

# Universal milling and engraving spindles UFM 500/1050



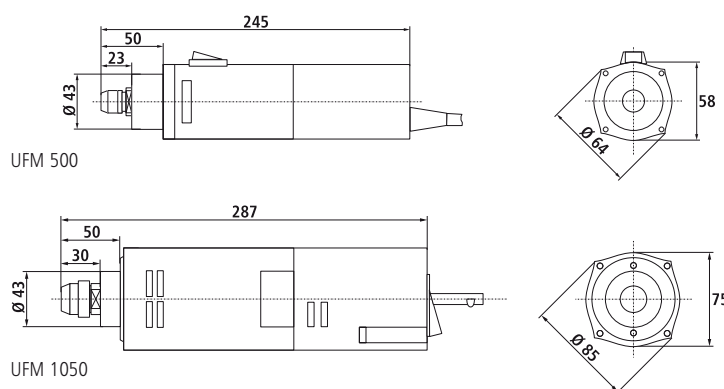
UFM 1050

UFM 500

## Technical specification

	Part no.	Load speed rpm	Voltage V	Efficiency %	Power consumption W	Power output W	Torque Nm
UFM 500	<b>420003 0500</b>	22.600	230	68	500	345	0.14
UFM 500-11	<b>420003 0501</b>	22.600	115	68	500	345	0.14
UFM 1050	<b>420003 1050</b>	21000	230	71	1050	720	0.32
UFM 1050-11	<b>420003 1051</b>	21.000	115	71	1050	720	0.32

## Dimensioned drawings



UFM 500

UFM 1050

Subject to technical changes.

## Features

- Load-independent working speed with Tacho control electronics
- Smooth start for no-backlash acceleration to rated speed
- Blocking protection
- Protective isolation
- PTC thermal monitoring
- Rated output 345 W/720 W
- Speed range 11,000 to 25,000 rpm
- Torque 0.14 Nm (at 22,600/21,000 rpm)
- Rated voltage 230 V
- Collar
- Clamping range  $\varnothing 1 - \varnothing 6.35 / 8$  mm
- Speed control
- Rigid double ball bearing
- Weight: 1.9 / 2.1 kg

### UFM 500

- Input power **500 W**
- Output power **345 W**
- Torque **0.14 Nm**

### UFM 1050

- Power consumption **1050 W**
- Output power **720 W**
- Torque **0.32 Nm**

## Clamping blocks

Clamping blocks $\varnothing 43$ mm	Part no.
Ra 100 and Ra 150 mm fixings	<b>290 902</b>
Ra 100 mm fixing	<b>290 903</b>
Ra 125 mm fixing	<b>290 904</b>

## Collets

collet sets	Part no.
for UFM 500 ( $\varnothing 1.0 - 6.35$ mm)	<b>239 110</b>
for UFM 1050 ( $\varnothing 1.0 - 8.0$ mm)	<b>239 112 0000</b>

## Clamping nut

Clamping nut	Part no.
for UFM 500	<b>239 111</b>
for UFM 1050	<b>239 112</b>

## Carbon brushes

Carbon brushes, VE = 2 units.	Part no.
for UFM 500	<b>420 003 9000</b>
for UFM 1050	<b>420 003 9001</b>

# Overview of collets and tool holders

## tool holders



SK 11 for collets, type ER 11  
Part no.: **239111 0001**

SK 20 for collets, type ER 20  
Part no.: **239172 0020**

SK 30 for collets, type ER 32  
Part no.: **239130**

The following collets are also able to clamp shafts reduced in diameter by 1.0 mm:

### Collets type ER 11

for iSA 500 and iSA 900

Ø (mm)	Part no.
1.0	239170 1000
1.5	239170 1500
2.0	239170 2000
2.5	239170 2500
3.0	239170 3000
3.5	239170 3500
4.0	239170 4000
4.5	239170 4500
5.0	239170 5000
5.5	239170 5500
6.0	239170 6000
6.5	239170 6500
7.0	239170 7000

### Collet set

for spindle motor	Type	Ø (mm)	Part no.
iSA 500/iSA 900	ER 11	1.0 - 7.0	239170 0001

### Clamping nuts

Type	Part no.
ERM 11	239170
ERM 16	239171
ERM 20	239172



The following collets are also able to clamp shafts reduced in diameter by 0.5 mm:

### Collets type ER 16

for iSA 750

Ø (mm)	Part no.
1.0	239171 1000
2.0	239171 2000
3.0	239171 3000
4.0	239171 4000
5.0	239171 5000
6.0	239171 6000
7.0	239171 7000
8.0	239171 8000
9.0	239171 9000
10.0	239171 0100

### Collets type ER 20

for iSA 1500 and iSA 2200

Ø (mm)	Part no.
2.0	239172 2000
3.0	239172 3000
4.0	239172 4000
5.0	239172 5000
6.0	239172 6000
7.0	239172 7000
8.0	239172 8000
10.0	239172 0100
11.0	239172 0110
12.0	239172 0120
13.0	239172 0130

### Collets type ER 32

for iSA 3600

Ø (mm)	Part no.
3.0	239130 3000
4.0	239130 4000
5.0	239130 5000
6.0	239130 6000
7.0	239130 7000
8.0	239130 8000
9.0	239130 9000
10.0	239130 0100
11.0	239130 0110
12.0	239130 0120
13.0	239130 0130
14.0	239130 0140
15.0	239130 0150
16.0	239130 0160
17.0	239130 0170
18.0	239130 0180
19.0	239130 0190
20.0	239130 0200

### Collet sets

for spindle motor	Type	Ø (mm)	Part no.
iSA 750	ER 16	1.0 - 10	239171 0001
iSA 1500 / iSA 2200	ER 20	2.0 - 13	239172 0001
iSA 3600	ER 32	3.0 - 20	239130 0000