

Cutting Machines

Clean cutting, safe handling.



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Cutting Machines



Universal

- For all types of hoses and fittings



Ecoline

- Value driven solution for less frequent use



Energy efficient

- Less energy consumption with the same performance



Special Brake Motor

- A safety feature meeting DIN CE standards requiring the cutting blade to stop turning in 10 seconds



Special Cutting Motor

- Higher forces are achieved using a bigger shaft



Test-proven Cutting Blades

- Cutting blades are made out of test-proven material



Environment friendly

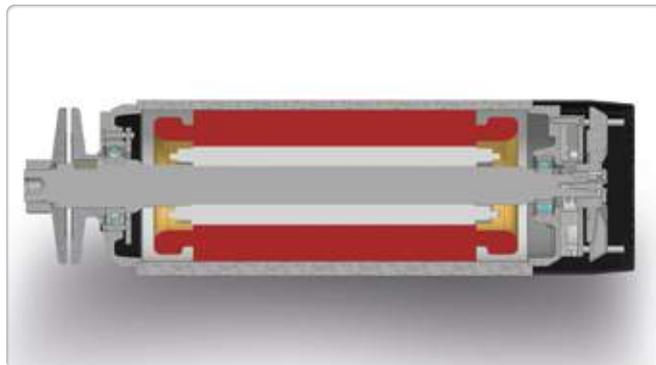
- Engineered to last

Special Features

Brake Motor



Massive Motor Design



→ **Cutting Blades
German Engineering**





UNIFLEX hose cutting machines have been a synonym for the highest precision and robustness for many decades. The solid and compact tools distinguish themselves by their safe and high-quality cutting function. A distinct property is the positioning of the extraordinarily sharp cutting blades close to the powerful motors. This significantly reduces vibration – which is one of the reasons for extreme durability and low maintenance costs.



EM 3



EM 3 Ecoline



HM 200 DC + EM 3-DC



EM 1

EM 1 S



EM 3

EM 3 Ecoline

EM 3 DC

Technical Data	EM 1	EM 1 SB	EM 1 S	EM 3	EM 3 Ecoline	EM 3 DC
Production SAE R 13 & SAE R 15	-	-	-	¾"	-	-
Workshop SAE R 13 & SAE R 15	-	1"	1"	1¼"	1"	1¼"
SAE R 12	⅝"	1¼"	1¼"	1¼"	1¼"	1¼"
Industrial	1¼"	1¼"	1¼"	2"	1¼"	2"
Max. outside	Ø 45 mm	Ø 52 mm	Ø 52 mm	Ø 80 mm	Ø 52 mm	Ø 60 mm
Noise level	90 dBA	90 dBA	80 dBA	95 dBA	95 dBA	93 dBA
Brake motor	-	-	-	✓	-	-
Suction connection	-	Ø 30 mm	-	Ø 80 mm	Ø 40 mm	Ø 40 mm
Drive	1.2 kW 1 VAC	Battery	1.2 kW 1 VAC	3 kW 3 VAC	1.8kW 1 VAC	12 V/24 V 2.0/3.2 kW
Cutting blade (mm)	TM 190x2.0x30 TM 190x2.0x15,875	TM C 160x2.5x20	TM C 160x2.5x20	TM 275x3x30	TM G 200x1.6x25.4	TM 250x2x40Z
L x W x H (mm)	300 x 340 x 310	400 x 300 x 415	300 x 340 x 310	540 x 440 x 300	400 x 510 x 540	550 x 365 x 410
Weight	8 kg	7,5 kg	8 kg	50 kg	20 kg	29 kg
Accessories						
TU Table	✓	✓	✓	✓	✓	✓
Suction device *	-	✓	-	✓	✓	✓
UVC 36 Adapter	-	777.150	-	777.056	777.153	777.153
UVC 50 Adapter	-	518.7010	-	518.7014	518.7010	518.7010
Hose measuring tool UMS 4	-	-	-	✓	✓	-
Foot for UMS 4 (840 mm height)	-	-	-	✓	✓	-
Hose guide 2,000 mm (UHG 14)	-	-	-	✓	✓	-

* Adapter needed.

Suction & filter device page 74 / Options and accessories page 76

Description



Tested high-quality cutting blade, secured with a metal sheet.



Guide pins ensure straight cuts.



Blades
TM = plain
TM G = slotted
TM C = coated



High-quality cutting blades:
TM C, TM G und TM.



TM C
Lasts 7 times longer, cuts twice as fast, generates less smoke, less debris in the hose and less heat.
Reduces the risk of separation of the rubber from the wire.

Cutting blades



UNIFLEX hose cutting machines have been a synonym for the highest precision and robustness for many decades. The solid and compact tools distinguish themselves by their safe and high-quality cutting function. A distinct property is the positioning of the extraordinarily sharp cutting blades close to the powerful motors. This significantly reduces vibration – which is one of the reasons for extreme durability and low maintenance costs.



EM 4



EM 4 DC



EM 4

EM 4 DC

Technical Data	EM 4	EM 4 DC
Production SAE R 13 & SAE R 15	1¼"	–
Workshop SAE R 13 & SAE R 15	1½"	1¼"
SAE R 12	2"	1½"
Industrial	2"	2"
Max. outside	Ø 80 mm	Ø 75 mm
Noise level	80 dBA	93 dBA
Brake motor	✓	–
Suction connection	Ø 80 mm	Ø 40 mm
Drive	3 kW 3 VAC	2.0 kW 12VDC
Cutting blade (mm)	TM C 275 x 3 x 30	TM C 250 x 2 x 40
L x W x H (mm)	700 x 510 x 700	740 x 365 x 610
Weight	60 kg	29 kg
Accessories		
Bench	✓	✓
Suction device	✓	✓
UVC 36 Adapter	777.056	777.153
UVC 50 Adapter	518.7014	518.7010
Hose measuring tool UMS 4	✓	✓
Foot for UMS 4 (840 mm height)	✓	–
Hose guide 2000 mm (UHG 14)	✓	–

Suction & filter device page 74 / Options and accessories page 76

Description



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EM 6 M



EM 8 M



EM 8 P



EM 6 DC

EM 6 M

EM 6 P

EM 6 Ecoline



EM 8 M

EM 8 P

Technical Data	EM 6 DC	EM 6 M	EM 6 P	EM 6 Ecoline	EM 8 M	EM 8 P
Production SAE R 13 & SAE R 15	–	1¼"	1¼"	–	1½"	1½"
Workshop SAE R 13 & SAE R 15	2"	2"	2"	2"	2"	2"
SAE R 12	2"	2"	2½"	2"	2½"	2½"
Industrial	2"	3"	3"	2"	4"	4"
Max. outside	Ø 75 mm	Ø 95 mm	Ø 95 mm	Ø 80 mm	Ø 120 mm	Ø 120 mm
Feed	manual	manual	pneumatic	manual	manual	pneumatic
Noise level	93 dBA	80 dBA	80 dBA	95 dBA	85 dBA	85 dBA
Brake motor	–	✓	✓	–	✓	✓
Suction connection	Ø 40 mm	Ø 60 mm	Ø 60 mm	Ø 80 mm	Ø 60 mm	Ø 60 mm
Drive	3.2 kW : 24 VDC	4.6 kW 3 VAC	4.6 kW 3 VAC	2.4 kW 1 VAC	4.6 kW 3 VAC	4.6 kW 3 VAC
Cutting blade (mm)	TM C 250 x 2 x 40	TM C 350 x 3 x 30	TM C 350 x 3 x 30	TM C 275 x 3 x 25,4	TM C 400 x 4 x 30	TM C 400 x 4 x 30
L x W x H (mm)	740 x 365 x 610	745 x 690 x 430	820 x 785 x 755	700 x 510 x 700	983 x 760 x 875	983 x 760 x 540
Weight	29 kg	75 kg	110 kg	45 kg	122 kg	140 kg
Accessories						
Bench	✓	✓	✓	✓	✓	✓
Suction device	✓	✓	✓	✓	✓	✓
UVC 36 Adapter	777.153	777.055	777.055	777.056	777.055	777.055
UVC 50 Adapter	518.7010	518.7012	518.7012	518.7014	518.7012	518.7012
Hose guide (UHG 14)	–	✓	✓	✓	✓	✓
Counter	–	329.1	Standard	–	323.1	323.1

Suction & filter device page 74 / Options and accessories page 76

Description



Guide pins ensure straight cuts.



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329.1 (for EM 6 M)
323.1 (for EM 8)



High-quality cutting blades:
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TM C
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Reduces the risk of separation of the rubber from the wire.

Cutting blades



The EM 115 and EM 120 are highly productive cutting machines. These machines are best suited for high volume manufacturing of 2" hoses along with workshop capability for 3" high pressure hoses and 4" industrial hoses.

The new UNIFLEX EM 120 is a hose-cutting machine for hydraulic and industrial hoses with outside diameters up to 135 mm. The EM 120 is the first fully electric cutting machine. The hose is pre-bent and clamped while the blade is moving up through the hose. Via IPC for Industry 4.0 or IoT, the operator just needs to type in the diameter and the machine sets itself and adapts the speed via sensors. This results in an optimized straight cut without tearing marks. UNIFLEX recommends the use of the suction and filter device UVC 100 while using the EM 120.



EM 120



EM 115



EM 115



EM 120



Technical Data	EM 115	EM 120
Production SAE R 13 & SAE R 15	2"	3"
Workshop SAE R 13 & SAE R 15	3"	4"
SAE R 12	3"	4"
Industrial	3"	4"
Max. outside	Ø 125 mm	Ø 135 mm
Feed	pneumatic	electric
Noise level	80 dBA	80 dBA
Brake motor	✓	✓
Suction connection	Ø 100 mm	Ø 100 mm
Drive	7.5 kW 3 VAC	7.5 kW 3 VAC
Cutting blade (mm)	TM C 520x4x40	TM C 520 x 4 x 40
L x W x H (mm)	1,210 x 650 x 1,650	2,024 x 1,025 x 1,600
Weight	245 kg	350 kg
Options		
Suction device	UVC 50 / UVC 100	UVC 50 / UVC 100
Hose guide (UHG 14)	✓	✓
UVC 50 Adapter	518.7016	518.7016

Suction & filter device page 74 / Options and accessories page 76

Description

Cutting blades



Lateral guide rolls for guiding and positioning of the hose, for a better cutting quality (EM 115)



Various bending points selectable for straighter cuts and relief of pinch on the blade.



Exchangeable guide (two sizes) for optimum positioning of different hose sizes. (Only: EM 115)



Guide for perfectly centering hoses. (EM 115)



High-quality cutting blades: TM C, TM G and TM.



TM C

Lasts 7 times longer, cuts twice as fast, generates less smoke, less debris in the hose and less heat.

Reduces the risk of separation of the rubber from the wire.



The new EMI 150 and EMI 200 industrial hose cutting machines from UNIFLEX are available for cutting of up to 6" hoses (EMI 150) and up to 8" hoses (EMI 200). Their compact dimensions and robust design make these cutting machines well suited for small workshops as well as bigger production areas. The machines have wheels, so they can easily be moved to the hose instead of carrying heavy hoses around the workshop. Both devices are equipped with the specially coated TM C cutting blade, which substantially reduces the force required and the wear during cutting.

Each machine comes with a 2-year warranty for the best return on investment.



EMI 150 / EMI 200



EMI 150 / EMI 200



EMI 150

EMI 200

Technical Data	EMI 150	EMI 200
Production SAE R 13 & SAE R 15	3"	3"
Industrial	6" non spiral hoses (5" spiral or concrete hoses)	8" non spiral hoses (6" spiral or concrete hoses)
Max. outside	Ø 195 mm	Ø 250 mm
Feed	manual	manual
Noise level	90 dBA	90 dBA
Brake motor	✓	✓
Suction connection	✓ (Ø 102 mm)	✓ (Ø 102 mm)
Drive	7.5 kW 3 VAC	7.5 kW 3 VAC
Cutting blade (mm)	TMC 520 x 4 x 40	TMC 600 x 6 x 40
L x W x H (mm)	1,000 x 1,140 x 1,460	1,070 x 1,620 x 1,570
Weight	215 kg	240 kg
Options		
Suction device	✓	✓
UVC 50 Adapter	518.7016	518.7016

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Cutting blades



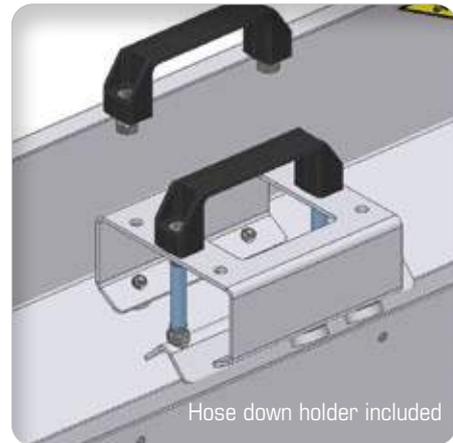
High-quality cutting blades:
TM C, TM G und TM.

TM C

Lasts 7 times longer, cuts twice as fast, generates less smoke, less debris in the hose and less heat.

Reduces the risk of separation of the rubber from the wire.

Cutting thick industrial hoses like a hot knife through butter is not very easy, even if the hoses are not metal-reinforced. Therefore, UNIFLEX has developed a special cutting machine for extremely fast, simple and clean cuts of hoses up to a diameter of 2" with a pneumatically driven and razor-sharp guillotine. Safety and protection at the workplace and ergonomics are a matter of course for this UNIFLEX machine – as is the 2-year manufacturer's warranty.



UPG 10

Technical Data	UPG 10
Guillotine for industrial hoses without steel wire	up to 3" (max. OD: 90 mm/3.45")
L x W x H (mm)	1,810 x 325 x 800
Weight	56 kg
Noise level	70 dBA
Air pressure	7 bar
Minimum cut length	20 mm (0.78")
2 Guide Pins for smaller size	17.5 + 22.5 mm (0.698" + 0.88")

Description



334.001.3: V-shaped knife.
Standard blade for the UPG 10
Universal knife, usable for most thin-walled industrial hose assemblies with/without plastic spiral. Not suitable for hoses with steel reinforcement



334.033.4: Λ -fine knife.
Accessories UPG 10.
For very soft hose assemblies with thicker wall thickness, e.g. rubber hose assemblies. Not suitable for hoses with steel reinforcement



334.034.4: V-shaped knife (sloping).
Accessory UPG 10.
For hose assemblies without spiral with thin to thick wall thickness. Prevents deformation of the hose line during cutting = very straight cut.



The USC 10, USC 20 and USC 30 from UNIFLEX are unique planetary cutting machines designed to cut corrugated metal and PTFE hoses. With the new accessory 325.7, the machines can now even cut hoses with a diameter as small as 6 mm without flaring! Without the accessory, the minimum cutting depth was 10 mm. The USC 10 thus guarantees perfect results along an extended size spectrum (up to 51 mm): virtually scrap-free cutting without reworking, highly efficient as the hoses are instantly ready for further machining such as crimping or welding.



USC 10 | USC 20 | USC 30

Technical Data	USC 10	USC 20	USC 30
Cutting blade (mm)	TM PC 200 x 2 x 25.4	TM PC 250 x 2 x 25.4	TM PC 350 x 3 x 32
Wire braid	0 - 2"	2" - 4"	4" - 6"
Hose diameter	Ø 3/8" - 2" (DN 10-51)	Ø 2" - 4" (DN 50-100)	Ø 4" - 6" (DN 100-150)
Max. rotation wire forming blade	7,200 rpm	7,200 rpm	4,100 rpm
Max. rotation trimming	60 rpm	60 rpm	30 rpm
Drive	4.6 kW 3 VAC	4.6 kW 3 VAC	5 kW 3 VAC
Air pressure	6 bar	6 bar	6 bar
Noise level	85 dBA	85 dBA	85 dBA
Working high (mm)	1,020	1,100	1,045
L x W x H (mm)	730 x 670 x 1,400	730 x 770 x 1,500	900 x 1,250 x 1,520
Weight	245 kg	340 kg	580 kg
Control Siemens S7	✓	✓	✓
Article memory	✓	✓	✓
Feed	pneumatic	pneumatic	pneumatic
Suction device	Standard	Standard	Standard
Options			
Hose guide (UHG 14)	✓	✓	✓

Description



Conventional machine

USC

Planetary cutting machine for corrugated metal hoses and PTFE hoses.

The unique procedure enables quick and neat cutting of corrugated metal and PTFE hoses without flaring the other stainless steel braid.

- Eliminates flaring
- No more trimming
- Easily slip the ferrule into position
- Reduces assembly injuries
- Improves production efficiency
- Touch panel with memory (optional 5.7" display)
- Quick and easy set up
- Allows broader application range to now include PFTE hose



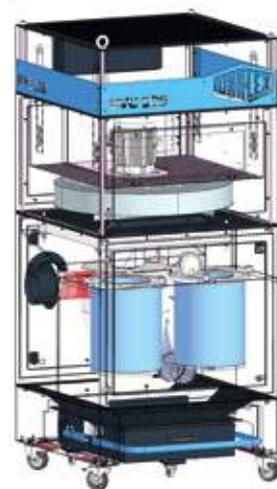
The UNIFLEX hose cutters make clean cuts – but the generation of dust, fumes and odors is inevitable. Therefore, UNIFLEX has developed the UVC 100 suction and filter device for up to three hose cutting machines simultaneously and the UVC 50 for service workshops. A balanced compromise between the volume flow and the negative pressure keeps the air clean during the cutting of hydraulic hose assemblies and protects the operators from fine particles. The multi-step exhaust air purification runs with a spark stop function, cyclone filter technology for the pre-separation of coarse particles, particle filter for dust, HEPA filter for fine particles and carbon filter for odor neutralization – and all that with a 2-year UNIFLEX manufacturer's warranty.



UVC 100 FSD



UVC 50 FSD



UVC 100 FSD



UVC 50 FSD



UVC 100 FSD

Technical Data	UVC 50 FSD	UVC 100 FSD
Max. volume flow	700 m³/h	1,500 m³/h
Max. vacuum	3,250 Pa	4,600 Pa
Main-filter surface	5 m²	10 m²
Drive power	3.0 kW	5.5 kW
Intake voltage	400 Multivoltage	400 Multivoltage
Intake diameter	Ø80 mm*	Ø100 - Ø160 mm (Ø160 mm recommended)**
Dust collection container width	10 l	12 l
Noise level	69 dBA	69 dBA
L x W x H (mm)	1,180 x 730 x 820	950 x 950 x 2,060
Weight	215 kg	500 kg

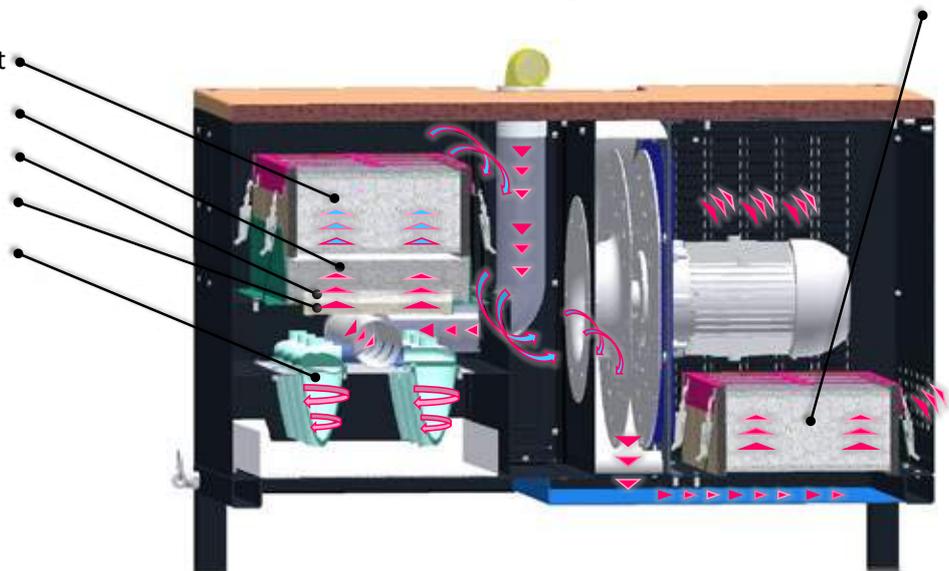
* Delivered without adapter

** Delivered with 3 adapters 160 mm, 125 mm and 100 mm

Description UVC 50 FSD

- 1. Activated carbon filter unit
- Class H13 HEPA micro filter
- Filter fleece class M
- PPI- foam filter
- Cyclone filter-technology

2. Activated carbon filter unit





UWT 2 vs (optional UMS 4 + 514.1)

Electric driven hose coiling reel with foot pedal for easy winding and unwinding of hoses up to 1¼" optional with length measuring device incl. foot stand.

RPM per Pedal

0 to 61 RPM

mandrel adjustment minimum \varnothing 330

maximum \varnothing 730 mm

Maximum Load 80 kg

L x W x H 800 x 900 x 1 600 mm

Weight 70 kg



UMS 4 + 514.1 (floor stand)

Hose measuring tool up to 1¼", \varnothing 1 OD \varnothing 65 mm can be mounted in front of the cutter or on a hose coiler.

Measures up to 999,99 m

tolerant 2 - 7%

L x W x H 250 x 260 x 120 mm

Weight 5 kg

Metric unit only



UHG 14 + UHG 14 ext

UHG 14 Hose guide 2 000 mm and
UHG 14 ext. extension guide 1 000 mm
for all cutting machines



329.1 (for EM 6 M) | 323.1 (for EM 8)

Resettable cutting counter



UAT 4

Hose winder for storing hoses

Ø 1200 mm

L x W x H 820 mm x 900 mm x 1600 mm

Max. load 80 kg

Weight 70 kg

Center pin set up

Smallest Ø 277,5 mm

Biggest Ø 577,5 mm



513.1 (Accessories)

Plate for USH 4

USH 4-5

Hose winder for the easy storage of your hydraulic hoses, up to seven levels.

cage-Ø outside/inside 820/760 mm

external dimension 1000 mm

level high 310 mm

Cage ultimate load 80 kg

513.1:

Plate with fixing bolts

USH 4-5 Height 1 650 mm



URU 2

URU 2 with accessories roller kit 408.2

max. width: 500 mm, max. Ø: 85-1000 mm



778.2

Wheel option for TU

TU

Workbench for miscellaneous machines

(84 x 71 x 75 cm)

Max. load: 800 kg

