

Milling Machine

OPTImill MZ 4

OPTIMUM
MASCHINEN - GERMANY

Tool milling machines with digital 3-axis position indicator. DP 700 from NEWALL

Article Number ▼

3346240

Additional Costs ▼

Total 400.00 €

TVP6 200.00 €

TPZDF1 200.00 €

Availability ▼

In stock

Availability on request

Brand ▼

Optimum

Catalog Path ▼

Metalworking machines » Milling machines conventional »

OPTImill MZ 2 / MZ 4



Order ▼

Minimum 1 pc(s).

Shipment Informations ▼

Packaging Metrics		Weights		Delivery	
Length	1,730 mm	Gross	1,580 kg	Delivery	Special transportation
Width	1,940 mm	Net	1,450 kg	Content	1 pc(s).
Height	2,150 mm				

Description ▼

- Versatile application
- Excellent damping properties and stability of the machine frame
- All guides hardened and precision ground and adjustable by means of wedge strips
- Dovetail guide in the X and Y axis
- Automatic feed in the X, Y and Z axes, infinitely adjustable
- Ball screws in all axes
- Swiveling and clearly arranged control panel with integrated digital position and speed display
- Massive cross table, large dimensioned and precisely surface-finished with 5 T-slots
- Coolant system
- Large sized handwheels with scale
- machine lamp
- Quiet run

Cross table enclosure

- Mounted as standard on delivery to the machine
- Protection against chips and coolant
- Foldable, thus optimally accessible working space

OPTI control panel

- Integrated control panel
- Integrated digital position indicator DP 700

MZ 2:

- Manual central lubrication

MZ 4:

- Automatic central lubrication

Delivery Contents ▼

- 4 x mandrel ISO 40 with counter bearing
 - 16 mm outside diameter
 - 22 mm outside diameter
 - 27 mm outside diameters
 - 32 mm outside diameter
 - ISO40 - MK3 adapter
 - MK2 recording
 - MK1 recording
- operating tool

Technical Data ▼

Dimensions and weights			
Length (product) approx.	1610 mm	Width/depth (product) approx.	1825 mm
Height (product) approx.	1885 mm	Net weight approx.	1450 kg
Drive speed feed			
Drive speed feed X axis	50 – 450 min ⁻¹	Drive speed feed Y axis	50 – 450 min ⁻¹
Drive speed feed Z axis	50 – 450 min ⁻¹		
Drilling/milling output			
Max. size milling head	100 mm	Drilling performance steel (S235JR)	32 mm
Continuous drilling performance steel (S235JR)	28 mm	Max. size shaft milling cutter	25 mm
Fast motion speed			
Fast motion speed X axis	10 – 800 mm/min	Fast motion speed Y axis	10 – 800 mm/min
Fast motion speed Z axis	10 – 800 mm/min		
Electric Data			
Supply voltage	400 V	Phase(s)	3 Ph
Current type	AC	Mains frequency	50 Hz
Milling table horizontal			
Horizontal milling table length	900 mm	Horizontal milling table width	500 mm
Min. clearance vertical spindle - horizontal milling table	130 mm	Max. clearance vertical spindle - horizontal milling table	390 mm
Horizontal milling table T-groove size	14 mm	Horizontal milling table T-groove number	7
Min. clearance horizontal spindle - horizontal milling table	130 mm	Max. clearance horizontal spindle - horizontal milling table	530 mm
Horizontal milling table T-groove spacing	63 mm	Horizontal milling table max. load bearing capacity	500 kg

Milling table vertical			
Vertical milling table length	1200 mm	Vertical milling table width	250 mm
Vertical milling table T-groove size	14 mm	Vertical milling table T-groove number	3
Vertical milling table T-groove spacing	63 mm		
Horizontal spindle			
Horizontal spindle spindle chuck	ISO 40 DIN 2080		
Cooling lubricant system			
Coolant pump(s) drive power	95 W		
Standards and certifications			
Standard	DIN EN 55011	EMC level	C3
Travel			
Travel X axis manual	535 mm	Travel Y axis manual	480 mm
Travel Z axis manual	385 mm	Travel X axis automatic	510 mm
Travel Y axis automatic	440 mm	Travel Z axis automatic	345 mm
Vertical spindle			
Vertical spindle reach	185 mm	Vertical spindle spindle chuck	ISO 40 DIN 2080
Vertical spindle speed range	30 – 2250 min ⁻¹	Vertical spindle swivel range milling cutter head Z - X plane	± 90 °
Vertical spindle number of gears	18	Vertical spindle quill stroke	120 mm
Vertical spindle tightening bar	M16	Vertical spindle drive motor output normal operation	3.75 kW
Feed speed			
X axis feed speed	10 – 600 mm/min	Y axis feed speed	10 – 600 mm/min
Z axis feed speed	10 – 600 mm/min		
Feed motor drive power			
X axis feed drive motor output	0.75 kW		
Drive speed fast motion			
Drive speed fast motion X axis	50 – 800 min ⁻¹	Drive speed fast motion Y axis	50 – 800 min ⁻¹
Drive speed fast motion Z axis	50 – 800 min ⁻¹		
Electrical connections			
Total rated value	5.4 kW		
Motor(s)			
X axis fast motion drive motor output	0.75 kW		

Options Equipment ▼



Compressed air tool changer

Article Number ▼

3346225

Availability ▼

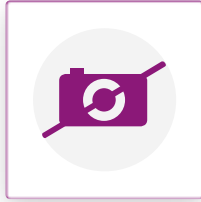
Order-related purchase

Order ▼

Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Hydraulic tensioning device DIN 69871

Article Number ▼
3346226

Availability ▼
No stock available
Delivery time on request
Next availability
Unknown

Order ▼
Minimum 1 pc(s).

Price Information ▼

OPTIMUM
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Accessories ▼



Precision quick-action drill chuck 1 - 8 mm, B16

Article Number ▼
3050608

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Information ▼

OPTIMUM
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Pull studs BT 40 DIN 2080 M16/M16

Article Number ▼
3536179

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Information ▼

OPTIMUM
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Mandrel for drill chuck cone outside ISO 40 / M16 / B16

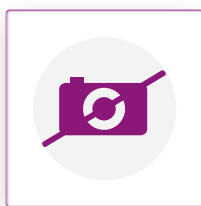
Article Number ▼
3352070

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Information ▼

OPTIMUM
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Mounting and tool setting aid BT 40 / Satz2

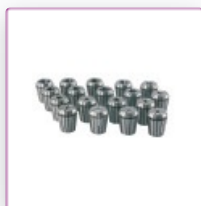
Article Number ▼
3536194

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Information ▼

OPTIMUM
MASCHINEN - GERMANY



Collet set ER 32, Ø 3 - 20 mm

Article Number ▼
3441122

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Information ▼

OPTIMUM
MASCHINEN - GERMANY



Modular machine vice MVSP 150x200

Article Number ▼
3530104

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Hydraulic machine vice HCV 105

Modular machine vice with high accuracy and repeatability for series and component machining on CNC milling machines and machining centers

Article Number ▼
3536210

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Hydraulic machine vice HMS 125

Robust design for milling, drilling and grinding

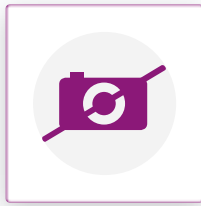
Article Number ▼
3355127

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Modular machine vice MVSP 150x300

Article Number ▼
3530108

Availability ▼
No stock available
Delivery time on request
Next availability
Unknown

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Hydraulic machine vice HCV 125

Modular machine vice with high accuracy and repeatability for series and component machining on CNC milling machines and machining centers

Article Number ▼
3536214

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Tapping attachment M5 - M12 / B16

Built-in fast reverse, immediately effective when changing the feed direction

Article Number ▼
3352042

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Down device
Table groove 14 mm / M 12

Article Number ▼
3352031

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
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Precision machine vice
FMS 125

Article Number ▼
3354125

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
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Height adjustment device
for BT 30

Article Number ▼
3536290

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
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Holder cutter head
BT 30

Article Number ▼
3536306

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Collet holder key
ER 32 - BT30

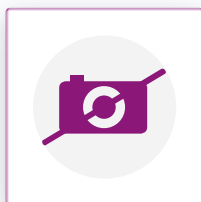
Article Number ▼
3536307

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Cone wiper
for 40 / SK 40

Article Number ▼
3536331

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

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Pull studs
for BT 40 / Satz2

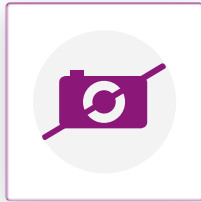
Article Number ▼
3536332

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Drill chuck for BT 40 / Satz2

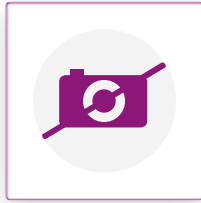
Article Number ▼
3536333

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Information ▼

OPTIMUM®
MASCHINEN - GERMANY



Collet holder ER 32 - BT 40

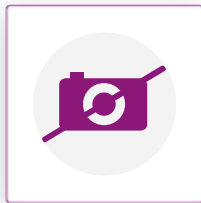
Article Number ▼
3536334

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Information ▼

OPTIMUM®
MASCHINEN - GERMANY



Adapter BT 40 on MK 3

Article Number ▼
3536335

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Information ▼

OPTIMUM®
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Holder cutter head BT 40 / Satz2

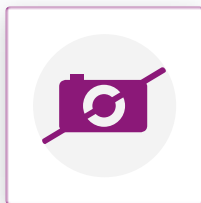
Article Number ▼
3536336

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Information ▼

OPTIMUM®
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Weldon Holder BT 40 Ø 6 mm

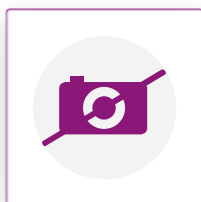
Article Number ▼
3536340

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Information ▼

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Weldon Holder BT 40 Ø 8 mm

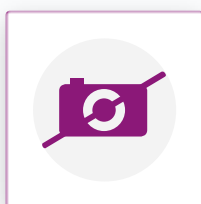
Article Number ▼
3536341

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Information ▼

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Weldon Holder BT 40 Ø 10 mm

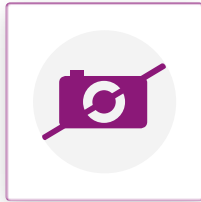
Article Number ▼
3536342

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Information ▼

OPTIMUM®
MASCHINEN - GERMANY



Weldon Holder BT 40

Ø 12 mm

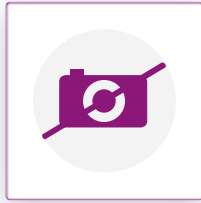
Article Number ▼
3536343

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Information ▼

OPTIMUM®
MASCHINEN - GERMANY



Weldon Holder BT 40

Ø 16 mm

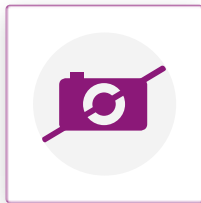
Article Number ▼
3536344

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Information ▼

OPTIMUM®
MASCHINEN - GERMANY



Weldon Holder BT 40

Ø 20 mm

Article Number ▼
3536345

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Information ▼

OPTIMUM®
MASCHINEN - GERMANY



Clamping tool kit

SPW 12

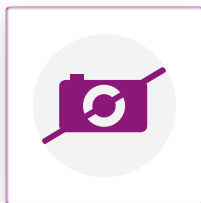
Article Number ▼
3352017

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Information ▼

OPTIMUM®
MASCHINEN - GERMANY



Adapter set

for mounting air changer ISO40 to MZ2 and MZ4

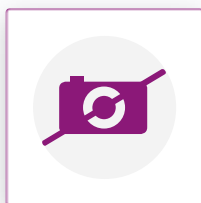
Article Number ▼
3346224

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Information ▼

OPTIMUM®
MASCHINEN - GERMANY



Copy and face cutter head

Shaft ISO 40

Article Number ▼
3350216

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Information ▼

OPTIMUM®
MASCHINEN - GERMANY



Horizontal-vertical rotary indexing table

RT 200

Quality round table made of high-quality Meehanite cast

Article Number ▼
3356200

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Information ▼

OPTIMUM®
MASCHINEN - GERMANY



Edge Finder shank Diameter 10 mm

Article Number ▼
3351171

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Horizontal-vertical rotary indexing table RT 150

Quality round table made of high-quality Meehanite cast

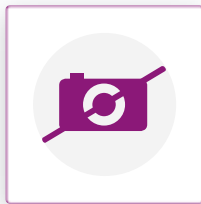
Article Number ▼
3356150

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Starter kit BT 40 / set 2

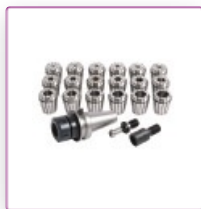
Article Number ▼
3536108

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Collet chuck set ISO 40 / ER32 - M16 / BT40

Article Number ▼
3352056

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Quick-action drill chuck DKC13 1-13 mm

Article Number ▼
3050632

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Quick-action drill chuck DKC16 1-16 mm

Article Number ▼
3050633

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



End mill set HSS, 12-piece

Article Number ▼
3352250

Availability ▼
No stock available
Delivery time on request
Next availability
Expected on calendar week 49/2020

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
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End mill set HSS, 20-piece

Article Number ▼
3352255

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Face mill Ø 63 mm bore, 27 mm

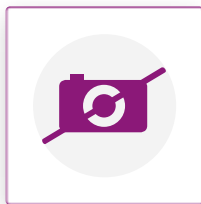
Article Number ▼
3536390

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Precision machine vice FMS 150

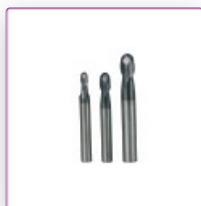
Article Number ▼
3354150

Availability ▼
No stock available
Delivery time on request
Next availability
Unknown

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Milling set radius, 9-piece

Article Number ▼
3352116

Availability ▼
No stock available
Delivery time on request
Next availability
Unknown

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
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Stop angle 90 degrees

Article Number ▼
3385052

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Milling set carbide, 18-piece

Article Number ▼
3352118

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Boring Drill Bit Set Boring Drill Bit Set ISO 40

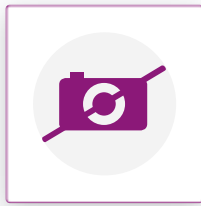
Article Number ▼
3352128

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Precision machine vice FMSN 150

Pull-down mechanism for secure clamping of the workpiece

Article Number ▼
3354130

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Hydraulic machine vice HMS 150

Robust design for milling, drilling and grinding

Article Number ▼
3355150

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Prism WP 30

Article Number ▼
3352195

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Precision quick-action drill chuck 1-10 mm, B16

Article Number ▼
3050610

Availability ▼
No stock available
Delivery time on request
Next availability
Unknown

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



T-nut M 12/14 mm

Article Number ▼
3353025

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
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Horizontal-vertical rotary indexing table with 3-jaw chuck RTU 165

Quality round table made of high-quality Meehanite cast

Article Number ▼
3354165

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Hydraulic machine vice HMS 200

Robust design for milling, drilling and grinding

Article Number ▼
3355200

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
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Angle table

Article Number ▼
3346221

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Parallel spacer kit 20 parts

Article Number ▼
3354001

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Universal dividing head TA 125

Swiveling from -100 to +900

Article Number ▼
3356125

Availability ▼
No stock available
Delivery time on
request
Next availability
Unknown

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Leveling plate SE 2

Article Number ▼
3381016

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY



Horizontal-vertical rotary indexing table with 3-jaw chuck RTE 165

Quality round table made of high-quality Meehanite cast

Article Number ▼
3356365

Availability ▼
In stock
Immediate delivery

Order ▼
Minimum 1 pc(s).

Price Informations ▼

OPTIMUM®
MASCHINEN - GERMANY

The prices quoted are subject to change. Price changes reserved. Our terms and conditions apply. Jurisdiction is Bamberg. The place of performance is Hallstadt as agreed.