# Cutting Machines

Clean cutting, safe handling, solid structure.

**Universal**
For all types of hoses and fittings.

**Ecoline**
Value driven solution for less frequent use.

**Energy efficient**
Now even more efficient.

**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.

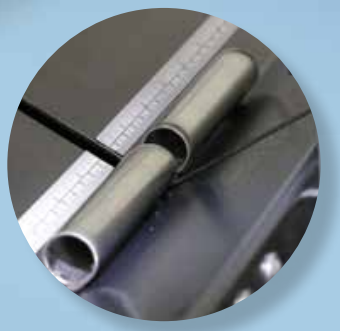


| EM 1 | EM 3 | EM 4 | EM 6 | EM 8 | EM 115 | EM 120 | USC 10 I USC 20 I USC 30 |
|---|---|---|---|---|---|---|---|

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

# UPG 10

Guillotine for industrial hoses without
steel wire up to 2" (max. OD: 90 mm/3,45").
L x W x H (mm): 1 810 x 325 x 800



Minimum cut length 20 mm (0,78")
2 Guide Pins for smaller size 17,5 + 22,5 mm
(0,698" + 0,88")

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

# EM 1 | EM 3

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

| Unique drive motor with double bearings and large shaft |
|---|
| Reduce scrap with straight cuts |
| More cuts between sharpening while increasing profits (not TM C) |
| Less contamination in the shop and in the end product will result in more parts out the door and a better environment in the building |
| Maximizes motor life, giving you the lowest cost of ownership in the market |
| Cut faster and generate a more saleable product |
| **Quality steel blade** |
| Long lasting German quality steel blades, lowering the cost of ownership |
| **Compact Design** |
| Ideal for on-site service |
| **ECOLINE Version** |
| High quality for those new to cutting |
| **CE compliant** |
| Brake motor for safety |
| Security shield |

We reserve the right to make technical changes without notice. Options are machine parts that can only be ordered while buying the machine.

## Accessories



UVC
Suction device



UHG 14 + UHG 14 ext
Hose-guide



330.1
Spark arrestor



Hose coiling reel UWT 2
+ Hose measuring tool UMS 4



UAT 4
Coiler



USH 4 + 513.1
Hose rack



UMS 4 + 514.1
Measuring device



513.1
Plate for USH 4



# Technical Data



EM 1




EM 1 S



EM 3



EM 3 Ecoline



EM 3 DC

| Technical data | EM 1 | 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" | 1¼" | 1" | 1¼" |
| SAE R 12 | ⅝" | 1¼" | 1¼" | 1¼" | 1¼" |
| Industrial | 1¼" | 1¼" | 2" | 1¼" | 2" |
| Max. outside | Ø 45 mm | Ø 52 mm | Ø 80 mm | Ø 52 mm | Ø 60 mm |
| Noise level | 90 dBA | 90 dBA | 90 dBA | 90 dBA | 93 dBA |
| Brake motor | – | – | ✓ | – | – |
| Suction connection | Ø 30 mm | Ø 30 mm | Ø 80 mm | Ø 40 mm | Ø 40 mm |
| Drive | 1,2 kW 1 VAC | 1,2 kW 1 VAC | 3 kW 3 VAC | 1,8kW 1 VAC | 12 V/24 V 2,0/3,2 kW |
| Cutting blade | TM 160x2,5x20 | TM C 160x2,5x20 | TM 275x3x30 | TM G 200x1,6x25,4 | TM 250x2x40Z |
| L x W x H (mm) | 360 x 340 x 310 | 360 x 340 x 310 | 540 x 440 x 300 | 400 x 510 x 540 | 550 x 365 x 410 |
| Weight | 8 kg | 8 kg | 50 kg | 20 kg | 29 kg |
| **Accessories** | | | | | |
| TU Table | ✓ | ✓ | ✓ | ✓ | ✓ |
| Suction device** | – | – | ✓ | ✓ | ✓ |
| UVC 36 Adapter (230 Volt) | 777.150 | 777.153 | 777.056 | 777.153 | 777.153 |
| UVC 100 Adapter | – | – | 330.082.3 | 330.083.3 | 330.083.3 |
| Hose measuring tool | – | – | ✓ | – | – |
| Foot for UMS 4 (840 mm height) | – | – | ✓ | – | – |
| Hose guide 2000 mm (UHG 14) | – | – | ✓ | – | – |

* With special cutting blade.

** Adapter needed.

## Additional Information



High-quality cutting blade, secured with a metal sheet.



Guide pins ensure straight cuts.



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

## Cutting blades

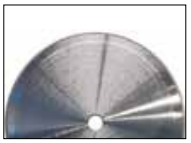
### TM C, TM G and TM

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.



# EM 4

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

| Unique drive motor with double bearings and large shaft |
|---|
| Reduce scrap with straight cuts |
| More cuts between sharpening while increasing profits |
| Less contamination in the shop and in the end product will result in more parts out the door and a better environment in the building |
| Maximizes motor life, giving you the lowest cost of ownership in the market |
| Cut faster and generate a more saleable product |
| **Quality steel blade** |
| Long lasting German quality steel blades, lowering the cost of ownership |
| **Compact Design** |
| Ideal for on-site service |
| **CE compliant** |
| Brake motor for safety |
| Security shield |

We reserve the right to make technical changes without notice. Options are machine parts that can only be ordered while buying the machine.

## Accessories



UVC
Suction device



UHG 14 + UHG 14 ext
Hose-guide



Hose coiling reel UWT 2
+ Hose measuring tool UMS 4



UAT 4
Coiler



USH 4 +
Hose rack



513.1
Plate for USH 4



UMS 4 + 514.1
Measuring device + stand

## Standard



330.1
Spark arrestor

# Technical Data



EM 4



EM 4 DC

| Technical data | EM 4 | EM 4 DC |
|---|---|---|
| Production<br>SAE R 13 & SAE R 15 | 1¼" | – |
| Workshop<br>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 | 90 dBA | 93 dBA |
| Brake motor | ✓ | – |
| Suction connection | Ø 80 mm | Ø 40 mm |
| Drive | 3kW 3 VAC | 2,0kW 12VDC |
| Cutting blade | 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 100 Adapter | 330.082.3 | 330.083.3 |
| Hose measuring tool | ✓ | ✓ |
| Foot for UMS 4 (840 mm height) | – | – |
| Hose guide 2000 mm (UHG 14) | ✓ | – |

## Additional Information



Guide pins ensure straight cuts, which prolongs blade life.



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

## Cutting blades

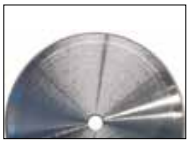
### TM C, TM G and TM

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.



# EM 6 | EM 8

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 6 M



EM 8 M



EM 8 P

**Unique drive motor with double bearings and large shaft**

- Reduce scrap with straight cuts
- More cuts between sharpening while increasing profits
- Less contamination in the shop and in the end product will result in more parts out the door and a better environment in the building
- Maximizes motor life, giving you the lowest cost of ownership in the market
- Cut faster and generate a more saleable product

**Quality steel blade**

- Long lasting German quality steel blades, lowering the cost of ownership

**Compact Design**

- Ideal for on-site service

**ECOLINE Version**

- High quality for those new to cutting

**CE compliant**

- Brake motor for safety
- Security shield

We reserve the right to make technical changes without notice. Options are machine parts that can only be ordered while buying the machine.

## Accessories



UVC
Suction device



UHG 14 + UHG 14 ext
Hose-guide



Hose coiling reel UWT 2
+ Hose measuring tool UMS 4



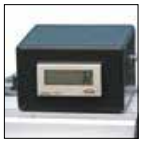
UAT 4
Coiler



USH 4 +
Hose rack



UMS 4 + 514.1
Measuring device



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



513.1
Plate for USH 4

## Standard



330.1
Spark arrestor

# Technical Data



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" | – | 1¼" | 1¼" |
| 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 85 mm | Ø 90 mm | Ø 80 mm | Ø 120 mm | Ø 120 mm |
| Feed | manual | manual | pneumatic | manual | manual | pneumatic |
| Noise level | 93 dBA | 90 dBA | 90 dBA | 90 dBA | 90 dBA | 90 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 | 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 100 Adapter | 330.083.3 | 330.081.3 | 330.081.3 | 330.082.3 | 330.081.3 | 330.081.3 |
| Hose guide (UHG 14) | – | ✓ | ✓ | ✓ | ✓ | ✓ |

## Additional Information



Guide pins ensure straight cuts, which prolongs EM 1 EM 2 blade life.



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

## Cutting blades

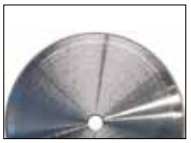
### TM C, TM G and TM

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.



# EM 115 | EM 120

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 hose and 4" industrial hose.




EM 120



EM 115

| Unique drive motor with double bearings and large shaft |
|---|
| Reduce scrap with straight cuts |
| More cuts |
| Less contamination in the shop and in the end product will result in more parts out the door and a better environment in the building |
| Maximizes motor life, giving you the lowest cost of ownership in the market |
| Cut faster and generate a more saleable product |
| **Quality steel blade** |
| Long lasting German quality steel blades, lowering the cost of ownership |
| **CE compliant** |
| Brake motor for safety |
| Security shield |

We reserve the right to make technical changes without notice. Options are machine parts that can only be ordered while buying the machine.

## Accessories



UHG 14 + UHG 14 ext
Hose-guide



Hose coiling reel UWT 2
+ Hose measuring tool UMS 4



UAT 4
Coiler



USH 4 + 513.1
Hose rack



UMS 4 + 514.1
Measuring device



513.1
Plate for USH 4

## Standard



330.2
Spark arrestor

# Technical Data






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 140 mm |
| Feed/Control | pneumatic/pneumatic | electric/C.2 IPC |
| 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 | TM C 520 x 4 x 40 | TM C 520 x 4 x 40 |
| L x W x H (mm) | 1 210 x 650 x 1 650 | 1 810 x 330 x 1 440 |
| Weight | 245 kg | 350 kg |
| **Options** | | |
| Bench | – | – |
| Suction device | UVC 100 | UVC 100 |
| UVC Adapter | – | – |
| Hose guide (UHG 14) | ✓ | ✓ |





## Additional Information



Lateral guide rolls for guiding and positioning of the hose, for a better cutting quality.



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. (EM 115 only)



Guide for perfectly centering hoses.

## Cutting blades

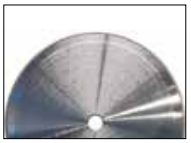
### TM C, TM G and TM

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.



# USC 10 | USC 20 | USC 30

FOR CORRUGATED METAL HOSES AND PTFE HOSES

Cutting results that often eliminate an additional step. This completely unique planetary cutting machine delivers almost scrap-free production with high efficiency. With a completely variable centering clamp system, all hose ODs to the maximum rating for the machine can be cut. Approximate cutting time is 25 seconds for 1¼" (ø DN 32).



USC 10 I USC 20

| Productive and ergonomic |
|---|
| No dramatic flaring of the stainless steel braid |
| Reduces or eliminates time-consuming manual preparatory work, thereby increasing productivity and lowering costs |
| Centering hose clamp system |
| Shortest cut possible from 10 cm |
| No wrapping/unwrapping with adhesive tape required |
| Uses standard cutting blades |
| **Siemens Industrial Color Touch Panel** |
| Clearly laid-out user-friendly software on a panel with a 6" color display screen |
| Large article memory promotes productivity |
| Reference run for optimal positioning of the cutting blade for cutting all hose diameters |
| Programmable constriction time, cutting blade speed and cutting time allows for good results through a wide range of hose sizes and materials |
| Monitoring of production by resettable total counter, batch size counter or daily cut counter |
| **CE compliant** |

We reserve the right to make technical changes without notice. Options are machine parts that can only be ordered while buying the machine.

## Standard

Control C
Belt Tension Tool
Reference drive
Total measurer
Batch size measurer (resettable)
Daily measurer (resettable)

## Accessories



Option
Small outside hose diameter (6-8 mm)
325.8



5,7" display I Touch panel



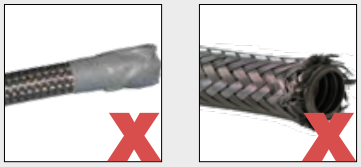
325.3
Hose guide



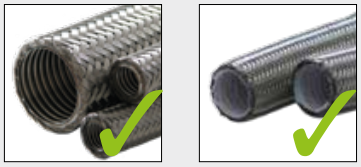
UHG 14 + UHG 14 ext
Hose guide

# Technical Data





Conventional machine



USC

## USC 10 I USC 20 I USC 30

| Technical data | USC 10 | USC 20 | USC 30 |
|---|---|---|---|
| Cutting blade | TM 200 x 2 x 25,4 mm | TM 250 x 2 x 25,4 mm | TM 350 x 3 x 32 mm |
| Wire braid | 2" | 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 dB(A) | 85 dB(A) | 85 dB(A) |
| Working high | 1 020 | 1 100 | 1 045 |
| L x W x H (mm) | 730 x 670 x 1 400 | 730 x770 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) | ✓ | ✓ | |

* Adapter needed.

# Additional Information



Improved fixture for centering hose clamp. Longer, grooved rollers ensure a better grip.

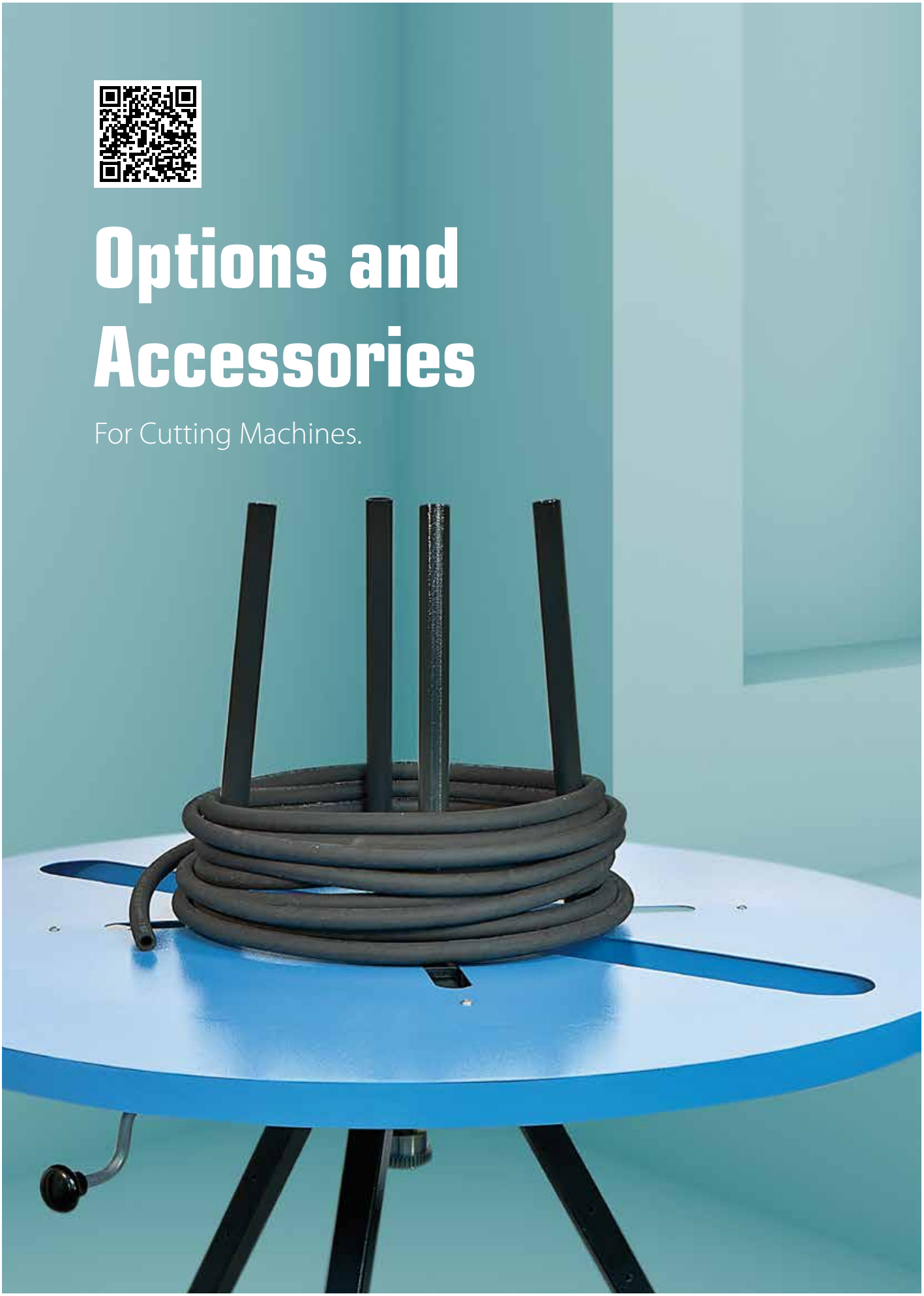
**Planetary cutting machine** for corrugated metal hoses and PTFE hoses. The unique procedure enables quick and neat cutting of corrugated metal and PTFE hoses without flaring the other stainless steel braid.

- 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

hymatik

# Options and Accessories

For Cutting Machines.



Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

# Options | Accessories Cutting Machines




## Suction device UVC 100

Suction device for all cutters
Suction: Ø 100 mm
Spark arrestor, Filter alarm
517.025: Active Carbon filter (Pellets)
517.012: Filter HEPA H 13
517.010: Wire filter
517.011: Cassette filter
Drive: 5,5kW 3 VAC
Nominal air flow: 8 600 m³/H
Noise level: 60 dB(A)
Option: Suction arm
UVC 100 Adapter:
330.083.3: Ø 40 mm, EM 1S, EM 3.2DC, EM 4 DC, EM 6 DC
330.081.3: Ø 60 mm, EM 8.3, EM 6.2
330.082.3: Ø 80 mm, EM 3, EM3 DC, EM6, EM 8, EM 8.2
L x B x H: 1 550 mm x 475 mm x 1 080 mm
Weight: 140 kg



## Suction device UVC 36

Suction device with spark arrestor
(UVC S36-21 + UVC S36-FL)
UVC 36 Adapter
Art.
777.153: Ø 40 mm, EM 1S, EM 3.2DC, EM 4 DC, EM 6 DC
777.055: Ø 60 mm, EM 8.3, EM 6.2
777.056: Ø 80 mm, EM 3, EM3 DC, EM6, EM 8, EM 8.2
Nominal air flow: 216 m³/H
Noise level: 57 dB(A)



## 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

# Options | Accessories Cutting Machines



## 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

| | |
|---|---|
| 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",
01 OD Ø 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



## 513.1 (Accessory)

Plate for USH 4



## Spark arrestor

330.1 EM 1 to EM 8
330.2 EM 120 & EM115

# Options | Accessories Cutting Machines



## UAT 4

Hose winder for storing hoses
Ø 1 200 mm

| | |
|---|---|
| L x W x H | 820 mm x 900 mm x 1 600 mm |
| Max. load | 80 kg |
| Weight | 70 kg |

Center pin set up

| | |
|---|---|
| Smallest | Ø 277,5 mm |
| Biggest | Ø 577,5 mm |



## USH4-50

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

| | |
|---|---|
| cage-Ø outside/inside | 820/760 mm |
| external dimension | 1 000 mm |
| level high | 310 mm |
| Cage ultimate load | 80 kg |

513.1:
Plate with fixing bolts
USH 4-5 Height 1 650 mm



## 778.2

Wheel option for TU-UWT



## TU

Workbench for miscellaneous machines
(84 x 71 x 75 cm)
Max. load: 800 kg