

BTR/BOR Starter Kit

Item no. 622003

Scope of delivery:

- 1 × 620002 for **HSS | UHSS**
- 3 × 620205 for **Steel | HSS**
- 1 × centre punch
- 1 × BTR-Fluid 125 ml



BTR/BOR Milling Cutters Set

Item no. 620116

3 cutting edges

Scope of delivery:

- 2 × 620000 for **HSS | UHSS**
- 2 × 620002 for **HSS | UHSS**
- 2 × 620006 for **HSS | UHSS**
- 1 × centre punch



Spot Weld Cutters

Item no.	607001	607011		607013	607023		607021	
Item	VAPO	TIN-GOLD		VAPO	TiCN		VAPO	
Suitable for	Steel	Steel		Steel	Steel		Steel	
RPM (min ⁻¹)	795-995	795-995		795-995	795-995		708-885	
Head-Ø	6 mm	8 mm		8 mm	8 mm		9 mm	
Shank-Ø	8 mm	8 mm		8 mm	8 mm		8 mm	
Total length	44 mm	44 mm		44 mm	44 mm		44 mm	
Cutting edges	2	2		2	2		2	
QTY	1 pc.	1 pc.		1 pc.	1 pc.		1 pc.	



BTR / BOR Milling Cutters

Item no.	620000	620001	620002	620005	620006
Suitable for	HSS UHSS	HSS UHSS	HSS UHSS	HSS UHSS	HSS UHSS
RPM (min ⁻¹)	795-995	795-995	795-995	705-885	640-795
Head-Ø	6 mm	8 mm	8 mm	9 mm	10 mm
Shank-Ø	8 mm	8 mm	8 mm	8 mm	8 mm
Total length	44 mm	44 mm	44 mm	44 mm	44 mm
Cutting edges	3	3	3	3	3
QTY	1 pc.	1 pc.	3 pc.	1 pc.	1 pc.



Variantic Milling Cutters

Item no.	620200	620205	620206
Suitable for	Steel HSS	Steel HSS	Steel HSS
RPM (min ⁻¹)	795-995	795-995	795-1115
Head-Ø	8 mm	8 mm	10 mm
Shank-Ø	8 mm	8 mm	8 mm
Total length	44 mm	44 mm	44 mm
Cutting edges	3	3	3
QTY	1 pc.	5 pcs.	1 pc.




BESTSELLER

Solid Carbide Drill Bits

3 cutting edges

4 cutting edges

The ultra high strength solid carbide drills Z4 remove spot welds even from the hardest materials.

USIBOR • BORON • BTR • ZSTE • Trip steel

Item no.	627001	627005	627010	627020	627021	627022
Suitable for	HSS UHSS	HSS UHSS	HSS UHSS	HSS UHSS	HSS UHSS	HSS UHSS
RPM (min ⁻¹)	795-995	795-995	795-995	795-995	708-885	635-795
Head-Ø	6.7 mm	5 mm	6.7 mm	8 mm	9 mm	10 mm
Shank-Ø	8 mm	8 mm	8 mm	8 mm	8 mm	8 mm
Total length	44 mm	49 mm	49 mm	44 mm	44 mm	44 mm
Cutting edges	3	3	3	4	4	4
QTY	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.



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Centre Punches

Item no.	628006	628007
Item	special centre punch 2 functions	centre punch 5 × 120 mm
QTY /	1 pc. /	1 pc. /

function 1: marks the centre of the rivet from the top side
function 2: marks the centre of the rivet from the bottom side
the center punch centers itself



Centre Punches

Item no.	628005	932521
Item	UHSS-centre punch	automatic centre punch
QTY /	1 pc. /	1 pc. /



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Drilling Machine GTC-041B

Item no. 611122

Pneumatic drill with clockwise / counter-clockwise rotation and quick-action chuck.



Speed	Power	Vibration	Operating pressure	Weight
450 rpm	340 W	2.5 m/s ²	6 bar	1.75 kg

Drill Bits for Spot Weld Removal

Item no.	617011	617014	617021
Item	VAPO	TIN-GOLD	VAPO
Suitable for	Steel	Steel	Steel
RPM (min ⁻¹)	1195-1395	1195-1395	955-1115
Head-Ø	8 mm	8 mm	10 mm
Shank-Ø	8 mm	8 mm	10 mm
Total length	80 mm	80 mm	85 mm
Cutting edges	2	2	2
QTY	1 pc.	1 pc.	1 pc.



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BTR / BOR Milling Cutters

Item no.	620010	620011	620012	620014	620015	620017	620018	620022	620024	620040	620026	620030
Suitable for	HSS UHSS	HSS UHSS	HSS UHSS	HSS UHSS	HSS UHSS	HSS UHSS	HSS UHSS	HSS UHSS	HSS UHSS	HSS UHSS	HSS UHSS	HSS UHSS
RPM (min ⁻¹)	≥ 2120 ≤ 2650	≥ 2120 ≤ 2650	≥ 1820 ≤ 2275	≥ 1590 ≤ 1990	≥ 1500 ≤ 1830	≥ 1340 ≤ 1680	≥ 1270 ≤ 1590	≥ 1060 ≤ 1320	≥ 980 ≤ 1220	≥ 945 ≤ 1180	≥ 910 ≤ 1130	≥ 800 ≤ 990
Head-Ø	3 mm	3.2 mm	3.5 mm	4 mm	4.2 mm	4.8 mm	5 mm	6 mm	6.5 mm	6.7 mm	7 mm	8 mm
Shank-Ø	8 mm	8 mm	8 mm	8 mm	8 mm	8 mm	8 mm	8 mm	8 mm	8 mm	8 mm	8 mm
Total length	70 mm	70 mm	70 mm	70 mm	70 mm	70 mm	70 mm	70 mm	70 mm	70 mm	70 mm	70 mm
Cutting edges	3	3	3	3	3	3	3	3	3	3	3	3
QTY	1 pc.	1 pc.	3 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.



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Special solid carbide drill for Mercedes riveting process preparations



BTR/BOR milling cutter for use with the SPOTLE pneum. spot weld remover

3 cutting edges

Item no. 620130

Head-Ø	8.0 mm
Shank-Ø	8.0 mm
Total length	39 mm
QTY	1 pc.



Countersinks

Item no.	617240	617241
Item	countersink 120°	countersink 100°
	<i>with depth stop and pilot</i>	<i>with depth stop and pilot</i>
QTY /	1 pc. /	1 pc. /



INITIAL USE: **MERCEDES-BENZ**



INITIAL USE: **PORSCHE**

Spare Parts for Countersinks

Item no.	617243	617244	617245	617246	617247
Item	spare countersink 100°	spare countersink 120°	spare pilot 4 mm	spare pilot 6.3 mm	spare pilot 6.6 mm
RPM (min ⁻¹)			<i>for countersink 120°</i>	<i>for countersink 120°</i>	<i>for countersink 100°</i>
QTY /	1 pc. /	1 pc. /	1 pc. /	1 pc. /	1 pc. /



Special Drill Bits for Rivets

Item no.	617220	617221	617222	617226	617227	617228
Item	TIN	TIN	TIN	TIN	TIN	TIN
Suitable for	Alu Steel	Alu Steel	Alu Steel	Alu Steel	Alu Steel	Alu Steel
RPM (min ⁻¹)	2390-3980	2390-3980	1910-3180	1600-2650	1470-2450	1350-2250
Head-Ø	4.1 mm	4.2 mm	5.1 mm	6.1 mm	6.5 mm	6.7 mm
Shank-Ø	4.1 mm	4.2 mm	5.1 mm	6.1 mm	6.5 mm	6.7 mm
Total length	70 mm	70 mm	85 mm	100 mm	100 mm	100 mm
Cutting edges	2	2	2	2	2	2
QTY	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.



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Drill Bit Sets

	Step drill bit set	Drill bit set
	<i>3-piece set</i>	<i>19-piece set</i>
	no. 1: 1-14 mm no. 2: 8-20 mm no. 3: 16-30.5 mm	Ø 1-10 mm 0.5 mm steps
Item no.	617300	637004
QTY /	1 pc. /	1 pc. /

Can be used on non-ferrous metals, stainless steel sheets, thermoplastic and thermosetting plastics as well as on all common steel sheets up to a thickness of max. 4 mm. With step drill bits, sheets can be centered, tapped and drilled out in one operation.

