

ACCESSORIES AND TOOLS

CUTTING DISCS

Preferred blade type as standard:

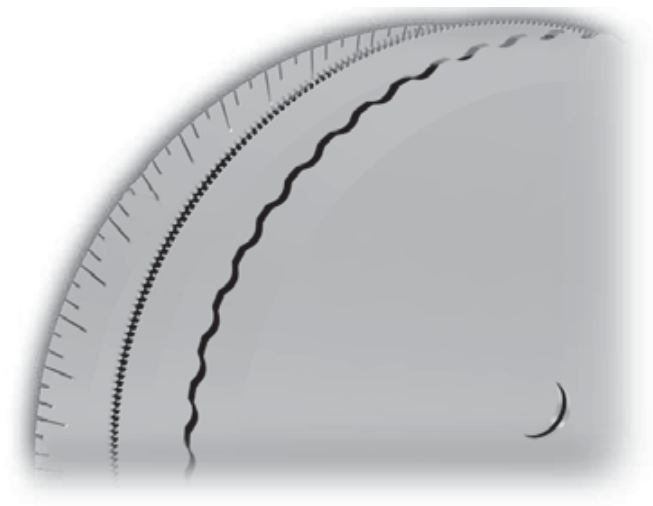
The scalloped blade is suitable for all hose types. It is the optimum solution for the whole hose range and is able to reach a high quality of cutting surface.

Alternative blade type:

The serrated disc is recommended for cutting small bore wire braided hoses (up to DN 31), and is also suitable for cutting spiral hoses.

High performance blade type:

The slotted blade is recommended for cutting standard and heavy duty hoses. It is ideal for continuous service, as the blade profile has been optimised to maintain a low temperature on the cutting edge. It is dedicated to OEM assembling.



BRAKE MOTOR

The brake motor is a safety device - when the stop button is pushed, the disc stops immediately.

PNEUMATIC BENDING

AVAILABLE ON M75 CUT AND M55 CUT

Pneumatic bending facilitates cutting, as the operator does not have to force the hose on the blade. The pneumatic system, activated by a foot switch, offers hands free operation. This is the same principle for the hydraulic bending on M90 CUT.

HOSE CLAMPING SYSTEM

Recommended for skiving hoses over 2" (DN 50)

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SKIVING MACHINES

All Manuli skiving machines are equipped with the Plug'n Skive System which allows the quick and easy insertion of tools.

With the Plug n'Skive System no tools are needed to insert the skiving mandrel, simply push the mandrel into the locking system to unlock it, lift a knob and pull out the tool.

EXTERNAL SKIVING TOOLS

Depending on the machine and on customer needs, Manuli offers 3 types of external skiving tools:

ESE (EXTERNAL SKIVING ECONOMIC)

FOR MH SKY, M50 SKY AND M30 CUT & SKIVE

The ESE kit includes 10 mandrels: $\frac{1}{4}$ " , $\frac{5}{16}$ " , $\frac{3}{8}$ " , $\frac{1}{2}$ " , $\frac{5}{8}$ " , $\frac{3}{4}$ " , 1" , 1 $\frac{1}{4}$ " , 1 $\frac{1}{2}$ " , 2"

ESA (EXTERNAL SKIVING ADJUSTABLE)

FOR M205 SKY

The ESA kit includes 11 mandrels: $\frac{3}{16}$ " , $\frac{1}{4}$ " , $\frac{5}{16}$ " , $\frac{3}{8}$ " , $\frac{1}{2}$ " , $\frac{5}{8}$ " , $\frac{3}{4}$ " , 1" , 1 $\frac{1}{4}$ " , 1 $\frac{1}{2}$ " , 2"

ESA mandrels are also available in 2 $\frac{1}{2}$ " and 3"

ESP (EXTERNAL SKIVING PRODUCTION)

FOR M50 SKY AND M205 SKY

ESP tools are individual 'skiving heads' intended to be pre-set to the right depth and length for greater productivity. They are recommended for batch skiving operations and a second knife can be added for abrasion resistant covers.

ESP is available in: $\frac{3}{16}$ " , $\frac{1}{4}$ " , $\frac{5}{16}$ " , $\frac{3}{8}$ " , $\frac{1}{2}$ " , $\frac{5}{8}$ " , $\frac{3}{4}$ " , 1" , 1 $\frac{1}{4}$ " , 1 $\frac{1}{2}$ " , 2" , 2 $\frac{1}{2}$ " , 3"



ESE skiving tools

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INTERNAL SKIVING TOOLS

IS (INTERNAL SKIVING)

FOR ALL MACHINES

The IS kit includes 7 mandrels: $\frac{1}{2}$ " , $\frac{5}{8}$ " , $\frac{3}{4}$ " , 1" , $1\frac{1}{4}$ " , $1\frac{1}{2}$ " , 2"

They are also available in $\frac{3}{8}$ " , $2\frac{1}{2}$ " and 3"

The ring is heat treated to resist the abrasion of the hose wires.



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SAFE CRIMP SYSTEM (SCS)

DIGITAL CONTROL

SCS is the revolutionary expert system created to manage the crimping operations for Manuli hose assemblies. It includes the integration of the Manuli Hydraulics fluid connectors assembling parameters, allowing easy machine set-up and automated quality control of the assembling process for improved production consistency and safety.

Large OEM hose assembly productions in particular require increasingly high quality standards from suppliers. They need proven and certified systems and processes with measurable and repeatable parameters.

SCS is the answer.

SCS provides:

- Automated counting, mistake proofing, pressure control and quality control
- Automated crimp diameter set-up, according to hose selection and the required combination of fittings (insert and ferrule), with the Manuli crimp chart database embedded
- Pre-set calibration of the crimp diameter to compensate for instances of elastic rebound after the crimping operation
- Automatic measurement of the crimping diameter and crimping force, allowing for 100% quality checking and statistical data gathering
- Automated opening control to vary the opening process according to the requirements of the fitting geometry
- Possibility of progressive crimping (in steps rather than continuous) for use with tubing and thermoplastic hoses - Not suitable for rubber hose assemblies
- Possibility to program crimping sequences for elbows and straight fittings
- Assembly line identification (login / logout functions) to enhance traceability
- Maintenance alert for machine service
- Updates according to the latest Manuli crimping data for ongoing compliance with current requirements

Additionally, SCS creates and maintains a database of your assembling activities (including logs of recurrent and customised assemblies), recording the related control and custom parameters as well as personalised solutions.

SCS also provides an immediate alert for possible mistakes in production (eg: an incorrectly inserted fitting or an incomplete crimping operation). Mistakes are immediately detected and rejected by the system, minimising the possibility of the incorrect component being supplied to a customer.

SCS is available on all Manuli Hydraulics stand type crimp machines and on relevant new benchtop models.



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ELECTRONIC PANEL

A modern flat panel with electronic buttons, which includes maintenance functions essential for keeping the machine in good condition.

Maintenance functions include:

- **2 Counters:** 1 daily counter and 1 machine life counter
- **3 LED Indicator Lights:** 1 for daily maintenance, 1 for advanced maintenance and 1 for expert maintenance
- **Semi-automatic function:** The semi-automatic opening is ideal for serial assemblies as it can be adjusted specifically to allow the fitting to pass through the dies with minimal clearance, reducing the cycle time.



NUMERICAL VERNIER

AVAILABLE ON ALL MACHINES EXCEPT MHP 80

The ergonomic numerical vernier is the standard control system offered on Manuli machines.

This system is designed for machines used in repair workshops where assemblies are mostly composed of small batches. The crimping diameter is easily adjusted by a numerical vernier (2 colours highlighting mm and 0.1mm).

100 units on the dial change the crimping diameter by 1 mm. The adjustment of the crimping diameter can be controlled up to 1/100 mm. The counter is oriented toward the operator to provide high visibility. The unit also includes an end crimping light and a guard which is firmly fixed to the machine, protecting the vernier from damage.



From MB 137 to MB 350

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ELECTRICAL FOOT SWITCH (EFS)

AVAILABLE ON MACHINES FROM MB 137 PLUS TO GOLDENCRIMP 450 AND ALL STAND-TYPE MODELS

The electrical foot switch allows the operator to use both hands during the crimping process, increasing ease of use and improving safety.



MECHANICAL BACKSTOP (MBS)

AVAILABLE ON MACHINES FROM MB 240 TO MB 350 AND STAND-TYPE MODELS

The mechanical backstop allows quick positioning of the fittings in the crimp head. There is also an electronic version.

ERGONOMIC TABLE (ET)

AVAILABLE ON BENCHTOP CRIMPERS

Specifically designed for the MB 240 and MB 350 crimpers, the ergonomic table provides a perfect working height, complete access around the machine and a minimal footprint. The front hook and the shelf also provide storage facilities.



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ERGONOMIC QUICK CHANGE GUN

AVAILABLE ON ALL MACHINES EXCEPT MHP 80

This innovative quick change system is available on all electric crimping machines. The ergonomic quick change gun is ideal for maximising comfort and increasing productivity when changing die sets.

Fast, clean and ergonomic

An ergonomic quick change gun provides the ability to change all of the dies simultaneously. The die sets are organised and stored in die pods on the machine panel.

Easy and safe

The system is designed to be simple to use. Dies are changed in a static position to minimise the possibility of the die pins breaking.

