adaptor	19 mm Weldon shank
Cooling	Internal
Voltage	230 V - 50/60 Hz
Tool force (10 mm)	3.500 N out of 11.000 N
Magnet adhesion	11.000 N
Min. material thickness	8 mm
Magnet foot size	92 x 220 mm
Magnet foot type	Rigid
Dimension (L x W x H)	348 x 181 x 545 mm
Weight	15 Kg

Suitable Cutters

	Depth	Diameter
TCT - Alfra & Kobecut	35 mm	14 - 35 mm
TCT - Alfra & Kobecut	50 mm	14 - 50 mm
HSS Cobalt - Alfra & Kobecut	30 mm	12 - 40 mm
HSS Cobalt - Alfra & Kobecut	50 mm	12 - 50 mm

Item Code	Item Name	MoQ
109.01.009	Rotabest RB 50 X	1 Set

- Transport case, Safety belt, Bio 4000, HSS pilot pin, HSS cutter 18 mm depth 30 mm

Optional Accessories

209.12.003	Quick Drill Chuck + Weldon Shank for twist drills Ø 1 - 13 mm	1 Pc
225.06.011.1	Quick Chuck - Universal Shank - Ø 1 - 13 mm - 1 Pc	1 Pack
209.12.027	Drill Chuck + Weldon Shank for Twist Drills Ø 1 - 13 mm	1 Pc
209.12.001	HSS Countersink and Deburrer with Weldon Shank Ø 25 mm	1 Pc
209.12.002	HSS Countersink and Deburrer with Weldon Shank Ø 40 mm	1 Pc
209.12.010	Bio 2000	1 Pc
308.02.001	Coolant 2000 at 1 Liter	1 Pc
308.02.002	Coolant 2000 at 5 Liter	1 Pc



Rotabest RB 50 B



Oil Bath



Advantageous

- Ergonomic switch keyboard & user friendly
- Smooth start, minimize wear of motor, gearbox and electronics
- Oil bath gearbox, reduces wear on the gearbox significantly, even under extreme conditions.
- Built in "Tool Holder" with weldon shank type 19.05 mm (3/4").
- Stepless adjustment, the stroke can be increased continuously
- Self adjusting guides, self locking comes into action automatically for perfect guiding
- Soft touch grips, perfect "grip" on the handles, even with oily gloves
- Holder for allen key, integrated allen key holder, no searching for the key
- Cord length 5 m, extension cord and cable drums is not required
- Metal rings, perfect protection for the magnets against penetration by metallic objects (chips, milling dust, etc)
- Performance and weight optimization, weight, dimensioning and coil sizing are ideally matched, this maximize the Tool Force (TM)

Capacity

Core drill Ø	12 - 50 mm
Core drill cutting depth	50 mm
Twist drill Ø	1 - 16 mm

Specifications

Input power	1.200 Watt
Speed with load	Gear 1 : 250 RPM Gear 2 : 450 RPM
Stroke	190 mm
Adjustable motor in height	100 mm
Tool adaptor	19 mm Weldon shank
Cooling	Internal
Voltage	230 V - 50/60 Hz
Tool force (10 mm)	3.500 N out of 12.000 N
Magnet adhesion	12.000 N
Min. material thickness	6 mm
Magnet foot size	92 x 220 mm
Magnet foot type	Rigid
Dimension (L x W x H)	348 x 181 x 545 mm
Weight	15.0 Kg

Suitable Cutters	Depth	Diameter
TCT - Alfra & Kobecut	35 mm	14 - 35 mm
TCT - Alfra & Kobecut	50 mm	14 - 50 mm
HSS Cobalt - Alfra & Kobecut	30 mm	12 - 40 mm
HSS Cobalt - Alfra & Kobecut	50 mm	12 - 50 mm

Item Code	Item Name	MoQ
109.01.016	Rotabest RB 50 B	1 Set
	• Transport case, Safety belt, Coolant unit	

Optional Accessories

209.12.003	Quick Drill Chuck + Weldon Shank for twist drills Ø 1 - 13 mm	1 Pc
225.06.011.1	Quick Chuck - Universal Shank - Ø 1 - 13 mm - 1 Pc	1 Pack
209.12.027	Drill Chuck + Weldon Shank for Twist Drills Ø 1 - 13 mm	1 Pc
209.12.001	HSS Countersink and Deburrer with Weldon Shank Ø 25 mm	1 Pc
209.12.002	HSS Countersink and Deburrer with Weldon Shank Ø 40 mm	1 Pc
209.12.010	Bio 2000	1 Pc
308.02.001	Coolant 2000 at 1 Liter	1 Pc
308.02.002	Coolant 2000 at 5 Liter	1 Pc



Rotabest RB 80 X



Oil Bath



Advantageous

- Smooth start, minimize wear of motor, gearbox and electronics
- Hybrid relays, drastically reduces contact burning on the relays, the life of the switching elements is significantly increased, voltage fluctuations are reduced by approx. 10%
- Oil bath gearbox, reduces wear on the gearbox significantly, even under extreme conditions
- Mechanical slipping clutch, Protects the gearbox from overload and comes into action automatically
- Stepless adjustment, the stroke can be increased continuously
- Self adjusting guides, self locking comes into action automatically for perfect guiding
- Membrane keyboard, perfect ergonomics with large keys, the entire keyboard is located in a protected area (even if the machine drops)
- Soft touch grips, perfect "grip" on the handles, even with oily gloves
- Holder for allen key, integrated allen key holder, no searching for the key
- Cord length 5 m, extension cord and cable drums is not required
- LED Sensor, various LED displays on states of switching protect you and your machine
- Metal rings, perfect protection for the magnets against penetration by metallic objects (chips, milling dust, etc)
- Performance and weight optimization, weight, dimensioning and coil sizing are ideally matched, this maximize the Tool Force (TM)

Capacity

Core drill Ø	- Ø 12 - 80 mm - Ø 20 - 50 mm (extra long 110 mm)
Core drill cutting depth	- 50 mm - 110 mm with tool holder MT-3
Twist drill Ø max.	- Ø 1 - 16 mm with drill chuck - To Ø 32 mm with MT-3 DIN 345
Tap	M 30

Specifications

Input power	1.800 Watt
Speed with load	Gear 1 : 110 RPM Gear 2 : 175 RPM Gear 3 : 245 RPM Gear 4 : 385 RPM
Stroke	190 mm
Adjustable motor in height	100 mm
Tool adaptor	MT-3 or AL-3
Cooling	Internal
Voltage	230 V - 50/60 Hz
Tool force (10 mm)	4.000 N out of 13.000 N
Magnet adhesion	13.000 N
Min. material thickness	10 mm
Magnet foot size	92 x 220 mm
Magnet foot type	Rigid
Dimension (L x W x H)	408 x 205 x 630 mm
Weight	19.5 Kg

Suitable Cutters

	Depth	Diameter
TCT - Alfra & Kobecut	35 mm	14 - 35 mm
TCT - Alfra & Kobecut	50 mm	14 - 50 mm
HSS Cobalt - Alfra & Kobecut	30 mm	12 - 40 mm
HSS Cobalt - Alfra & Kobecut	50 mm	12 - 60 mm

Item Code	Item Name	MoQ
109.01.010	Rotabest RB 80 X • Transport case, Coolant unit, Tool holder AMT 3, HSS Co-Eco depth 30 mm - Ø 18 mm, Allen key, Drill drifter, Safety belt, Bio 4000	1 Set

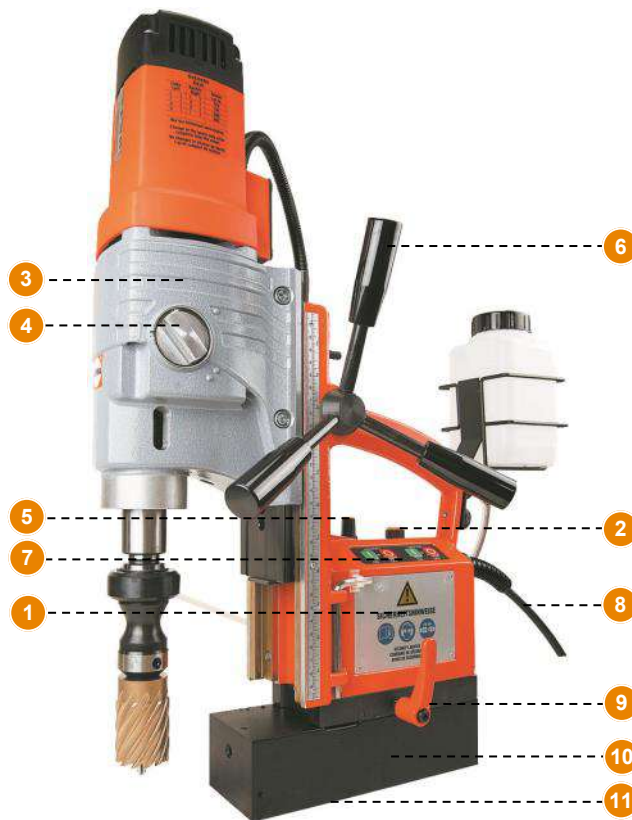
Optional Accessories

209.12.003	Quick Drill Chuck + Weldon Shank for twist drills Ø 1 - 13 mm	1 Pc
225.06.011.1	Quick Chuck - Universal Shank - Ø 1 - 13 mm - 1 Pc	1 Pack
209.12.027	Drill Chuck + Weldon Shank for Twist Drills Ø 1 - 13 mm	1 Pc
209.12.001	HSS Countersink and Deburrer with Weldon Shank Ø 25 mm	1 Pc
209.12.002	HSS Countersink and Deburrer with Weldon Shank Ø 40 mm	1 Pc
209.12.004	Reducing Sleeve MT3 to MT2	1 Pc
209.12.005	Tool Holder AMT2 with Internal Cooling	1 Pc
225.06.001	Tool Holder - MT2 - 19.05 x 50, with Internal Cooling	1 Pc
209.12.006	Tool Holder AMT3 with Internal Cooling	1 Pc
225.06.002	Tool Holder - MT3 - 19.05 x 50, with Internal Cooling	1 Pc
209.12.020	Tool Holde AMT3 depth 110 mm with Internal Cooling	1 Pc
209.12.007	Tool Holder AL-3	
209.12.012	Quick Drill Chuck + Morse Taper No.3 Shank for Twist Drill Ø 1 - 16 mm	1 Pc
209.12.028	Drill Chuck + Morse Taper No. 3 Shank for Twist Drill Ø 1 - 16 mm	1 Pc
209.12.023	Drill Chuck + Morse Taper No. 2 Shank for Twist Drill Ø 1 - 16 mm	1 Pc
209.14.001	Tapping Attachment M3 - M12	1 Pc
209.14.002	Tapping Attacgment M10 - M20	1 Pc
209.12.010	Bio 2000	1 Pc
308.02.001	Coolant 2000 at 1 Liter	1 Pc
308.02.002	Coolant 2000 at 5 Liter	1 Pc





Rotabest RL-E Technical Solutions



Power Glossary					
Motor		Operation			
1	Full-wave control electronics	Allow maximum power output from the motor.	6	Spindle	Soft-touch grips
2	Right / Left run	Extends the range of application.	7	Control panel	Membrane keyboard, perfect ergonomics with large keys. The entire keyboard is located in a protected area (event if the machine drops)
Gear Box					
3	Oil-bath gearbox	Reduces wear on the gearbox significantly	8	Cable	Cord length 5 metre PUR connection cable
4	Mechanical slipping clutch	Protects the gearbox from overload and comes into action automatically.	9	Key lock	Clamping lever for clamping the magnet foot
Slide		Magnet			
5	Stepless adjustment	The stroke can be increased continuously	10	Magnet foot	Rigid, hold strong on the work-piece
			11	Metal ring	For the magnets against penetration by metallic objects (chips, welding sputter, milling dust, etc.)

Rotabest 60 RL-E



Oil Bath



Especially well - suited to smooth and fast threading.



Advantageous

- Full wave control electronics, allow maximum power output from the motor
- Right/left run, extends the range of application
- Oil bath gearbox, reduces wear on the gearbox significantly, even under extreme conditions
- Mechanical slipping clutch, protects the gearbox from overload and comes into action automatically
- Stepless adjustment, the stroke can be increased continuously
- Soft touch grips, perfect "grip" on the handles, even with oily gloves
- Membrane keyboard, perfect ergonomics with large keys, the entire keyboard is located in a protected area (even if the machine drops)
- Cord length 5 m, extension cord and cable drums is not required
- Metal rings, perfect protection for the magnets against penetration by metallic objects (chips, milling dust, etc)

Capacity

Core drill Ø	12 - 80 mm
Core drill cutting depth	50 mm with tool holder MT-3
Twist drill Ø	1 - 16 mm with drill chuck 32 mm with MT3
Tap	M 30

Specifications

Input power	1.800 Watt
Speed under load	Gear 1 : 50 - 110 RPM Gear 2 : 75 - 175 RPM Gear 3 : 105 - 245 RPM Gear 4 : 165 - 385 RPM
Stroke	190 mm
Adjustable motor in height	60 mm
Tool adaptor	MT-3 or AL-3
Cooling	Internal via tool holder
Voltage	230 V - 50/60 Hz
Tool Force (10 mm)	4.200 N out of 20.000 N
Magnet adhesion	20.000 N
Min. material thickness	10 mm
Magnet foot size	80 x 230 mm
Magnet foot type	30° adjustable, right and left 10 mm front and rear
Dimension (L x W x H)	358 x 210 x 702 mm
Weight	22 Kg

Suitable Cutters	Depth	Diameter
TCT - Alfra & Kobecut	35 mm	14 - 35 mm
TCT - Alfra & Kobecut	50 mm	14 - 50 mm
HSS Cobalt - Alfra & Kobecut	30 mm	12 - 40 mm
HSS Cobalt - Alfra & Kobecut	50 mm	12 - 60 mm

Item Code	Item Name	MoQ
109.01.004	Rotabest 60 RL-E • Transport case, Coolant unit, Drill chuck 16 mm - MT, Chip remover, Safety belt, Drill drifter, Bio 4000	1 Set

Optional Accessories

209.14.004	Tapping Collet - M6 - Round 6.0 - Square 4.9	1 Pc
209.14.005	Tapping Collet - M8 - Round 8.0 - Square 6.2	1 Pc
209.14.006	Tapping Collet - M10 - Round 1.0 - Square 8.0	1 Pc
209.14.007	Tapping Collet - M12 - Round 9.0 - Square 7.0	1 Pc
209.14.008	Tapping Collet - M14 - Round 11.0 - Square 9.0	1 Pc
209.14.009	Tapping Collet - M16 - Round 12.0 - Square 9.0	1 Pc
209.14.010	Tapping Collet - M18 - Round 16.0 - Square 12.0	1 Pc
209.14.011	Tapping Collet - M20 - Round 16.0 - Square 12.0	1 Pc
209.14.012	Tapping Collet - M22 - Round 18.0 - Square 14,5.0	1 Pc
209.14.003	Quick Change Tapping Adaptor Size2 MT3	1 Pc
209.12.003	Quick Drill Chuck + Weldon Shank for Twist Drills Ø 1 - 13 mm	1 Pc
225.06.011.1	Quick Chuck - Universal Shank - Ø 1 - 13 mm - 1 Pc	1 Pack
209.12.027	Drill Chuck + Weldon Shank for Twist Drills Ø 1 - 13 mm	1 Pc
209.12.001	HSS Countersink and Deburrer with Weldon Shank Ø 25 mm	1 Pc
209.12.002	HSS Countersink and Deburrer with Weldon Shank Ø 40 mm	1 Pc
209.12.004	Reducing Sleeve MT3 to MT2	1 Pc
209.12.005	Tool Holder AMT2 with Internal Cooling	1 Pc
225.06.001	Tool Holder - MT2 - 19.05 x 50, with Internal Cooling	1 Pc
209.12.006	Tool Holder AMT3 with Internal Cooling	1 Pc
225.06.002	Tool Holder - MT2 - 19.05 x 50, with Internal Cooling	1 Pc
209.12.020	Too Holder AMT3 depth 110 mm with Internal Cooling	1 Pc
209.12.007	Tool Holder AL-3	1 Pc
209.12.012	Quick Drill Chuck + Morse Taper No.3 Shank for Twist Drill Ø 1 - 16 mm	1 Pc
209.12.028	Drill Chuck + Morse Taper No.3 Shank for Twist Drill Ø 1 - 16 mm	1 Pc
209.12.023	Drill Chuck + Morse Taper No.2 Shank for Twist Drill Ø 1 - 16 mm	1 Pc
209.14.001	Tapping Attachment M3 - M12	1 Pc
209.14.002	Tapping Attachment M10 - M20	1 Pc
209.12.010	Bio 2000	1 Pc
308.02.001	Coolant 2000 at 1 Liter	1 Pc
308.02.002	Coolant 2000 at 5 Liter	1 Pc

Rotabest 100 RL-E



With lifting hook for easy mobility



Especially well - suited to smooth and fast threading.



Oil Bath



Advantageous

- Full wave control electronics, allow maximum power output from the motor
- Right/left run, extends the range of application
- Oil bath gearbox, reduces wear on the gearbox significantly, even under extreme conditions
- Mechanical slipping clutch, protects the gearbox from overload and comes into action automatically
- Stepless adjustment, the stroke can be increased continuously
- Soft touch grips, perfect "grip" on the handles, even with oily gloves
- Membrane keyboard, perfect ergonomics with large keys, the entire keyboard is located in a protected area (even if the machine drops)
- Cord length 5 m, extension cord and cable drums is not required
- Metal rings, perfect protection for the magnets against penetration by metallic objects (chips, milling dust, etc)

Capacity

Core drill Ø	12 - 100 mm
Core drill cutting depth	50 mm with tool holder MT-3
Twist drill Ø	1 - 16 mm with drill chuck 32 mm with MT3
Tap	M 30

Specifications

Input power	2.500 Watt
Speed under load	Gear 1 : 50 - 110 RPM Gear 2 : 75 - 175 RPM Gear 3 : 105 - 245 RPM Gear 4 : 165 - 385 RPM
Stroke	245 mm
Adjustable motor in height	116 mm
Tool adaptor	MT-3 or AL-3
Cooling	Internal via tool holder
Voltage	230 V - 50/60 Hz
Tool Force (10 mm)	4.000 N out of 20.000 N
Magnet adhesion	20.000 N
Min. material thickness	10 mm
Magnet foot size	80 x 230 mm
Magnet foot type	30° adjustable, right and left 10 mm front and rear
Dimension (L x W x H)	358 x 210 x 702 mm
Weight	28 Kg

Suitable Cutters	Depth	Diameter
TCT - Alfra & Kobecut	35 mm	14 - 35 mm
TCT - Alfra & Kobecut	50 mm	14 - 50 mm
HSS Cobalt - Alfra & Kobecut	30 mm	12 - 40 mm
HSS Cobalt - Alfra & Kobecut	50 mm	12 - 60 mm
Alfra TCT AL	50 mm	51 - 100 mm

Item Code	Item Name	MoQ
109.01.013	Rotabest 100 RL-E • Transport case, Safety belt, Coolant unit, Chip hook, Drilling spray, HSS cutter co Ø18 mm depth 30 mm, HSS pilot pin depth 30 mm, Tool holder MT3	1 Set

Optional Accessories

209.14.004	Tapping Collet - M6 - Round 6.0 - Square 4.9	1 Pc
209.14.005	Tapping Collet - M8 - Round 8.0 - Square 6.2	1 Pc
209.14.006	Tapping Collet - M10 - Round 1.0 - Square 8.0	1 Pc
209.14.007	Tapping Collet - M12 - Round 9.0 - Square 7.0	1 Pc
209.14.008	Tapping Collet - M14 - Round 11.0 - Square 9.0	1 Pc
209.14.009	Tapping Collet - M16 - Round 12.0 - Square 9.0	1 Pc
209.14.010	Tapping Collet - M18 - Round 16.0 - Square 12.0	1 Pc
209.14.011	Tapping Collet - M20 - Round 16.0 - Square 12.0	1 Pc
209.14.012	Tapping Collet - M22 - Round 18.0 - Square 14,5.0	1 Pc
209.14.003	Quick Change Tapping Adaptor Size2 MT3	1 Pc
209.12.003	Quick Drill Chuck + Weldon Shank for Twist Drills Ø 1 - 13 mm	1 Pc
225.06.011.1	Quick Chuck - Universal Shank - Ø 1 - 13 mm - 1 Pc	1 Pack
209.12.027	Drill Chuck + Weldon Shank for Twist Drills Ø 1 - 13 mm	1 Pc
209.12.001	HSS Countersink and Deburrer with Weldon Shank Ø 25 mm	1 Pc
209.12.002	HSS Countersink and Deburrer with Weldon Shank Ø 40 mm	1 Pc
209.12.004	Reducing Sleeve MT3 to MT2	1 Pc
209.12.005	Tool Holder AMT2 with Internal Cooling	1 Pc
225.06.001	Tool Holder - MT2 - 19.05 x 50, with Internal Cooling	1 Pc
209.12.006	Tool Holder AMT3 with Internal Cooling	1 Pc
225.06.002	Tool Holder - MT2 - 19.05 x 50, with Internal Cooling	1 Pc
209.12.020	Too Holder AMT3 depth 110 mm with Internal Cooling	1 Pc
209.12.007	Tool Holder AL-3	1 Pc
209.12.012	Quick Drill Chuck + Morse Taper No.3 Shank for Twist Drill Ø 1 - 16 mm	1 Pc
209.12.028	Drill Chuck + Morse Taper No.3 Shank for Twist Drill Ø 1 - 16 mm	1 Pc
209.12.023	Drill Chuck + Morse Taper No.2 Shank for Twist Drill Ø 1 - 16 mm	1 Pc
209.14.001	Tapping Attachment M3 - M12	1 Pc
209.14.002	Tapping Attachment M10 - M20	1 Pc
209.12.010	Bio 2000	1 Pc
308.02.001	Coolant 2000 at 1 Liter	1 Pc
308.02.002	Coolant 2000 at 5 Liter	1 Pc



Magnetic Drilling Machine Master 100/4



Advantageous

- New design and robust
- Equipped with a new Guide Rail for a better stability
- New improved printed circuit board / PCB
- Membrane keyboard, protection against dirt, oil, etc
- Strong torque in drilling
- Fully ball bearing and **Safety Clutch**
- Protective insulation and radio interference suppressed
- Complies with VDE and CEE regulations

Capacity

Core drill Ø	12 - 100 mm
Core drill cutting depth	50 mm with tool holder MT-3
Twist drill Ø	32 mm
Tap	M 27

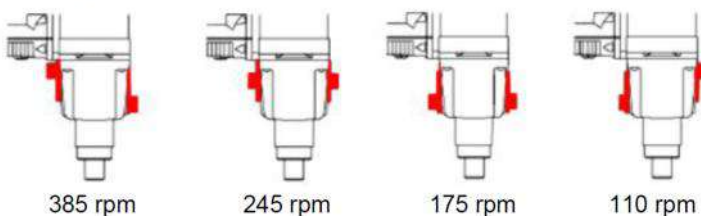
Specifications

Input power	1.700 Watt
Speed under load	Gear 1 : 110 RPM Gear 2 : 175 RPM Gear 3 : 245 RPM Gear 4 : 385 RPM
Tool adaptor	MT-3 or AL-3
Cooling	Via tool holder
Voltage	230 V - 50/60 Hz
Magnet adhesion	18.000 N
Magnet foot size	200 x 92 x 60 mm
Magnet foot type	Rigid
Weight	26.5 Kg

Suitable Cutters

Suitable Cutters	Depth	Diameter
TCT - Alfra & Kobecut	35 mm	14 - 35 mm
TCT - Alfra & Kobecut	50 mm	14 - 50 mm
HSS Cobalt - Alfra & Kobecut	30 mm	12 - 40 mm
HSS Cobalt - Alfra & Kobecut	50 mm	12 - 60 mm
Alfra TCT AL	50 mm	51 - 100 mm

Changing Gears



Item Code	Item Name	MoQ
112.04.001.1	Magnetic Drilling Machine Master 100/4 • Tool holder MT3, Safety belt, Safety google, Gloves, Allent key, Drill drifter, Spare fuse	1 Set

Optional Accessories

209.12.003	Quick Drill Chuck + Weldon Shank for Twist Drills Ø 1 - 13 mm	1 Pc
225.06.011.1	Quick Chuck - Universal Shank - Ø 1 - 13 mm - 1 Pc	1 Pack
209.12.027	Drill Chuck + Weldon Shank for Twist Drills Ø 1 - 13 mm	1 Pc
209.12.001	HSS Countersink and Deburrer with Weldon Shank Ø 25 mm	1 Pc
209.12.002	HSS Countersink and Deburrer with Weldon Shank Ø 40 mm	1 Pc
209.12.004	Reducing Sleeve MT3 to MT2	1 Pc
209.12.005	Tool Holder AMT2 with Internal Cooling	1 Pc
225.06.001	Tool Holder - MT2 - 19.05 x 50, with Internal Cooling	1 Pc
209.12.006	Tool Holder AMT3 with Internal Cooling	1 Pc
225.06.002	Tool Holder - MT2 - 19.05 x 50, with Internal Cooling	1 Pc
209.12.020	Too Holder AMT3 depth 110 mm with Internal Cooling	1 Pc
209.12.007	Tool Holder AL-3	1 Pc
209.12.012	Quick Drill Chuck + Morse Taper No.3 Shank for Twist Drill Ø 1 - 16 mm	1 Pc
209.12.028	Drill Chuck + Morse Taper No.3 Shank for Twist Drill Ø 1 - 16 mm	1 Pc
209.12.023	Drill Chuck + Morse Taper No.2 Shank for Twist Drill Ø 1 - 16 mm	1 Pc
209.14.001	Tapping Attachment M3 - M12	1 Pc
209.14.002	Tapping Attachment M10 - M20	1 Pc
209.12.010	Bio 2000	1 Pc
308.02.001	Coolant 2000 at 1 Liter	1 Pc
308.02.002	Coolant 2000 at 5 Liter	1 Pc



Rotabest 130



Oil Bath



With lifting hook for easy mobility



Advantageous

- Oil Bath gearbox, reduces wear on the gearbox significantly, even under extreme conditions
- Mechanical slipping clutch, protects the gearbox from overload and comes into action automatically
- Membrane keyboard, perfect ergonomics with large keys. The entire keyboard is located in a protected area (even if the machine drops)
- Soft touch grips, perfect "grip" on the handles, even with oily gloves
- Cord length 5 m, extension cord and cable drums is not required
- Metal rings, perfect protection for the magnets against penetration by metallic objects (chips, milling dust, etc)

Capacity

Core drill Ø	12 - 130 mm
Core drill cutting depth	50 mm with tool holder MT-3 75 mm with tool holder MT-4
Twist drill Ø	Up to Ø 45 mm with MT-4
Tap	M 42

Specifications

Input power	2.500 Watt
Speed with load	Gear 1 : 30 - 80 RPM Gear 2 : 50 - 120 RPM Gear 3 : 130 - 350 RPM Gear 4 : 210 - 550 RPM
Stroke	230 mm
Adjustable motor in height	100 mm
Tool adaptor	MT-4
Cooling	Internal via tool holder
Voltage	230 V - 50/60 Hz
Tool Force (10 mm)	5.000 N out of 32.000 N
Magnet foot size	32.000 N
Magnet foot type	90 x 400 mm
Dimension (L x W x H)	540 x 250 x 740 mm
Weight	34.5 Kg

Suitable Cutters	Depth	Diameter
TCT - Alfra & Kobecut	35 mm	14 - 35 mm
TCT - Alfra & Kobecut	50 mm	14 - 50 mm
HSS Cobalt - Alfra & Kobecut	30 mm	12 - 40 mm
HSS Cobalt - Alfra & Kobecut	50 mm	12 - 60 mm
Alfra TCT AL	50 mm	51 - 100 mm

Item Code	Item Name	MoQ
109.01.014	Rotabest 130	1 Set
	<ul style="list-style-type: none"> • Transport case, Safety belt, Coolant unit, Chip hooky 	

Optional Accessories

209.12.005	Tool Holder AMT2 with Internal Cooling	1 Pc
225.06.001	Tool Holder - MT2 - 19.05 x 50, with Internal Cooling	1 Pc
209.12.006	Tool Holder AMT3 with Internal Cooling	1 Pc
225.06.002	Tool Holder - MT3 - 19.05 x 50, with Internal Cooling	1 Pc
225.06.003	Tool Holder - MT4 - 19.05 x 75, with Internal Cooling	1 Pc
209.12.003	Quick Drill Chuck + Weldon Shank - Ø 1 - 13 mm	1 Pc
225.06.011.1	Quick Chuck - Universal Shank - Ø 1 - 13 mm - 1 Pc	1 Pack
209.12.001	HSS Countersink and Deburrer with Weldon Shank Ø 25 mm	1 Pc
209.12.002	HSS Countersink and Deburrer with Weldon Shank Ø 40 mm	1 Pc
209.12.007	Tool Holder AL-3	1 Pc
209.12.008	Tool Holder AL-4	1 Pc
209.12.027	Drill Chuck + Weldon Shank for Twist Drills Ø 1 - 13 mm	1 Pc
209.12.004	Reducing Sleeve MT3 to MT2	1 Pc
209.12.029	Reducing Sleeve MT4 to MT2	1 Pc
209.12.012	Quick Drill Chuck + Morse Taper No.3 Shank for Twist Drill Ø 1 - 16 mm	1 Pc
209.12.023	Drill Chuck + Morse Taper No.2 Shank for Twist Drill Ø 1 - 16 mm	1 Pc
209.12.028	Drill Chuck + Morse Taper No.3 Shank for Twist Drill Ø 1 - 16 mm	1 Pc
209.12.010	Bio 2000	1 Pc
308.02.001	Coolant 2000 at 1 Liter	1 Pc
308.02.002	Coolant 2000 at 5 Liter	1 Pc



Rotabest V32



Advantageous

- Horizontal metal core drilling machine for the tightest conditions. Perfect for use where regular metal core drilling machines cannot go due to their height
- Application areas : Steel construction (in between girder flanges), vehicle construction (truck frames), bridge construction, tower construction, tunnel construction, everywhere where it's narrow
- Magnet foot components from the Rotabest series. The total height is just 227 mm and can even be reduced to 185 mm by removing the handle
- The spur gear unit is designed for robust use and is fed using a ratchet. Reversible for right and left handed operation
- Equipped with 2 sided pillar guidance
- Another advantage : the design of the angled gear unit ensures permanent lubrication and prevents dry running
- Used with the proven motors and magnet foot components from the Rotabest series
- Cord length 5 m, extension cord and cable drums is not required
- Metal rings, perfect protection for the magnets against penetration by metallic objects (chips, milling dust, etc)
- Performance and weight optimization, dimensioning and coil sizing are ideally matched

Capacity

Core drill Ø	12 - 32 mm
Core drill cutting depth	30 mm
Countersinking Ø	10 - 32 mm

Specifications

Input power	900 watt
Speed under load	450 RPM
Tool adaptor	19 mm Weldon shank
Cooling	Integrated, Automatically
Voltage	230 V - 50/60 Hz
Tool Force (10 mm)	2.100 N out of 16.000 N
Magnet adhesion	16.000 N
Magnet foot size	95 x 200 mm
Magnet foot type	Rigid
Power cord	5.0 m
Dimension (L x W x H)	360 x 127 x 227 mm
Weight	12.5 Kg

Suitable Cutters

	Depth	Diameter
TCT - Alfra & Kobecut	35 mm	14 - 35 mm
HSS Cobalt - Alfra & Kobecut	30 mm	12 - 35 mm

Item Code

Item Name

MoQ

109.01.011	Rotabest V32	1 Set
	<ul style="list-style-type: none"> • Transport case, Coolant pressure flask, Allen key for Weldon shank, Safety belt, HSS yellow depth 25 mm - Ø18 mm, Pilot pin 6.35 x 70 mm, for HSS 25 	

Optional Accessories

209.12.003	Quick Drill Chuck + Weldon Shank - Ø 1 - 13 mm	1 Pc
225.06.011.1	Quick Chuck - Universal Shank - Ø 1 - 13 mm - 1 Pc	1 Pack
209.12.027	Drill Chuck + Weldon Shank for Twist Drills Ø 1 - 13 mm	1 Pc
209.12.001	HSS Countersink and Deburrer with Weldon Shank Ø 25 mm	1 Pc
209.12.002	HSS Countersink and Deburrer with Weldon Shank Ø 40 mm	1 Pc
209.12.010	Bio 2000	1 Pc
308.02.001	Coolant 2000 at 1 Liter	1 Pc
308.02.002	Coolant 2000 at 5 Liter	1 Pc





WARRANTY
12 MONTHS SERVICE
6 MONTHS SPARE PARTS

Input **1** PHASE **50** Hz **60** Hz



Vacuum Attachment Vacubest



Main Applications

- Aircraft construction
- Shipbuilding
- Truck body construction
- Chemical tank construction
- Bus construction
- chrome-nickel steels

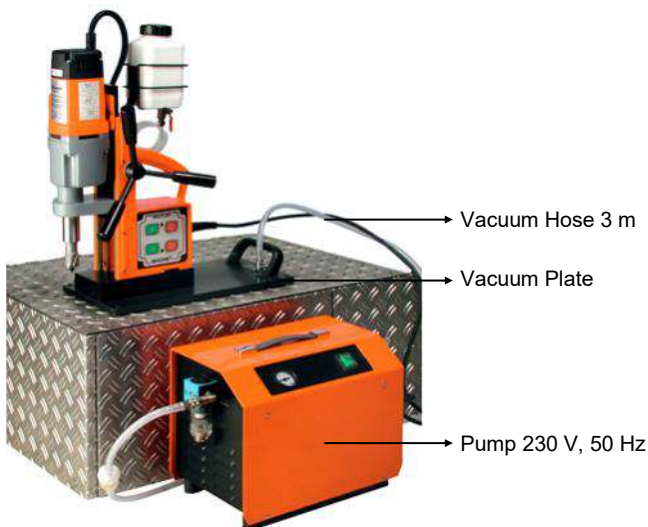
Advantageous

- This attachment permits the use of our core drilling machines with all their advantages on non-magnetic, dense, level surfaces such as aluminum, copper, brass, chrome-nickel steel, (INOX, V2A, V4A) and plastics
- The surface must be clean and even, slight traces of dirt within the twin chambers are acceptable
- Suitably to fit with a drilling capacity up to Ø 50 mm

Specifications

Vacuum capacity	1.5 m ³ /h or 25 l/min
Max. vacuum	200 mbar
Overpressure	300 mbar
Dimensions	400 x 200 mm

Item Code	Item Name	MoQ
209.11.001	Vacuum Attachment, Vacubest • pump (230 V, 50 Hz) • Vacuum plate • Vacuum hose 3 m	1 Set





Rotabest Attachment



Advantageous

- "When it comes around again" on the assembly - or in the workshop ! Our mechanical pipe fastening unit with chain tension or tension strap enables the use of core drilling machines on pipes from Ø 80 mm. The adjustment takes place through flexible clamps. For pipes of various Ø.
- For outdoor work as well as in workshops
- Suitably to fit with a drilling capacity up to Ø 50 mm

The clamping device can be fixed quickly and easily on pipes of different diameters - adjustment being made by movable tension catches.

- Put tension chain around the pipe, pass through the clamping device and prestress
- Mount core drilling machine, switch on the magnet and tighten the magnet safety screws on both sides
- Adjust core drilling machine and tighten the tension chain by means of the adjustable crank handle
- Ready for drilling
- Before drilling a new hole on the same pipe only release the crank handle, adjust the drilling machine on the next spot and tighten the tension chain again

Item Code	Item Name	MoQ
209.11.002	Fastening unit with a tensioning chain Ø 80 - 300 mm, for magnetic base 100 x 235 mm	1 Set
209.11.003	Fastening unit with two tensioning chains Ø 80 - 900 mm, for magnetic base 100 x 280 mm	1 Set
209.11.004	Fastening unit with tension strap Ø 80 - 900 mm, for magnetic base 100 x 235 mm	1 Set
209.11.005	Clamping range with double tension belt up to Ø 2.000 mm pipe	1 Set



209.11.003



209.11.002



Rotabest Accessories



Item Code	Item Name	MoQ
209.12.001	HSS countersink and deburrer with weldon shank Ø 25 mm	1 Pc
209.12.002	HSS countersink and deburrer with weldon shank Ø 40 mm	1 Pc
209.12.003	Quick Drill Chuck + Weldon Shank for twist drills Ø 1 - 13 mm	1 Set
209.12.027	Drill Chuck + Weldon Shank for twist drills Ø 1 - 13 mm	1 Set
209.12.004	Reducing sleeve MT 3 to MT 2	1 Pc
209.12.029	Reducing sleeve MT 4 to MT 2	1 Pc
209.12.005	Tool Holder AMT 2 depth 50 mm with Internal Cooling	1 Pc
209.12.006	Tool Holder AMT 3 depth 50 mm with Internal Cooling	1 Pc
209.12.020	Tool Holder AMT 3 depth 110 mm with Internal Cooling	1 Pc
209.12.007	Tool Holder AL-3	1 Pc
209.12.008	Tool Holder AL-4	1 Pc
209.12.010	Bio 2000	1 Pc
209.12.012	Quick Drill Chuck + Morse Taper No. 3 shank for Twist drill Ø 1 - 16 mm	1 Set
209.12.028	Drill Chuck + Morse Taper No. 3 shank for Twist drill Ø 1 - 16 mm	1 Set
209.12.023	Drill Chuck + Morse Taper No. 2 shank for Twist drill Ø 1 - 16 mm	1 Set



Item Code	Item Name	MoQ
225.06.001	Tool Holder - MT 2 - Depth 50 mm with Internal Cooling	1 Pc
<ul style="list-style-type: none"> • Allen key 		



Item Code	Item Name	MoQ
225.06.002	Tool Holder - MT 3 - Depth 50 mm with Internal Cooling	1 Pc
<ul style="list-style-type: none"> • Allen key 		



Item Code	Item Name	MoQ
225.06.003	Tool Holder - MT 4 - Depth 75 mm with Internal Cooling	1 Pc
<ul style="list-style-type: none"> • Allen key 		



Item Code	Item Name	MoQ
225.06.011.1	Quick Chuck - Universal Shank Ø 1 - 13 mm	1 Pc

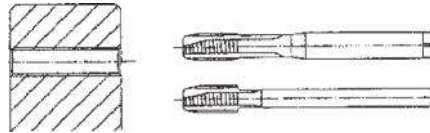
Tapping - Recommended Dimensions

Tapping : the tap must be adjusted on the prepared boring in the work piece. Put down spindle, until the tap touches the surface and the process can be started. Please comply with below chart for metric ISO thread.

Tips for Tapping
1. Clearance Hole

For Clearance Holes we recommend alongside mentioned taps, which safely conveys the chips out of the hole. The specially shaped grinding guarantees a safe remounting, when the tap opted out of the thread hole and returns in left hand rotation.

Chip ejection downwards through the bore



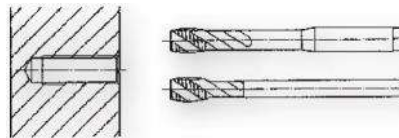
DIN 371 with reinforced shank Shape B, with spiral face inclination, 3.5 to 5 convolutions.

DIN 376 with taper shank Tap depth 3 x D

2. Tapped Blind Holes

For Tapped Blind Holes we recommend alongside mentioned taps. The chips are conveyed out of the hole contrary to the cutting direction. Important : do not run aground with tap, as otherwise the automatic return run will not be activated. A correspondingly larger pre drilling depth must be carried out. In case of a disregard, the tap must be manually released.

Chip ejection alongside the tool



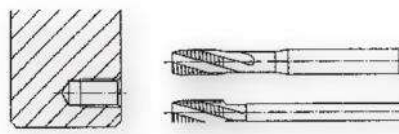
DIN 371 with reinforced shank spiral grooved, ca. 35° right hand twist, Section shape C, ca. 3 convolutions

DIN 376 with taper shank Tap depth 2.5 x D

3. Pocket Holes up to 1.5 x D

Taps according to alongside mentioned image are suitable. Here as well, the chips are conveyed out of the hole contrary to the cutting direction. Important : do not run aground with tap. A correspondingly larger pre drilling depth must be carried out. In case of a disregard, the tap must be manually released.

Chip ejection alongside the tool



DIN 371 with reinforced shank spiral grooved, ca. 17° right hand twist, Section shape C, ca. 3 convolutions

DIN 376 with taper shank Tap depth 1.5 x D

Beside our taps with reinforced shanks, other taps according to DIN 376 with taper shank are suitable as well. Please work with sufficient recommended for tapping by the corresponding manufacturer.

Bore Hole Chart Metric ISO-Thread

Dimension	Thread pitch	Drill diameter
M3	0.5	2.5
M4	0.7	3.3
M5	0.8	4.2
M6	1	5
M8	1.25	6.8
M10	1.5	8.5
M12	1.75	10.2
M14	2	12
M16	2	14
M18	2.5	15.5
M20	2.5	17.5

Metric Fine Thread

Dimension	Thread pitch	Drill diameter
M8 x 1	1	7
M10 x 1	1	9
M12 x 1	1	11
M12 x 1.5	1.5	10.5
M14 x 1	1	13
M14 x 1.5	1.5	12.5
M16 x 1	1	15
M16 x 1.5	1.5	14.5
M20 x 1	1	19
M20 x 1.5	1.5	18.5



Rotabest Tapping



Item Code	Item Name	Shank	MoQ
209.14.001	Tapping Attachment M3 - M12 <ul style="list-style-type: none"> • Rota-quick® - shank and MT 2 • Replaceable plastic case • Manual book • reducing sleeve MT3 to MT2 	MT 2 and Rotaquick	1 Set
209.14.002	Tapping Attachment M10 - M20 <ul style="list-style-type: none"> • Rota-quick® - shank and MT 2 • Replaceable plastic case • Manual book • reducing sleeve MT3 to MT2 	MT 2 and Rotaquick	1 Set

Item Code	Item Name	MoQ
209.14.003	Quick Change Tapping Adaptor size 2, MT 3, separate	1 Pc



Tapping Collet				
Item Code	Round	Shank Ø	Square	MoQ
209.14.004	M 6	6.0	4.9	1 Pc
209.14.005	M 8	8.0	6.2	1 Pc
209.14.006	M 10	10.0	8.0	1 Pc
209.14.007	M 12	9.0	7.0	1 Pc
209.14.008	M 14	11.0	9.0	1 Pc
209.14.009	M 16	12.0	9.0	1 Pc
209.14.010	M 18	14.0	11.0	1 Pc
209.14.011	M 20	16.0	12.0	1 Pc
209.14.012	M 22	18.0	14.5	1 Pc



Note : Assembly part for 209.14.003





Coolant 2000



Main Applications

- General machining
- Grinding
- Low to medium tensile steels
- Aluminum, copper and their alloys

Advantageous

- Highly stable oil-in water emulsion
- Develop for use as a general purpose
- Cost effective metalworking fluids
- Contains a biocide to prevent foul odor from bacterial degradation
- Nitrite free
- Operators health and safety, reduced risk of the formation of nitrosamines
- Phenol and chlorine free
- Environmentally safe, low disposal costs
- Excellent lubricity
- High oil content provides excellent machine tool lubrication
- Emulsion stability
- Tolerant to difficult diluents waters

Mixing Instruction

- **DACH 2000** should be added gradually into the full volume of water-never the reverse and gentle agitation maintained until all the oil has been added and a uniform emulsion obtained. Use lower concentration for top-up to achieve recommended mix-ratios
- Concentrations may need to be increased when machining difficult materials and where the water hardness of the diluent has an effect on corrosion inhibition

Recommended Concentrations	%	Ratio
Grinding	2 - 3	50 : 1 to 30 : 1
General machining, non ferrous materials	4 - 5	30 : 1 to 20 : 1
General machining, ferrous materials	5	20 : 1

Typical Physical Characteristics

Appearance	Amber fluid
Emulsion type	Dense white
Density @ 15°C kg/l	0.92
PH at 5% concentration	8.9
Corrosion breakpoint (IP 287)	30 / 1

Item Code	Item Name	MoQ
308.02.001	Coolant 2000 at 1 Liter	1 Pc
308.02.002	Coolant 2000 at 5 Liter	1 Pc



Drilling Machine - EHB 32/4.2



Advantageous

- Strong torque and lighter weight among others in its class
- Metal and timber construction, machine, plant and vehicle construction
- Safety clutch system, which will prolong the life of armature and drill bits
- Protective double insulation and radio interference
- Complies with VDE and CEE regulation
- Equipped with four gears RPM, for a wide range of applications

Capacity

Twist drill Ø	32 mm
Morse taper	MT 3

Specifications

Input power	1.700 Watt
Voltage	230 V - 50/60 Hz
Frequency	50 - 60 Hz
Speed with no load	Gear 1 : 215 RPM Gear 2 : 330 RPM Gear 3 : 460 RPM Gear 4 : 680 RPM
Max drilling Ø wood / alu / steel	100 / 60 / 32 mm
Spindle connection	MT 3
Collar diameter	65 mm
Protection class	IP 20
Weight	6.9 Kg

Suitable for any kind of Portable Magnetic Drilling Machines



Item Code	Item Name	MoQ
112.01.001	Drilling Machine - EHB 32/4.2 • Drill drifter	1 Set

Optional Accessories

209.14.003	Quick Change Tapping Adaptor Size 2 MT3	1 Pc
209.12.003	Quick Drill Chuck + Weldon Shank for Twist Drills Ø 1 - 13 mm	1 Pc
225.06.011.1	Quick Chuck - Universal Shank - Ø 1 - 13 mm - 1 Pc	1 Pack
209.12.027	Drill Chuck + Weldon Shank for Twist Drills Ø 1 - 13 mm	1 Pc
209.12.001	HSS Countersink and Deburrer with Weldon Shank Ø 25 mm	1 Pc
209.12.002	HSS Countersink and Deburrer with Weldon Shank Ø 40 mm	1 Pc
209.12.004	Reducing Sleeve MT3 to MT2	1 Pc
209.12.005	Tool Holder AMT2 with Internal Cooling	1 Pc
225.06.001	Tool Holder - MT2 - 19.05 x 50, with Internal Cooling	1 Pc
209.12.006	Tool Holder AMT3 wit Internal Cooling	1 Pc
225.06.002	Tool Holder - MT3 - 19.05 x 50, with Internal Cooling	1 Pc
209.12.020	Tool Holder AMT3 depth 110 mm with internal cooling	1 Pc
209.12.007	Tool Holder AL-3	1 Pc
209.12.012	Quick Drill Chuck + Morse Taper No.3 Shank for Twist Drill Ø 1 - 16 mm	1 Pc
209.12.023	Drill Chuck + Morse Taper No.2 Shank for Twist Drill Ø 1 - 16 mm	1 Pc
209.12.028	Drill Chuck + Morse Taper No.3 Shank for Twist Drill Ø 1 - 16 mm	1 Pc
209.14.001	Tapping Attachment M3 - M12	1 Pc
209.14.002	Tapping Attachment M10 - M20	1 Pc
209.12.010	Bio 2000	1 Pc
308.02.001	Coolant 2000 at 1 Liter	1 Pc
308.02.002	Coolant 2000 at 5 Liter	1 Pc





Portable Magnetic Drill - Atra Mini Ace AM 18

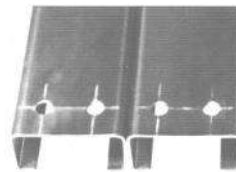


Advantageous

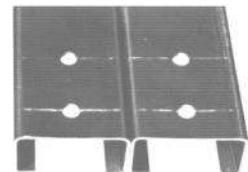
- New Portable Boring Machine, working time is cut to 1/3 !
- Adoption of the automatic centering vice system, reduces the time required to make a center hole
- Hole-saw makes possible speedy, high precision
- It is compact and super light for easy carrying
- Parallel or zigzag drilling
- In addition to speedy center hole making, the unique sliding mechanism enables cutting holes having pitch of up to 75 mm
- Super Lightweight Type
- The most efficient way to work the frames of C Channel steel, i.e. roof and shell work

Specifications

Hole capacity	Up to 18 mm
Cutting depth	Up to 6 mm
Slide width (hole pitch)	75 mm
Vice clamp width	30 - 130 mm
Power source	220 V AC
Rated amperage	1.8 A
Rated output	380 Watt
No load speed	1.250 RPM
Dimension (L x W x H)	291 x 248 x 340 mm
Weight	10 Kg



Parallel hole boring



Center hole boring

Item Code	Item Name	MoQ
123.01.001	Portable Magnetic Drill - Atra Mini Ace AM 18	1 Unit



Diamond Core Drilling Machine - LY-150



Main Applications

- Building construction
- Concrete
- Masonry

Advantageous

- Massive 2.200 W motor for faster drilling
- Cool running under industrial use
- Heavy duty steel pole for accurate drilling
- Circuit breaker switch for safety
- PRCD (Portable Residual Current Device) when applicable to protect user, in any case when there is voltage leak and prevent user from being electrocuted

Specifications

Voltage	230 V, 50 Hz
No load speed	800 RPM
Input power	2.200 Watt
Drilling capacity	1 to 6 inch or 25.4 mm to 150 mm
Effective stroke	480 mm
Collet	1 1/4"
Dimension (L x W x H)	370 x 200 x 865 mm
Weight	18 Kg



PRCD Device

Item Code	Item Name	MoQ
111.02.001	Diamond Core Drilling Machine - LY- 150	1 Set
	<ul style="list-style-type: none"> • Adjustable wrench 280 mm, Box wrench, Spanner 17 mm x 19 mm, Driving holder 1/2", Anchor 1/2", Bolt 1/2" x 140 mm, Square washer, Water collector, Hex. nut 1/2", Hex. wrench 3 mm, Wrench M10 	





Cutting Machine - Circular Saw - CS 200



Main Applications

- Steel
- Stainless steel
- Aluminum

Advantageous

- Amazing performance cutting metals as easily as a conventional circular saws cut wood. Cuts efficiently and keeps cool
- Super-quick chip clearing with our unique bayonet-type blade cover latch
- Ergonomic handle shape and position with soft TPR grip the result of extensive lab testing for maximum comfort and fatigue free operation
- Our saws provide easy to read positive stops for all the most popular bevel angles, plus quick and easy adjustment
- High stability base with quick, tool-free depth adjustment including clearly marked scale
- High output motors for all the torque you need to perform even the most challenging cuts
- Safety features include a lock-off switch and spark/chip containing design
- Every feature comes together to provide exact, clean cuts with a variety of metals

Specifications

Voltage	230 V, 50 Hz
No load speed	3.700 RPM
Input power	1.700 Watt
Bevel	0 to 45°
Blade	200 mm (8 inch)
Cutting capacities	0 Degree Bevel : 67 mm 45 Degree Bevel : 42 mm
Dimension (L x W x H)	368 x 284 x 330 mm
Weight	6.3 Kg

Item Code

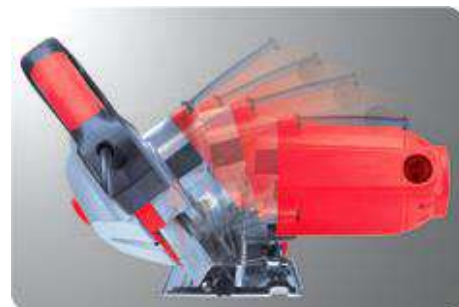
Item Name

MoQ

111.04.001	Circular Saw - CS 200	1 Set
	<ul style="list-style-type: none"> • Hard shell case, Side handle, Hex. Wrench M6, Japan TCT saw blade 203-40T 	

Optional Accessories

211.01.002	Japan TCT Saw Blade 203-40T	1 Pc
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Bevels up to 45°



Cutting Machine - Circular Saw - CS 230



Main Applications

- Steel
- Stainless steel
- Aluminum

Advantageous

- Amazing performance cutting metals as easily as a conventional circular saws cut wood. Cuts efficiently and keeps cool
- Super-quick chip clearing with our unique bayonet-type blade cover latch
- Ergonomic handle shape and position with soft TPR grip the result of extensive lab testing for maximum comfort and fatigue free operation
- Our saws provide easy to read positive stops for all the most popular bevel angles, plus quick and easy adjustment
- High stability base with quick, tool-free depth adjustment including clearly marked scale
- High output motors for all the torque you need to perform even the most challenging cuts
- Safety features include a lock-off switch and spark/chip containing design
- Every feature comes together to provide exact, clean cuts with a variety of metals

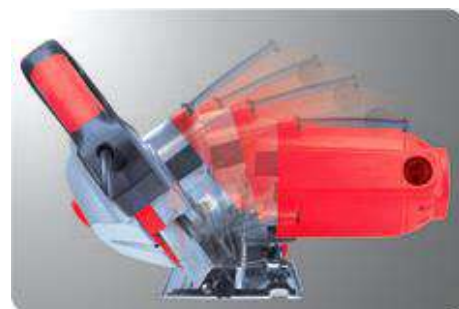
Specifications

Voltage	230 V, 50 Hz
No load speed	2.200 RPM
Input power	1.700 Watt
Bevel	0 to 45°
Blade	230 mm (9 inch)
Cutting capacities	0 Degree Bevel : 80 mm 45 Degree Bevel : 56 mm
Dimension (L x W x H)	383 x 301 x 360 mm
Weight	7.1 Kg

Item Code	Item Name	MoQ
111.04.001	Circular Saw - CS 230	1 Set
	<ul style="list-style-type: none"> • Hard shell case, Side handle, Hex. Wrench M6, Japan TCT saw blade 230-48T 	

Optional Accessories

211.01.003	Japan TCT Saw Blade 230-48T	1 Pc
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Bevels up to 45°



Cutting Machine - Dry Cut - DRC 355



Main Applications

- Steel
- Stainless steel
- Aluminum

Advantageous

- The dry cut saw blade shears through the material 3 times faster than traditional cut off saw with abrasive wheels
- All with less sparks, less heat and resulting accurate cutting, clean and practically free of burrs
- Superior TCT saw blade, only 2.4 mm metal loss
- Carriage lock
- Handy wrench storage
- Arbor lock
- See through protection shield
- Two pieces lower blade guard
- Tool free fence lock
- Chip tray
- High stability cast aluminum alloy base
- Fence with scale swivels 45 ° in right and left directions
- Quick lock vise with speed crank
- Soft Start with 2.200 watts motor
- Motor with auto stop carbon brush

Specifications

Voltage	230 V, 50 Hz
Speed with no load	1.300 RPM
Input power	2.200 Watt
TCT saw blade	355 mm = 14 inch
Arbor diameter	25.4 mm = 1 inch
Power supply cord	3 meter
Dimensions (L x W x H)	680 x 360 x 580 mm
Weight	23.5 Kg

Max. Cutting Capacities

90°		132 mm
90°		120 mm x 120 mm
90°		180 mm x 100 mm

Right Hand Miter

45°		105 mm
45°		90 mm x 90 mm
45°		90 mm x 120 mm

Item Code | Item Name

Item Code	Item Name	MoQ
111.04.003	Dry Cut - DRC 355	1 Set

- Hex. Wrench 4 mm, Hex. Wrench 6 mm, Hex. Wrench 8 mm, Chip tray, V-jig block, Japan TCT saw blade 355-80T

Left Hand Miter

25°		80 mm x 120 mm
30°		90 mm x 120 mm - with C-clamp
35°		80 mm x 120 mm - with C-clamp
45°		70 mm x 120 mm - with C-clamp

Optional Accessories

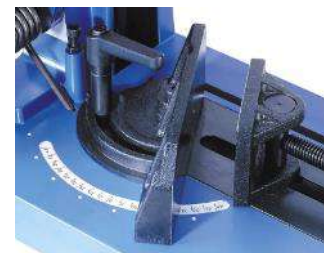
211.01.003	Japan TCT Saw Blade 355-80T	1 Pc
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Quick-Lock Vise with Speed Crank



Chip Tray



Fence with scale swivels 45 degrees in both directions (Right & Left) Quick detents for popular miter angles 0-15-30-45 left and right



Bevelling - SKF 63-15



Advantageous

- The ALFRA bevel milling machine was specially developed for weld preparation and for milling metallic materials
- Universally applicable in construction areas, light weight and direct use on the workpiece
- Suitable for the milling of steel, chrome nickel steel, cast iron and non-ferrous heavy metals
- Designed for one-man operation, the machine is placed on a 90° angle on the work piece, a light downward pressure applied, and guided along manually
- The roller guide rails are made of hardened steel and guarantee excellent feed rates
- Simple, safe operation with overload protection and restart interlock
- The design of this side milling cutter, which uses commercially available inserts and a rotation speed of 2.870 RPM, guarantees chatter-free, uniform bevel milling
- OFF switch integrated into the right-side hand grip (see picture below)
- Pipes from Ø 160 mm up to Ø 390 mm can be externally milled by means of an additional device
- Max. land width 15 mm, angle adjustment 15 - 60°
- Optional device for larger pipes, Ø of 1.000 - 2.000 mm upon request

Specifications

Voltage	230 V - 50/60 Hz
Capacity	1.100 Watt
Rotation speed	2.870 RPM
Bevel width	15 mm max.
Bevel angle	15° - 20 - 30 - 45 - 60° adjustable
Dimension (L x W x H)	440 x 200 x 280 mm
Weight	21 Kg

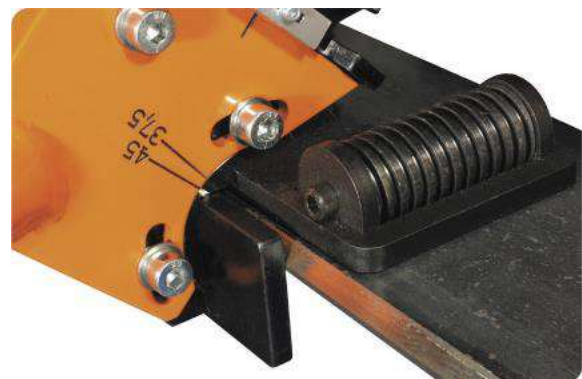
Item Code	Item Name	MoQ
109.02.001	Bevelling - SKF 63-15	1 Set
	• Transport case, Set of operating tools	

Optional Accessories

209.15.001	2 Milling disks & 6 pcs High speed inserts	1 Set
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209.15.001





Mini Beveler - Handy Electric Beveling Tool Mini - Type MB-03 A

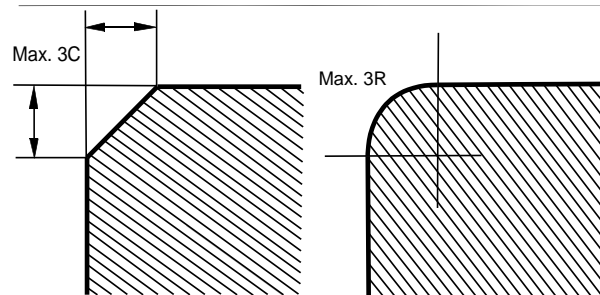


Advantageous

- The compact Mini Beveller can chamfer up to a maximum of 3C or 3R.
- By adopting a super solid tip, the cleanest possible chamfering is now easily, quickly and economically obtained.
- Post Finishing is not required. And outer, inner diameters can be chamfered as well.
- Super solid tip, the super solid tip is a time saving convenience. The tip has four usable surfaces, so each new one represents long time economy.
- Clean chamfered surfaces need no post finishing.
- Extended applications - outer diameters, too. A special outer R part attachment allows chamfering to outer diameter with a radius greater than 170 mm.

Specifications

Rated Voltage	1 P - 220 VAC
Rated Current	2 A
Rated Output	430 Watt
Chamfering Capacity	0 - 3 C
Chamfer Angle	45 degree
Chamfering Radius Capacity	2R - 3R
Rated Revolution	7.100 RPM
Overall Length	316 mm
Weight	2.5 Kg



Item Code	Item Name	MoQ
123.03.001	Mini Beveler Handy Electric Beveling Tool - Mini Type MB-03 A	1 Set

ALFRA Punching unit APS - Working Range

	Material Thickness	Required force for Punching (kN) (10 kN ... approx. 1 ton) - Punch diameter (mm)																						
	mm	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
	Material DIN S233	APS 70															APS 120 / APS 110 D							
APS 70 (DIN S 275)	3	25	28	32	35	39	43	46	50	53	57	60	64	67	71	74	78	82	85	89	92	96	99	
	4	33	38	43	47	52	57	61	66	71	76	80	85	90	94	99	104	109	113	118	123	128	132	
	5	41	47	53	59	65	71	77	83	89	94	100	106	112	118	124	130	136	142	148	154	159	165	
	6	50	57	64	71	78	85	92	99	106	113	120	128	135	142	149	156	163	170	177	184	191	198	
	7	58	66	74	83	91	99	107	116	124	132	141	149	157	165	174	182	190	198	207	215	223	232	
	8		76	85	94	104	113	123	132	142	151	161	170	180	189	198	208	217	227	236	246	255	265	
	9			96	106	117	128	138	149	159	170	181	191	202	213	223	234	245	255	266	276	287	298	
	10				118	130	142	154	165	177	189	201	213	224	236	248	260	272	283	295	307	319	331	
	11					143	156	169	182	195	208	221	234	247	260	273	286	299	312	325	338	351	364	
	12						170	184	198	213	227	241	255	269	283	298	312	326	340	354	369	383	397	
	13							200	215	230	246	261	276	292	307	322	338	353	369	384	399	415	430	
	APS 120 APS 110 D (DIN S275)	14								232	248	265	281	298	314	331	347	364	380	397	413	430	447	463
		15									266	283	301	319	337	354	372	390	408	425	443	461	478	496
16											302	321	340	359	378	397	416	435	454	472	491	510	529	
17												341	361	382	402	422	442	462	482	502	522	542	562	
18													383	404	425	447	468	489	510	532	553	574	595	

Conversion Table - Unit of Pressure
Conversion from bar to psi

bar	psi
1	14.5
10	145
100	1450
500	7250
1000	14500
1200	17400

Conversion from psi to bar

psi	bar
1	0.068965517
100	6.896551724
5000	344.8275862
10000	689.6551724
10500	724.137931

Tips and Notices

1. Please oil punch from time to time, when material is heavily oxidized.
2. Standard punching units are not normally suitable for punching high strength tooling steel, stainless steels or boiler-plate steel. Refer to us for technical advice for punching work in this application range.
3. When selecting your tool, please note :
 - For material DIN S233: maximum material thickness = 0.8 x hole Ø
 - For material DIN S275: maximum material thickness = 0.5 x hole Ø



Hydraulic Punching Machine - APS 70



Main Applications

- Building construction
- Bridge construction
- Crane
- Power Plant

Advantageous

- Integrated automatic return stroke
- Mobile use, no material transport
- Virtually noiseless punching
- Easy positioning through stop function of the punch
- Easily portable, fully automatic, hydraulic punching equipment for steel, bridge, container, crane and metal construction

Specifications	APS 70
Max. round hole	22 mm
Max. oval hole	22 x 14 mm
Material thickness (DIN S275)	13 mm
Punching time with AHP-M	+/- 5 sec.
Throat depth	70 mm
Max. pressure	700 bar = 10.150 psi
Punching power	30 ton
Punch stroke	18 mm
Recommended pump	AHP-M
Dimension (L x W x H)	562 x 125 x 382 mm
Weight	29.9 Kg

Item Code	Item Name	MoQ
109.03.002	Hydraulic Punching - APS 70 - Single Action <ul style="list-style-type: none"> Control cable, Hydraulic hose 5, Spanner punch, APS round punch Ø 18 mm, APS round die Ø 18 mm, Suspension bracket, Depth adjustment 	1 Set

Item Code	Item Name	MoQ
Optional Accessories		
109.03.008	Hydraulic Pump AHP-M for APS	1 Unit
209.24.001	Tension Nut with Boring Ø 7 - 24 mm	1 Pc
209.24.002	Tension Nut with Boring Ø 25 mm	1 Pc
209.18.014	APS Round Punch & Die 120, 110, 70 Package - Ø 18 mm	1 Set
209.18.001	APS Round Punch & Die 120, 110, 70 Package - Ø 7 mm	1 Set
209.18.002	APS Round Punch & Die 120, 110, 70 Package - Ø 8 mm	1 Set
209.18.003	APS Round Punch & Die 120, 110, 70 Package - Ø 9 mm	1 Set
209.18.004	APS Round Punch & Die 120, 110, 70 Package - Ø 10 mm	1 Set
209.18.005	APS Round Punch & Die 120, 110, 70 Package - Ø 11 mm	1 Set
209.18.006	APS Round Punch & Die 120, 110, 70 Package - Ø 12 mm	1 Set
209.18.007	APS Round Punch & Die 120, 110, 70 Package - Ø 13 mm	1 Set
209.18.008	APS Round Punch & Die 120, 110, 70 Package - Ø 14 mm	1 Set
209.18.009	APS Round Punch & Die 120, 110, 70 Package - Ø 14.5 mm	1 Set
209.18.010	APS Round Punch & Die 120, 110, 70 Package - Ø 15 mm	1 Set
209.18.011	APS Round Punch & Die 120, 110, 70 Package - Ø 16 mm	1 Set
209.18.012	APS Round Punch & Die 120, 110, 70 Package - Ø 17 mm	1 Set
209.18.013	APS Round Punch & Die 120, 110, 70 Package - Ø 17.5 mm	1 Set
209.18.015	APS Round Punch & Die 120, 110, 70 Package - Ø 19 mm	1 Set
209.18.016	APS Round Punch & Die 120, 110, 70 Package - Ø 20 mm	1 Set
209.18.017	APS Round Punch & Die 120, 110, 70 Package - Ø 21 mm	1 Set
209.18.018	APS Round Punch & Die 120, 110, 70 Package - Ø 22 mm	1 Set
209.18.019	APS Round Punch & Die 120, 110, 70 Package - Ø 23 mm	1 Set
209.18.020	APS Round Punch & Die 120, 110, 70 Package - Ø 23.5 mm	1 Set
209.18.021	APS Round Punch & Die 120, 110, 70 Package - Ø 24 mm	1 Set
209.18.022	APS Round Punch & Die 120, 110, 70 Package - Ø 25 mm	1 Set
209.23.001	APS Oval Punch & Die Package - 16 x 8 mm	1 Set
209.23.002	APS Oval Punch & Die Package - 18 x 9 mm	1 Set
209.23.003	APS Oval Punch & Die Package - 18 x 11 mm	1 Set
209.23.004	APS Oval Punch & Die Package - 20 x 10 mm	1 Set
209.23.005	APS Oval Punch & Die Package - 20 x 12 mm	1 Set
209.23.006	APS Oval Punch & Die Package - 20 x 14 mm	1 Set
209.23.007	APS Oval Punch & Die Package - 22 x 11 mm	1 Set
209.23.008	APS Oval Punch & Die Package - 22 x 14 mm	1 Set
209.23.009	APS Oval Punch & Die Package - 24 x 12 mm	1 Set
209.23.010	APS Oval Punch & Die Package - 25 x 9 mm	1 Set
209.23.011	APS Oval Punch & Die Package - 25 x 12 mm	1 Set
209.23.012	APS Oval Punch & Die Package - 25 x 13 mm	1 Set
209.23.013	APS Oval Punch & Die Package - 25 x 14 mm	1 Set
209.23.014	APS Oval Punch & Die Package - 25 x 18 mm	1 Set



Hydraulic Punching Machine - APS 120



Main Applications

- Building construction
- Bridge construction
- Crane
- Power Plant

Advantageous

- Integrated automatic return stroke
- Mobile use, no material transport
- Virtually noiseless punching
- Easy positioning through stop function of the punch
- Easily portable, fully automatic, hydraulic punching equipment for steel, bridge, container, crane and metal construction

Specifications	APS 120
Max. round hole	25 mm
Max. oval hole	25 x 18 mm
Material thickness (DIN S275)	16 mm
Punching time with AHP-M	+/- 10 sec.
Throat depth	110 mm
Max. pressure	700 bar = 10.150 psi
Punching power	44 ton
Punch stroke	25 mm
Recommended pump	AHP-M
Dimension (L x W x H)	585 x 144 x 442 mm
Weight	47.3 Kg

Item Code	Item Name	MoQ
109.03.003	Hydraulic Punching - APS 120 - Single Action	1 Set
	<ul style="list-style-type: none"> Control cable, Hydraulic hose 5 m, Spanner punch, APS round punch Ø 18 mm, APS round die Ø 18 mm, Suspension bracket, Depth adjustment 	

Item Code	Item Name	MoQ
Optional Accessories		
109.03.008	Hydraulic Pump AHP-M for APS	1 Unit
209.24.001	Tension Nut with Boring Ø 7 - 24 mm	1 Pc
209.24.002	Tension Nut with Boring Ø 25 mm	1 Pc
209.18.014	APS Round Punch & Die 120, 110, 70 Package - Ø 18 mm	1 Set
209.18.001	APS Round Punch & Die 120, 110, 70 Package - Ø 7 mm	1 Set
209.18.002	APS Round Punch & Die 120, 110, 70 Package - Ø 8 mm	1 Set
209.18.003	APS Round Punch & Die 120, 110, 70 Package - Ø 9 mm	1 Set
209.18.004	APS Round Punch & Die 120, 110, 70 Package - Ø 10 mm	1 Set
209.18.005	APS Round Punch & Die 120, 110, 70 Package - Ø 11 mm	1 Set
209.18.006	APS Round Punch & Die 120, 110, 70 Package - Ø 12 mm	1 Set
209.18.007	APS Round Punch & Die 120, 110, 70 Package - Ø 13 mm	1 Set
209.18.008	APS Round Punch & Die 120, 110, 70 Package - Ø 14 mm	1 Set
209.18.009	APS Round Punch & Die 120, 110, 70 Package - Ø 14.5 mm	1 Set
209.18.010	APS Round Punch & Die 120, 110, 70 Package - Ø 15 mm	1 Set
209.18.011	APS Round Punch & Die 120, 110, 70 Package - Ø 16 mm	1 Set
209.18.012	APS Round Punch & Die 120, 110, 70 Package - Ø 17 mm	1 Set
209.18.013	APS Round Punch & Die 120, 110, 70 Package - Ø 17.5 mm	1 Set
209.18.015	APS Round Punch & Die 120, 110, 70 Package - Ø 19 mm	1 Set
209.18.016	APS Round Punch & Die 120, 110, 70 Package - Ø 20 mm	1 Set
209.18.017	APS Round Punch & Die 120, 110, 70 Package - Ø 21 mm	1 Set
209.18.018	APS Round Punch & Die 120, 110, 70 Package - Ø 22 mm	1 Set
209.18.019	APS Round Punch & Die 120, 110, 70 Package - Ø 23 mm	1 Set
209.18.020	APS Round Punch & Die 120, 110, 70 Package - Ø 23.5 mm	1 Set
209.18.021	APS Round Punch & Die 120, 110, 70 Package - Ø 24 mm	1 Set
209.18.022	APS Round Punch & Die 120, 110, 70 Package - Ø 25 mm	1 Set
209.23.001	APS Oval Punch & Die Package - 16 x 8 mm	1 Set
209.23.002	APS Oval Punch & Die Package - 18 x 9 mm	1 Set
209.23.003	APS Oval Punch & Die Package - 18 x 11 mm	1 Set
209.23.004	APS Oval Punch & Die Package - 20 x 10 mm	1 Set
209.23.005	APS Oval Punch & Die Package - 20 x 12 mm	1 Set
209.23.006	APS Oval Punch & Die Package - 20 x 14 mm	1 Set
209.23.007	APS Oval Punch & Die Package - 22 x 11 mm	1 Set
209.23.008	APS Oval Punch & Die Package - 22 x 14 mm	1 Set
209.23.009	APS Oval Punch & Die Package - 24 x 12 mm	1 Set
209.23.010	APS Oval Punch & Die Package - 25 x 9 mm	1 Set
209.23.011	APS Oval Punch & Die Package - 25 x 12 mm	1 Set
209.23.012	APS Oval Punch & Die Package - 25 x 13 mm	1 Set
209.23.013	APS Oval Punch & Die Package - 25 x 14 mm	1 Set
209.23.014	APS Oval Punch & Die Package - 25 x 18 mm	1 Set



WARRANTY
12 MONTHS SERVICE
6 MONTHS SPARE PARTS

Input **1** PHASE **50** Hz **60** Hz



Hydraulic Pump AHP-M for APS



AHP-M

Advantageous

- More power, faster speed
- Suitable for workshop use

Hydraulic Pump	AHP-M
Max. pressure	700 Bar
Max. flow rate	1.1 l/min
Oil type	HLP 32 Oil
Filling volume	3.2 l
Working volume	2.2 l
Power	1.3 KW
Current consumption	5.65 A
Motor speed	2.800 RPM
Motor voltage	230 V / 50 Hz
Dimension (L x W x H)	397 x 402 x 342 mm
Weight	29 kg



Item Code	Item Name	MoQ
109.03.008	Hydraulic Pump AHP-M for APS	1 Unit





APS Round Punch & Die 120, 110, 70 Package



Round Punch

Round Dies



Oval Punch

Oval Dies

Main Applications

- Steel Plate
- H-Beam

Round Punch & Dies Packages				
Item Code	Item Size	APS 70	APS 120	MoQ
209.18.001	Ø 7 mm	√	√	1 Set
209.18.002	Ø 8 mm	√	√	1 Set
209.18.003	Ø 9 mm	√	√	1 Set
209.18.004	Ø 10 mm	√	√	1 Set
209.18.005	Ø 11 mm	√	√	1 Set
209.18.006	Ø 12 mm	√	√	1 Set
209.18.007	Ø 13 mm	√	√	1 Set
209.18.008	Ø 14 mm	√	√	1 Set
209.18.009	Ø 14.5 mm	√	√	1 Set
209.18.010	Ø 15 mm	√	√	1 Set
209.18.011	Ø 16 mm	√	√	1 Set
209.18.012	Ø 17 mm	√	√	1 Set
209.18.013	Ø 17.5 mm	√	√	1 Set
209.18.014	Ø 18 mm	√	√	1 Set
209.18.015	Ø 19 mm	√	√	1 Set
209.18.016	Ø 20 mm	√	√	1 Set
209.18.017	Ø 21 mm	√	√	1 Set
209.18.018	Ø 22 mm	√	√	1 Set
209.18.019	Ø 23 mm		√	1 Set
209.18.020	Ø 23.5 mm		√	1 Set
209.18.021	Ø 24 mm		√	1 Set
209.18.022	Ø 25 mm		√	1 Set

Oval Punch & Dies Packages for APS				
Item Code	Item Size	APS 70	APS 120	MoQ
209.23.001	16 x 8 mm	√	√	1 Set
209.23.002	18 x 9 mm	√	√	1 Set
209.23.003	18 x 11 mm	√	√	1 Set
209.23.004	20 x 10 mm	√	√	1 Set
209.23.005	20 x 12 mm	√	√	1 Set
209.23.006	20 x 14 mm	√	√	1 Set
209.23.007	22 x 11 mm	√	√	1 Set
209.23.008	22 x 14 mm	√	√	1 Set
209.23.009	24 x 12 mm		√	1 Set
209.23.010	25 x 9 mm		√	1 Set
209.23.011	25 x 12 mm		√	1 Set
209.23.012	25 x 13 mm		√	1 Set
209.23.013	25 x 14 mm		√	1 Set
209.23.014	25 x 18 mm		√	1 Set

Tension Nuts		
Item Code	Item Name	MoQ
209.24.001	Tension Nut with Boring Ø 7 - 24 mm	1 Pc
209.24.002	Tension Nut with Boring Ø 25 mm	1 Pc





Grinding Disk



Main Applications

- Bar stock
- Sheet metal
- Structural steel
- Piping



Advantageous

- A 24 R - General purpose grinding disk for broad range of steel and ferrous metals
- AC 60 - general purpose for metal and masonry
- WA 60 - for stainless, tools steels
- A 24 SB & 36 P - Fast cut grinding disk give a soft, free cutting and grinding action and especially good for efficient cutting and grinding of hard materials

Item Name	Max. RPM
Grinding Disk - 100 x 6.0 x 15.88 mm - A 24 SB, Red - 4" x 6 mm	15.000
Grinding Disk - 125 x 6.0 x 22.23 mm - A 24 R, Red - 5" x 6 mm	11.000
Grinding Disk - 150 x 6.0 x 22.23 mm - A 36 P, Red - 6" x 6 mm	10.200
Grinding Disk - 180 x 6.0 x 22.23 mm - A 36 P, Red - 7" x 6 mm	8.500

Item Code	Item Name	MoQ per box	
316.01.005	Grinding Disk - 100 x 6.0 x 15.88 mm - A 24 SB, Red - 4" x 6 mm	25 pcs	250 pcs
316.01.004	Grinding Disk - 125 x 6.0 x 22.23 mm - A 24 R, Red - 5" x 6 mm	25 pcs	200 pcs
316.01.007	Grinding Disk - 150 x 6.0 x 22.23 mm - A 36 P, Red - 6" x 6 mm	25 pcs	100 pcs
316.01.006	Grinding Disk - 180 x 6.0 x 22.23 mm - A 36 P, Red - 7" x 6 mm	50 pcs	





Cutting Wheel



Main Applications

- Bar stock
- Sheet metal
- Structural steel
- Piping



General Selection

- A 24 R - general purpose cutting wheels for broad range of steel and ferrous metals

Advantageous

- Availability in wide range ferrous and non - ferrous metal cutting applications
- Designed for easy performance
- Very suitable for portable grinders, circular saws, chop saws, gas saws, stationary and swing flame cut off machines

Item Name	Max. RPM
Cutting Wheel - 105 x 1.2 x 15.88 mm - SA 46 T - 4" x 1.2 mm	15.000
Cutting Wheel - 105 x 2.5 x 15.88 mm - A 24 R - 4" x 2.5 mm	15.000
Cutting Wheel - 180 x 3.0 x 22.23 mm - A 24 R - 7" x 3 mm	8.500
Cutting Wheel - 355 x 3.0 x 25.40 mm - A 30 P - 14" x 3 mm	3.900
Cutting Wheel - 405 x 3.0 x 25.40 mm - A 30 P - 16" x 3 mm	3.400

Item Code	Item Name	MoQ per box
316.02.006	Cutting Wheel - 105 x 1.2 x 15.88 mm - SA 46 T - 4" x 1.2 mm	20 pcs 300 pcs 600 pcs
316.02.005	Cutting Wheel - 105 x 2.5 x 15.88 mm - A 24 R - 4" x 2.5 mm	50 pcs 500 pcs
316.02.002	Cutting Wheel - 180 x 3.0 x 22.23 mm - A 24 R - 7" x 3 mm	100 pcs
316.02.003	Cutting Wheel - 355 x 3.0 x 25.40 mm - A 30 P - 14" x 3 mm	25 pcs
316.02.004	Cutting Wheel - 405 x 3.0 x 25.40 mm - A 30 P - 16" x 3 mm	25 pcs





Flexible Disk



Main Applications

- Bar stock
- Sheet metal
- Structural steel
- Piping



General Selection

- AC 60 - general purpose for metal and masonry.
- WA 60 - for stainless, tools steels.

Advantageous

- Availability in wide range ferrous and non - ferrous metal cutting applications
- Very suitable for portable grinders, circular saws, chop saws, gas saws, stationary and swing flame cut off machines
- Designed for easy performance

Item Name	Max. RPM
Flexible Disk - 100 x 2.5 x 15.88 mm - S - AC 60 - 4" x 2.5 mm	13.700
Flexible Disk - 100 x 2.5 x 15.80 mm - SS - WA 60 - 4" x 2.5 mm	13.700

Item Code	Item Name	MoQ per box	
316.03.001	Flexible Disk - 100 x 2.5 x 15.88 mm - S - AC 60 - 4" x 2.5 mm	25 pcs	250 pcs
316.03.002	Flexible Disk - 100 x 2.5 x 15.80 mm - SS - WA 60 - 4" x 2.5 mm	25 pcs	250 pcs



ALFRA MAGNETIC SYSTEMS



ALFRA is the worldwide license holder for the new, patented magnetic system that allows you to drill, lift, position, transport... from a material thickness of just 2 mm !

Our Permanent Magnets are activated according to a patented principle, completely independent of the mains supply-providing 100 % safety and permanent stability !



ALFRA MAGNETIC SYSTEMS BENEFITS

DIFFERENTIATE FROM OTHER COMMON LIFTING MAGNET !



Hardened steel bottom plate with TiN-coating eliminating the need to grind the magnet's bottom plate: reduced maintenance



Slight premagnetisation for the easy positioning of the magnet



One-handed activation possible



Magnets can be customized thanks to additional connection threads inside the housing



New design allowing for the use of the magnet even between the flanges of a steel beam



The magnetic field concentrates directly on the material and reduces scattering losses to a minimum



180° pivotable and 360° rotatable load swivel



Magnets allow welding at a distance of just 15 mm from the magnet's external side



TMH 50 Hand Lifting Magnet

1. Only 1.6 kg dead weight
2. Big and stable handle



Main Applications

- Steel Plate
- Rectangular Steel Bar
- Hollow Steel

Advantageous

- Up to 50 Kg load bearing capacity on a steel sheet S235 with a thickness just 3 mm
- A must have for everyone who needs to move welding parts from one place to another (max. temperature : 60°)
- Protects hands and fingers from hot and sharp edge steel
- Wear resistant magnetic contact area made of hardened steel with TiN coating preventing damages and guaranteeing a long lifetime

Specifications

Max. load capacity (horizontal)	50 kg from 6 mm
Vertical lifting capacity (Vertical)	35 kg from 3 mm
Magnetic contact surface	80 x 80 mm
Storage temperature	-30°C to +60°C
Operating temperature	-30°C to +60°C
Dimensions (L x W x H)	80 x 124 x 100 mm
Weight	1.6 Kg

Material	Magnetic force (%)
Non-alloyed steel (0.1 - 0.3% C content)	100
Non-alloyed steel (0.3 - 0.5% C content)	90 - 95
Cast steel	90
Grey cast iron	45
Nickel	11
Stainless steel, aluminum, brass	0



Material Thickness (mm)	Load Capacity in kg					
	Clean, flat, ground surface Air gap <0.1 mm		Rusty, slightly, scratched surface Air gap = 0.25 mm		Irregular, rusty or rough surface Air gap = 0.5 mm	
	0°	90°	0°	90°	0°	90°
2	30	10	25	8	22	7
3	50	25	40	12	35	10
4	50	30	50	20	48	15
>5	50	35	50	25	50	15

Item Code	Item Name	MoQ
109.12.004	TMH 50 - Hand Lifting Magnet	1 Pc

TML 100

Lifting Permanent Magnet with Swivel



1. Only 1.7 kg dead weight
2. Max. load-bearing capacity : 100 kg (with 3:1 safety factor)
3. 360° rotatable and 180° pivotable load swivel
4. One-handed operation ('inside' steel beam possible)



Main Applications

- Building construction
- Bridge construction
- Crane
- H-Beam steel

Advantageous

- Max. load bearing capacity of 50 kg with 3 mm material thickness and 100 kg load bearing capacity from just 6 mm (plus triple safety factor)
- Outstanding performance on thin walled materials (operable from just 1 mm)

- 360° rotatable and 180° pivotable load swivel even under full load
- Wear resistant magnetic contact area made of hardened steel with TiN coating preventing damages and guaranteeing a long lifetime

Specifications

Lifting force	300 kg
Max. load capacity (horizontal)	100 kg (*Safety Factor 3)
Lifting capacity at 6° inclination	90 kg (*Safety Factor 3)
Vertical lifting capacity (Vertical)	30 kg at 90° (*Safety Factor 3)
Magnetic contact surface	80 x 82.5 mm
Storage temperature	-30°C to +60°C
Operating temperature	-30°C to +60°C
Dimensions (L x W x H)	146 x 124 x 147 mm
Weight	1.7 Kg

Material	Magnetic force (%)
Non-alloyed steel (0.1 - 0.3% C content)	100
Non-alloyed steel (0.3 - 0.5% C content)	90 - 95
Cast steel	90
Grey cast iron	45
Nickel	11
Stainless steel, aluminum, brass	0



Material Thickness (mm)	Load Capacity in kg					
	Clean, flat, ground surface Air gap <0.1 mm		Rusty, slightly, scratched surface Air gap = 0.25 mm		Irregular, rusty or rough surface Air gap = 0.5 mm	
	0°	6°	0°	6°	0°	6°
2	30	27	25	22.5	22	19
3	50	45	40	36	35	31
4	80	72	60	54	45	40
5	95	85	70	63	50	45
6	100	90	70	63	50	45
>6	100	90	70	63	50	45

Item Code	Item Name	MoQ
109.12.003	TML 100 - Lifting Permanent Lifting Magnet with Swivel	1 Pc



TML 250

Lifting Permanent Magnet with Swivel

1. Only 3.5 kg dead weight
2. Max. load-bearing capacity : 250 kg (with 3:1 safety factor)
3. 360° rotatable and 180° pivotable load swivel
4. One-handed operation ('inside' steel beam possible)



Main Applications

- Building construction
- Bridge construction
- Crane
- H-Beam steel

Advantageous

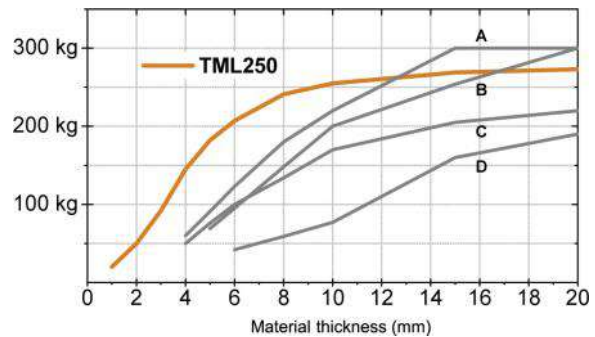
- Up to 250 kg load bearing capacity from a material thickness of 10 mm and 90 kg from just 3mm material thickness on steel S235 plus 3:1 safety factor (i.e. the force that leads to the breakaway of the metal sheet must represent triple the maximum holding force)
- Outstanding performance on thin walled materials
- Up to 70% less dead weight with at least the same performance in contrast to conventional magnets

- Easy activation with minimal effort due to the ergonomic activation lever
- Innovative operational concept allowing for an enlarged operating range
- 360° rotatable and 180° pivotable load swivel
- Wear resistant magnetic contact area made of hardened steel with TiN coating preventing damages and guaranteeing a long lifetime

Specifications

Lifting force	750 kg
Max. load capacity (Horizontal)	250 kg (*Safety Factor 3)
Magnetic contact surface	135 x 65 mm
Storage temperature	-30°C to +60°C
Operating temperature	-10°C to +60°C
Dimensions (L x W x H)	240 x 91 x 191 mm
Weight	3.5 Kg

Material	Magnetic force (%)
Non-alloyed steel (0.1 - 0.3% C content)	100
Non-alloyed steel (0.3 - 0.5% C content)	90 - 95
Cast steel	90
Grey cast iron	45
Nickel	11
Stainless steel, aluminum, brass	0



Competitors :

- A :** 300 kg Permanent Lifting Magnet ; 9 kg Device Weight
- B :** 300 kg Permanent Lifting Magnet ; 11 kg Device Weight
- C :** 250 kg Permanent Lifting Magnet ; 10 kg Device Weight
- D :** 250 kg Permanent Lifting Magnet ; 10 kg Device Weight

Material Thickness (mm)	Load Capacity in kg					
	Clean, flat, ground surface Air gap <0.1 mm		Rusty, slightly, scratched surface Air gap = 0.25 mm		Irregular, rusty or rough surface Air gap = 0.5 mm	
	0°	6°	0°	6°	0°	6°
2	50	45	40	35	32	30
3	90	80	80	70	65	60
4	145	130	110	100	90	80
5	180	165	135	125	100	90
6	205	185	155	140	105	95
8	240	220	165	150	110	100
10	250	230	180	165	110	100
15	250	230	180	165	115	105
>20	250	230	180	165	115	105

Item Code	Item Name	MoQ
109.12.001	TML 250 - Lifting Permanent Lifting Magnet with Swivel	1 Pc



TML 500

Lifting Permanent Magnet with Swivel

1. Only 7.3 kg dead weight
2. Max. load-bearing capacity : 500 kg (with 3:1 safety factor)
3. 360° rotatable and 180° pivotable load swivel
4. One-handed operation ('inside' steel beam possible)



Main Applications

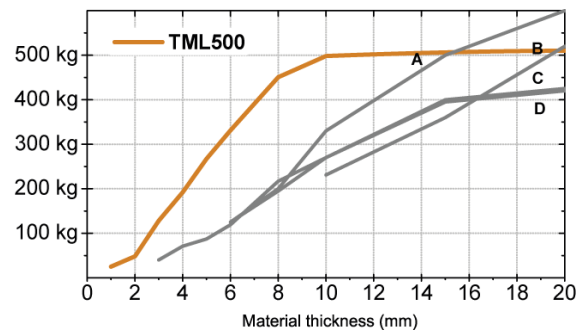
- Building construction
- Bridge construction
- Crane
- H-Beam steel

Advantageous

- Up to 490 kg load bearing capacity from a material thickness of 10 mm and 300 kg from just 5mm material thickness on steel S235 plus 3:1 safety factor (i.e. the force which leads to the breakaway of the metal sheet must represent triple the maximum holding force)
- Outstanding performance on thin walled materials (useable from as low as 2 mm)
- Up to 70 % less dead weight with at least the same performance in contrast to conventional magnets
- Easy activation with minimal effort due to the ergonomic activation lever
- Innovative operational concept allowing for an enlarged operating range
- 360° rotatable and 180° pivotable load swivel
- Wear resistant magnetic contact area made of hardened steel with TiN coating preventing damages and guaranteeing a long lifetime

Specifications

Lifting force	1500 kg
Max. load capacity (horizontal)	500 kg (*Safety Factor 3)
Lifting capacity at 6° inclination	440 kg (*Safety Factor 3)
Vertical lifting capacity (Vertical)	150 kg at 90° (*Safety Factor 3)
Magnetic contact surface	185 x 88 mm
Storage temperature	-30°C to +60°C
Operating temperature	-10°C to +60°C
Dimensions (L x W x H)	265 x 118 x 216 mm
Weight	7.3 Kg



Notes :

- A : 600 kg Permanent Lifting Magnet ; 22 kg Device Weight
- B : 600 kg Permanent Lifting Magnet ; 24 kg Device Weight
- C : 500 kg Permanent Lifting Magnet ; 20 kg Device Weight
- D : 500 kg Electromagnet ; 8 kg Device Weight

Material	Magnetic force (%)
Non-alloyed steel (0.1 - 0.3% C content)	100
Non-alloyed steel (0.3 - 0.5% C content)	90 - 95
Cast steel	90
Grey cast iron	45
Nickel	11
Stainless steel, aluminum, brass	0

Material Thickness (mm)	Load Capacity in kg					
	Clean, flat, ground surface Air gap <0.1 mm		Rusty, slightly, scratched surface Air gap = 0.25 mm		Irregular, rusty or rough surface Air gap = 0.5 mm	
	0°	6°	0°	6°	0°	6°
2	50	44	45	39	40	35
3	130	110	115	100	85	72
4	195	170	160	140	135	115
5	300	260	340	205	190	165
6	360	315	270	235	220	190
8	455	395	310	270	240	205
10	490	430	360	310	260	225
15	500	440	365	315	250	215
>20	500	440	370	320	250	220

Item Code	Item Name	MoQ
109.12.002	TML 500 - Lifting Permanent Lifting Magnet with Swivel	1 Pc

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