

# GRÜN

## Roofing Products | Building Technique



## Spare parts price list 2024

ONLY FOR AUTHORIZED DEALERS.



[www.gruen-gmbh.de](http://www.gruen-gmbh.de)

Valid from 01.01.2024 to 31.12.2024 or to an earlier released and new price list!



# Special machinery factory for roof, road and construction

| Founded 1919

For decades, **GRÜN GMBH** has been involved in developing and producing specialist machines for the building sector.

The goal was and is to provide processors with technically advanced specialist equipment for the efficient use of labour. Particular focus is placed on practical collaboration with installation companies, manufacturers of processing materials and work safety groups, in order to enable operators to carry out high-quality work.





## Spare parts for bitumen cooker ..... 4 - 13

Spare parts for bitumen cooker Rekord 19.....	7
Spare parts for bitumen cooker Rekord 29.....	7
Spare parts for bitumen cooker Rekord 49.....	8
Spare parts for bitumen cooker Rekord 119.....	9
Spare parts for bitumen cooker Rekord 229.....	10
Spare parts for bitumen cooker Kipp 50.....	11
Spare parts for bitumen cooker Primat 105.....	11
Spare parts for bitumen cooker Primat 150.....	12
Spare parts for bitumen cooker Primat 250.....	13
Spare parts for other bitumen cookers.....	13

## Spare parts for water vacuums ..... 14 - 18

## Spare parts for roof renovation equipment..... 19 - 31

## Spare parts for hand torch + titanium torch ..... 32 - 36

## Spare parts for soldering torches.....37

## Spare parts for hot air welding equipment ..... 38 - 41

## Spare parts for Stirrer cooker HR 119, HR/MR 229, HR 90i, HR/MR 180i..... 42 - 46

## Spare parts / various accessories .....47

## Terms and Conditions of Sale and Delivery..... 48 - 51



The companies in our Group work in the following areas:

- Road construction and road maintenance technology
- Road marking technology
- High-pressure water surface treatment
- Roofing equipment/construction technology
- Fall protection



## Spare parts for bitumen cooker



Description	Item Number	Price/p. in €	Price Gr.
Burner valve without nozzle	0019 1100	76,70	I
GREEN-Propane automatic control	0050 0000	2.270,00	I
Magnetic insert for safety pilot	0050 0802	49,90	I
Union nut M14 SW17VERZ	0050 0803	4,40	I
Clamping ring for control valve	0050 0804	2,85	I
Grub screw 4 x 10 DIN438	0050 0805	0,99	I
Clamp for remote therm.	0050 0806	2,55	I
Plastic knurled nut for remote therm.	0050 0807	1,55	I
Double cone ring Ø 8 for control valve	0050 0808	2,85	I
Union nut M12 x 1 for control valve	0050 0809	4,80	I
Clamp connection M12 for control valve	0050 0810	4,40	I
Pilot burner without nozzle and without nozzle holder	0050 1100	69,30	I
Ignition Tube Flame Cup	0050 1101	8,75	I
CU-arc 6 D with nozzle connector and nozzle holder	0050 1200	27,90	I
MS Nozzle holder F. Z.-BURNER	0050 1202	3,55	I
Burner nozzle 0.4 with sintered bronze	0050 1203	4,65	I
Sintered bronze plate	0050 1204	2,10	I
MS connecting rotary part	0050 1206	5,25	I
CU-bend 6 mm with nozzle holder	0050 1207	25,60	I

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## Spare parts for bitumen cooker

Description	Item Number	Price/p. in €	Price Gr.
Ignition fuse complete	0050 1300	86,00	I
Ignition fuse "T10"	0050 1301	71,30	I
Protective sleeve-Ü-nut SW17	0050 1302	3,80	I
MS compression fitting M10	0050 1303	2,85	I
Double cone ring Ø 6	0050 1304	2,75	I
Thermocouple CT 101 031	0050 1400	27,90	I
Thermocouple CT 101031	0050 1401	24,50	I
Nut "MU4D6X-M8"	0050 1402	2,30	I
Hose connection complete with pipe	0050 1500	32,10	I
MS swivel part hose connection	0050 1501	11,40	I
Hose connector with CU pipe	0050 1503	23,40	I
Lock nut R 3/8" LEFT	0050 1504	2,85	I
Sintered bronze H. Filter complete	0050 1507	7,05	I
Hose connection complete with pipe	0050 1600	32,10	I
Burner hose with tube and union nut	0050 2200	14,90	I
MS Turning part burner connection	0050 2201	4,80	I
Burner hose with tube and union nut	0050 2204	19,10	I
MS controller connection for ST.A.	0050 2207	4,80	I
Sensor tube complete for ST.A.	0050 2300	47,80	I
Sensor tube without disc/mu.	0050 2301	26,20	I
MS thread connecting tube	0050 2302	19,10	I
MS hex nut M18 x 1.5 x 5	0050 2303	3,50	I
MS washer D19/43 x 3	0050 2304	4,80	I
Galvanized washer D19/34 x 3	0050 2305	2,30	I
Pressure spring galvanized D18.5 x 2.5	0050 2306	2,35	I
Split pin galvanised 1.6 x 22 DIN 94	0050 2307	1,15	I

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Description	Item Number	Price/p. in €	Price Gr.
Galvanized split pin 1.6 x 10	0050 2308	1,15	I
Parallel grooved pin for No. 330 and 50	0050 2310	1,55	I
Galvanised locking plate for protective tube	0050 2311	5,25	I
Galvanized washer 13/26 x 1.25 replaces item number 00502313	9833 0012	0,34	I
Washer 12.1/25 x 2.7	0050 2314	2,30	I
Locking flap for probe 16 mm lg., MS	0050 2315	6,30	I
Anti-twist plate 2 x 25 x 100 hole Ø 13	0050 2322	5,25	I
Lock nut M12 x 1.5	0050 2323	3,50	I
Burner fixture specification M6 x 15	0050 2402	2,30	I
Spring washer A6 DIN 127	0050 2403	1,55	I
Mounting clamp for pilot burner	0050 2404	4,40	I
Hexagon head screw M5 x 12 DIN 933	0050 2405	1,55	I
Aluminium housing base	0050 2406	101,00	I
Aluminium housing cover	0050 2501	80,50	I
Aluminium top housing "ST-A/BK"	0050 2502	87,40	I
Remote thermometer IFC01060B	0050 2503	118,00	I
Control valve 1050 MM complete	0050 2600	404,00	I
Control valve with union nut and KL. R.	0050 2601	395,00	I
Adjustment knob for ST.-A.	0050 2602	9,95	I
Klingerite gasket 4 mm	0070 0100	2,35	I
Gasket 48 x 58 x 2	0070 1801	2,30	I
Union nut R3/8" LKS.	1525 0003	3,45	I

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## Spare parts for bitumen cooker REKORD 19



Description	Item Number	Price/p. in €	Price Gr.
Propane burner for Rekord 19	0201 1000	271,00	I
Valve with hand-read and nozzle	0201 1100	80,10	I
Handwheel for propane burner	0201 1103	4,10	I
Lock nut for cooker burner.	0201 1104	3,50	I
Nozzle 0.6 mm for Rekord 19	0201 1105	3,55	I
Nozzle 0.5 mm for Rekord 19	0201 1106	3,55	I
Weld-in sleeves M15 x 1	0201 1203	3,50	I
Burner head complete with welding ring	0201 1300	44,60	I
Burner head insert D38	0201 1301	22,10	I
Torch head Weld-on ring with screw	0201 1302	23,80	I
Cover with handle for Rekord 19	0201 2000	51,20	I
Boiler for Rekord 19	0201 3000	211,00	I
Bottom part for Rekord 19	0201 5000	279,00	I

## Spare parts for bitumen cooker REKORD 29



Description	Item Number	Price/p. in €	Price Gr.
Propane burner	0202 1000	279,00	I
Valve with handwheel and nozzle	0202 1100	80,10	I
Handwheel for propane burner	0202 1103	4,10	I
Nozzle 0.7 mm for 29/50/FBT	0202 1105	3,55	I
Cover with handle	0202 2000	57,50	I
Boiler for Rekord 29	0202 3000	264,00	I
Lower part for Rekord 29	0202 5000	308,00	I

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## Spare parts for bitumen cooker REKORD 49

Description	Item Number	Price/p. in €	Price Gr.
Propane burner	0203 1000	284,00	I
Valve complete	0203 1100	80,10	I
Handwheel for propane burner	0203 1103	4,10	I
Nozzle 0.9 mm for Rekord 49	0203 1105	3,55	I
Cover complete for Rekord 49	0203 2000	175,00	I
Fixed cover part complete for Rekord 49	0203 2100	106,00	I
Thermometer protection box	0203 2106	21,10	I
Welding socket for thermometer	0203 2107	5,40	I
Long pins 8 x 70	0203 2109	1,55	I
Clamping disk for long pins	0203 2111	0,25	I
Loose cover part with handle	0203 2200	68,70	I
Boiler for Rekord 49	0203 3000	575,00	I
Discharge gate NW 44 Round BK	0203 3100	205,00	I
Handle with swiv. Bolt	0203 3400	15,60	I
Strainer complete for boiler	0203 3700	26,80	I
Lower part for Rekord 49	0203 5000	593,00	I

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## Spare parts for bitumen cooker REKORD 119



Description	Item Number	Price/p. in €	Price Gr.
Burner 119 with automatic control	0204 0100	2.790,00	I
Burner 119 without automatic control	0204 1000	500,00	I
Valve complete	0204 1100	80,10	I
Handwheel for propane burner	0204 1103	4,10	I
Nozzle 1.2 mm for 119/150	0204 1105	3,55	I
Burner head insert F 119, 229 and 500	0204 1402	71,30	I
Torch head welding ring 119/229	0204 1404	38,20	I
Cover 2-parts for Rekord 119	0204 2000	202,00	I
Fixed cover part	0204 2100	125,00	I
Loose cover part BH 119	0204 2200	74,20	I
Boiler for Rekord 119	0204 3000	762,00	I
Lower part for Rekord 119	0204 5000	971,00	I
Capsule knee exhaust pipe Rekord 119/229	0204 5125	53,70	I
Axle ø 20 x 770 for Rekord 119	0204 5401	54,30	I
Solid rubber wheel with deep groove ball bearing	0204 5404	37,40	I
Washer 21 DIN 125	0204 5405	4,80	I
Handlebar complete for Rekord 119	0204 5600	137,00	I

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## Spare parts for bitumen cooker REKORD 229



Description	Item Number	Price/p. in €	Price Gr.
Burner 229 with automatic control	0205 0100	2.800,00	I
Burner 229 without automatic control	0205 1000	527,00	I
Valve complete for Rekord 229	0205 1100	80,10	I
Handwheel for propane burner	0205 1103	4,10	I
Nozzle 1.5 mm180/229/250	0205 1105	3,55	I
Cover 2-parts for Rekord 229	0205 2000	226,00	I
Fixed cover part BK229	0205 2100	134,00	I
Loose cover part for Rekord 229	0205 2200	93,00	I
Boiler for Rekord 229	0205 3000	1.260,00	I
Lower part for Rekord 229	0205 5000	1.510,00	I
Axle for Rekord 229 20 x 935	0205 5401	59,10	I
Burner for 119 EXPORT	0209 1000	525,00	I
Cover plate complete	0209 1200	28,20	I
Cover for Rekord 115	0209 2000	101,00	I
Burner for 229 EXPORT	0210 1000	552,00	I
Boiler for Rekord 225	0210 3000	1.260,00	I

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## Spare parts for bitumen cooker KIPP 50

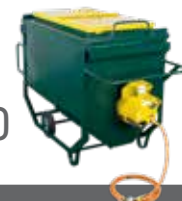
Description	Item Number	Price/p. in €	Price Gr.
Thermometer for Kipp 50	0211 0906	113,00	I
Propane burner for Kipp 50	0211 1000	281,00	I
Burner valve for Kipp 50	0211 1100	80,10	I
Handwheel for Kipp 50	0211 1103	4,10	I
Cover for Kipp 50	0211 2000	69,00	I
Rim socket R 1/2"	0211 2202	5,40	I
Insert for Kipp 50	0211 3000	543,00	I
Bottom part for Kipp 50	0211 5000	454,00	I
Frame for Kipp 50	0211 6000	298,00	I
Locking bolt complete for Kipp 50	0211 6105	21,10	I

## Spare parts for bitumen cooker PRIMAT 105 (aus dem Programm genommen):

Description	Item Number	Price/p. in €	Price Gr.
Burner 105 with automatic control	0212 0100	2.710,00	I
Burner 105 without automatic control	0212 1000	446,00	I
Burner valve for Primat 105	0212 1100	80,10	I
Handwheel for Primat 105	0212 1103	4,10	I
Nozzle 1.0 mm for 105/15GAL	0212 1105	3,55	I
Cover for Primat 105	0212 2000	225,00	I
Insert tray for Primat 105	0212 3000	776,00	I
Lower part for Primat 105	0212 5000	1.180,00	I

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## Spare parts for bitumen cooker PRIMAT 150

Description	Item Number	Price/p. in €	Price Gr.
Burner 150 with automatic control	0213 0100	2.750,00	I
Burner 150 without automatic control	0213 1000	470,00	I
Valve complete for Primat 150	0213 1100	80,10	I
Handwheel for propane burner	0213 1103	4,10	I
Cover 2-piece for Primat 150	0213 2000	228,00	I
Cover part HS with handle	0213 2100	113,00	I
Cover part BS with handle	0213 2200	113,00	I
Insert tray for Primat 150	0213 3000	848,00	I
Discharge gate NW 44 Tub boiler	0213 3100	205,00	I
Steel protection tube complete	0213 3700	60,60	I
Bottom part for Primat 150	0213 5000	1.260,00	I
Curved handlebar	0213 5108	22,40	I
Support struts for driving rod	0213 5110	10,60	I
Axle for Primat 150 + 250 + 105	0213 5201	54,30	I
Support foot curved primate	0213 5203	14,90	I
Axle holder left/right	0213 5300	19,90	I
Axle holder right	0213 5400	19,90	I

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## Spare parts for bitumen cooker PRIMAT 250

Description	Item Number	Price/p. in €	Price Gr.
Burner 250 with automatic control	0214 0100	2.890,00	I
Burner 250 without automatic control	0214 1000	645,00	I
Valve complete for Primat 250	0214 1100	80,10	I
Handwheel for propane burner	0214 1103	4,10	I
Cover 2-piece for Primat 250	0214 2000	248,00	I
Cover part HS with handle	0214 2100	125,00	I
Cover part BS with handle	0214 2200	125,00	I
Insert tray for Primat 250	0214 3000	1.090,00	I
Bottom part for Primat 250	0214 5000	1.910,00	I

## Spare parts for other bitumen cookers

Description	Item Number	Price/p. in €	Price Gr.
Use for stat. 50	0215 3000	743,00	I
Discharge gate NW 44 for stat. 50	0215 3100	205,00	I
Lower part for stat. 50	0215 5000	619,00	I
Burner for 105 EXPORT	0222 1000	469,00	I
Cover plate complete for 105, 150 and 250 EXPORT burners	0222 1200	28,20	I
Burner for 150 EXPORT	0223 1000	481,00	I
Burner for 250 EXPORT	0225 1000	663,00	I
Burner for 229 EXPORT	0210 10AU	802,00	I
Burner for 119 EXPORT	0209 1000	525,00	I
Cover plate complete 119 / 229 Rekord burner EXPORT	0209 1200	28,20	I
Cover for Rekord 115	0209 2000	101,00	I
Burner for 229 EXPORT	0210 1000	552,00	I
Boiler for Rekord 225	0210 3000	1.260,00	I

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## Spare parts for water vacuums



Description	Item Number	Price/p. in €	Price Gr.
Suction pump aluminium 220 V - 620 W	5054 0100	973,00	I
Suction nozzle complete for universal vacuum	5054 0200	251,00	I
Set of rubber lips = 2 pieces	5054 0201	47,00	I
PVC end sleeve for vacuum	5054 0301	28,80	I
PVC pipe end for vacuum	5054 0302	7,00	I
PVC insert for vacuum	5054 0303	23,10	I
PVC union nut for universal vacuum	5054 0304	28,80	I
Pressure hose approx. 5 m long	5054 0400	138,00	I
Hose nozzle GEKA for universal vacuum	5054 0401	40,30	I
Steel hand pipe Ø 40 mm	5054 0500	236,00	I
Flexible suction hose 5 m long	5054 0600	698,00	I
Pressure hose approx. 8 m long	5054 0700	196,00	I
Motor with tank cover complete	5054 0800	2.320,00	I
Chassis complete for universal vacuum	5054 1000	219,00	I
Motor for universal vacuum	5054 1001	546,00	I
Mains switch for universal vacuum	5054 1002	83,40	I
Swivel castor for universal vacuum	5054 1003	42,10	I
Rubber seal for suction pump for universal vacuum	5054 1004	100,00	I
Cover with carrying handle	5054 1005	72,90	I
Strain relief for cables	5054 1006	32,60	I
Mains cable with plug	5054 1007	132,00	I
Shockproof plug for cable	5054 1008	28,80	I

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## Spare parts for water vacuums

Description	Item Number	Price/p. in €	Price Gr.
Upper housing for vacuum	5054 1009	132,00	I
Intermediate plate complete	5054 1010	75,60	I
Rubber seal for boiler	5054 1011	43,80	I
Motor gasket for vacuum	5054 1012	29,70	I
Strainer for universal vacuum	5054 1013	36,50	I
SEALING COVER for universal vacuum	5054 1014	30,40	I
FLOAT for universal vacuum	5054 1015	35,50	I
Lower housing with cover	5054 1016	315,00	I
Suction basket and foot for universal vacuum	5054 1017	77,00	I
Dust filter - Extra robust	5054 1018	152,00	I
Nylon additional filter	5054 1019	106,00	I
Set of fastening screws	5054 1020	13,60	I
Driving boiler complete	5054 1021	547,00	I
PVC angle 40 for vacuum	5054 1022	57,10	I
PVC nipple 40 for vacuum	5054 1023	44,00	I
PVC screw-in part for universal vacuum	5054 1024	44,00	I
Toggle switch for universal vacuum	5054 1025	32,60	I
Instrument holder for universal vacuum	5054 1026	71,40	I
Socket for universal vacuum	5054 1027	47,90	I
Support bar for pump	5054 1028	74,00	I
Flap valve for universal vacuum	5054 1029	399,00	I
Bayonet lock pump	5054 1030	36,10	I
Suction head complete for vacuum	5054 1032	1.340,00	I
Tank 47 litres	5056 0101	245,00	I
Engine mount	5056 0102	45,40	I
Round cord seal ø10 approx. 370lg	5056 0103	1,15	I

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## Spare parts for water vacuums

Description	Item Number	Price/p. in €	Price Gr.
Cladding	5056 0104	9,15	I
Engine gasket	5056 0106	11,30	I
Engine cover lower part	5056 0107	26,80	I
see new no. 5056 0230	5056 0108	140,00	I
Motor with tank cover	5056 0109	411,00	I
Foam filter for vacuum	5056 0110	7,55	I
EJOT PT screw KA 40 x 16	5056 0111	0,54	I
Push-in sleeve	5056 0112	0,54	I
Interference suppression capacitor	5056 0113	5,95	I
Rocker switch	5056 0114	11,30	I
Bracket for strain relief	5056 0118	0,54	I
Round cord seal ø 5 approx. 110lg	5056 0122	3,25	I
Rotating lock	5056 0123	1,50	I
Float for vacuum "1545"	5056 0292	4,85	I
Cartridge filter	5056 0126	58,40	I
Roll holder complete	5056 0130	9,15	I
Swivel castor for vacuum "840 + 1545"	5056 0131	9,15	I
Spring washer	5056 0132	0,54	I
Pan head tapping screw - Phillips head M8 x 40	5056 0133	0,54	I
Hex nut	5056 0134	0,54	I
Reducing piece for vacuum "845+1545"	5056 0140	4,85	I
All-purpose nozzle with brushes	5056 0141	30,40	I
Pipe bend	5056 0142	9,15	I
Crevice nozzle ø 32 mm for vacuum "840 + 1545"	5056 0143	4,85	I
Rubber lip for water suction nozzle	5056 0145	19,40	I
Air regulation for flex. hose	5056 0146	31,00	I

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## Spare parts for water vacuums

Description	Item Number	Price/p. in €	Price Gr.
Carrying handle for vacuum "840 + 1545"	5056 0147	4,85	I
Pan head tapping screw B6.3 x 16	5056 0148	0,54	I
Intake manifold	5056 0149	6,05	I
Snap fastener for carrying handle SF 1545	5056 0150	4,85	I
Mains connection cable for vacuum "1545"	5056 0206	19,20	I
Axle for SFE 1545	5056 0290	7,45	I
Spacer bushing for axle	5056 0155	3,25	I
Wheel cap for water vacuum	5056 0157	0,81	I
Driving handle for water vacuum "840+1545"	5056 0158	29,60	I
Retaining bracket upper part	5056 0159	3,25	I
Disc	5056 0160	0,54	I
Pan head tapping screw B4.8 x 13	5056 0162	0,54	I
Retaining bracket lower part	5056 0163	3,25	I
Protective cap	5056 0164	1,50	I
Pan head tapping screw B6.3 x 19	5056 0171	0,54	I
Pan head tapping screw Phillips head 6 x 16	5056 0173	0,54	I
Mother	5056 0176	0,54	I
Cover cap	5056 0177	1,50	I
Mounting bracket	5056 0178	1,50	I
Hook closure	5056 0182	15,50	I
Motor cover upper part with handle	5056 0204	10,50	I
Float guide	5056 0293	7,05	I
Clamping bracket with eccentric lever	5056 0297	5,65	I
Suction hose Ø 32 x 3200 incl. regulation	5056 9100	58,40	I
Pair of extension tubes a 500 mm	5056 9200	58,40	I
Replacement strainer for suction pump	5057 0901	25,70	I

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## Spare parts for water vacuums

Description	Item Number	Price/p. in €	Price Gr.
Replacement cable for submersible pump	5057 0903	<b>174,00</b>	I
Connector for water hose ALT	5057 0904	<b>17,40</b>	I
Connector for water hose NEW	5057 0905	<b>17,40</b>	I
Replacement cable for submersible pump	5057 0909	<b>181,00</b>	II




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## Spare parts for roof renovation equipment



Description	Item Number	Price/p. in €	Price Gr.
Throttle adjustment complete with Bowden cable 1440LG	5065 2102	80,00	I
Locking device complete, with hand lever	5420 2030	190,00	VII
Bowden cable with solder nipple	5420 2032	40,90	I
Simplex cable clamp F. F. DR 2 mm	0259 9722	1,10	I
Push rod	5420 3020	49,40	VII
Solid rubber wheel with deep groove ball bearing	0204 5404	37,40	I
Honda GX 390 9.6/13.0 Petrol	0901 0113	1.460,00	VII
Exhaust Deflector GX 340/GX 390	0901 0197	20,10	VII
Exhaust manifold GX 340/GX 390	0901 0186	165,00	VII
Gasket manifold/exhaust - GX 340/GX 390	0901 0187	27,00	VII
Gasket engine/manifold - GX 340/GX 390	0901 0188	20,00	VII
Silencer complete, GX 390	0901 0194	214,00	I
Oil pan gasket GX 340/GX 390	0901 0182	15,10	I
Gasket carburettor - GX 390	0901 0190	4,65	VII
Cylinder head gasket - GX 390	0901 0172	26,70	VII
Handle for starter rope Honda GX 340/GX 390	0901 0169	19,20	VII
Blade shaft with welded-on washer DS 31	5420 2110	91,90	VII
Spark plug BPR 6 ES for GX 120, 160, 270, 340, 390	5020 6104	9,95	VII
Circular blank ø70 x 8 - bore ø26, S 235 - laser cutting	5022 1026	22,30	I

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## Spare parts for roof renovation equipment

Description	Item Number	Price/p. in €	Price Gr.
Spacer sleeve	5420 2103	21,30	I
Replacement impact blade D=390	5027 0000	252,00	VII
Washer A21	9833 0020	0,24	VII
Hex nut M 20 DIN 934	9822 0020	0,49	I
V-belt XPZ; LW = 772, DS-30 / DS-31	99308 0120	20,40	VII
Hexagon socket countersunk head cap screw M10 x 30 DIN 7991	9806 1030	0,20	I
Hexagon head screw M10 x 35 DIN 933	9803 1035	0,30	I
Nord-Lock washer M10	9835 0210	0,93	I
Hex nut M10	9822 0010	0,42	I
Adjusting ring ø 30/45 x 16 - M8	9855 0030	3,40	I
Grub screw M8 x 10	9813 0810	0,20	I
Tool bag complete	5020 0001	170,00	I
Axle RD20 715LG	5020 1201	59,40	I
Blade shaft complete with blade	5020 2200	742,00	I
Universal joint single galvanized	5020 2207	114,00	I
Bellows "V6-416"	5020 2208	51,50	I
Hose clamp	5020 2209	4,10	I
Disc handwheel ø200	5020 2210	118,00	I
Knife holder complete	5020 2211	134,00	I
Guide pin for knife holder	5020 2212	1,65	I
Handle for disc handwheel	50202213	17,80	I
Knife protection box "DS11"	50204100	371,00	I
Cooling air intake duct complete	5020 4200	295,00	I
Filter fleece 2-ply	5020 4206	43,40	I
Rubber ring RD, 15, LI 200	5020 4210	12,30	I
V-belt guard box complete	5020 4300	211,00	I

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## Spare parts for roof renovation equipment

Description	Item Number	Price/p. in €	Price Gr.
Carburettor fairing complete	5020 4400	174,00	I
Rubber splash guard 630 x 80	5020 4501	66,30	I
Pillow block bearing complete with sleeve and ball bearing etc.	5020 5005	486,00	I
Plummer block housing SNL 507-606	5020 5006	169,00	I
Ball bearing 1207 EKTN9/C3	5020 5007	65,50	I
Sleeves H 207	5020 5008	30,40	I
V-belt pulley for DS11	5020 5104	113,00	I
Wedge steel 8 x 7 - 36 LG	5020 5105	7,45	I
Fixed ring FRB 5.5/72	5020 5107	9,80	I
Seal TSNA 507 C	5020 5108	14,90	I
V-belt XPZ LW=762 for DS10 / DS11	5020 5109	20,00	VII
Self-aligning ball bearings 2207E-2RS1-KTN9/3C	5020 5110	74,20	I
Clamping sleeve H 307 C	5020 5111	23,40	I
Driving cover ø60 mm with screw M12 x 35 for DS11	5020 5112	53,30	I
Starter rope with handle	5020 6101	47,00	I
Starter complete, for GX 340	5020 6102	280,00	VII
Air filter insert complete for GX 340 and GX 390	5020 6103	62,50	VII
Spark plug for GX 340	5020 6104	9,95	I
Engine oil Multi-Oil 15 W 40	9970 0100	8,30	I
Throttle adjustment complete for DS11	5020 6106	152,00	I
Oil float switch for engine GX 340	5020 6107	279,00	I
Casing gasket for Honda engine GX 340	5020 6108	18,10	I
Spark plug connector for GX 340	5020 6109	53,30	I
Cylinder head gasket for GX 340	5020 6110	26,30	I
Valve cover gasket for HONDA engine GX 340	5020 6111	23,80	VII
On/off switch for roof cutter	5020 6112	41,70	I

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## Spare parts for roof renovation equipment

Description	Item Number	Price/p. in €	Price Gr.
Switch with oil warning device	5020 6113	185,00	I
Ignition interruption switch	5020 6114	49,40	I
Gasket for exhaust manifold - GX 340/390	0901 0188	20,00	I
Blower cover for GX 340	5020 6116	202,00	I
Return wheel for starter	5020 6117	102,00	I
Oil dipstick for GX 340	5020 6118	16,90	I
Gas cap for HONDA engine	5020 6119	72,10	I
PVC handle	5020 6120	4,15	I
Foam insert for air filter	5020 6121	23,90	I
Air filter cover GX 340	5020 6122	75,20	I
Hand lever "Quick adjustment front wheel", DS10 / 11	5020 6130	98,60	I
Adjustable connection M8	5020 6131	14,00	I
Bowden cable with connection sleeves	5020 6132	44,60	I
Wheels 250/60B:25 ROLA NABE 65 wide	5022 1007	73,40	I
Pressure spring ø18 x 55LG,	5022 1017	4,95	I
V-belt guard, special 80 x 2 bore ø 30 H7, WST.:C45	5022 1028	113,00	I
Y-bearing housing "FYTB506M"	5022 1030	44,80	I
Locking device complete with handle	5022 2003	146,00	I
Snap hook 246-60 x 6 galvanized	5022 2006	3,40	I
Blade shaft complete with blade holder for DS10	5022 2200	589,00	I
Knife holder complete for DS10	5022 2211	102,00	I
Scale 2 x 65 x 330	5022 3086	60,20	I
Protective cover right	5022 4000	295,00	I
Handle "DS5"	5026 0203	50,10	I
Screw nipple "DS5"	5026 0204	9,20	I
Gas pressure spring "DS5"	5026 0206	206,00	I

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## Spare parts for roof renovation equipment

Description	Item Number	Price/p. in €	Price Gr.
Actuating button "DS5"	5026 0207	36,60	I
V-belt "DS5"	5026 0311	19,30	VII
V-belt pulley "DS5"	5026 0409	179,00	I
Eye bolt M 8 x 20	5030 0002	6,95	I
Stop nut M 8	5030 0003	1,85	I
Cylinder screw M 8 x 35 replaces item number 50300005	9805 0835	2,05	I
Schnorr anti-vibration washer	5030 0006	1,25	I
Parallel pin 8 x 30	5030 0007	4,50	I
Grease nipple	5030 0008	4,05	I
Mounting plate	5030 0009	69,20	I
Countersunk screw M 8 x 20	5030 0010	1,85	I
Tension band	5030 0011	30,10	I
Screw M 8 x 25	5030 0013	1,85	I
Ballast weight for roof stripper	5030 0014	1.280,00	I
Hollow handle	5030 0015	19,80	I
Spax screw 5 x 30	5030 0016	1,85	I
Wing screw M10 x 80	5030 0017	4,55	I
Washer 10 mm	5030 0018	1,40	I
Bush 20 x 26 x 30	5030 0019	57,10	I
Knife holder with thread for roof stripper	5030 0020	262,00	I
Oscillator head	5030 0021	491,00	I
Allen screw 8 x 20 replaces item number 50300022	9805 0820	0,40	I
Vertical screw M 10 x 30	5030 0023	3,05	I
Clamping pin 10 x 20	5030 0024	3,05	I
Guide sleeve for roof stripper	5030 0025	198,00	I
Washer M 12	5030 0026	1,25	I

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## Spare parts for roof renovation equipment

Description	Item Number	Price/p. in €	Price Gr.
Screw M 12 x 30	5030 0027	3,90	I
Connecting rod bearing right	5030 0028	166,00	I
Connecting rod bearing right and left	5030 0028	166,00	I
Hinged cotter pin	5030 0030	7,75	I
Washer 16 mm	5030 0031	1,85	I
Drive wheel B 16 smooth	5030 0032	339,00	I
Gearbox holder right	5030 0033	120,00	VII
Screw M 10 x 45 Allen DIN 912 replaces part number 50300034	9805 1045	0,20	I
Circlip 10 mm	5030 0035	1,25	I
Retaining bolt	5030 0036	116,00	I
Top brake arm	5030 0037	368,00	I
Lower brake arm	5030 0038	356,00	I
Spherical disc and ladle	5030 0039	15,50	I
Stop nut M 8	5030 0040	1,40	I
Clutch lever	5030 0041	310,00	I
Clutch plate	5030 0042	69,10	I
Washer M 8	5030 0043	1,25	I
Screw M 8 x 32	5030 0044	19,40	I
Lock washer	5030 0045	2,55	I
Stud bolt	5030 0046	5,70	I
Clutch disc toothed	5030 0047	164,00	I
Gearbox roof stripper	5030 0048	2.750,00	I
Clutch lining with rivets	5030 0049	62,80	I
Adjusting ring 20 mm	5030 0050	11,20	I
Stud bolt M 6 x 10	5030 0051	1,85	I
Drive axle roof stripper	5030 0052	392,00	I

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## Spare parts for roof renovation equipment

Description	Item Number	Price/p. in €	Price Gr.
Slot wedge 5 x 5 x 32	5030 0053	3,95	I
Gearbox mount left	5030 0054	111,00	VII
Bolt	5030 0055	10,30	I
Clevis	5030 0056	16,40	I
Transport axle complete (angle and wheels)	5030 1400	377,00	I
Washer 16 mm	5030 0058	2,50	I
Transport axis	5030 0059	582,00	I
Cheese head screw M 8 x 30 replaces item number 50300060	9805 0830	1,65	I
Slot wedge 6 x 6 x 32	5030 0061	3,05	I
Connecting rod for roof stripper	5030 0062	325,00	I
Ball bearing 6206-2RS1C3	5030 0064	98,60	I
Sea ring I 62	5030 0065	5,35	I
Sea ring A 17	5030 0066	1,40	I
Ball bearing 6305-2RS1C3	5030 0067	45,50	I
Sea ring A 30	5030 0068	3,05	I
Eccentric shaft	5030 0069	368,00	I
Slot wedge 4 x 4 x 20	5030 0070	3,05	I
Slot wedge 6 x 6 x 25	5030 0071	3,95	I
Sea ring A 25	5030 0072	1,85	I
Bearing block right	5030 0073	441,00	I
Screw M 10 x 80	5030 0075	4,80	I
Fitting pin 10 x 30	5030 0076	11,30	I
Motor 2400 Watt for roof stripper	5030 0077	2.260,00	I
Toothed lock washer ZZ20	5030 0078	356,00	I
Motor supply cable	5030 0079	69,10	I
Mounting bracket	5030 0080	212,00	I

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## Spare parts for roof renovation equipment

Description	Item Number	Price/p. in €	Price Gr.
Screw 6 x 25/912	5030 0081	1,85	I
Schnorr anti-vibration washer M 6 replaces article number 50300082	C8159 9755	1,20	IV
Support	5030 0083	91,70	I
Soft start for system stem	5030 0224	103,00	I
Stem holder	5030 0085	327,00	I
Slotted stem connector	5030 0086	341,00	VII
Stem tube with counter bearing	5030 0087	500,00	I
Clutch disc smooth for roof stripper ALT	5030 0088	355,00	I
Split pin 3 mm	5030 0089	4,05	I
Filter cap	5030 0090	77,00	I
Filter fleece	5030 0091	13,60	I
Perforated grid	5030 0092	29,80	I
Protective tube	5030 0093	59,70	I
Cover for underbody	5030 0094	281,00	I
Guide bracket	5030 0095	405,00	I
Pan head tapping screw	5030 0096	1,85	I
Supply cable with plug complete	5030 0097	139,00	I
Toothed belt pulley Z24	5030 0098	393,00	I
Toothed belt pulley Z12	5030 0099	140,00	I
Stud bolt	5030 0100	12,80	I
Belleville washer 8 x 16	5030 0101	1,25	I
Clamping nut M 10	5030 0102	17,70	I
Ball socket with seat	5030 0103	5,00	I
Pressure spring clutch	5030 0104	8,55	I
Thrust washer PVC	5030 0105	12,80	I
Pressure plate with pin	5030 0106	18,40	I

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## Spare parts for roof renovation equipment

Description	Item Number	Price/p. in €	Price Gr.
Guide angle left	5030 0107	52,20	I
Nut M 10	5030 0109	1,25	I
Gearshift linkage	5030 0110	618,00	I
Gearbox housing with teeth	5030 0111	817,00	I
Eyebolt M 8 x 40	5030 0130	9,70	I
Engine cover	5030 0131	247,00	I
Cheese head screw, M5 x 12	5030 0132	1,05	I
PVC grip	5030 0133	14,10	I
On/Off switch for roof stripper Turbo	5030 0134	239,00	I
Screw connection	5030 0135	13,60	I
Countersunk screw	5030 0136	2,55	I
Cheese head screw	5030 0137	1,25	I
Switch plate	5030 0138	104,00	I
Handle plate	5030 0139	327,00	I
Handle	5030 0140	34,00	I
Grub screw	5030 0141	4,30	I
Clamping nut M 8	5030 0142	9,85	I
Stop nut EL, M 6	5030 0143	0,94	I
Strain relief	5030 0144	44,30	I
Cheese head screw M 6 x 25	5030 0145	3,95	I
Hexagon head screw M 8 x 40	5030 0146	3,35	I
PVC washer 8 x 26 x 3	5030 0147	14,10	I
Roof stripper tool kit	5030 0150	235,00	I
Carrying handle with chain complete	5030 0151	165,00	I
Clutch complete with linings	5030 0154	1.330,00	I
Needle bearing for gearbox	5030 0155	47,30	I

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## Spare parts for roof renovation equipment

Description	Item Number	Price/p. in €	Price Gr.
Frame plate for roof stripper	5030 0160	2.760,00	I
Guide sleeve 4-sided	5030 0161	238,00	VII
Parallel pin 8 x 40	5030 0162	3,80	I
Hood for roof stripper	5030 0163	1.490,00	I
Bush 20 x 26 x 20	5030 0164	43,20	I
Countersunk screw M 10 x 25	5030 0165	3,05	I
Schnorr anti-vibration washer 10 mm replaces item number 50300166	C8159 9316	1,05	IV
Coupling holder for roof stripper	5030 0167	86,50	I
Coupling catch for roof stripper	5030 0168	85,60	I
Pressure bolt for roof stripper	5030 0169	61,30	I
Emergency runner for roof stripper	5030 0170	56,90	I
Pressure piece M 6 for roof stripper	5030 0171	16,10	I
Pressure spring D 206	5030 0172	4,70	I
Bush 20 x 26 x 30	5030 0173	42,70	I
Hex nut M 6	5030 0174	1,55	I
Grub screw M 5 x 10	5030 0175	1,55	I
Parallel pin 6 x 32	5030 0176	2,15	I
Schnorr anti-vibration washer 6	5030 0177	0,94	I
Mounting pad	5030 0178	51,00	I
Cheese head screw M10 x 70	5030 0179	4,55	I
Cheese head screw M 5 x 25	5030 0180	2,05	I
Schnorr anti-vibration washer 5 mm replaces item number 50300181	C8159 9754	0,92	IV
Handle for roof stripper	5030 0182	10,60	I
Timer for roof stripper	5030 0184	296,00	I
Relay for roof stripper	5030 0185	75,00	I
Overload protection for roof stripper	5030 0186	87,60	I

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## Spare parts for roof renovation equipment

Description	Item Number	Price/p. in €	Price Gr.
Soft start for roof stripper	5030 0187	111,00	I
Cheese head screw M 4 x 10	5030 0188	1,05	I
Cable duct for roof stripper	5030 0189	56,90	I
Cheese head screw M 6 x 16	5030 0190	2,05	I
Coupling protection for roof stripper	5030 0191	78,50	I
Special screw M 8 x 16	5030 0192	14,20	I
Bush 20 x 26 x 11	5030 0193	21,90	I
Cheese head screw M 5 x 60	5030 0194	2,05	I
Engine cover for roof stripper	5030 0195	178,00	I
Washer for roof stripper	5030 0196	1,55	I
Phillips head cheese head screw, M5 x 14	5030 0197	1,55	I
Hydraulic coupling complete with handle	5030 0198	253,00	VII
Protective jacket for coupling	5030 0199	14,20	I
Thread-cutting screw, M4 x 6	5030 0200	1,55	I
Toothed lock washer	5030 0201	1,55	I
Schnorr anti-vibration washer 12 mm replaces item number 50300202	C8159 9310	1,55	IV
Eyebolt M 8 x 30	5030 0203	4,70	I
Screw connection PG 11	5030 0204	6,60	I
Supply line calf with FI switch for roof stripper	5030 0205	401,00	I
Built-in plug for switch	5030 0206	103,00	I
Built-in coupling for switches	5030 0207	107,00	I
Foot support for roof stripper	5030 0208	110,00	I
Connection cable complete for roof stripper	5030 0209	38,00	I
Ground fault circuit interrupter for cables	5030 0210	276,00	I
On/Off knob for switch	5030 0211	17,40	I
Rubber protection cap with threaded part for switch	5030 0212	14,20	I

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## Spare parts for roof renovation equipment

Description	Item Number	Price/p. in €	Price Gr.
Toggle switch for roof stripper	5030 0213	52,30	I
Plug supply line NC3MX	5030 0214	59,70	I
Coupling supply line NC3FX	5030 0215	59,70	I
Toggle screw M 10 x 220, galvanised	5030 0216	4,55	I
Eyebolt M 8 x 50	5030 0218	4,70	I
Motor supply cable, 3 x 1.5*200	5030 0219	69,10	I
Timing belt 210L075 for shaft	5030 0901	39,10	I
Timing belt 187L100 for engine	5030 0903	48,00	I
Stem roof stripper "Turbo"	5030 1000	183,00	I
Switch housing lower part	5030 1001	217,00	I
Foam handle for clutch	5030 1002	132,00	VII
Cover switch housing, small	5030 1003	82,30	I
Built-in toggle switch for roof stripper	5030 1004	50,40	I
Clamping profile for stem	5030 1005	40,30	I
Signal light, on/off	5030 1006	8,70	I
Cheese head screw M 8 x 35	5030 1007	1,05	I
Cheese head screw M 8 x 45	5030 1008	2,15	I
Cheese head screw M 8 x 65	5030 1009	2,50	I
Cap nut M 8	5030 1010	1,05	I
Aluminium protective hood Coupling	5030 4100	91,60	I
Insert for bubble peeling knife	5036 1000	155,00	I
V-belt 710 x 17 for roof planer	5038 0901	29,40	I
V-belt 1050 x 17 for roof planer	5038 0902	29,40	I
Impeller 250 mm, 25 m for roof planer	5038 5404	141,00	I
Guide wheel 125 x 37.5 x 50	5038 5405	122,00	I
Washer with axle for roof planer	5038 9000	1.510,00	I

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## Spare parts for roof renovation equipment

Description	Item Number	Price/p. in €	Price Gr.
Wedge for axle roof planer	5038 9001	4,50	I
Bearing for flywheel	5038 9002	276,00	I
Bushing for pulley	5038 9003	69,10	I
Blade shaft with welded-on washer	5422 2110	74,00	I

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## Spare parts for hand torch + titanium torch



Description	Item Number	Price/p. in €	Price Gr.
Universal torch handle	0100 1000	67,50	III
Professional burner repair set	0100 1600	29,80	I
Switching valve repair set	0100 1500	6,85	I
Hose connector	0100 1001	4,55	I
Flow tube for handle	0100 1002	5,70	I
Handle shell for handle	0100 1003	4,60	I
Cone screw-in nipple for stainless steel burner	0100 1004	4,20	I
MS cap nut for handle	0100 1005	2,80	I
Valve body for handle	0100 1006	25,60	I
Pressure spring for pneumatic control 0.7 x 4.5 x 14.7 x 6.25	0100 1099	0,82	I
Economy valve spindle complete with O-ring	0100 1100	3,10	I
O-ring 8.0 x 1.5 for economy valve spindle	0100 1101	0,53	I
Spindle for hand grip	0100 1102	1,10	I
Body metering valve for handle	0100 1103	1,55	I
O-ring 2.0 x 1.5 for handle	0100 1202	0,58	I
Ball spring for hand grip	0100 1203	0,93	I
Ball 1/4" quick release lever for handle	0100 1204	0,58	I
Quick shift lever pin, O-ring	0100 1206	3,10	I
Closure flap for handle	0100 1207	1,25	I
Quick shift lever (MESS)	0100 1300	6,30	I
Clamping sleeve 3 x 16 for handle	0100 1302	1,00	I

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## Spare parts for hand torch + titanium torch

Description	Item Number	Price/p. in €	Price Gr.
Pressure spring for quick shift lever	0100 1303	0,53	I
Main valve complete	0100 1400	5,40	I
Handwheel with fixing screw	0100 1401	4,55	I
Hand wheel for hand grip	0100 1402	4,10	I
Fixing screw with SI coating for handwheel	0100 1403	0,30	I
Spindle-ring SW14 for hand grip	0100 1404	1,00	I
O-ring 5.3 x 2.4 for main valve	0100 1406	0,53	I
Spindle ring for handle	0100 1407	0,31	I
Spindle with O-ring for handle	0100 1408	3,10	I
Serrated lock washer 3.7 for handle	0100 1410	0,25	I
Union nut for taper on burner tube	0101 2106	3,80	I
Screw-in sealing cone for burner tube	0101 2107	5,10	I
Burner tube 100 mm long	0101 2108	17,00	III
Fender support complete with mounting	0101 2109	6,25	III
Fender support complete with mounting for piezo ignition	0101 2119	6,55	III
Brass torch head D32	0101 6000	17,60	III
Burner foot with nozzle for D25	0101 6100	7,65	I
Nozzle for burner head D25	0101 6102	2,20	I
Injector for flame cup 25D	0101 6200	6,50	I
Burner tube 200 mm long	0102 2105	18,40	III
Burner tube 500 mm long M14 x 1.0	0103 2104	27,70	III
Burner tube 500 mm long	0103 2105	26,00	III
Burner tube 750 mm long	0103 2106	32,80	III
Burner tube 1000 mm long	0103 2107	36,40	III
Stainless steel burner head D35	0104 6000	24,40	III
Burner foot with nozzle for D35	0104 6100	7,65	I

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## Spare parts for hand torch + titanium torch

Description	Item Number	Price/p. in €	Price Gr.
Injector for flame cup 35D	0104 6200	6,50	I
Stainless steel burner head D45	0107 6000	28,00	III
Burner foot with nozzle for D45	0107 6100	7,65	I
Gasket for burner foot	0107 6103	1,00	I
Injector for flame cup 45D	0107 6200	6,50	I
Stainless steel burner head D55	0110 6000	30,20	III
Burner foot with nozzle for D55	0110 6100	7,65	I
Stainless steel burner head D65	0113 6000	35,90	III
Burner foot with nozzle for D65	0113 6100	7,65	I
Injector for flame cup 65D	0113 6200	6,50	I
Burner tube 420 mm long	0116 2105	25,00	III
Burner tube 350 mm long	0119 2105	23,60	III
Burner tube 450 mm long	0121 2105	39,40	III
Nozzle 2.0 mm Turbo burner	0121 2107	2,35	I
Burner head without heating loop	0122 0802	132,00	I
Support bracket with washer	0122 0803	10,30	I
Burner tube with heating loop	0122 0804	173,00	I
Nozzle 1.9 mm Bully burner	0122 0806	2,35	I
Mounting clamp Bully burner	0122 0807	12,00	I
Hexagon head screw M 6 x 25	0122 2101	0,50	I
Washer 30 x 6.9 x 2.0 DIN 522	0122 2102	0,94	I
Connector complete 3/8"	0122 3000	30,90	I
Burner tube 2-flame 150 mm	0125 2105	52,00	I
Distributor pipe 2-flame with seal	0126 2100	35,10	III
Burner tube 2-flame 500 mm	0126 2112	58,70	III
Oblique shape Manifold	0126 2200	35,30	III

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## Spare parts for hand torch + titanium torch

Description	Item Number	Price/p. in €	Price Gr.
Manifold 4 flames with gasket	0127 2100	66,90	III
Burner tube 4 flames 500 mm	0127 2114	92,80	III
Titanium bend 500 mm long	0128 2105	52,70	VI
Titanium bend 600 mm long	0128 2106	58,10	VI
Titanium flame cup with injector 60 D	0128 6000	73,40	VI
Titanium bend 500 MM LANG	0129 2105	52,70	VI
Titanium bend 500 MM LANG	0129 2106	58,10	VI
Cone screw-in nipple for titanium torch	0129 2107	3,60	I
Titanium flame cup with injector 55 D	0129 6000	60,20	VI
Titanium bend 100 mm long	0130 2105	32,40	VI
Distributor pipe V4 complete	0131 2000	271,00	III
Threaded soldering sleeve R3/8"	0131 2101	3,65	I
Cast aluminium wheel DR130	0131 2107	32,60	I
Cast aluminium wheel 130 mm/BOHR 15 mm	0131 2108	32,60	I
Burner tube with nozzles E 4	0132 2100	306,00	I
Burner tube with nozzles V 7	0133 2100	506,00	I
Welding tube with torch base for 7-flame welding torch	0133 2106	14,60	I
Burner head 45 pinned	0133 6000	27,70	III
Titanium bend 250 mm long	0631 2105	37,40	VI
Burner tube 600 mm long	0764 2103	28,90	III
Flame cup - complete "LB 120"	0138 0600	67,50	III
Flame cup - complete "LS 95"	0139 0600	67,50	III
Burner head "LSt 105" with injector and nozzle	0137 0300	37,60	I
Burner tube with nozzle "LB 120"	0138 0700	67,50	III
Burner tube with nozzle "LS 95"	0139 0700	67,50	III
Nozzle with nipple "LB 120"- ø1.8	0138 0701	9,85	III

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## Spare parts for hand torch + titanium torch

Description	Item Number	Price/p. in €	Price Gr.
Nozzle with nipple "LS 95"- ø1.6	0139 0701	<b>9,85</b>	III
Handle for arm support "LB 120/LS 95"	0138 0100	<b>67,50</b>	III
Arm support for silent burner "LB 120/LS 95"	0138 0200	<b>12,00</b>	III
Swivel hose connection 3/8"-45	99201 0202	<b>17,30</b>	III




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## Spare parts for soldering torches



Description	Item Number	Price/p. in €	Price Gr.
Handle shell for handle	2520 1003	4,70	I
Valve for smallest bottle	2480 0901	37,60	I
Handwheel for soldering handle	2520 1004	3,50	I
Nozzle for soldering handle	2520 1005	9,60	I
Impeller for handle	2530 1004	3,50	I
Hook for small bottle	2480 0902	5,15	I
Nozzle needle for handle	2520 1009	5,85	I
Main valve complete for soldering handle (= Item No. 01001400)	2520 1002	6,10	I
Fixing screw for wooden handle	2520 1001	0,31	I
O-rings for main valve	2520 1007	0,33	I
Wing screw M 6 x 25	2520 1010	0,64	I
Air slide for handle	2520 1006	1,10	I
Valve for 4 l oxygen cylinder	2380 0901	78,10	I

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## Spare parts for hot air welding equipment



Description	Item Number	Price/p. in €	Price Gr.
Blower unit Multistar	5207 2600	478,00	I
Hose piece D 68 x 90 x 105	5212 4702	118,00	I
Blower lock 50 x 50 x 20	5218 1018	137,00	I
Motor drive unit with base plate Variostar/Prosstar	5218 1200	2.370,00	I
Deep groove ball bearing 61901	5218 1210	30,90	I
Poly-V belt 180J4	5218 1212	17,80	I
Spur gear Motor 170V	5218 1214	752,00	I
Leadership role Rigid	5218 1400	376,00	I
Star knob M8 A2	5218 1503	6,65	I
LCD display 13 mm for Variostar 4000	5218 2501	143,00	I
Potentiometer temperature	5218 2502	12,80	I
Potentiometer blower	5218 2503	12,80	I
Potentiometer drive	5218 2504	12,80	I
Main switch	5218 2505	17,00	I
Clutch switch	5218 2506	28,50	I
Limit switch	5218 2507	11,80	I
Led socket	5218 2510	4,65	I
Temperature knob	5218 2511	10,40	I
Rotary knob blower	5218 2512	10,40	I
Rotary knob drive	5218 2513	10,40	I

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## Spare parts for hot air welding equipment

Description	Item Number	Price/p. in €	Price Gr.
Blower motor	5218 2601	199,00	I
Limit switch Vario/Multi	5218 2605	78,70	I
Circuit board VS 40	5218 2701	707,00	I
Triac BTCA 26/700B	5218 2702	30,50	I
Attachment plug (230V)	5218 2704	159,00	I
Fuse 2A	5218 2712	2,85	I
Bowden cable complete with handle	5218 3333	71,20	I
Carbon brush for motor	5218 4504	13,30	I
Pressure wheel foil 80 mm	5218 8100	295,00	I
Thrust piece with ball	5220 1084	16,40	I
Swivel castor complete	5220 1400	114,00	I
Unistar push bar	5220 1500	98,10	I
Adjusting ring Ø20	5220 1806	14,90	I
Drive motor with gear	5220 1900	1.120,00	I
Poly-V belt 220J4	5220 1905	12,00	I
Control unit Unistar complete	5220 2100	243,00	I
Limit switch for Unistar and Variostar	5220 3001	78,40	I
Triac BTA 08/600TW	5220 3010	11,60	I
Device plug 380 V / 16 A	5220 3025	108,00	I
Pressing weight heavy	5220 3200	146,00	I
Partition foil	5220 3400	484,00	I
Grease nipple "H2" with M10 x 1.5	5220 3506	11,10	I
Plastic handle black	5220 3512	3,40	I
Stop right	5220 3596	47,80	I
Threaded rod M8 x 60LG	5220 3597	45,40	I
Cover for blower	5220 3598	75,00	I

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## Spare parts for hot air welding equipment

Description	Item Number	Price/p. in €	Price Gr.
Blower 350 W 64.5.295 F.	5220 3701	478,00	I
Sheath thermocouple NICR-NI	5220 4091	67,80	I
Drive motor control card	5220 4101	436,00	I
Sheath thermocouple	5220 4192	67,80	I
Protective cap IP68 for 1801	5220 4204	0,33	I
LCD display AD3 1/2 LCD13	5220 4205	142,00	I
Rocker switch black	5220 4207	9,60	I
Rotary potentiometer Piher PC16hIP6 100K LINEAR	5220 4210	12,80	I
Rotary potentiometer Piher PC16hIP6 50K LINEAR	5220 4211	12,80	I
Rotary potentiometer Piher PC16hIP6 5K LINEAR	5220 4212	12,80	I
Pressure wheel foil 50 mm	5220 4600	280,00	I
Hose piece Ø 90 / Ø 68 x 53	5220 4602	59,10	I
Sleeve 46.7 / 49.7.7 x 144	5220 5020	13,40	I
Nozzle shaft DS 51	5220 6000	40,50	I
Ball bearing 6301-2Z	5222 3105	25,50	I
Star grip screw M8 x 30	5222 3107	8,10	I
Hose piece D68 x 90 x 85	5222 4602	88,60	I
Housing shell right for Airtronic	5230 1101	41,00	I
Housing shell left for Airtronic	5230 1201	41,00	I
Sheath thermocouple NICRNI TYPE K, 1.5 mm D x 125 mm	5230 1301	49,90	I
Ejot PT screw	5230 1400	0,45	I
Blower adjustment knob complete	5230 1500	7,95	I
Temperature knob	5230 1600	7,95	I
Connection cover nozzle, mounted, 2 connections (ALT), for 2 connections	5230 2000	17,90	I
LED "red" for Airtronic	5230 2105	1,40	I
Connection cover for control unit	5230 3101	10,30	I

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## Spare parts for hot air welding equipment

Description	Item Number	Price/p. in €	Price Gr.
Connection cable complete with plug	5230 3200	17,00	I
Operating switch with protective cap for Airtronic	5230 3500	6,65	I
Protective cap with frame	5230 3502	1,40	I
Control and regulating unit circuit board	5230 4000	247,00	I
Control unit 230V	5230 4101	164,00	I
Circuit board HS 31/230V for Airtronic	5230 4102	247,00	I
IC-CA 158 AE for printed circuit board	5230 4106	29,20	I
Triac BTA 26/600B	5230 4168	41,30	I
Trim Pot Temper P41 100K	5230 4198	11,80	I
Trim pot blower P41 50K	5230 4199	11,80	I
LED "green" for Airtronic	5230 4301	1,40	I
Blower unit with motor	5230 4500	271,00	I
Fan wheel aluminium - complete	5230 4503	22,40	I
Carbon brush for motor Airtronic	5230 4504	6,05	I
Carbon brush holder for Airtronic	5230 4505	10,10	I
Head disk C 221	5230 5003	11,00	I
Fine mica sleeve ø 46.7/49.7 x 102	5230 5020	13,40	I
Nozzle shaft DS 31 with reducer	5230 6000	41,80	I
Sealing ring 50/75 x 2	5230 6901	1,70	I
Slotted screw M4 x 10	5230 6902	0,33	I
Plex glass pane 41 x 22 x 1	5231 1109	1,70	I
Control and regulating unit Airtronic	5231 4000	229,00	I
LCD temperature display NEW	5231 4500	87,00	I

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## Spare parts for Stirrer cooker

### HR119, HR/MR229, HR90i, HR/MR 180i

Description	Item Number	Price/p. in €	Price Gr.
Burner valve without nozzle	0019 1100	76,70	I
Magnetic insert for safety pilot	0050 0802	49,90	I
Union nut M14 SW17 galvanized	0050 0803	4,40	I
Clamping ring for control valve	0050 0804	2,85	I
Grub screw 4 x 10 DIN438	0050 0805	0,99	I
Clamp for remote thermometer	0050 0806	2,55	I
Plastic knurled nut for remote thermometer	0050 0807	1,55	I
Double cone ring Ø 8 for control valve	0050 0808	2,85	I
Union nut M12 x 1 for control valve	0050 0809	4,80	I
M12 compression fitting for control valve	0050 0810	4,40	I
Pilot burner without nozzle and D-bracket	0050 1100	69,30	I
Ignition Tube Flame Cup	0050 1101	8,75	I
CU-arc 6D with nozzle Verb: u. D.-Holder	0050 1200	27,90	I
MS nozzle holder for pilot burner	0050 1202	3,55	I
Burner nozzle 0.4 with sintered bronze	0050 1203	4,65	I
Sintered bronze plate	0050 1204	2,10	I
MS connecting rotary part	0050 1206	5,25	I
CU-bend 6 mm with nozzle holder	0050 1207	25,60	I
Nozzle unbored, wall 2.0	0050 1208	0,24	I
Ignition fuse complete with connection + SCH.HH	0050 1300	86,00	I
Ignition fuse "T10"	0050 1301	71,30	I
Protective sleeve-Ü-nut SW17	0050 1302	3,80	I
MS compression fitting M10	0050 1303	2,85	I
Double cone ring Ø 6	0050 1304	2,75	I
Thermocouple CT 101 031 220 M.2 MU	0050 1400	27,90	I




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## Spare parts for Stirrer cooker

### HR119, HR/MR229, HR90i, HR/MR 180i

Description	Item Number	Price/p. in €	Price Gr.
Thermocouple CT 101031 F.ST.A.	0050 1401	24,50	I
Nut "MU4D6X-M8"	0050 1402	2,30	I
Hose connection complete with pipe	0050 1500	32,10	I
MS swivel part hose connection 63lg	0050 1501	11,40	I
Hose connector with CU pipe	0050 1503	23,40	I
Lock nut R3/8" left	0050 1504	2,85	I
Sintered bronze H. Filter complete	0050 1507	7,05	I
Hose connection complete with pipe	0050 1600	32,10	I
MS swivel part hose connection 70lg	0050 1601	11,60	I
Burner connection with pipe and UE-MU	0050 2200	14,90	I
MS Turning part burner connection	0050 2201	4,80	I
Union nut R3/8" left	1525 0003	3,45	I
Burner connection with pipe and UE-MU	0050 2204	19,10	I
MS controller connection F. ST. A.	0050 2207	4,80	I
Control unit complete RWK + GAS-PK	0051 0000	2.290,00	I
Automatic control for 119 HR	0051 1000	2.290,00	I
Hose connector with CU pipe for RWK	0050 1610	23,50	I
Automatic control for 229 HR/MR	0051 2000	2.290,00	I
Automatic control for 90 HR	0051 3000	2.820,00	I
Automatic control for 180 HR/MR	0051 4000	2.820,00	I
"Control unit (electrical) 12 V for RK and RVK automatic control (overtemp.) from 08/08 onwards"	0051 5200	1.090,00	I
MS lock nut R1/4" left	0051 5202	2,75	I
Hose, both sides 3/8" F. ST. A. RWK gas hose	0051 5210	56,70	I
Hose, both sides 1/4" F. ST. A. RWK	0051 5220	56,70	I
Hose, both sides 3/8" x 700 mm	0051 5250	49,50	I

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## Spare parts for Stirrer cooker

### HR119, HR/MR229, HR90i, HR/MR 180i

Description	Item Number	Price/p. in €	Price Gr.
Control unit for 119 HR	0051 5300	1.060,00	I
Housing for control unit	0051 5301	225,00	I
Front cover for control unit	0051 5302	71,20	I
Dip shaft 360 mm long	0051 5303	151,00	I
Union nut R 1" for immersion shaft	0051 5305	2,55	I
Control unit for 229 HR+MR	0051 5400	1.060,00	I
Dip shaft 460 mm long	0051 5403	151,00	I
Control unit for 90i HR	0051 5500	1.650,00	I
Dip shaft 360 mm long	0051 5503	151,00	I
Control unit for 180i HR+MR	0051 5600	1.650,00	I
Housing lower part RWK	0051 6101	101,00	I
Cover Closed for RK-ST.	0051 6102	80,40	I
Thermometer unit for RWK	0051 7200	336,00	I
Thermometer for ST. A. RWK	0051 7201	118,00	I
Discharge gate 2" complete	0080 0000	205,00	I
Discharge gate plate	0080 0100	81,10	I
Discharge gate handle	0080 0300	14,60	I
Burner 119 HR with automatic control	0231 0100	2.800,00	I
Handwheel for propane burner	0231 1103	4,10	I
Cover complete for Rekord 119HR	0231 2000	202,00	I
Fixed cover part	0231 2100	123,00	I
Loose cover part for 119HR	0231 2200	59,10	I
Boiler for Rekord 119 HR	0231 3000	762,00	I
Hand mixer "119 HR" - complete	0231 4000	1.650,00	I
Pair of bevel gears 1:1 GR. 5	0231 4104	392,00	I

All prices are exclusive of VAT, ex works and excluding packaging. Prices subject to change.  
Goods are shipped at the recipient's risk. All deliveries are subject to our Terms and Conditions of Sale and Delivery.

GRÜN GmbH Spezialmaschinenfabrik • Siegerner Str. 81 - 83 • 57234 Wilnsdorf-Niederdielfen • GERMANY  
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## Spare parts for Stirrer cooker

### HR119, HR/MR229, HR90i, HR/MR 180i

Description	Item Number	Price/p. in €	Price Gr.
Crank handle for Rekord HR 90/119/229/180	0231 4300	166,00	I
Stirring paddles complete 119 HR	0231 4400	223,00	I
Lower part for Rekord 119HR	0231 5000	971,00	I
Burner 229HR/MR with automatic control system	0232 0100	2.820,00	I
Cover for Rekord 229 HR	0232 2000	226,00	I
Fixed cover part	0232 2100	135,00	I
Loose cover part for 229HR	0232 2200	64,30	I
Boiler for Rekord 229 HR	0232 3000	1.260,00	I
Hand mixer for 229 HR	0232 4000	1.920,00	I
Stirring paddles complete 229 HR	0232 4300	295,00	I
Bottom part for Rekord 229 HR	0232 5000	1.510,00	I
Cover complete for 229 MRK	0233 2000	226,00	I
Cover with handle for 229MRK	0233 2100	135,00	I
Cover part for screwing on 229 MR	0233 2200	64,30	I
Boiler for Rekord 229 MRK	0233 3000	2.060,00	I
MOT agitator 229 MRK complete	0233 4000	3.000,00	I
Four point ball bearing QJ208	0233 4201	202,00	I
Traverse complete for MRK 229	0233 4500	785,00	I
Bottom part for 229 MRK	0233 5000	1.510,00	I
MOT agitator 229 MRK complete	0233 8000	3.000,00	I
Rain cover for E-motor	0233 8200	126,00	I
Burner 90 HR with automatic control	0242 0100	3.320,00	I
Nozzle 1.1 mm for 90/130	0242 1105	3,55	I
Boiler for oil bath 90 HR	0242 3000	2.810,00	I
Bottom part for Rekord 90 HRI	0242 5000	1.080,00	I

**Delivery charges within Germany:**



= 10,- €/parcel



= 25,- €/long parcel



= delivery by forwarding agent on request

For orders below € 100,-, a shipping and handling fee of € 15,-  
will be charged for parcel deliveries within Germany. Delivery to other countries on request.

## Spare parts for Stirrer cooker HR119, HR/MR229, HR90i, HR/MR 180i

Description	Item Number	Price/p. in €	Price Gr.
Thermal oil expansion tank 90 HR	0242 6000	<b>354,00</b>	I
Burner 180HR/MR with automatic control system	0244 0100	<b>3.330,00</b>	I
Burner without STA for BK 229 -180 HR/MR	0205 1000	<b>527,00</b>	I
Boiler for oil bath 180 HR	0244 3000	<b>3.850,00</b>	I
Bottom part for Rekord 180 HRI	0244 5000	<b>1.650,00</b>	I
Thermal oil expansion tank for 180 HR/MR	0244 6000	<b>380,00</b>	I
Boiler for oil bath 180 MRK	0245 3000	<b>6.190,00</b>	I
Bottom part for Rekord 180 MRI	0245 5000	<b>2.470,00</b>	I

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## Spare parts / various accessories

Description	Item Number	Price/p. in €	Price Gr.
Upper part for roller guide bracket	0318 0100	114,00	I
Lower part complete for roller guide bracket	0318 0200	287,00	I
Pair = 2 plastic rollers	0318 1000	44,40	I
Bracket with handle for roofing membrane layers	0319 1100	223,00	I
Roller 57 mm for roofing membrane layers	0319 1200	328,00	I
Roller 70 mm for roofing membrane layers	0319 2200	483,00	I
Pressure roller with mounting	0328 1200	238,00	I
Retaining tube for NACHL-ANDR. R DR21,3x2,65...345LG	0328 1201	63,00	I
Clamp with clamping spring	0328 2100	24,70	I
Roll 2 kg complete with silicone pad	0329 1000	131,00	I
Replacement roller without axle	0329 1101	167,00	I
Silicone hose 70 x 5 x 76	0329 1102	42,20	I
Axle with spacer tube	0329 2000	14,60	I
Axis without spacer tube	0329 2100	13,30	I
Roller puller top part	0330 1100	37,70	I
Roller puller lower part	0330 1200	40,00	I
Pressure roller incl. axle	0350 1100	147,00	I
Pressure roller	0350 1101	89,30	I
Silicone hose Li-ø110 x 5 x 97	0350 1102	43,00	I
Axle for pressure roller	0350 1105	21,10	I
Push bar for pressure roller	0350 1200	128,00	I
Hose clamp for water hose, 26 - 29 mm	1601 0903	4,85	I
Gasket spray hose 1"	1611 1104	3,05	I
Kink protection spiral for spray hose	1611 1105	23,30	I

**Delivery charges within Germany:**



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# Terms and Conditions of Sale and Delivery

## § 1 Scope of application

The following Terms and Conditions apply to all deliveries and services including future sales and form part of the Contractual Agreement. Contrary General Terms and Conditions of the customer shall not become part of the Contractual Agreement even where no express objection is made and even in circumstances where a service is provided. Any divergence from the present General Terms and Conditions and any other side agreements shall not be valid unless expressly agreed in writing by us. Said requirement for agreement shall apply in every case and shall in particular apply in circumstances where we act unconditionally in executing a delivery or service to a customer in full knowledge of the General Terms and Conditions of such a customer. Only Managing Directors and Authorised Signatories of our company who are entered in the Trade Registry are entitled to agree Terms and Conditions of Delivery and Service which are divergent from the present General Terms and Conditions. The present General Terms and Conditions shall apply until such time as new General Terms and Conditions are published.

## § 2 Offer

Offers made by our company are without engagement and non-binding at all times and subject to delivery to ourselves. This shall also apply in circumstances where prior to the conclusion of the contract we have provided the customer with catalogues, product descriptions or technical documentation (such as user manuals, computations, calculations) in which we reserve rights of ownership and copyright. Design or technical aspects of products may deviate from descriptions or figures shown. The customer may not derive any rights against us from such deviations. Verbal commitments made by employees and representatives shall only be binding for us if expressly confirmed in writing. Insofar as an order may be viewed as an offer pursuant to § 145 German Civil Code (BGB), we may accept such an order within four weeks. Acceptance may be declared either in writing or via the delivery of products or provision of other services to the customer. Notwithstanding confirmation of an order, we shall be entitled to refuse a customer or not execute an order in the event that justified doubts exist as to the correctness of information provided by such a customer or in the event that other reasons, such as impending insolvency or lack of creditworthiness, militate against the execution of the order.

## § 3 Delivery, dispatch, transfer of risk

Delivery deadlines shall only be deemed to have been agreed to be binding if we make an express commitment in writing that such deadlines are binding. Insofar as binding delivery deadlines have been agreed, we shall not be in default without a written reminder from the customer. All delivery deadlines shall be subject to correct and timely delivery to ourselves. Partial deliveries are permitted. Compliance with deadlines for deliveries and services requires all documentation to be supplied by the customer, all approvals and authorisations required, in particular for plans, to be made available in a timely manner and further requires customers to perform all acts of co-involvement incumbent on them and for the agreed payment terms to be observed. Deadlines will be extended accordingly in the event that the above requirements are not met. This shall not apply if we ourselves are responsible for the delay.

Deadlines will be extended accordingly in the event that non-compliance with delivery deadlines is due to Acts of God such as war, riots or similar occurrences, strikes, lock-outs, non-timely delivery to ourselves by a supplier or similar. In the event that we are in default of delivery, customers may require compensation in the amount of 0.5 percent of the price for the part of the delivery which could not be put into proper operation owing to the delay for each

complete week of default. Notwithstanding this, the total amount of compensation payable shall not exceed 5 percent of the price.

Compensation claims asserted by the customer because of delay to delivery and services not rendered which extend beyond the aforementioned limit shall be excluded in all cases of delayed delivery including following the expiry of any delivery deadline which we may have been set. The above shall not apply in circumstances where we are compulsorily liable due to intent, gross negligence or damage to life, limb or health. The present provision does not imply a change in the burden of proof to the detriment of the customer. Within the scope of statutory provisions, the customer may only withdraw from the contract insofar as we are responsible for the delay in delivery.

On request, customers shall be required to declare within a reasonable deadline whether they intend to withdraw from the contract due to delay in delivery or whether they insist on delivery.

Insofar as delivery is impossible, customers shall be entitled to require compensation unless the reason why delivery is impossible is not our responsibility. Notwithstanding this, such a compensation claim of the customer shall be limited to a maximum of 25 percent of the net order value of the part of the delivery which cannot be used in a timely manner or in accordance with the contract due to impossibility of delivery. This is without prejudice to the right of the customer to withdraw from the contract. Our liability in the case of negligent breach of a material contractual duty shall be restricted to foreseeable damages typical to the sort of contract.

Delivery of products takes place directly to the customer. Risk shall be transferred to the customer when the object of delivery has left our works. The same shall apply in circumstances where partial deliveries take place or where we provide further services. Products will be delivered to a different destination at the request of the customer. Insofar as it has not been agreed that products will be collected by customers themselves or by third parties and the customer has not provided any particular instruction, we shall be entitled to determine the type of dispatch (in particular forwarding company, dispatch route, packaging) ourselves.

Risk of accidental destruction of and of accidental impairment to the goods shall pass to the customer when goods are transferred. Transfer shall have been deemed to have taken place if the customer is in default of acceptance. When goods are dispatched, risk of accidental destruction of and/or of accidental impairment shall be transferred once goods are handed over to the forwarding agent, carrier or other person or institute determined for the execution of dispatch.

## § 4 Remuneration, payment conditions

Insofar as fixed prices have not expressly been agreed, the amount of the price for the respective delivery or service shall be the company price list valid at the respective time of confirmation of order. Prices are stated net ex warehouse not including deductions and statutory Value Added Tax. Costs of delivery, packaging and any express surcharges are charged separately.

The price for the installation of accessories is charged separately insofar as nothing to the contrary has been agreed. In such a case, the general list prices and transfer pricing rates at the planned time of installation shall apply.

Cost estimates for repairs are prepared to the best of our knowledge and do not constitute a fixed price agreement. There is no requirement for an object inspected within the scope of a cost estimate to be returned to its original condition if this is not technically and economically feasible.



# Terms and Conditions of Sale and Delivery

In the event that a repair order is placed which does not include a clear indication of fault and cost limitation, we may complete any repairs which we deem to be necessary whilst according due consideration to the market value, operational safety and functionality of the object of repair. In the event that a customer has provided an indication of the fault and further defects are ascertained during the repair, we may remedy such further defects without a specific order if this is necessary for the maintenance of operational safety and if the expense of so doing is proportionate to the costs of the original order.

Customers will be invoiced for costs incurred if the fault forming the object of complaint is not ascertained during inspection, if a replacement part required can no longer be procured or if the order is withdrawn whilst in the process of being executed. The same shall apply if the customer fails to attend an appointment for repair works.

We expressly reserve the right to refuse cheques or bills of exchange. Such means of payment will only be accepted subject to clearance. Discounting and exchange costs are charged to the customer and shall fall due immediately.

Invoices shall fall due for payment without deduction within 14 days of dispatch of invoice from our company insofar as nothing to the contrary has been agreed in the order confirmation and/or on the invoice. Upon expiry of said deadline, the customer shall be in default without any requirement for a separate warning. In the event that a customer is in default of payment, penalty interest will be charged at an annual rate of 5 percentage points above the respective base rate for private consumers and 8 percentage points above the respective base rate for commercial enterprises pursuant to § 247 German Civil Code (BGB). We reserve the right to demonstrate that interest costs incurred are higher.

Amendments to the prices stated in the contract are permissible if at least 4 months elapse between conclusion of the contract and agreed delivery date and if there have been changes to the standard wages as governed by the collective wage agreement which applies in our case or changes to the services to be provided. In such a case, we may adjust the price in accordance with the change. The same shall apply shall apply mutatis mutandis to an amendment to statutory Value Added Tax and in the event that there is a delay in delivery or service due to the fact that customers fail to fulfil their duty with regard to arranging for timely acceptance or installation in respect of said delivery and service. The customer shall be furnished with evidence of reductions or increases in cost on request.

The customer shall only have the right to set off claims in circumstances where counterclaims are established in law or have been recognised by us in writing. In addition, customers may only exercise a right of retention if the claim on which the retention of a payment rests is based on the same contractual relationship and has either been established in law or has been recognised by us.

In the event that the customer is in material default of payment, we shall have the right to cease temporarily or to retain further services to which we have committed under the same contractual relationship and to make all outstanding amounts arising from said same contractual relationship due for immediate payment.

In such a case, any dates or deadlines which may have been agreed for the execution of further deliveries and services shall for our part be deemed to have lapsed without any requirement for particular notification of this circumstance.

## § 5 Retention of title and rights

We reserve ownership of objects delivered and right of exploitation in respect of software included until such time as all claims arisen or arising from the business relationship have been paid in full. The same shall apply in circumstances where individual or all claims have been included by us in a current invoice and the balance of such an invoice has been determined and recognised. The customer is required to keep the goods subject to reservation of title with due diligence on our behalf and to insure them sufficiently, at his own expense, against fire, water, theft or other risks of damage.

The customer shall assign to us relevant claims arising from such insurance contracts at the time when said contracts are concluded. We accept such an assignment.

The customer shall be entitled to resell goods subject to retention of title in the normal course of business. Notwithstanding this, the customer shall assign to us with present effect any claims resulting from such a resale or from relicensing of the software. We accept such an assignment. The customer shall have a revocable right to collect such a claim. The customer shall at our request disclose claims ceded and the relevant debtors. We shall be entitled to disclose the assignment to a debtor of the customer.

Notwithstanding this, we commit not to collect the claim as long as the customer meets payment obligations, as long as the customer does not enter into default of payment and in particular as long as no insolvency proceedings have been instigated against the customer's assets and as long as the customer has not ceased payments. In the event of conduct in a manner contrary to the contract by the customer or in the event of expected cessation of payment, we shall be entitled to take back goods subject to retention of title at the expense of the customer or to require the assignment of any claims the customer may have against third parties with regard to the right to recover possession. Said rights shall also apply in circumstances where secured claims have lapsed. We shall be entitled to dispose of the goods subject to retention of title if necessary and set off any outstanding claims against the proceeds of such a sale.

In the case of simple repossession in accordance with the provision set out above, we shall be entitled to collect any goods subject to retention of title which are still in the customer's possession at the customer's expense. The customer shall grant employees from our company who have been authorised to collect goods subject to retention of title access to the customer's premises during normal office hours and without any requirement for pre-notification.

The exercising of rights arising from retention of title or repossession of goods shall not constitute withdrawal from the contract. Any manufacturing or processing of goods subject to retention of title is undertaken by the customer on our behalf and shall involve no commitment on our part. In the case of processing, combining, mixing or comingling of goods subject to retention of title with other goods which do not belong to us, we shall acquire a co-ownership right in a new product thus created in the ratio of the value of the goods subject to reserved ownership compared with the other materials processed at the time when such processing, combining, mixing or comingling took place. In the event that the customer acquires sole ownership of the product created, both we and the customer shall agree that the customer accords us a co-ownership right in the new product in the ratio of the processed, combined, mixed or comingled goods subject to retention of title and shall keep such co-ownership in safe custody on our behalf.

In the event that liability for a bill of exchange is established on our part in connection with the payment of the purchase price, co-ownership and the claim underlying such co-ownership shall

# Terms and Conditions of Sale and Delivery

not lapse until such time as the bill of exchange is redeemed by the customer as drawee.

We shall commit to release existing collateral at the request of the customer to the extent that the realisable value of such collateral exceeds the claim secured by more than 20 percent. We shall be entitled to select collateral to be released.

## § 6 Liability for material and legal defects

The customer shall be required to act without delay in inspecting deliveries and services for completeness and obvious defects, in particular for obvious incorrect quantities and damage, and to notify us of such circumstances immediately in writing and within one week of receipt of the delivery or service. In the case of non-obvious (hidden) defects, the customer is required to make a complaint to us in writing without delay upon the defect's discovery and by the end of the limitation period at the latest. Timely dispatch of notice of complaint shall be deemed sufficient for compliance with the deadline. In the event that the customer fails to submit complaints as stipulated above, liability shall be excluded in respect of a defect which has not formed an object of complaint. Burden of proof in respect of compliance with the duty to make complaint, the timely compliance with said duty, the existence of defects and the time at which a defect is ascertained rests with the customer.

All customer claims – whatever the legal basis of such claims – shall lapse 12 months after the commencement of the statutory guarantee period. Said deadline shall not apply insofar as the law prescribes longer periods pursuant to German Civil Code (BGB) § 438 Paragraph 1 Clause 2 (buildings and elements of buildings), § 479 Paragraph 1 (recourse claims) and § 634 a Paragraph 1 Clause 2 (construction defects).

We shall be entitled to choose whether to remedy defects or else supply goods not containing defects. We shall further be entitled to carry out such amendments to the product as are necessitated by defects without additional costs for the customer insofar as the service forming the object of the contract is not subjected to anything more than non-material change. In the event of a failure to render the supplementary performance, the customer reserves the right to reduce the price or, if he chooses, to withdraw from the agreement.

The customer shall support us in the remedying of defects and shall in particular provide us with all information and documentation necessary for remedying the defect. In the event of a justified complaint regarding a defect which is our fault, we shall be entitled to choose a replacement delivery or subsequent performance within an appropriate deadline, usually three weeks. If replacement delivery or subsequent performance fails, the customer may choose reduction of remuneration or rescission of the contract.

In all cases of justified complaints regarding defects, we shall have the right to make several attempts to provide subsequent performance before the customer is permitted to require reduction of remuneration or rescission of the contract. Warranty claims in particular do not apply if a defect is caused by unsuitable or improper use, incorrect installation or commissioning on the part of the customer, usual wear and tear, incorrect or negligent treatment, care, maintenance or operation, the use of inappropriate materials or inappropriate accessories, alterations or repair works undertaken by the customer or a third party, damage caused by overload, defective construction works, inappropriate foundations, damage caused by an Act of God (such as a lightning strike) or chemical, electro-chemical or electrical influences insofar as such defects are not attributable to the supplier.

Claims for defects shall not arise in the event of immaterial devi-

ation from the agreed nature of the goods, immaterial impairment of usability, natural wear and tear or defects arising as a result of improper or negligent treatment after transfer of risk, excessive use, the use of inappropriate materials or defects arising as the result of particular external influences not forming an object of provision pursuant to the contract.

Should it emerge that services requested by the customer and provided by us were not necessary as a result of breach of contractual duty by our company, the customer shall remunerate us for such services and shall bear any costs incurred. Such a charge shall be based on our hourly rates and travel expense rates as amended.

Claims of the customer in respect of necessary expenses for the purpose of subsequent performance, in particular transport, forwarding, work and material costs, shall be excluded insofar as such expenses increase because the goods forming the object of delivery are dispatched to a destination other than the delivery address agreed at the time of conclusion of contract.

In addition, we refer to the usual maintenance intervals that are required for the delivered goods. Defects and/or damage resulting from failure to carry out the necessary maintenance work do not constitute material or legal defects. Warranty and/or compensation claims are excluded.

## § 7 Liability

We shall be liable to an unlimited extent in the event of intent and gross negligence on the part of our legal representatives and vicarious agents as well as for damages to life, limb and health caused by a breach of contractual duty which is the fault of us or of our legal representatives or vicarious agents.

The same shall apply in respect of application of the provisions of the German Product Liability Act. Notwithstanding this, our liability shall be limited to compensation for foreseeable and typically occurring damages. Our liability shall also be limited to compensation for foreseeable and typically occurring damages in cases of gross negligence provided one of the exceptional cases stated above does not apply. The provisions stated do not imply a change in the burden of proof to the detriment of the customer. In the event of a breach of obligation not caused by a defect and if further statutory prerequisites apply, the customer may only withdraw from the contract if the breach of obligation is our responsibility. Withdrawal from the contract is excluded if such a breach of obligation is not material. In the case of other culpable breaches of material contractual duties our liability shall be limited to the sum covered under our company liability insurance.

We shall not be liable for damages insofar as the customer might reasonably have been expected to undertake measures to prevent such damages.

The above liability provisions also apply to our employees and other vicarious agents.

## § 8 Compensation in the case of refusal of acceptance

In the event that the customer is in default of collection/acceptance of a service ordered and if we have set the customer an appropriate deadline in writing for the collection/acceptance of our service, we may, once such a deadline has expired, require compensation for non-fulfilment rather than fulfilment of the contract. In such a case, we may require a flat-rate payment of 20 percent of the agreed price as compensation without provision of evidence insofar as it cannot be demonstrated that the damages incurred are materially lower. This shall be without prejudice to the right to assert a claim for highly damages which have actually occurred.

# Terms and Conditions of Sale and Delivery

The present provisions regarding flat-rate calculation of damages shall also apply if an insolvency administrator avails himself of the right not to fulfil the contract in the event of insolvency of the customer.

## § 9 Breach of copyright and of industrial property rights of third parties

In the event that the object of delivery breaches the industrial property rights of third parties and copyright in particular or in the event that third parties are entitled to require the customer to desist from further use of the object of delivery, we shall commit to taking back the delivery and to providing appropriate subsequent performance. The right of the customer to assert further claims for non-fulfilment are excluded.

Insofar as software is included within the scope of delivery, the customer shall be accorded a non-exclusive right to use the software thus supplied for the agreed purpose as well as being accorded the agreed scope of services in respect of the object of delivery determined for the purpose. All other rights in the software shall remain with us. The customer shall not in particular receive the right to reproduce or alter the software or to make the software available to an unauthorised third party unless our express permission has been given. The customer shall commit to notifying us without delay of instances where the industrial property rights of third parties are affected with regard to the software delivered and to bear the costs of legal defence to be undertaken by us. In the event of assertions made regarding the industrial property rights of third parties, we shall be entitled to act at our own expense in undertaking necessary alterations to software even in cases where goods have been delivered and paid for.

In every case where hardware is sold on, only the rights stated above shall be transferred to the new owner. All other rights in the programmes shall be retained exclusively by us.

## § 10 Ownership of and copyright in documentation

We shall retain ownership of and copyright in technical documentation, diagrams and drawings which we make available to the customer. The customer is not permitted to make such documentation accessible to unauthorised third parties. In the event that the customer is in breach of this duty or commits any other misuse, we shall be entitled to require return of the documentation.

## § 11 Secrecy, confidentiality

The customer agrees that data we receive within the scope of the business relationship may be stored and processed via an IT system.

Data will be treated strictly confidentially and statutory stipulations will be complied with. Insofar as the contractual parties exchange confidential information of a commercial or technical nature or one party becomes aware of information from the sphere of the other party which is usually viewed as a business secret, e.g. customer data, they shall commit to treat such information strictly confidentially and not to make the information available to third parties nor use the information for any purpose other than for the execution of the contract.

Information which is demonstrably in the public domain, information which enters the public domain without any action on the part of one of the contractual parties, information which becomes known to one of the contractual parties from another source which has no duty of confidentiality towards the other contractual party and information which must be disclosed by one of the contractual parties on the basis of compulsory statutory stipulations (in

particular to courts, law enforcement agencies and government authorities) shall be exceptions to the mutual duty to maintain confidentiality.

Each of the contractual parties shall commit to returning all confidential information physically transmitted by the respective other contractual party to said other contractual party at any time following a relevant request or, by the choice of the other party, to destroy such information without retaining copies or records. Records, summaries and evaluations made by a contractual party and containing confidential information shall be destroyed without delay at the request of the other contractual party to delete electronically transmitted and/or stored confidential information. Written confirmation shall be provided to the other contractual party on request that destruction/deletion has been carried out.

Notwithstanding this, the above regulations do not apply to copies which need to be kept in a confidential file by one of the contractual parties for the purpose of evidence.

The term of the present duty of confidentiality exceeds the term of purchase, work and service agreements by five years.

## § 12 Miscellaneous provisions

We shall be entitled to avail ourselves of the assistance of third parties for the purpose of fulfilling our contractual obligations. This shall be without prejudice to our responsibility pursuant to the present agreement.

In the case of delivery agreements on a requisition basis, the supplier shall, insofar as nothing to the contrary has been agreed, be notified of binding quantities at least one month prior to the delivery date via requisition. Additional costs caused by delayed requisition or by subsequent amendments to the requisition regarding schedule or quality made by the orderer shall be borne by the orderer.

No side agreements have been made.

In the event that one of the provisions contained within the present agreement should be or should become invalid, this shall be without prejudice to the validity of other provisions herein contained. Such an invalid provision shall be replaced with a valid provision that as closely as possible reflects the economic purpose of said invalid provision. Statutory provisions shall otherwise apply.

Place of jurisdiction shall be Siegen insofar as the customer is a Registered Trader under German Law within the meaning of German Commercial Code (HGB), a legal entity under German public law or a special fund under German public law. The same shall apply in the event that the customer does not have a general place of jurisdiction in the Federal Republic of Germany. Notwithstanding this, we shall also be entitled to assert a legal claim at the location of the Registered Office of the customer.

The present agreement is governed by the law of the Federal Republic of Germany. Conflict-of-law provisions under international civil law shall not apply. The UN Convention on Contracts for the International Sale of Goods (CISG) shall be excluded.

No amendments or supplements to the present General Terms and Conditions shall be valid unless made in writing.

Electronic documents such as e-mails without a qualified electronic signature do not constitute the written form within the meaning of the German Signatures Act. Invoices transmitted to us electronically and not containing a qualified electronic signature of this kind will not be accepted.

Your competent partner  
for roof, road and construction



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