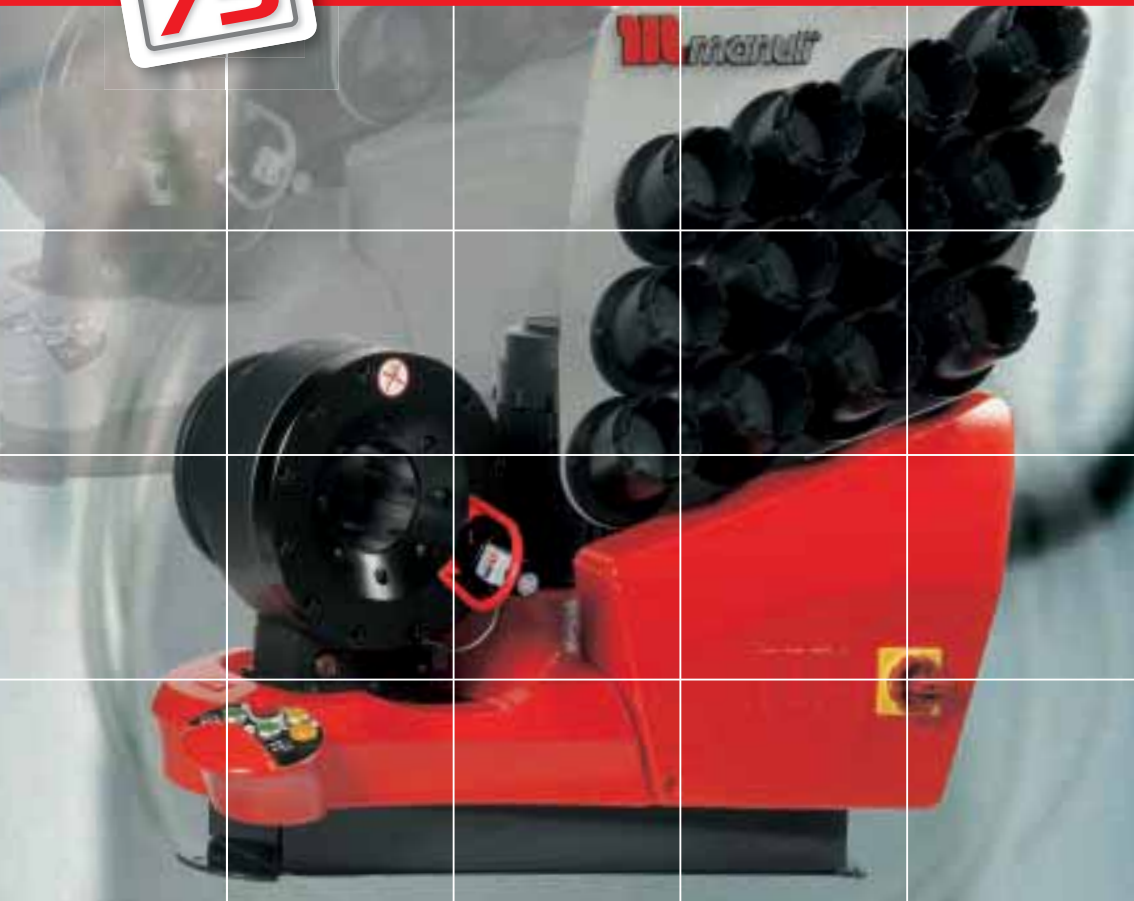


# ASSEMBLING MACHINES

1935-2010  
**75**<sup>o</sup>



Fluid connectors, solid solutions

**manuli**<sup>®</sup>  
HYDRAULICS

# ASSEMBLING MACHINES

## INTRODUCTION

GB

Manuli assembling machines are part of the complete product range and are designed according to high quality standards and optimised through the long Manuli experience in the hydraulic market.

Manuli assembling machines are recommended for high performance and safe hose assembling procedure.

Assembling machines are tested and approved with laboratory testing and field validated.

The Index offers a guideline to select the proper machine with reference to the applications and performance requested.

Special machines not included in the present catalogue are available upon request, as well as the original spare parts.

Manuli products have to be assembled strictly in accordance with Manuli instructions and limitations.

Don't mix and match: use always Manuli original couplings and hoses.

Manuli hose, couplings and assembling machines are tested as an effective and reliable system, the use of different products and machines may cause premature hose failures, property damages, serious injury or death.

**MANULI DISCLAIMS ANY WARRANTIES, EXPRESS OR IMPLIED, AND ASSUMES NO RESPONSIBILITY OR LIABILITY FOR ANY LOSS OR DAMAGE, WHETHER DIRECT, INDIRECT, CONSEQUENTIAL OR INCIDENTAL WHICH MIGHT ARISE OUT OF CRIMPED HOSE ASSEMBLIES NOT PRODUCED FROM GENUINE MANULI HOSE FITTINGS, HOSE AND EQUIPMENT, IN CONFORMANCE WITH MANULI PROCESS SPECIFICATIONS FOR EACH SPECIFIC HOSE ASSEMBLY.**

Manuli assembling informations chart is the only official guide to select proper hose and fittings combinations and determine crimping compatibility.

ES

Las máquinas ensambladoras son parte de un paquete integral ofrecido por Manuli, diseñadas y fabricadas acorde a los más altos estándares de calidad para asegurar un óptimo desempeño y seguridad para el operario en cumplimiento con las normas EC.

El uso de las máquinas ensambladoras Manuli es recomendado en un procedimiento adecuado de ensamble de mangueras, en concordancia con las instrucciones de los ensambles Manuli considerando aspectos de seguridad y requerimientos de la alta calidad de los conectores de fluidos.

Las máquinas son probadas y validadas en el campo con pruebas en el laboratorio.

El index ofrece una guía para la selección de la máquina adecuada para el uso específico requerido; de hecho la operación de un ensamble correcto está estrictamente asociada con las máquinas y el herramental utilizado.

Máquinas especiales no incluidas en este catálogo están disponibles bajo pedido así como los repuestos originales.

Los productos Manuli son parte de un sistema de ingeniería, los cuales deben ser ensamblados y usados siguiendo las instrucciones estrictas de Manuli.

No mezcle y combine: use siempre mangueras y conexiones originales Manuli.

Las mangueras, conexiones y máquinas de prensado están probadas como un sistema de ensamble seguro y efectivo y el uso con otros productos y/o máquinas de prensado quizá produzca ensambles fuera del comportamiento especificado. Procure seguir siempre cualquier instrucción o limitación de Manuli, el no hacerlo podría causar fallos en el ensamble, reportando daños, lesiones o muerte.

La garantía aplicará solo si el consumidor o usuario final usa manguera, conexiones, componentes de manguera, y equipo de crimpado debidamente probado y especificado por Manuli.

**MANULI RECHAZA CUALQUIER GARANTIA, EXPLICITA O IMPLICITA Y NO ASUME RESPONSABILIDAD ALGUNA POR PERDIDA O DAÑO YA SEA DIRECTO, INDIRECTO, CONCECUENCIAL O ACCIDENTAL DEBIDO A ENSAMBLES FUERA DE ESPECIFICACIONES Y EVIDENTEMENTE NO PRODUCIDOS CON MANGUERAS, CONEXIONES Y EQUIPO DE ENSAMBLE MANULI.**

La compatibilidad de mangueras y conexiones descritas en este catálogo es solamente para tomarse como referencia.

La tabla de instrucciones de prensado es la guía oficial para una apropiada selección de manguera y conexión, determinando la compatibilidad entre manguera y conexión.

D

Manuli Maschinen für die Schlauchleitungsherstellung sind ein Teil des umfassenden Produktprogramms welches Manuli anbietet und wurden mit dem höchsten Qualitätsstandard entwickelt und optimiert, welches auf die lange Erfahrung von Manuli auf dem Gebiet der Hydraulik basiert.

Alle Maschinen werden bei der Entwicklung strengen Labortests unterzogen und im Praxiseinsatz-Test (Feldtest) validiert.

Die Inhaltsübersichts-Seite bietet eine Anleitung zur Auswahl der geeigneten Maschine in Abhängigkeit der gewünschten Leistung und den Einsatzbedingungen.

Im vorliegenden Katalog nicht enthaltene Spezialmaschinen sind auf Anfrage erhältlich, ebenso wie alle original Ersatzteile auch.

Die Manuli Produkte gehören zu einem System, das im strengsten Einklang mit den von Manuli Rubber Industries definierten Hinweisen und Einsatzbedingungen angewendet werden muss.

Don't mix and match: Benutzen Sie immer Manuli Originalschläuche und -Armaturen..

Die Manuli Schläuche, Armaturen und Maschinen sind getestet worden, um ein zuverlässiges und effektives System zu garantieren; die Verwendung anderer Produkten und/oder Maschinen kann die Lebensdauer der Schlauchleitungen verringern sowie ernsthaften Gefahr für Geräte und/oder Personen verursachen.

MANULI RUBBER INDUSTRIES GEWÄHRT KEINE GARANTIE, WEDER EXPLIZIT NOCH IMPLIZIT UND ÜBERNIMMT KEINE ANDERE VERANTWORTUNG BZW. HAFTUNG FÜR VERLUSTE, SCHÄDEN UND KOSTEN, DIREKT ODER INDIREKT, RESULTIEREND AUS DER ANWENDUNG VON SCHLAUCHLEITUNGEN, DIE NICHT MIT ORIGINAL MANULI SCHLÄUCHEN, ARMATUREN UND MASCHINEN HERGESTELLT WORDEN SIND UND DIE NICHT DIE VON MANULI RUBBER INDUSTRIES DEFINIERTEN SPEZIFIKATIONEN FÜR JEDE SCHLAUCHLEITUNG EINHALTEN.

Die Manuli Pressmasstabelle ist das offizielle Dokument, um die Richtigkeit in der Auswahl und Einbindung von Schläuchen und Armaturen mit dem korrekten Pressmass zu garantieren.

IT

Le macchine per assemblaggio Manuli sono parte integrante della gamma di prodotti e sono disegnate secondo i più elevati standard qualitativi e sono ottimizzate grazie alla lunga esperienza maturata da MRI nel mercato idraulico.

Le macchine per assemblaggio Manuli sono raccomandate per alte performance e per una affidabile procedura di assemblaggio.

Le macchine per assemblaggio sono sviluppate e approvate con test di laboratorio e test sul campo.

L'indice offre indicazioni utili per selezionare la macchina idonea alle applicazioni e alla performance richieste.

Macchine speciali non incluse nel presente catalogo sono disponibili su richiesta, così come i relativi ricambi originali.

I prodotti Manuli devono essere assemblati seguendo strettamente le istruzioni e le limitazioni definite da Manuli Rubber industries.

Don't mix and match: utilizzare sempre tubi e raccordi originali Manuli.

I tubi, i raccordi e le macchine per assemblaggio Manuli sono testati al fine di garantire un sistema affidabile ed efficace; l'utilizzo di altri prodotti e/o altre macchine la prematura rottura delle tubazioni, seri danni a cose e/o persone o morte.

MANULI NON RICONOSCE ALCUN TIPO DI GARANZIA, IMPLICITA O ESPLICITA, E NON SI ASSUME ALCUN TIPO DI RESPONSABILITÀ PER QUALSIASI PERDITA O DANNO, DIRETTO, INDIRECTO, CONSEGUENTE O INCIDENTALI, CHE PUÒ AVVENIRE IN RELAZIONE ALL'UTILIZZO DI ASSEMBLATI PRODOTTI CON TUBI, RACCORDI E ACCESSORI NON ORIGINALI MANULI, E NON CONFORMI ALLE SPECIFICHE DI PROCESSO DEFINITE DA MANULI PER CIASCUN TIPO DI ASSEMBLATO.

Il poster Manuli assembling information è la guida ufficiale per selezionare le corrette combinazioni di tubi e raccordi e determinare la compatibilità di serraggio.

# ASSEMBLING MACHINES

## INDEX

### CRIMPING MACHINES

| MODEL      | MACHINE TYPE        | APPLICATION SECTOR         | MACHINE PERFORMANCE                                             | PAGE |
|------------|---------------------|----------------------------|-----------------------------------------------------------------|------|
| MHP80      | hand pump, portable | on-site repair             | manual machine for small sizes                                  | 792  |
| MHP137     | hand pump, portable | on-site repair             | manual machine for small/medium sizes                           | 794  |
| MB120 PLUS | benchtop            | after market service       | medium crimping force, small/medium sizes, limited productivity | 796  |
| MB137 PLUS | benchtop            | after market service       | medium crimping force, small/medium sizes, limited productivity | 798  |
| MB137S     | benchtop            | after market service       | medium crimping force, small/medium sizes, medium productivity  | 800  |
| MB240      | benchtop            | after market service       | medium crimping force, medium productivity                      | 802  |
| MB350      | benchtop            | after market service       | high crimping force, medium productivity, large size            | 804  |
| MV137      | for mobile van      | on-site repair mobile van  | medium crimping force, limited productivity                     | 806  |
| MV240      | for mobile van      | on-site repair mobile van  | medium crimping force, limited productivity                     | 808  |
| MS140      | stand-type          | assembling production unit | medium crimping force, high productivity                        | 810  |
| MS320      | stand-type          | assembling production unit | high crimping force, high productivity, large size              | 812  |
| MS400      | stand-type          | assembling production unit | very high crimping force, high productivity, very large opening | 814  |

### CUTTING MACHINES

| MODEL         | MACHINE TYPE | APPLICATION SECTOR   | MACHINE PERFORMANCE       | PAGE |
|---------------|--------------|----------------------|---------------------------|------|
| M22 CUT PLUS  | benchtop     | after market service | medium size capacity      | 816  |
| M22 CUT/BRUSH | benchtop     | after market service | wide hose range capacity  | 818  |
| M30 CUT PLUS  | benchtop     | after market service | wide hose range capacity  | 820  |
| M75 CUT       | stand-type   | production unit      | whole hose range capacity | 822  |
| M90 CUT       | stand-type   | production unit      | whole hose range capacity | 824  |

## SKIING MACHINES

| MODEL         | MACHINE TYPE | APPLICATION SECTOR   | MACHINE PERFORMANCE       | PAGE |
|---------------|--------------|----------------------|---------------------------|------|
| MH SKY PLUS   | benchtop     | after market service | wide hose range capacity  | 826  |
| M50 SKY PLUS  | benchtop     | after market service | wide hose range capacity  | 828  |
| M205 SKY PLUS | stand-type   | production unit      | whole hose range capacity | 830  |

## INSERT PUSHING MACHINES

| MODEL     | MACHINE TYPE | APPLICATION SECTOR | MACHINE PERFORMANCE       | PAGE |
|-----------|--------------|--------------------|---------------------------|------|
| M1500 INS | benchtop     | production unit    | whole hose range capacity | 832  |

## MARKING MACHINES

| MODEL    | MACHINE TYPE | APPLICATION SECTOR   | MACHINE PERFORMANCE      | PAGE |
|----------|--------------|----------------------|--------------------------|------|
| M50 MARK | benchtop     | after-market service | wide hose range capacity | 834  |

## PRESSURE TEST MACHINES

| MODEL   | MACHINE TYPE | APPLICATION SECTOR   | MACHINE PERFORMANCE      | PAGE |
|---------|--------------|----------------------|--------------------------|------|
| MTB1500 | stand-type   | after market service | wide hose range capacity | 836  |
| MTB2500 | stand-type   | after market service | wide hose range capacity | 838  |

# CRIMPING MACHINES

## PORTABLES

### MHP80

MANUAL CRIMPING - 1" 2WB

| TECHNICAL SPECIFICATION          |      |                     |
|----------------------------------|------|---------------------|
| Crimping range                   | mm   | 6 - 43              |
|                                  | inch | 0,236 - 1,693       |
| Opening with dies (die diameter) | mm   | +20                 |
|                                  | inch | +0,787              |
| Master die length                | mm   | 56                  |
|                                  | inch | 2,205               |
| Hand pump                        | psi  | 5000 (double speed) |
| Crimping force                   | T    | 80                  |
| Dimensions                       | mm   | 330 x 250 x 400     |
|                                  | inch | 13" x 10" x 16"     |
| Weight                           | kg   | 28                  |
|                                  | lbs  | 60                  |



**Compact ■ Light ■ Balanced and easy to handle ■ Cylinder protection with pads between the master dies ■ 350 bar technology: more robust than 700 bar ■ Dual stage pump**

Compacta ■ Fácil de manejar ■ Protección del cilindro con almohadillas entre las mordazas maestras ■ Tecnología 350 bar: más robusta que 700 bar ■ Bomba de doble fase

Kompakt ■ Leicht ■ Ausbalanciert und einfach zu handhaben ■ Zylinderschutz mit Polster zwischen den Hauptwerkzeugen, 350 bar Technologie: Robuster als 700 bar ■ Kombipumpe

Compatta ■ Leggera ■ Facile da maneggiare ■ Protezione del cilindro con imbottitura tra le sedi dei morsetti ■ Tecnologia 350 bar: più robusta rispetto ai 700 bar ■ Pompa a due stadi



**Possible limitations in case of double elbow fittings** / Limitación eventual para montaje de 2 conexiones 90°

Mögliche Einschränkungen bei doppelten Winkelanschlüssen / Possibili limitazioni in caso di raccordi a 2 curve

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | FITTING TYPE    | MAX. HOSE SIZE | REF. HOSES                                                                                                                       |
|---------------------------|-----------------|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | MF2000 Multifit | 1"             | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast, Spirtex/K |
| 4 wire spirals            | MF2000 Multifit | 1/2"           | Goldenspir/12 and /4SP, Rockmaster/12 and /4SP, Shieldmaster spiral (6000 DN 10 and 12)                                          |

| PRODUCT CODE  | DESCRIPTION           |
|---------------|-----------------------|
| EOA3110NMHP80 | MHP 80 (NO DIE)       |
| ESA3110NH80KT | 6 DIE SETS (15 to 30) |

**GB**

**MAIN APPLICATIONS:**

It is dedicated to repair shops or maintenance departments making few assemblies a day of small and medium size hoses. It is also ideal to carry out on-site repairs.

**DIE SET PACKAGE (to be ordered separately):**

6 die sets (15-18-21-24-27-30)

**ES**

**APLICACIONES PRINCIPALES:**

Para tiendas y departamentos de mantenimiento que hacen pocos ensambles al día de mangueras medianas y pequeñas. También es ideal para llevar a cabo las reparaciones en el sitio.

**JUEGO DE DADOS (pedir por separado):**

6 juegos de dados (15-18-21-24-27-30)

**D**

**HAUPTANWENDUNG:**

Für Reparaturwerkstätten oder Wartungsabteilungen, die nur wenige Bearbeitungen pro Tag an kleinen und mittleren Schlauchgrößen durchführen. Ideal auch für Reparaturen vor Ort.

**PRESSBACKENSATZ (getrennt zu bestellen):**

6 Pressbacken (15-18-21-24-27-30)

**IT**

**PRINCIPALI APPLICAZIONI:**

Dedicata a officine e reparti di manutenzione che realizzano pochi assemblati al giorno di tubi di piccolo/medio diametro. Ideale anche per riparazioni in loco.

**KIT DI MORSETTI (da ordinare separatamente):**

6 die sets (15-18-21-24-27-30)

# CRIMPING MACHINES

## PORTABLES

### MHP137

MANUAL CRIMPING - 1.1/4" 4WS

| TECHNICAL SPECIFICATION          |      |                     |
|----------------------------------|------|---------------------|
| Crimping range                   | mm   | 4 - 56              |
|                                  | inch | 0,157 - 2,205       |
| Opening with dies (die diameter) | mm   | +18                 |
|                                  | inch | +0,709              |
| Master die length                | mm   | 60                  |
|                                  | inch | 2,362               |
| Hand pump                        | psi  | 5000 (double speed) |
| Crimping force                   | T    | 137                 |
| Dimensions                       | mm   | 480 x 250 x 340     |
|                                  | inch | 19" x 10" x 13"     |
| Weight                           | kg   | 55                  |
|                                  | lbs  | 120                 |



**Compact ■ High crimping force for a manual machine ■ Short head ■ Micrometer and cylinder protection ■ 350 bar technology: more robust than 700 bar ■ Dual stage pump ■ Visual/sound signal when crimp size is reached**

Compacta ■ Alta fuerza de prensado para una máquina manual ■ Cabezal corto ■ Protección del micrómetro y cilindro ■ Tecnología 350 bar: más robusto que 700 bar ■ Bomba de doble fase ■ Señal visual/sonido cuando alcanza el tamaño del prensado

Kompakt ■ Hohe Presskraft trotz Handgerät ■ Kurzer Kopf. Mikrometer und Zylinderschutz, 350 bar Technologie: robuster als 700 bar ■ Kombipumpe ■ Visuelle/akustische Anzeige wenn Pressmaß erreicht ist

Compatta ■ Elevata forza di pressatura ■ Testa corta ■ Protezione del micrometro e del cilindro ■ Leggera ■ Tecnologia 350 bar: più robusta rispetto ai 700 bar ■ Pompa a due stadi ■ Segnale sonoro e visivo di fine serraggio



**Possible limitations in case of double elbow fittings** / Limitación eventual para montaje de 2 conexiones 90°

Mögliche Einschränkungen bei doppelten Winkelanschlüssen / Possibili limitazioni in caso di raccordi a 2 curve

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | FITTING TYPE                    | MAX. HOSE SIZE               | REF. HOSES                                                                                                                       |
|---------------------------|---------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | MF2000 Multifit                 | 1.1/4" with extra dies 45/51 | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast, Spirtex/K |
| 4 wire spirals            | MF2000 Multifit                 | 1.1/4" with extra dies 45/51 | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex                                                                         |
|                           | MF2000 Interlock Plus, Xtralock | 3/4"                         |                                                                                                                                  |



| PRODUCT CODE   | DESCRIPTION               |
|----------------|---------------------------|
| EOA3110NMHP137 | MHP 137 (NO DIE)          |
| ESA3220N120KT  | 6 DIE SETS KIT (15 to 39) |
| ESA3110SH37KT  | 9 DIE SETS KIT (15 to 45) |

**GB**

#### MAIN APPLICATIONS:

It is dedicated to repair shops or maintenance departments making few assemblies a day of small and medium size hoses. Can also be used in a vehicle for on-site repairs.

#### DIE SET PACKAGE (to be ordered separately):

6 die sets (15-18-21-27-33-39)

9 die sets (15-18-21-24-27-30-33-39-45)

**ES**

#### APLICACIONES PRINCIPALES:

Para tiendas y departamento de mantenimiento que hacen pocos ensambles al día de mangueras medianas y pequeñas. También se puede usar en un vehículo para reparaciones en el sitio.

#### JUEGO DE DADOS (pedir por separado):

6 juegos de dados (15-18-21-27-33-39)

9 juegos de dados (15-18-21-24-27-30-33-39-45)

**D**

#### HAUPTANWENDUNG:

Für Reparaturwerkstätten oder Wartungsabteilungen, die nur wenige Bearbeitungen pro Tag an kleinen und mittleren Schlauchgrößen durchführen. Kann auch für Reparaturen in einem Fahrzeug eingesetzt werden.

#### PRESSBACKENSÄTZE (getrennt zu bestellen):

6er Backensatz (15-18-21-27-33-39)

9er Backensatz (15-18-21-24-27-30-33-39-45)

**IT**

#### PRINCIPALI APPLICAZIONI:

Dedicata a officine e reparti di manutenzione che realizzano pochi assemblati al giorno di tubi di piccolo/medio diametro. Ideale anche per riparazioni in loco.

#### KIT DI MORSETTI (da ordinare separatamente):

6 die sets (15-18-21-27-33-39)

9 die sets (15-18-21-24-27-30-33-39-45)

# CRIMPING MACHINES

## BENCHTOPS

### MB120 PLUS

WORKSHOP CRIMPING - 1.1/4" 2WB

| TECHNICAL SPECIFICATION          |      |                     |
|----------------------------------|------|---------------------|
| Crimping range                   | mm   | 4 - 56              |
|                                  | inch | 0,157 - 2,205       |
| Opening with dies (die diameter) | mm   | +18                 |
|                                  | inch | +0,709              |
| Master die length                | mm   | 60                  |
|                                  | inch | 2,362               |
| Motor                            | kW   | 2,2                 |
| Standard voltage                 |      | 400V 3ph            |
| Optional voltage                 |      | 220V 1ph - 220V 3ph |
| Crimping force                   | T    | 120                 |
| Number of crimping/hour          |      | 500                 |
| Noise level                      | dB A | 72                  |
| Motor protection class           | IP   | 55                  |
| Dimensions                       | mm   | 625 x 595 x 650     |
|                                  | inch | 25" x 24" x 26"     |
| Weight                           | kg   | 95                  |
|                                  | lbs  | 210                 |



**Compact ■ Short head ■ Micrometer and cylinder protection ■ Integrated die storage ■ Low weight ■ Standard voltage either 3 phases or single phase**

Compacta ■ Cabezal corto ■ Protección del micrómetro y cilindro ■ Porta mordazas integrado ■ Bajo peso ■ Voltaje estándar 3 ó 1 fase

Kompakt ■ Kurzer Kopf ■ Mikrometer und Zylinderschutz, integrierte Aufbewahrung der Pressbacken ■ Geringes Gewicht, Standardspannung dreiphasig oder einphasig

Compatta ■ Testa corta ■ Protezione micrometro e cilindro ■ Porta morsetti integrato ■ Leggera ■ Voltaggio standard sia trifase che ad una fase



**Possible limitations in case of double elbow fittings / Limitación eventual para montaje de 2 conexiones 90°**

Mögliche Einschränkungen bei doppelten Winkelanschlüssen / Possibili limitazioni in caso di raccordi a 2 curve

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | FITTING TYPE                    | MAX. HOSE SIZE               | REF. HOSES                                                                                                                       |
|---------------------------|---------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | MF2000 Multifit                 | 1.1/4" with extra dies 45/51 | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast, Spirtex/K |
| 4 wire spirals            | MF2000 Multifit                 | 1"                           | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex                                                                         |
|                           | MF2000 Interlock Plus, Xtralock | 3/4"                         |                                                                                                                                  |

| PRODUCT CODE    | DESCRIPTION                         |
|-----------------|-------------------------------------|
| EOA3223NMB120   | MB 120 - 220V 1PH 50HZ (NO DIE)     |
| EOA3224NMB120   | MB 120 - 380V 3PH 50HZ (NO DIE)     |
| EOA3225NMB120   | MB 120 - 110V 1PH 60HZ (NO DIE)     |
| EOA3226NMB120   | MB 120 - 220V 3PH 50/60 HZ (NO DIE) |
| ESA3220N120KT   | 6 DIE SETS (15 to 39)               |
| ESA3220NET      | ERGONOMIC TABLE                     |
| ESA3220N120EQCG | ERGONOMIC QUICK CHANGE GUN          |

**GB**

### MAIN APPLICATIONS:

It is dedicated to repair shops or maintenance departments making few assemblies a day of small and medium size hoses. Can also be used in a vehicle fed by a generator.

### DIE SET PACKAGE (to be ordered separately):

6 die sets (15-18-21-27-33-39)

### OPTIONAL TOOLS:

Ergonomic Quick Change Gun (EQCG), Ergonomic table (ET)

**ES**

### APLICACIONES PRINCIPALES:

Para tiendas de reparación o departamentos de mantenimientos que hacen algunos ensambles al día de mangueras medianas y pequeñas. También se puede usar en un vehículo alimentado por un generador.

### JUEGO DE DADOS (pedir por separado):

6 juegos de dados (15-18-21-27-33-39)

### HERRAMIENTAS OPCIONALES:

Pistola de Cambio Rápido (QCG), Mesa ergonómica (ET)

**D**

### HAUPTANWENDUNG:

Für Reparaturwerkstätten oder Wartungsabteilungen, die nur wenige Bearbeitungen pro Tag an kleinen und mittleren Schlauchgrößen durchführen. Kann auch für Reparaturen in einem Fahrzeug mit Speisung durch einen Generator eingesetzt werden.

### PRESSBACKENSÄTZE (getrennt zu bestellen):

6er Backensatz (15-18-21-27-33-39)

### OPTIONALE WERKZEUGE:

Schnellwechsellpistole (QCG), Ergonomischer Tisch (ET)

**IT**

### PRINCIPALI APPLICAZIONI:

Dedicata a officine e reparti di manutenzione che realizzano pochi assemblati al giorno di tubi di piccolo/medio diametro. Utilizzabile anche su un veicolo alimentata da generatore.

### KIT MORSETTI (da ordinare separatamente):

6 die sets (15-18-21-27-33-39)

### ACCESSORI OPZIONALI:

Pistola per cambio rapido dei morsetti (QCG), Tavolo Ergonomico (ET)

# CRIMPING MACHINES

## BENCHTOPS

### MB137 PLUS

WORKSHOP CRIMPING - 1.1/4" 4WS

| TECHNICAL SPECIFICATION          |      |                     |
|----------------------------------|------|---------------------|
| Crimping range                   | mm   | 4 - 56              |
|                                  | inch | 0,157 - 2,205       |
| Opening with dies (die diameter) | mm   | +28                 |
|                                  | inch | +1,102              |
| Master die length                | mm   | 75                  |
|                                  | inch | 2,952               |
| Motor                            | kW   | 2,2                 |
| Standard voltage                 |      | 400V 3ph            |
| Optional voltage                 |      | 220V 1ph - 220V 3ph |
| Crimping force                   | T    | 137                 |
| Number of crimping/hour          |      | 500                 |
| Noise level                      | dB A | 72                  |
| Motor protection class           | IP   | 55                  |
| Dimensions                       | mm   | 625 x 595 x 650     |
|                                  | inch | 25" x 24" x 26"     |
| Weight                           | kg   | 100                 |
|                                  | lbs  | 220                 |



 **Compact ■ Short head ■ Micrometer and cylinder protection ■ Large opening Integrated die storage ■ Low weight ■ Available in 12V or 24V (MV 137)**

Compacta ■ Cabezal corto ■ Protección del micrómetro y cilindro ■ Apertura grande ■ Porta mordazas integrado ■ Bajo peso ■ Disponible en 12V ó 24V (MV 137)

Kompakt ■ Kurzer Kopf ■ Mikrometer und Zylinderschutz, integrierte Aufbewahrung der Pressbacken ■ Geringes Gewicht, 12V - oder 24V (MV 137)

Compatta ■ Testa corta ■ Protezione micrometro e cilindro ■ Ampia apertura ■ Porta morsetti integrato ■ Leggera ■ Disponibile con voltaggio a 12V o 24V (MV 137)



**Possible limitations in case of double elbow fittings** / Limitación eventual para montaje de 2 conexiones 90°

Mögliche Einschränkungen bei doppelten Winkelanschlüssen / Possibili limitazioni in caso di raccordi a 2 curve

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | FITTING TYPE                    | MAX. HOSE SIZE | REF. HOSES                                                                                                                       |
|---------------------------|---------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | MF2000 Multifit                 | 1.1/4"         | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast, Spirtex/K |
| 4 wire spirals            | MF2000 Multifit                 | 1.1/4"         | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex                                                                         |
|                           | MF2000 Interlock Plus, Xtralock | 3/4"           |                                                                                                                                  |

| PRODUCT CODE    | DESCRIPTION                      |
|-----------------|----------------------------------|
| EOA3223NMB137   | MB 137-2 220 V 1PH 50HZ (NO DIE) |
| EOA3224NMB137   | MB 137-2 380V 3PH 50HZ (NO DIE)  |
| EOA3226NMB137   | MB 137-2 220 V 3PH 50HZ (NO DIE) |
| ESA3220N137KT   | 10 DIE SETS (15 to 48)           |
| ESA3220N137EQCG | ERGONOMIC QUICK CHANGE GUN       |
| ESA3220NET      | ERGONOMIC TABLE                  |

**GB**

#### MAIN APPLICATIONS:

It is dedicated to maintenance departments or repair shops as well as hose distributors.

#### DIE SET PACKAGE (to be ordered separately):

10 die sets (15-18-21-24-27-30-33-39-45-48)

#### OPTIONAL TOOLS:

Quick Change Gun (QCG), Ergonomic Table (ET)

**ES**

#### APLICACIONES PRINCIPALES:

Para departamento de mantenimiento o tiendas de reparación y también para distribuidores de manguera.

#### JUEGO DE DADOS (pedir por separado):

10 juegos de dados (15-18-21-24-27-30-33-39-45-48)

#### HERRAMIENTAS OPCIONALES:

Pistola de Cambio Rápido (QCG), Mesa Ergonómica (ET)

**D**

#### HAUPTANWENDUNG:

Für Wartungsabteilungen oder Reparaturwerkstätten sowie Fachhändler für Schläuche.

#### PRESSBACKENSÄTZE (getrennt zu bestellen):

10er Backensatz (15-18-21-24-27-30-33-39-45-48)

#### OPTIONALE WERKZEUGE:

Schnellwechsellpistole (Quick Change Gun - QCG), Ergonomischer Tisch (ET)

**IT**

#### PRINCIPALI APPLICAZIONI:

Dedicata a officine, reparti di manutenzione e distributori.

#### KIT MORSETTI (da ordinare separatamente):

10 die sets (15-18-21-24-27-30-33-39-45-48)

#### ACCESSORI OPZIONALI:

Pistola per cambio rapido dei morsetti (QCG), Tavolo Ergonomico (ET)

# CRIMPING MACHINES

## BENCHTOPS

### MB137S

WORKSHOP CRIMPING - 1.1/4" 4WS

| TECHNICAL SPECIFICATION          |      |                     |
|----------------------------------|------|---------------------|
| Crimping range                   | mm   | 4 - 56              |
|                                  | inch | 0,157 - 2,205       |
| Opening with dies (die diameter) | mm   | +28                 |
|                                  | inch | +1,102              |
| Master die length                | mm   | 75                  |
|                                  | inch | 2,952               |
| Motor                            | kW   | 3                   |
| Standard voltage                 |      | 400V 3ph            |
| Optional voltage                 |      | 220V 1ph - 220V 3ph |
| Crimping force                   | T    | 137                 |
| Number of crimping/hour          |      | 850                 |
| Noise level                      | dB A | 66                  |
| Motor protection class           | IP   | 55                  |
| Dimensions                       | mm   | 1130 x 670 x 1200   |
|                                  | inch | 45" x 26" x 47"     |
| Weight                           | kg   | 130                 |
|                                  | lbs  | 290                 |



**Highly ergonomic machine ■ Integrated Manuli crimping chart ■ Compact ■ Short head ■ Micrometer and cylinder protection  
Large opening ■ Easy die set up with Quick Change Gun (QCG) ■ Higher speed than MB137**

Máquina muy ergonómica ■ Tabla de prensado Manuli integrada ■ Compacta ■ Cabezal corto ■ Protección del micrómetro y cilindro ■  
Apertura grande ■ Fácil cambio con la Pistola de Cambio Rápido (QCG) ■ Más rápida que MB137

Hohergonomische Maschine ■ Integrierte Manuli-Pressmaßtabelle ■ Kompakt ■ Kurzer Kopf ■ Mikrometer und Zylinderschutz Große Öffnung  
■ Schnelles Rüsten mit Schnellwechsellpistole (QCG) ■ Höhere Geschwindigkeit als MB137

Macchina altamente ergonomica ■ Manuli crimping chart integrata ■ Compatta ■ Testa corta ■ Protezione micrometro e cilindro ■ Ampia apertura  
■ Facile sostituzione dei morsetti grazie alla pistola per il cambio rapido (QCG) ■ Più veloce della MB137



**Possible limitations in case of double elbow fittings / Limitación eventual para montaje de 2 conexiones 90°**

Mögliche Einschränkungen bei doppelten Winkelanschlüssen / Possibili limitazioni in caso di raccordi a 2 curve

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | FITTING TYPE                    | MAX. HOSE SIZE | REF. HOSES                                                                                                                       |
|---------------------------|---------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | MF2000 Multifit                 | 1.1/4"         | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast, Spirtex/K |
| 4 wire spirals            | MF2000 Multifit                 | 1.1/4"         | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex                                                                         |
|                           | MF2000 Interlock Plus, Xtralock | 3/4"           |                                                                                                                                  |

| PRODUCT CODE    | DESCRIPTION                       |
|-----------------|-----------------------------------|
| EOA3223NMB137S  | MB 137 S-2 220V 1PH 50HZ (NO DIE) |
| EOA3224NMB137S  | MB 137 S-2 380V 3PH 50HZ (NO DIE) |
| EOA3226NMB137S  | MB 137 S-2 220V 3PH 50HZ (NO DIE) |
| ESA3220N137KT   | 10 DIE SETS (15 to 48)            |
| ESA3220N137EQCG | ERGONOMIC QUICK CHANGE GUN        |
| ESA3220NET      | ERGONOMIC TABLE                   |
| ESA3220NTCB     | TECH CARE BOX                     |
| ESA3220N137FS   | SINGLE FOOT SWITCH (EFS)          |

**GB**

### MAIN APPLICATIONS:

It is dedicated to maintenance departments or repair shops as well as hose distributors.

### DIE SET PACKAGE (to be ordered separately):

10 die sets (15-18-21-24-27-30-33-39-45-48)

### OPTIONAL TOOLS:

Ergonomic Table (ET), Electrical Foot Switch (EFS), Quick Change Gun (QCG), Tech'Care Box (TCB)

**ES**

### APLICACIONES PRINCIPALES:

Para departamento de mantenimiento o tiendas de reparación y también para distribuidores de manguera.

### JUEGO DE DADOS (pedir por separado):

10 juegos de dados (15-18-21-24-27-30-33-39-45-48)

### HERRAMIENTAS OPCIONALES:

Mesa Ergonómica (ET), Pedal Eléctrico (EFS), Pistola de Cambio Rápido (QCG), Caja Tech'Care (TCB)

**D**

### HAUPTANWENDUNG:

Für Wartungsabteilungen oder Reparaturwerkstätten sowie Fachhändler für Schläuche.

### PRESSBACKENSÄTZE (getrennt zu bestellen):

10er Backensatz (15-18-21-24-27-30-33-39-45-48)

### OPTIONALE WERKZEUGE:

Ergonomische Ablage (ET), Elektrischer Fußschalter (Electrical Foot Switch - EFS), Schnellwechselfistole (QCG), Tech'Care Box (TCB)

**IT**

### PRINCIPALI APPLICAZIONI:

Dedicata a officine, reparti di manutenzione e distributori.

### KIT MORSETTI (da ordinare separatamente):

10 die sets (15-18-21-24-27-30-33-39-45-48)

### ACCESSORI OPZIONALI:

Tavolo ergonomico (ET), Comando a pedale elettrico (EFS), Pistola per cambio rapido dei morsetti (QCG), Tech'Care Box (TCB)

# CRIMPING MACHINES

## BENCHTOPS

### MB240

WORKSHOP CRIMPING - 2" 4WS

#### TECHNICAL SPECIFICATION

|                                  |      |                     |
|----------------------------------|------|---------------------|
| Crimping range                   | mm   | 4 - 76              |
|                                  | inch | 0,157 - 2,992       |
| Opening with dies (die diameter) | mm   | +38                 |
|                                  | inch | +1,496              |
| Master die length                | mm   | 100                 |
|                                  | inch | 3,937               |
| Motor                            | kW   | 4                   |
| Standard voltage                 |      | 400V 3ph            |
| Optional voltage                 |      | 220V 1ph - 220V 3ph |
| Crimping force                   | T    | 240                 |
| Number of crimping/hour          |      | 625                 |
| Noise level                      | dB A | 66                  |
| Motor protection class           | IP   | 55                  |
| Dimensions                       | mm   | 1130 x 670 x 1200   |
|                                  | inch | 45" x 26" x 47"     |
| Weight                           | kg   | 190                 |
|                                  | lbs  | 418                 |



Highly ergonomic machine ■ Integrated Manuli crimping chart ■ Compact ■ Narrow head ■ Large opening ■ High crimp force ■ Die radial movement ■ Micrometer and cylinder protection ■ Security by-pass in case of incorrect die choice ■ Easy die set up with Quick Change Gun (QCG) ■ Available in 12V or 24V (MV240)

Máquina muy ergonómica ■ Tabla de prensado Manuli integrada ■ Compacta ■ Cabezal estrecho ■ Apertura grande ■ Gran fuerza de prensado ■ Mordaza de movimiento radial ■ Protección del micrómetro y cilindro ■ By-pass de seguridad en caso de mordaza incorrecta ■ Fácil cambio con la Pistola de Cambio Rápido (QCG) ■ Disponible en 12V ó 24V (MV240)

Hochergonomische Maschine ■ Integrierte Manuli-Pressmaßtabelle ■ Kompakt ■ Schmäler Kopf ■ Große Öffnung ■ Hohe Presskraft ■ Radiale Bewegung der Pressbacken ■ Mikrometer und Zylinderschutz ■ Sicherheit bei falscher Pressbackenauswahl ■ Schnelles Rüsten mit Schnellwechselepistole (QCG) ■ Geringes Gewicht, 12V - oder 24V (MV240)

Macchina altamente ergonomica ■ Manuli crimping chart integrata ■ Compatta ■ Testa stretta ■ Ampia apertura ■ Elevata forza di serraggio ■ morsetti con movimento radiale ■ Protezione micrometro e cilindro ■ By-pass di sicurezza in caso di errata scelta dei morsetti ■ Facile sostituzione dei morsetti grazie alla pistola per il cambio rapido (QCG) ■ Disponibile con voltaggio a 12V o 24V (MV240)



Possible limitations in case of double elbow fittings / Limitación eventual para montaje de 2 conexiones 90°

Mögliche Einschränkungen bei doppelten Winkelanschlüssen / Possibili limitazioni in caso di raccordi a 2 curve



### HOSE AND FITTING SELECTION

| HOSE TYPE                 | FITTING TYPE                    | MAX. HOSE SIZE | REF. HOSES                                                                                                                       |
|---------------------------|---------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | MF2000 Multifit                 | 2"             | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast, Spirtex/K |
| 4 wire spirals            | MF2000 Multifit                 | 2"             | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex                                                                         |
|                           | MF2000 Interlock Plus, Xtralock | 1,1/4"         |                                                                                                                                  |
| 6 wire spirals            | MF2000 Interlock Plus, Xtralock | 1"             | Diamondspir, Goldenblast/six                                                                                                     |

| PRODUCT CODE    | DESCRIPTION                     |
|-----------------|---------------------------------|
| EOA3323NMB240   | MB 240-2 220V 1PH 50HZ (NO DIE) |
| EOA3324NMB240   | MB 240-2 380V 3PH 50HZ (NO DIE) |
| EOA3326NMB240   | MB 240-2 220V 3PH 50HZ (NO DIE) |
| ESA3320N240KT   | 12 DIE SETS (15 to 66)          |
| ESA3320NMB524   | MECHANICAL BACK STOP (MBS)      |
| ESA3321NEBS24   | ELECTRICAL BACK STOP (EBS)      |
| ESA3220N137EQCG | ERGONOMIC QUICK CHANGE GUN      |
| ESA3220NET      | ERGONOMIC TABLE                 |
| ESA3220NTCB     | TECH CARE BOX                   |
| ESA3220N137FS   | SINGLE FOOT SWITCH (EFS)        |

**GB**

#### MAIN APPLICATIONS:

It is dedicated to hydraulic maintenance specialists working on medium size machines and equipment. It is also suitable for assemblers involved on medium size hoses and quantities.

#### DIE SET PACKAGE (to be ordered separately):

12 die sets (15-18-21-24-27-30-33-39-45-51-57-66)

#### OPTIONAL TOOLS:

Ergonomic Table (ET), Mechanical (MBS) or Electrical (EBS) Backstop, Electrical Foot Switch (EFS), Quick Change Gun (QCG), Tech'Care Box (TCB)

**ES**

#### APLICACIONES PRINCIPALES:

Para especialistas de mantenimiento hidráulico en máquina y equipos de tamaño mediano. También es conveniente para ensambladores involucrados en tamaños de manguera y cantidades medianas.

#### JUEGO DE DADOS (pedir por separado):

12 juegos de dados (15-18-21-24-27-30-33-39-45-51-57-66)

#### HERRAMIENTAS OPCIONALES:

Mesa Ergonómica (ET), Tope Trasero Mecánico (MBS) o Eléctrico (EBS), Pie Eléctrico (EFS), Pistola de Cambio Rápido (QCG), Caja Tech'Care (TCB)

**D**

#### HAUPTANWENDUNG:

Speziell für Hydraulikwartungsspezialisten die mit mittleren Pressen arbeiten. Auch geeignet für Schlauchfertiger mit mittelgroßen Schläuchen und durchschnittlichen Mengen.

#### PRESSBACKENSÄTZE (getrennt zu bestellen):

12er Backensatz (15-18-21-24-27-30-33-39-45-51-57-66)

#### OPTIONALE WERKZEUGE:

Ergonomischer Ablage (ET), Mechanische (MBS) oder Elektrische (EBS) Tiefenanschlag, Elektrischer Fußschalter (EFS), Schnellwechselfistole (QCG), Tech'Care Box (TCB)

**IT**

#### PRINCIPALI APPLICAZIONI:

Dedicata agli specialisti di manutenzione idraulica che lavorano su macchine ed equipaggiamenti di medie dimensioni. Ideale anche per assemblati di medie dimensioni e quantità.

#### KIT MORSETTI (da ordinare separatamente):

12 die sets (15-18-21-24-27-30-33-39-45-51-57-66)

#### ACCESSORI OPZIONALI:

Tavolo ergonomico (ET), Sistema di blocco meccanico (MBS) o elettrico (EBS), Comando a pedale elettrico (EFS), Pistola per cambio rapido dei morsetti (QCG), Tech'Care Box (TCB)

# CRIMPING MACHINES

## BENCHTOPS

### MB350

WORKSHOP CRIMPING - 2" 6SP

#### TECHNICAL SPECIFICATION

|                                  |      |                     |
|----------------------------------|------|---------------------|
| Crimping range                   | mm   | 4 - 130             |
|                                  | inch | 0,157 - 2,205       |
| Opening with dies (die diameter) | mm   | +54                 |
|                                  | inch | +2,126              |
| Master die length                | mm   | 115                 |
|                                  | inch | 3,937               |
| Motor                            | kW   | 5,5                 |
| Standard voltage                 |      | 400V 3ph            |
| Optional voltage                 |      | 220V 1ph - 220V 3ph |
| Crimping force                   | T    | 350                 |
| Number of crimping/hour          |      | 850                 |
| Noise level                      | dB A | 68                  |
| Motor protection class           | IP   | 55                  |
| Dimensions                       | mm   | 1130 x 670 x 1200   |
|                                  | inch | 45" x 26" x 47"     |
| Weight                           | kg   | 280                 |
|                                  | lbs  | 418                 |



**Highly ergonomic machine ■ Integrated Manuli crimping chart ■ Large opening ■ High crimp force (suitable for R13/15 hoses) ■ Radial movement of the dies ■ Micrometer and cylinder protection ■ By-pass security in case of incorrect die choice ■ Large dies available for industrial hoses ■ Easy die set up with Quick Change Gun (QCG) ■ MB350L machine type available with lower speed compared to MB350 (4 kW motor, 550 crimping/hour) ■ Groove on the front flange for elbow fittings**

Máquina muy ergonómica ■ Tabla de prensado Manuli integrada ■ Apertura larga ■ Alta fuerza del prensado (conveniente para las mangueras R13/15) ■ Movimiento radial de las mordazas ■ Protección del micrómetro y cilindro ■ By-pass de seguridad en caso de mordazas incorrecta ■ Mordazas largas disponibles para mangueras industriales ■ Fácil cambio con la Pistola de Cambio Rápido (QCG) ■ Tipo MB350L disponible con velocidad lenta comparado con MB350 (motor 5,5 hp / 4 kW, 550 prensados/hora) ■ Ranura en el cabezal para terminales curvados

Hohergonomische Maschine ■ Integrierte Manuli-Pressmaßtabelle ■ Große Öffnung ■ Hohe Presskraft (geeignet für R13/15 Schläuche) ■ Radiale Bewegung der Pressbacken ■ Mikrometer und Zylinderschutz ■ Sicherheit bei falscher Werkzeugauswahl ■ Große -Backen für Industrieschläuche verfügbar ■ Schnelles Rüsten mit Schnellwechsellpistole (QCG) ■ MB350L- Maschinentyp verfügbar mit geringerer Geschwindigkeit im Vergleich zu MB350 (5,5 PS / 4 kW-Motor, 550 Pressvorgänge/Stunde) ■ Aussparung auf der Vorderseite für Winkelarmaturen

Macchina altamente ergonomica ■ Manuli crimping chart integrata ■ Ampia apertura ■ Elevata forza di serraggio (ideale per tubi R13/R15) ■ morsetti con movimento radiale ■ Protezione micrometro e cilindro ■ By-pas di sicurezza in caso di errata scelta dei morsetti ■ Disponibili morsetti per tubi industriali di grande diametro ■ Facile sostituzione dei morsetti grazie alla pistola per il cambio rapido (QCG) ■ Disponibile anche nella versione a velocità ridotta MB350 (motore 5,5 hp / 4 Kw, 550 serraggi/ora) ■ Scanalatura nella flangia frontale per raccordi curvati



**Possible limitations in case of double elbow fittings / Limitación eventual para montaje de 2 conexiones 90°**

Mögliche Einschränkungen bei doppelten Winkelanschlüssen / Possibili limitazioni in caso di raccordi a 2 curve

### HOSE AND FITTING SELECTION

| HOSE TYPE                   | FITTING TYPE                    | MAX. HOSE SIZE     | REF. HOSES                                                                                                                       |
|-----------------------------|---------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile   | MF2000 Multifit                 | 3" with extra dies | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast, Spirtex/K |
| 4 wire spirals              | MF2000 Multifit                 | 2"                 | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex                                                                         |
|                             | MF2000 Interlock Plus, Xtralock |                    |                                                                                                                                  |
| 6 wire spirals              | MF2000 Interlock Plus, Xtralock | 2"                 | Diamondspir up to 2", Goldenblast/six, Rockmaster/13 and 15                                                                      |
| 1-2 wire braids and textile | Varios                          | 4"                 | Industrial hoses, Spirtex and others                                                                                             |

| PRODUCT CODE    | DESCRIPTION                      |
|-----------------|----------------------------------|
| EOA3334NMB350   | MB 350 380V 3PH 50HZ (NO DIE)    |
| EOA3334NMB350L  | MB 350L 380V 3PH 50HZ (NO DIE)   |
| EOA3337NMB350   | MB 350 220V 3PH 50HZ (NO DIE)    |
| EOA3337NMB350L  | MB 350L 220V 3PH 50HZ (NO DIE)   |
| EOA3338NMB350   | MB 350 220V 1PH 60HZ (NO DIE)    |
| ESA3330N340KT   | 13 DIE SETS (15 to 73)           |
| ESA3220N137EQCG | ERGONOMIC QUICK CHANGE GUN       |
| ESA3220NET      | ERGONOMIC TABLE                  |
| ESA3220NTCB     | TECH CARE BOX                    |
| ESA3220N137FS   | SINGLE FOOT SWITCH (EFS)         |
| ESA3430NMB354   | MB 350 MECHANICAL BACKSTOP (MBS) |
| ESA3431NEBS34   | MB 350 ELECTRIC BACKSTOP (EBS)   |

**GB**

#### MAIN APPLICATIONS:

It is dedicated to hydraulic maintenance specialists working on medium and large size machines and equipments. It is also suitable for small OEM supplies.

#### DIE SET PACKAGE (to be ordered separately):

13 die sets (15-18-21-24-27-30-33-39-45-51-57-66-73)

#### OPTIONAL TOOLS:

Ergonomic Table (ET), Mechanical (MBS) or Electrical (EBS) Backstop, Electrical Foot Switch (EFS), Quick Change Gun (QCG), Tech'Care Box (TCB)

**ES**

#### APLICACIONES PRINCIPALES:

Para especialistas de mantenimiento hidráulico en máquinas y equipos de tamaño mediano y grande.

También es conveniente para suministrar a pequeños OEM.

#### JUEGO DE DADOS (pedir por separado):

13 juegos de dados (15-18-21-24-27-30-33-39-45-51-57-66-73)

#### HERRAMIENTAS OPCIONALES:

Mesa Ergonómica (ET), Tope Trasero Mecánico (MBS) o Eléctrico (EBS), Pie Eléctrico (EFS), Pistola de Cambio Rápido (QCG), Caja Tech'Care (TCB)

**D**

#### HAUPTANWENDUNG:

Speziell für Hydraulikwartungsspezialisten die mit mittelgroßen bis großen Pressen arbeiten. Auch geeignet für kleine OEM-Lieferungen.

#### PRESSBACKENSÄTZE (getrennt zu bestellen):

13er Backensatz (15-18-21-24-27-30-33-39-45-51-57-66-73)

#### OPTIONALE WERKZEUGE:

Ergonomischer Ablage (ET), Mechanische (MBS) oder Elektrische (EBS) Tiefenanschlag, Elektrischer Fußschalter (EFS), Schnellwechselfistole (QCG), Tech'Care Box (TCB)

**IT**

#### PRINCIPALI APPLICAZIONI:

Dedicata agli specialisti della manutenzione idraulica che lavorano su macchine ed equipaggiamenti di medie e grandi dimensioni. Ideale anche per piccoli fornitori OEM.

#### KIT MORSETTI (da ordinare separatamente):

13 die sets (15-18-21-24-27-30-33-39-45-51-57-66-73)

#### ACCESSORI OPZIONALI:

Tavolo ergonomico (ET), Sistema di blocco meccanico (MBS) o elettrico (EBS), Comando a pedale elettrico (EFS), Pistola per cambio rapido dei morsetti (QCG), Tech'Care Box (TCB)

# CRIMPING MACHINES

## MOBILE VAN

### MV137

ELECTRIC MOBILE CRIMPING - 1.1/4" 4WS

| TECHNICAL SPECIFICATION          |      |                 |
|----------------------------------|------|-----------------|
| Crimping range                   | mm   | 4 - 56          |
|                                  | inch | 0,157 - 2,205   |
| Opening with dies (die diameter) | mm   | +28             |
|                                  | inch | +1,102          |
| Master die length                | mm   | 75              |
|                                  | inch | 2,952           |
| Motor                            | kW   | 2               |
| Standard voltage                 |      | 12V dc          |
| Optional voltage                 |      | 24V dc          |
| Crimping force                   | T    | 137             |
| Number of crimping/hour          |      | n/a             |
| Noise level                      | dB A | 72              |
| Motor protection class           | IP   | 55              |
| Dimensions                       | mm   | 480 x 370 x 450 |
|                                  | inch | 19" x 15" x 18" |
| Weight                           | kg   | 75              |
|                                  | lbs  | 165             |



**Compact ■ Short head ■ Micrometer and cylinder protection ■ Large opening ■ Low weight**

Compacta ■ Cabezal corto ■ Micrometro y cilindro de protección ■ Amplia apertura ■ Bajo peso

Kompakt ■ Kurzer Kopf ■ Mikrometer und Zylinderschutz ■ Große Öffnung ■ Geringes Gewicht

Compatta ■ Testa corta ■ Protezione del micrometro e del cilindro ■ Ampia apertura ■ Leggera



**Possible limitations in case of double elbow fittings / Limitación eventual para montaje de 2 conexiones 90°**

Mögliche Einschränkungen bei doppelten Winkelanschlüssen / Possibili limitazioni in caso di raccordi a 2 curve

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | FITTING TYPE                    | MAX. HOSE SIZE | REF. HOSES                                                                                                                       |
|---------------------------|---------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | MF2000 Multifit                 | 1.1/4"         | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast, Spirtex/K |
| 4 wire spirals            | MF2000 Multifit                 | 1.1/4"         | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex                                                                         |
|                           | MF2000 Interlock Plus, Xtralock | 3/4"           |                                                                                                                                  |

| PRODUCT CODE  | DESCRIPTION            |
|---------------|------------------------|
| EOA3251N12137 | MV 137 - 12V (NO DIE)  |
| EOA3252N24137 | MV 137 - 24V (NO DIE)  |
| ESA3220N137KT | 10 DIE SETS (15 to 48) |

**GB**

**MAIN APPLICATIONS:**

It is dedicated to hydraulic maintenance specialists for on-site repairs with mobile van. It is possible to have a crimp head separate from the power pack to gain space inside the vehicle and have a lower center of gravity.

**DIE SET PACKAGE (to be ordered separately):**

10 die sets (15-18-21-24-27-30-33-39-45-48)

**ES**

**APLICACIONES PRINCIPALES:**

Está diseñada para especialistas de mantenimiento hidraulico realizando reparaciones in situ con una unidad movil. Es posible tener separado el cabezal de la unidad de fuerza para ganar espacio en el interior del vehiculo y tener un centro de gravedad mas bajo.

**JUEGO DE DADOS (pedir por separado):**

10 juegos de dados (15-18-21-24-27-30-33-39-45-48)

**D**

**HAUPTANWENDUNG:**

Speziell für Hydraulikwartungsspezialisten für Vor-Ort-Reparaturen mit Einsatzfahrzeug. Es ist möglich einen vom Antriebsblock getrennten Presskopf zu haben, um Platz im Wagen zu gewinnen und einen niedrigeren Schwerpunkt zu haben.

**PRESSBACKENSÄTZE (getrennt zu bestellen):**

10er Backensatz (15-18-21-24-27-30-33-39-45-48)

**IT**

**PRINCIPALI APPLICAZIONI:**

Dedicata agli specialisti per attività di manutenzione in loco con furgoncino. Possibilità di avere la testa di serraggio separata dall'alimentatore per guadagnare spazio nel veicolo e abbassare il centro di gravità.

**KIT MORSETTI (da ordinare separatamente):**

10 die sets (15-18-21-24-27-30-33-39-45-48)

# CRIMPING MACHINES

## MOBILE VAN

### MV240

ELECTRIC MOBILE CRIMPING - 2" 4WS

| TECHNICAL SPECIFICATION |  |  |
|-------------------------|--|--|
|-------------------------|--|--|

|                                  |      |                 |
|----------------------------------|------|-----------------|
| Crimping range                   | mm   | 4 - 76          |
|                                  | inch | 0,157 - 2,992   |
| Opening with dies (die diameter) | mm   | +38             |
|                                  | inch | +1,496          |
| Master die length                | mm   | 100             |
|                                  | inch | 3,937           |
| Motor                            | kW   | 2               |
| Standard voltage                 |      | 12V dc          |
| Optional voltage                 |      | 24V dc          |
| Crimping force                   | T    | 240             |
| Number of crimping/hour          |      | n/a             |
| Noise level                      | dB A | 72              |
| Motor protection class           | IP   | 55              |
| Dimensions                       | mm   | 500 x 400 x 580 |
|                                  | inch | 19" x 16" x 23" |
| Weight                           | kg   | 125             |
|                                  | lbs  | 275             |



**Compact ■ Narrow head ■ Large opening ■ High crimp force ■ Radial movement of the dies ■ Micrometer and cylinder protection**

Compacta ■ Cabezal rígido ■ Amplia apertura ■ Alta fuerza de crimpado ■ Movimiento radial de los dados ■ Micrometro y cilindro de protección

Kompakt ■ Schmaler Kopf ■ Große Öffnung ■ Hohe Presskraft ■ Radiale Bewegung der Backen ■ Mikrometer und Zylinderschutz

Compatta ■ Testa stretta ■ Ampia Apertura ■ Elevata forza di serraggio ■ Morsetti con movimento radiale ■ Protezione micrometro e cilindro



**Possible limitations in case of double elbow fittings / Limitación eventual para montaje de 2 conexiones 90°**

Mögliche Einschränkungen bei doppelten Winkelanschlüssen / Possibili limitazioni in caso di raccordi a 2 curve

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | FITTING TYPE                    | MAX. HOSE SIZE | REF. HOSES                                                                                                                       |
|---------------------------|---------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | MF2000 Multifit                 | 2"             | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast, Spirtex/K |
| 4 wire spirals            | MF2000 Multifit                 | 2"             | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex                                                                         |
|                           | MF2000 Interlock Plus, Xtralock | 1.1/4"         |                                                                                                                                  |
| 6 wire spirals            | MF2000 Interlock Plus, Xtralock | 1"             | Diamondspir, Goldenblast/six                                                                                                     |

| PRODUCT CODE  | DESCRIPTION            |
|---------------|------------------------|
| EOA3351N12240 | MV 240 - 12V (NO DIE)  |
| EOA3352N24240 | MV 240 - 24V (NO DIE)  |
| ESA3320N240KT | 12 DIE SETS (15 to 66) |

**GB**

### MAIN APPLICATIONS:

It is dedicated to hydraulic maintenance specialists for on-site repairs with mobile van. It is possible to have a crimp head separate from the power pack to gain space wide the vehicle and have a lower center of gravity.

### DIE SET PACKAGE (to be ordered separately):

12 die sets (15-18-21-24-27-30-33-39-45-51-57-66)

The battery and the cables are not supplied with the machine.

12V battery specifications: min. 500A cranking Amps at 0°C - DC capacity 100A/hour.

**D**

### HAUPTANWENDUNG:

Speziell für Hydraulikwartungsspezialisten für Vor-Ort-Reparaturen mit Einsatzfahrzeug. Es ist möglich einen vom Antriebsblock getrennten Presskopf zu haben, um Platz im Wagen zu gewinnen und einen niedrigeren Schwerpunkt zu haben.

### PRESSBACKENSÄTZE (getrennt zu bestellen):

12er Backensatz (15-18-21-24-27-30-33-39-45-51-57-66)

Batterie und kabel sind nicht im Lieferumfang enthalten. 12V-DC Batterie, min. 500A Anfahrstrom -belastbarkeit bei 0°C, Kapazität 100Ah.

**ES**

### APLICACIONES PRINCIPALES:

Está diseñada para especialistas de mantenimiento hidraulico realizando reparaciones en sitio con una unidad movil. Es posible tener separado el cabezal de la unidad de fuerza para ganar espacio en el interior del vehiculo y tener un centro de gravedad mas bajo.

### JUEGO DE DADOS (pedir por separado):

12 juegos de dados (15-18-21-24-27-30-33-39-45-51-57-66)

No se proporciona la batería y los cables con la máquina. Especificaciones de la batería 12V: 500A doblando Ampériora 0°C - DC capacidad 100A/horas.

**IT**

### PRINCIPALI APPLICAZIONI:

Dedicata agli specialisti per attività di manutenzione in loco tramite furgoncino di servizio. Possibilità di avere la testa di serraggio separata dall'alimentatore per guadagnare spazio nel veicolo e abbassare il centro di gravità.

### KIT MORSETTI (da ordinare separatamente):

12 die sets (15-18-21-24-27-30-33-39-45-51-57-66)

La macchina é consegnata senza batterie e cavi.

Caratteristiche batteria 12V: min. 500A per avvio a 0°C - Capacità DC 100A/ore.

# CRIMPING MACHINES

## STAND-TYPES

### MS140

ASSEMBLING MASS PRODUCTION - 1.1/4" 4WS

| TECHNICAL SPECIFICATION |  |  |
|-------------------------|--|--|
|-------------------------|--|--|

|                                  |      |                  |
|----------------------------------|------|------------------|
| Crimping range                   | mm   | 4 - 56           |
|                                  | inch | 0,157 - 2,205    |
| Opening with dies (die diameter) | mm   | +45              |
|                                  | inch | +1,772           |
| Master die length                | mm   | 80               |
|                                  | inch | 3,149            |
| Motor                            | kW   | 5,5              |
| Standard voltage                 |      | 400V 3ph         |
| Optional voltage                 |      | 220V 3ph         |
| Crimping force                   | T    | 140              |
| Number of crimping/hour          |      | 2100             |
| Noise level                      | dB A | 69               |
| Motor protection class           | IP   | 55               |
| Dimensions                       | mm   | 890 x 810 x 1390 |
|                                  | inch | 35" x 32" x 55"  |
| Weight                           | kg   | 675              |
|                                  | lbs  | 1485             |



The quickest machine of the MS machines series ■ Large production capacity ■ Low noise level ■ Easy die set up with Quick Change Gun (QCG) ■ Included the mirror for an easy control ■ Tech' Care box with semi-automatic opening

La máquina más rápida de la serie MS ■ Gran capacidad de producción ■ Bajo nivel de ruido ■ Fácil instalación de los dados con Pistola de Cambio Rápido (QCG) ■ Espejo incluido para un fácil control ■ Caja Tech'Care con apertura semi-automática

Die schnellste Maschine der MS-Pressenserie ■ Große Produktionskapazität ■ Geringer Geräuschpegel ■ Schnelles Rüsten mit Schnellwechselfistole (QCG) ■ Einschließlich Spiegel zur verbesserten Kontrolle

La macchina più rapida della serie MS ■ Elevate capacità di produzione ■ Ridotta rumorosità ■ Facile sostituzione dei morsetti grazie alla pistola per il cambio rapido (QCG) ■ Specchio incluso per un facile controllo dell'assemblaggio ■ Tech'Care Box con apertura semiautomatica

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | FITTING TYPE                    | MAX. HOSE SIZE | REF. HOSES                                                                                                                       |
|---------------------------|---------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | MF2000 Multifit                 | 1.1/4"         | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast, Spirtex/K |
| 4 wire spirals            | MF2000 Multifit                 | 1.1/4"         | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex                                                                         |
|                           | MF2000 Interlock Plus, Xtralock | 1"             |                                                                                                                                  |



| PRODUCT CODE    | DESCRIPTION                             |
|-----------------|-----------------------------------------|
| EOA3434NTC140   | MS 140 TCB - 380V 3PH 50HZ (NO DIE)     |
| EOA3434NIS140   | MS 140 ISD - 380V 3PH 50HZ (NO DIE)     |
| EOA3436NTC140   | MS 140 TCB - 220V 3PH 50HZ (NO DIE)     |
| EOA3436NIS140   | MS 140 ISD - 220V 50/60HZ 3-PH (NO DIE) |
| ESA3540N140KT   | 10 DIE SETS FOR MS140 (15TO48)          |
| ESA3431NEBS14   | MS 140 ELECTRIC BACK STOP (EBS)         |
| ESA3220N137FS   | SINGLE FOOT SWITCH (EFS)                |
| ESA3230NEISD    | ISD "EXPERT"                            |
| ESA3220N137EQCG | ERGONOMIC QUICK CHANGE GUN              |

**GB**

### MAIN APPLICATIONS:

It is dedicated to professional assemblers for mass production, OEM assembly shops, large maintenance activities on medium size machines and equipments.

### DIE SET PACKAGE (to be ordered separately):

10 die sets (15-18-21-24-27-30-33-39-45-48)

### INCLUDED TOOLS:

Tech Care Box (TCB), Quick Change Gun (QCG), Mirror

### OPTIONAL TOOLS:

Interactive Screen Display (ISD), Electric Foot Switch (EFS), Electrical Backstop (EBS)

**ES**

### APLICACIONES PRINCIPALES:

Esta máquina está orientada a ensambladores profesionales dedicados a producción continua, ensamble de piezas para equipo original OEM, grandes actividades de mantenimiento en máquinas y equipos de tamaño mediano.

### JUEGO DE DADOS (pedir por separado):

10 juegos de dados (15-18-21-24-27-30-33-39-45-48)

### HERRAMIENTAS INCLUIDAS:

(TCB), Pistola de Cambio Rápido (QCG), Espejo

### HERRAMIENTAS OPCIONALES:

Pantalla Digital (ISD), Pie Eléctrico (EFS), Tope Trasero Eléctrico (EBS)

**D**

### HAUPTANWENDUNG:

Für die Herstellung von großen Produktionsmengen, OEM-Montagewerkstätten, große Wartungsaufgaben an mittelgroßen Maschinen und Anlagen.

### PRESSBACKENSÄTZE (getrennt zu bestellen):

10er Backensatz (15-18-21-24-27-30-33-39-45-48)

### IM LIEFERUMFANG ENTHALTEN:

Tech Care Box (TCB), Schnellwechselfistole (QCG), Spiegel

### OPTIONALE WERKZEUGE:

Interaktiver Bildschirm (ISD), Elektrischer Fußschalter (EFS), Elektrische Tiefenanschlag (EBS)

**IT**

### PRINCIPALI APPLICAZIONI:

Dedicata agli assemblatori professionisti per grandi produzioni, assemblatori OEM, attività di manutenzione su larga scala su macchine ed equipaggiamenti di medie dimensioni.

### KIT MORSETTI (da ordinare separatamente):

10 die sets (15-18-21-24-27-30-33-39-45-48)

### ACCESSORI INCLUSI:

(TCB), Pistola per cambio rapido dei morsetti (QCG), Specchio.

### ACCESSORI OPZIONALI:

Display monitor interattivo (ISD), Comando elettrico a Pedale (EFS), Sistema di blocco elettrico (EBS)

# CRIMPING MACHINES

## STAND-TYPES

### MS320

ASSEMBLING MASS PRODUCTION - 3" 2WB

| TECHNICAL SPECIFICATION |  |  |
|-------------------------|--|--|
|-------------------------|--|--|

|                                  |      |                   |
|----------------------------------|------|-------------------|
| Crimping range                   | mm   | 4 - 130           |
|                                  | inch | 0,157 - 5,118     |
| Opening with dies (die diameter) | mm   | +80               |
|                                  | inch | +3,149            |
| Master die length                | mm   | 100               |
|                                  | inch | 3,937             |
| Motor                            | kW   | 5,5               |
| Standard voltage                 |      | 400V 3ph          |
| Optional voltage                 |      | 220V 3ph          |
| Crimping force                   | T    | 320               |
| Number of crimping/hour          |      | 1600              |
| Noise level                      | dB A | < 65              |
| Motor protection class           | IP   | 55                |
| Dimensions                       | mm   | 1060 x 865 x 1500 |
|                                  | inch | 41" x 34" x 60"   |
| Weight                           | kg   | 1330              |
|                                  | lbs  | 2900              |



Large opening ■ High crimp force ■ Large dies available for industrial hoses ■ Large production capacity ■ Tech Care Box (TCB) ■ Low noise level ■ Easy die set up with Quick Change Gun (QCG) ■ Included the mirror for an easy control

Amplia apertura ■ Alta fuerza de crimpado ■ Dados grandes disponibles para mangueras industriales ■ Gran capacidad de producción ■ Tech Care Box (TCB) ■ Bajo nivel de ruido ■ Fácil ensamble de los dados con Pistola de Cambio Rápido (QCG) ■ Se incluye el espejo para un fácil control

Große Öffnung ■ Hohe Presskraft ■ Große Backen für Industrieschläuche erhältlich ■ Große Produktionskapazität ■ Tech Care Box (TCB) ■ Geringer Geräuschpegel ■ Schnelles Rüsten mit Schnellwechsellpistole (QCG) ■ Einschließlich Spiegel zur verbesserten Kontrolle

Amplia Apertura ■ Elevata forza di serraggio ■ Disponibili morsetti per tubi industriali di grande diametro ■ Elevate capacità di produzione ■ Tech Care Box (TCB) ■ Ridotta rumorosità ■ Facile sostituzione dei morsetti grazie alla pistola per il cambio rapido (QCG) ■ Specchio incluso per un facile controllo dell'assemblaggio

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | FITTING TYPE                    | MAX. HOSE SIZE     | REF. HOSES                                                                                                                       |
|---------------------------|---------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | MF2000 Multifit                 | 3" with extra dies | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast, Spirtex/K |
| 4 wire spirals            | MF2000 Multifit                 | 2"                 | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex, Goldenblast                                                            |
|                           | MF2000 Interlock Plus, Xtralock |                    |                                                                                                                                  |
| 6 wire spirals            | MF2000 Interlock Plus, Xtralock | 2"                 | Diamondspir up to 2", Goldenblast/six, Rockmaster/13 and 15, Shieldmaster/6000                                                   |

| PRODUCT CODE    | DESCRIPTION                         |
|-----------------|-------------------------------------|
| EOA3434NTC320   | MS 320 TCB - 380V 3PH 50HZ (NO DIE) |
| EOA3434NIS320   | MS 320 ISD - 380V 3PH 50HZ (NO DIE) |
| EOA3436NTC320   | MS 320 TCB - 220V 3PH 50HZ (NO DIE) |
| EOA3436NIS320   | MS 320 ISD - 220V 3PH 50HZ (NO DIE) |
| ESA3540N320KT   | 13 DIE SETS FOR MS320               |
| ESA3431NEBS32   | MS 320 ELECTRIC BACK STOP (EBS)     |
| ESA3220N137FS   | SINGLE FOOT SWITCH (EFS)            |
| ESA3230NEISD    | ISD "EXPERT"                        |
| ESA3220N137EQCC | ERGONOMIC QUICK CHANGE GUN          |

### GB

#### MAIN APPLICATIONS:

It is dedicated to professional assemblers for mass production, OEM assembly shops, large maintenance activities.

#### DIE SET PACKAGE (to be ordered separately):

13 die sets (15-18-21-24-27-30-33-39-45-51-57-66-73)

#### INCLUDED TOOLS:

Quick Change Gun (QCC), Mirror, Tech Care Box (TCB)

#### OPTIONAL TOOLS:

Interactive Screen Display (ISD), Electric Foot Switch (EFS), Electrical Backstop (EBS)

### ES

#### APLICACIONES PRINCIPALES:

Está orientada a ensambladores profesionales dedicados a producción continua, ensamble de piezas para equipo original OEM, grandes actividades de mantenimiento.

#### JUEGO DE DADOS (pedir por separado):

13 juegos de dados (15-18-21-24-27-30-33-39-45-51-57-66-73)

#### HERRAMIENTAS INCLUIDAS:

Pistola de Cambio Rápido (QCC), Espejo, Tech Care Box (TCB)

#### HERRAMIENTAS OPCIONALES:

Pantalla Interactiva (ISD), Pie Eléctrico (EFS), Tope Trasero Eléctrico (EBS)

### D

#### HAUPTANWENDUNG:

Für die Herstellung von großen Produktionsmengen, OEM-Montagewerkstätten, große Wartungsaufgaben.

#### PRESSBACKENSÄTZE (getrennt zu bestellen):

13er Backensatz (15-18-21-24-27-30-33-39-45-51-57-66-73)

#### IM LIEFERUMFANG ENTHALTEN:

Schnellwechsellipistole (QCC), Spiegel, Tech Care Box (TCB)

#### OPTIONALE WERKZEUGE:

Interaktiver Bildschirm (ISD), Elektrischer Fußschalter (EFS), Elektrische Tiefenanschlag (EBS)

### IT

#### PRINCIPALI APPLICAZIONI:

Dedicata agli assemblatori professionisti per grandi produzioni, assemblatori OEM, attività di manutenzione su larga scala.

#### KIT MORSETTI (da ordinare separatamente):

13 die sets (15-18-21-24-27-30-33-39-45-51-57-66-73)

#### ACCESSORI INCLUSI:

Pistola per cambio rapido dei morsetti (QCC), Specchio, Tech Care Box (TCB)

#### ACCESSORI OPZIONALI:

Display monitor interattivo (ISD), Comando elettrico a pedale (EFS), Sistema di blocco elettrico dell'assemblato (EBS)

# CRIMPING MACHINES


## STAND-TYPES

### MS400

ASSEMBLING MASS PRODUCTION - 3" 6WS

| TECHNICAL SPECIFICATION          |      |                   |
|----------------------------------|------|-------------------|
| Crimping range                   | mm   | 4 - 160           |
|                                  | inch | 0,157 - 6,299     |
| Opening with dies (die diameter) | mm   | +85               |
|                                  | inch | +3,346            |
| Master die length                | mm   | 125               |
|                                  | inch | 4,921             |
| Motor                            | kW   | 5,5               |
| Standard voltage                 |      | 400V 3ph          |
| Optional voltage                 |      | 220V 3ph          |
| Crimping force                   | T    | 400               |
| Number of crimping/hour          |      | 1400              |
| Noise level                      | dB A | < 65              |
| Motor protection class           | IP   | 55                |
| Dimensions                       | mm   | 1260 x 930 x 1690 |
|                                  | inch | 50" x 37" x 77"   |
| Weight                           | kg   | 2000              |
|                                  | lbs  | 4400              |



 **Heavy duty swager with large opening and high crimp force ■ Large dies available for industrial hoses ■ Large production capacity ■ Tech Care Box (TCB) ■ Low noise level ■ Easy die set up with Quick Change Gun (QCG) ■ Included mirror for an easy control**

Estampador para trabajo pesado con gran apertura y alta fuerza de crimpado ■ Dados grandes disponibles para mangueras industriales ■ Gran capacidad de producción ■ Tech Care Box (TCB) ■ Bajo nivel de ruido ■ Fácil ensamble de los dados con Pistola de Cambio Rápido (QCG) ■ Se incluye el espejo para un fácil control

Hochleistungsfähige Presse mit großer Öffnung und hoher Presskraft ■ Große Backen für Industrieschläuche verfügbar ■ Hohe Produktionskapazität ■ Tech Care Box (TCB) ■ Geringer Geräuschpegel ■ Schnelles Rüsten mit Schnellwechsellpistole (QCG) ■ Einschließlich Spiegel zur verbesserten Kontrolle

Ampia Apertura e Elevata forza di serraggio per "lavori pesanti" ■ Disponibili morsetti per tubi industriali di grande diametro ■ Elevate capacità di produzione ■ Tech Care Box (TCB) ■ Ridotta rumorosità ■ Facile sostituzione dei morsetti grazie alla pistola per il cambio rapido (QCG) ■ Specchio incluso per un facile controllo

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | FITTING TYPE                    | MAX. HOSE SIZE     | REF. HOSES                                                                                                                       |
|---------------------------|---------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | MF2000 Multifit                 | 3" with extra dies | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast, Spirtex/K |
| 4 wire spirals            | MF2000 Multifit                 | 3" with extra dies | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex, Goldenblast                                                            |
|                           | MF2000 Interlock Plus, Xtralock |                    |                                                                                                                                  |
| 6 wire spirals            | MF2000 Interlock Plus, Xtralock | 3" with extra dies | Diamondspir up to 3", Goldenblast/six, Rockmaster/13 and 15, Shieldmaster/6000                                                   |

| PRODUCT CODE    | DESCRIPTION                         |
|-----------------|-------------------------------------|
| EOA3544NTC400   | MS 400 TCB - 380V 3PH 50HZ (NO DIE) |
| EOA3544NIS400   | MS 400 ISD - 380V 3PH 50HZ (NO DIE) |
| EOA3546NTC400   | MS 400 TCB - 220V 3PH 50HZ (NO DIE) |
| EOA3546NIS400   | MS 400 ISD - 220V 3PH 50HZ (NO DIE) |
| ESA3540N400KT   | 13 DIE SETS FOR MS400 (15TO73)      |
| ESA3541NEBS32   | MS 400 ELECTRIC BACK STOP (EBS)     |
| ESA3220N137FS   | SINGLE FOOT SWITCH (EFS)            |
| ESA3230NEISD    | ISD "EXPERT"                        |
| ESA3220N137EQCG | ERGONOMIC QUICK CHANGE GUN          |

**GB**

### MAIN APPLICATIONS:

It is dedicated to professional assemblers, large OEM supplies, special applications.

### DIE SET PACKAGE (to be ordered separately):

13 die sets (15-18-21-24-27-30-33-39-45-51-57-66-73)

### INCLUDED TOOLS:

Quick Change Gun (QCG), Mirror, Tech Care Box (TCB)

### OPTIONAL TOOLS:

Interactive Screen Display (ISD), Electric Foot Switch (EFS), Electrical Backstop (EBS)

**ES**

### APLICACIONES PRINCIPALES:

Está orientada a ensambladores profesionales, suministros para gran equipo original OEM, aplicaciones especiales.

### JUEGO DE DADOS (pedir por separado):

13 juegos de dados (15-18-21-24-27-30-33-39-45-51-57-66-73)

### HERRAMIENTAS INCLUIDAS:

Pistola de Cambio Rápido (QCG), Espejo, Tech Care Box (TCB)

### HERRAMIENTAS OPCIONALES:

Pantalla Interactiva (ISD), Pie Eléctrico (EFS), Tope Trasero Eléctrico (EBS)

**D**

### HAUPTANWENDUNG:

Für die professionelle Anwendung, große OEM-Lieferungen, Spezialanwendungen.

### PRESSBACKENSÄTZE (getrennt zu bestellen):

13er Backensatz (15-18-21-24-27-30-33-39-45-51-57-66-73)

### IM LIEFERUMFANG ENTHALTEN:

Schnellwechselfistole (QCG), Spiegel, Tech Care Box (TCB)

### OPTIONALE WERKZEUGE:

Interaktiver Bildschirm (ISD), Elektrischer Fußschalter (EFS), Elektrische Tiefenanschlag (EBS)

**IT**

### PRINCIPALI APPLICAZIONI:

Dedicata agli assemblatori professionisti, grandi fornitori OEM, applicazioni speciali.

### KIT MORSETTI (da ordinare separatamente):

13 die sets (15-18-21-24-27-30-33-39-45-51-57-66-73)

### ACCESSORI INCLUSI:

Pistola per cambio rapido dei morsetti (QCG), Specchio, Tech Care Box (TCB)

### ACCESSORI OPZIONALI:

Display monitor interattivo (ISD), Comando elettrico a pedale (EFS), Sistema di blocco elettrico dell'assemblato (EBS)

# CUTTING MACHINE

## BENCHTOPS

### M22 CUT PLUS

HOSE CUTTING - 1.1/4" 4WS

| TECHNICAL SPECIFICATION          |      |                 |
|----------------------------------|------|-----------------|
| Motor                            | kW   | 2,2             |
| Standard voltage                 |      | 400V 3ph        |
| Optional voltage                 |      | 220V 1ph        |
| Disc diameter                    | mm   | 250             |
|                                  | inch | 9,85            |
| Speed rotation                   | rpm  | 3000            |
| Maximum outside diameter of hose | mm   | 50              |
|                                  | inch | 2               |
| Dimensions                       | mm   | 485 x 630 x 380 |
|                                  | inch | 19" x 25" x 15" |
| Weight                           | kg   | 43              |
|                                  | lbs  | 95              |



Economic ■ Innovative flexible bending system ■ Equipped with high performance scalloped disc ■ Less effort ■ Less smoke ■ Practical dust collector ■ Available in 12V or 24V

Económica ■ Sistema innovador para el corte ■ Equipado con disco ondulado de alta calidad ■ Menor esfuerzo ■ Menos humo ■ Disponible en 12V ó 24V

Wirtschaftlich ■ Innovatives Biegesystem ■ Ausgestattet mit hochleistungsfähigem Messer mit Wellprofilklinge ■ Geringer Kraftaufwand ■ Weniger Rauch ■ Praktischer Staubfänger ■ Geringes Gewicht, 12V - oder 24V

Economica ■ Innovativo sistema di taglio ■ Equipaggiata con lama dentata ad alta performance ■ Minor sforzo di taglio ■ Meno fumo ■ Pratico contenitore dei residui di taglio ■ Disponibile con voltaggio a 12V o 24V

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | MAX. HOSE SIZE | REF. HOSES                                                                                                            |
|---------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | 1.1/4"         | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast |
| 4 wire spirals            | 1.1/4"         | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex                                                              |

# M22 CUT PLUS

## TECHNICAL INFO

| PRODUCT CODE   | DESCRIPTION                        |
|----------------|------------------------------------|
| EOC3114NCUT22P | M22 CUT PLUS - 380V 3PH            |
| EOC3113NCUT22P | M22 CUT PLUS - 220V 1PH            |
| ESC3110N250SC  | CUTTING DISC SCALLOPED STYLE 250MM |

**GB**

### MAIN APPLICATIONS:

It is dedicated to repair shops or maintenance departments making few assemblies a day of small and medium size hoses.

### INCLUDED TOOLS:

Scalloped disc 250 mm (9,85")

**ES**

### APLICACIONES PRINCIPALES:

Está diseñada para talleres de reparación o departamentos de mantenimiento haciendo pocos ensambles por día de mangueras de tamaño pequeño o mediano.

### JUEGO DE DADOS (pedir por separado):

Disco ondulado de 250 mm (9,85")

**D**

### HAUPTANWENDUNG:

Für Reparaturwerkstätten oder Wartungsabteilungen, die nur wenige Bearbeitungen pro Tag an kleinen und mittleren Schlauchgrößen durchführen.

### ENTHALTENE WERKZEUGE:

Trennscheibe mit Wellklinge 250 mm (9,85")

**IT**

### PRINCIPALI APPLICAZIONI:

Dedicata a officine e reparti di manutenzione che realizzano pochi assemblati al giorno di piccole e medie dimensioni.

### ACCESSORI INCLUSI:

Lama ondulata 250 mm (9,85")

# CUTTING & BRUSHING MACHINE

## BENCHTOPS

### M22 CUT/BRUSH

HOSE CUTTING & EXTERNAL BRUSHING - 1.1/4" 2WB

#### TECHNICAL SPECIFICATION

|                                     |      |                 |
|-------------------------------------|------|-----------------|
| Motor                               | kW   | 2,2             |
| Standard voltage                    |      | 400V 3ph        |
| Optional voltage                    |      | 220V 1ph        |
| Disc diameter                       | mm   | 300             |
|                                     | inch | 11,81           |
| Speed rotation                      | rpm  | 3000            |
| Maximum outside diameter of hose    | mm   | 65              |
|                                     | inch | 2,560           |
| Dimensions                          | mm   | 670 x 500 x 650 |
|                                     | inch | 26" x 20" x 26" |
| Brush diameter for external skiving | mm   | 200             |
|                                     | inch | 7,874           |
| Weight                              | kg   | 66              |
|                                     | lbs  | 146             |



2 in 1 ■ Compact ■ Easy to use ■ Sturdy ■ Large disc, diameter 300 mm (12") ■ Safety cover ■ Dust collector

2 en 1 ■ Compacta ■ Fácil de usar ■ Resistente ■ Cuchilla grande, diámetro 300 mm (12") ■ Cubierta de seguridad ■ Colector de suciedad

2 in 1 ■ Kompakt ■ Einfach zu verwenden ■ Robust ■ Große Trennscheibe, Durchmesser 300 mm (12") ■ Schutzdeckel ■ Staubsammler

2 in 1 ■ Compatta ■ Facile da usare ■ Robusta ■ Diametro lama 300 mm (12") ■ Copertura di sicurezza ■ Raccogliitore di polvere incluso

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | MAX. HOSE SIZE | REF. HOSES                                                                                                            |
|---------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | 1.1/4"         | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast |
| 4 wire spirals            | 1"             | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex                                                              |



# M22 CUT/BRUSH

## TECHNICAL INFO

| PRODUCT CODE    | DESCRIPTION                     |
|-----------------|---------------------------------|
| EOC3114NBRUSH22 | M22 CUT/BRUSH - 380V 3PH        |
| ESC3110N300SM   | CUTTING DISC SMOOTH STYLE 300MM |

**GB**

### MAIN APPLICATIONS:

It is dedicated to repair shops or maintenance departments making few assemblies a day of small and medium size hoses.

### INCLUDED TOOLS:

External skiving tool from 1/4" to 1 1/4"  
Cutting smooth disc 300 mm (12")

**ES**

### APLICACIONES PRINCIPALES:

Está diseñada para talleres de reparación o departamentos de mantenimiento haciendo pocos ensambles por día de mangueras de tamaño pequeño o mediano.

### HERRAMIENTAS INCLUIDAS:

Herramienta de Pelado externo de 1/4" hasta 1 1/4"  
Disco de carteliso 300 mm (12")

**D**

### HAUPTANWENDUNG:

Für Reparaturwerkstätten oder Wartungsabteilungen, die nur wenige Bearbeitungen pro Tag an kleinen und mittleren Schlauchgrößen durchführen.

### ENTHALTENE WERKZEUGE:

Außenschälwerkzeug von 1/4" bis 1 1/4"  
Glatte Trennscheibe 300 mm (12")

**IT**

### PRINCIPALI APPLICAZIONI:

Dedicata a officine e reparti di manutenzione che realizzano pochi assemblati al giorno di piccole e medie dimensioni.

### ACCESSORI INCLUSI:

Utensile di pelatura esterno da 1/4" a 1 1/4"  
Lama liscia 300 mm (12")

# CUTTING MACHINES

## BENCHTOPS

### M30 CUT PLUS

HOSE CUTTING - 2" 4WS

| TECHNICAL SPECIFICATION |  |  |
|-------------------------|--|--|
|-------------------------|--|--|

|                                  |      |                  |
|----------------------------------|------|------------------|
| Motor                            | kW   | 3                |
| Standard voltage                 |      | 400V 3ph         |
| Disc diameter                    | mm   | 300              |
|                                  | inch | 11,81            |
| Speed rotation                   | rpm  | 3000             |
|                                  |      |                  |
| Maximum outside diameter of hose | mm   | 95               |
|                                  | inch | 3,350            |
| Dimensions                       | mm   | 930 x 600 x 1360 |
|                                  | inch | 25" x 16" x 27"  |
| Weight                           | kg   | 140              |
|                                  | lbs  | 125              |



Healthy working area ■ Patented and certified suction kit ■ Safety cover ■ High quality cut with scalloped disc ■ Wide & adjustable pedal ■ Large space for user's knees ■ Rolling guides to make hose feeding easier ■ Dust collector ■ Possibility to move easily the machine with a pallet truck ■ Possibility to order without suction kit

Area de trabajo saludable ■ Patentado y certificado equipo de succión ■ Cubierta de seguridad ■ Disco ondulado de alta calidad ■ Pedal ancho y ajustable ■ Gran espacio para los rodillas ■ Guías rodantes para facilitar el corte de la manguera ■ Recolector de desperdicio ■ Posibilidad de mover fácilmente con un pallet ■ Posibilidad de pedir sin equipo de succión

Gesunder Arbeitsplatz ■ Patentierte und zertifizierte Absaug-schutzhaube ■ Qualitativ hochwertige Trennscheibe mit Wellklinge ■ Breites einstellbares Pedal ■ Großer Knieraum ■ Führungsrollen erleichtern die Nachführung ■ Staubfänger ■ Maschine einfach mit Gabelstapler zu bewegen ■ Auch ohne Absaughaube bestellbar

Area di lavoro pulita ■ Kit di aspirazione registrato e certificato ■ Copertura di sicurezza ■ Alta qualità di taglio con la ondolata ■ Pedale ampio e regolabile ■ Ampio spazio per le ginocchia dell'operatore ■ Guide rotolanti per permettere una più facile introduzione del tubo ■ Raccoglitore di polvere ■ Possibilità di muovere facilmente la macchina con un transpallet ■ Possibilità di ordinarlo senza kit di aspirazione

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | MAX. HOSE SIZE | REF. HOSES                                                                                                            |
|---------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | 2"             | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast |
| 4 wire spirals            | 2"             | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex                                                              |

# M30 CUT PLUS

## TECHNICAL INFO

| PRODUCT CODE     | DESCRIPTION                            |
|------------------|----------------------------------------|
| EOC3224NCUT30P   | M30 CUT PLUS 380V 3PH                  |
| EOC3224NCUT30PSK | M30 CUT PLUS 380V 3PH WITH SUCTION KIT |
| ESC3110N300SC    | CUTTING DISC SCALLOPED STYLE 300MM     |

**GB**

### MAIN APPLICATIONS:

It is dedicated to repair shops, distribution centre, hydraulic maintenance specialists working on medium size machines and equipments. It is also suitable for assemblers involved in medium size hoses and quantities.

### INCLUDED TOOLS:

Scalloped disc 300 mm (12")

### OPTIONAL TOOLS:

Possibility to order without suction kit

**ES**

### APLICACIONES PRINCIPALES:

Está diseñada para talleres de reparación, centros de distribución, especialistas de mantenimiento hidráulico trabajando en máquinas y equipos de tamaño mediano. Está también adaptada para ensambladores de mangueras y cantidades de tamaño mediano.

### HERRAMIENTAS INCLUIDAS:

Disco ondulado 300 mm (12")

### HERRAMIENTAS OPCIONALES:

Possibilidad de pedir sin equipo de succión

**D**

### HAUPTANWENDUNG:

Speziell entwickelt für Reparaturwerkstätten, Händler, Wartungsabteilungen für Hydraulik die mit mittelgroßen Pressen arbeiten. Auch für Schlauchfertiger gut geeignet, die mittlere Schlauchgrößen und Mengen herstellen.

### ENTHALTENE WERKZEUGE:

Trennscheibe mit Wellklinge 300 mm (12")

### OPTIONALE WERKZEUGE:

Auch ohne Absaughaube bestellbar

**IT**

### PRINCIPALI APPLICAZIONI:

Dedicata a officine, distributori, reparti di manutenzione che lavorano su macchine ed equipaggiamenti di medie dimensioni. Ideale anche per assemblatori di tubi di medie dimensioni e ridotte quantità.

### ACCESSORI INCLUSI:

Lama ondulata 300 mm (12")

### ACCESSORI OPZIONALI:

Possibilità di ordinare la macchine senza kit di aspirazione

# CUTTING MACHINES

## STAND-TYPES

### M75 CUT

HOSE CUTTING FOR MASS PRODUCTION - 2" 6WS

| TECHNICAL SPECIFICATION            |      |                  |
|------------------------------------|------|------------------|
| Motor                              | kW   | 7,5              |
| Standard voltage                   |      | 400V 3ph         |
| Optional voltage                   |      | 220V 3ph         |
| Disc diameter                      | mm   | 520              |
|                                    | inch | 20,470           |
| Speed rotation                     | rpm  | 3000             |
| Diameter of the suction connection | mm   | 110              |
|                                    | inch | 4,330            |
| Maximum outside diameter of hose   | mm   | 125              |
|                                    | inch | 5                |
| Dimensions                         | mm   | 910 x 820 x 1280 |
|                                    | inch | 36" x 32" x 50"  |
| Weight                             | kg   | 215              |
|                                    | lbs  | 474              |



Powerful (it cuts 2" R13/15 hoses) ■ Very large disc, diameter 520 mm (20,5") ■ Safety cover ■ High visibility ■ Possibility to cut large bore sizes

Potente (corta mangueras de 2" R13/15) ■ Cuchilla muy grande, diámetro 520 mm (20,5") ■ Cubierta de seguridad ■ Alta visibilidad ■ Posibilidad de cortar diámetros mayores

Leistungsstark (schneidet 2" R13/15-Schläuche) ■ Sehr große Trennscheibe, Durchmesser 520 mm (20,5") ■ Schutzdeckel ■ Gute Übersicht ■ Möglichkeit große Schlauchdurchmesser zu schneiden

Potente (taglia tubi da 2" R13/R15) ■ Diametro lama 520 mm (20,5") ■ Copertura di sicurezza ■ Elevata visibilità ■ Possibilità di tagliare tubi di grande diametro

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | MAX. HOSE SIZE | REF. HOSES                                                                                                            |
|---------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | 2"             | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast |
| 4 wire spirals            | 2"             | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex                                                              |
| 6 wire spirals            | 2"             | Diamondspir up to 2"                                                                                                  |

| PRODUCT CODE  | DESCRIPTION                        |
|---------------|------------------------------------|
| EOC3336NCUT75 | M75 CUT - 220V 3PH                 |
| EOC3336NCUP75 | M75 CUT PNEUMATIC BENDING 220V 3PH |
| EOC3334NCUT75 | M75 CUT - 380V 3PH                 |
| EOC3334NCUP75 | M75 CUT PNEUMATIC BENDING 380V 3PH |
| ESC3330N520ST | CUTTING DISC SERRATED STYLE 520MM  |
| ESC3330N520SM | CUTTING DISC SMOOTH STYLE 520MM    |

**GB**

#### MAIN APPLICATIONS:

It is dedicated to hydraulic maintenance specialists working on medium and large size machine and equipments. It is also suitable for small OEM supplies.

#### INCLUDED TOOLS:

Cutting serrated disc 520 mm (20,5")

#### OPTIONAL TOOLS:

Pneumatic bending for OEM use, Dust collector, Brake motor, Smooth disc

**ES**

#### APLICACIONES PRINCIPALES:

Está diseñada para especialistas de mantenimiento hidráulico que trabajan en máquinas y equipos de tamaño mediano y grande. También es conveniente para suministro a pequeños OEM.

#### HERRAMIENTAS INCLUIDAS:

Disco serrado 520 mm (20,5")

#### HERRAMIENTAS OPCIONALES:

Doblamiento neumático para el uso OEM, Recolector de desperdicio, Motor de freno, Disco liso

**D**

#### HAUPTANWENDUNG:

Speziell für Hydraulikwartungsspezialisten für mittelgroße bis große Maschinen und Anlagen. Auch geeignet für kleine OEM-Lieferungen.

#### ENTHALTENE WERKZEUGE:

Trennscheibe mit Sägezahnklinge 520 mm (20,5")

#### OPTIONALE WERKZEUGE:

Pneumatisches Biegen im OEM-Bereich, Staubsammler, Motorbremse, Glatte Trennscheibe

**IT**

#### PRINCIPALI APPLICAZIONI:

Dedicata agli specialisti di manutenzione idraulica che lavorano su macchine ed equipaggiamenti di medie e grandi dimensioni. Ideale anche per piccoli fornitori OEM.

#### ACCESSORI INCLUSI:

Lama dentellata 520 mm (20,5")

#### ACCESSORI OPZIONALI:

Spingi tubo pneumatico per uso OEM, Raccogliatore di polvere, Freno motore, Lama liscia

# CUTTING MACHINES

## STAND-TYPES

### M90 CUT

HOSE CUTTING FOR MASS PRODUCTION - 3" 6WS

| TECHNICAL SPECIFICATION            |      |                    |
|------------------------------------|------|--------------------|
| Motor                              | kW   | 9                  |
| Standard voltage                   |      | 400V 3ph           |
| Optional voltage                   |      | 220V 3ph           |
| Disc diameter                      | mm   | 520                |
|                                    | inch | 20,470             |
| Speed rotation                     | rpm  | 3000               |
| Diameter of the suction connection | mm   | 110                |
|                                    | inch | 4,330              |
| Maximum outside diameter of hose   | mm   | 125                |
|                                    | inch | 5                  |
| Dimensions                         | mm   | 1000 x 1060 x 1350 |
|                                    | inch | 39" x 42" x 53"    |
| Weight                             | kg   | 260                |
|                                    | lbs  | 573                |



Powerful (can cut 3" with 6 wire spirals hoses) ■ Very large disc, diameter 520 mm (20,5") ■ Electronic soft start ■ Electric brake  
 ■ Hydraulic bending ■ Safety cover ■ High visibility

Potente (puede cortar mangueras de 3" con 6 mallas en espiral) ■ Cuchilla muy grande, diámetro 520 mm (20,5") ■ Encendido electrónico suave ■ Freno eléctrico ■ Doblamiento hidráulico ■ Lubricación de cuchilla ■ Alta visibilidad

Leistungsstark (kann 3"-Schläuche mit 6 Drahtspiralen schneiden) ■ Sehr große Trennscheibe, Durchmesser 520 mm (20,5") ■ Elektronischer Softstart ■ Elektrische Bremse ■ Hydraulisches Biegen ■ Blattschmierung ■ Gute Übersicht ■ Schutzhaube

Potente (taglia tubi a 6 spirali da 3") ■ Diametro lama 520 mm (20,5") ■ Avviamento elettronico progressivo ■ Freno elettrico ■ Spingi tubo idraulico ■ Copertura di sicurezza ■ Elevata visibilità

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | MAX. HOSE SIZE | REF. HOSES                                                                                                            |
|---------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | 3"             | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast |
| 4 wire spirals            | 3"             | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex                                                              |
| 6 wire spirals            | 3"             | Diamondspir up to 3"                                                                                                  |

| PRODUCT CODE  | DESCRIPTION                       |
|---------------|-----------------------------------|
| EOC3444NCU90  | M90 CUT - 380V 3PH                |
| ESC3330N520ST | CUTTING DISC SERRATED STYLE 520MM |
| ESC3330N520SM | CUTTING DISC SMOOTH STYLE 520MM   |

**GB**

**MAIN APPLICATIONS:**

It is dedicated to professional assemblers, large OEM supplies and special applications.

**INCLUDED TOOLS:**

Hydraulic bending, Brake motor, Cutting serrated disc 520 mm (20,5")

**OPTIONAL TOOLS:**

Dust collector, smooth disc

**ES**

**APLICACIONES PRINCIPALES:**

Dedicada a ensambladores profesionales, grandes proveedores de OEM y para aplicaciones especiales.

**HERRAMIENTAS INCLUIDAS:**

Doblamiento hidráulico, Motor de freno, Disco serrado 520 mm (20,5")

**HERRAMIENTAS OPCIONALES:**

Recolector de desperdicio, Disco liso

**D**

**HAUPTANWENDUNG:**

Für die professionelle Anwender, große OEM-Lieferungen, Spezialanwendungen.

**ENTHALTENE WERKZEUGE:**

Hydraulisches Biegen, Motorbremse, Trennscheibe mit Sägezahnprofil 520 mm (20,5")

**OPTIONALE WERKZEUGE:**

Staubsammler, glatte Trennscheibe

**IT**

**PRINCIPALI APPLICAZIONI:**

Dedicata ad assemblatori professionisti, grandi fornitori OEM e per applicazioni speciali.

**ACCESSORI INCLUSI:**

Spingi tubo idraulico, freno motore, Lama dentellata 520 mm (20,5")

**ACCESSORI OPZIONALI:**

Raccoglitore di polvere, Lama liscia

# SKIING MACHINES

## PORTABLE

### MH SKY PLUS

HOSE CUTTING - 2" 4SP

#### TECHNICAL SPECIFICATION

|                     |     |                |
|---------------------|-----|----------------|
| Indicative capacity |     | 2" 4SP         |
| Dimensions          | mm  | 413 x 52 x 224 |
| Weight              | kg  | 3              |
|                     | lbs | 125            |



Easy location on a vice ■ Easy to use ■ Economic ■ Portable ■ Low weight

Fácil posicionamiento sobre la mordaza ■ Fácil de usar ■ Económica ■ Portátil ■ Ligera

Einfach positionierbar auf einer Werkbank ■ Einfach zu verwenden ■ Wirtschaftlich ■ Tragbar ■ Geringes Gewicht

Facile posizionamento sulla morsa ■ Facile da usare ■ Economica ■ Portatile ■ Leggera

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | MAX. HOSE SIZE | REF. HOSES                                                                                                            |
|---------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | 2"             | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast |
| 4 wire spirals            | 2"             | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex                                                              |



| PRODUCT CODE  | DESCRIPTION                        |
|---------------|------------------------------------|
| EOS3410NHSK   | MH SKY HAND SKIVING (NO TOOL)      |
| ESS3430NKTIS  | KIT IS INT SKIVING 13TO50MM        |
| ESS3430NKTESE | KIT ESE EXT SKIVING 6TO50MM        |
| ESS3430NIS10  | IS INT SKIVING TOOL DN 10 (3/8")   |
| ESS3430NIS13  | IS INT SKIVING TOOL DN 13 (1/2")   |
| ESS3430NIS16  | IS INT SKIVING TOOL DN 16 (5/8")   |
| ESS3430NIS19  | IS INT SKIVING TOOL DN 19 (3/4")   |
| ESS3430NIS25  | IS INT SKIVING TOOL DN 25 (1")     |
| ESS3430NIS32  | IS INT SKIVING TOOL DN 32 (1 1/4") |
| ESS3430NIS38  | IS INT SKIVING TOOL DN 38 (1 1/2") |
| ESS3430NIS50  | IS INT SKIVING TOOL DN 50 (2")     |

**GB**

### MAIN APPLICATIONS:

It is dedicated to small repair shops and maintenance departments making few assemblies a day. It is also ideal to carry out on-site repairs or to place in a service van.

### TOOL SELECTION:

External skiving: KIT ESE including 10 mandrels (6-8-10-13-16-19-25-32-38-50)

Internal skiving: KIT IS including 7 mandrels (13-16-19-25-32-38-50)

Internal skiving tools can, be ordered also per diameter

**ES**

### APLICACIONES PRINCIPALES:

Dedicada a talleres y departamentos de mantenimiento que realizan pocos ensambles al día. Ideal también para reparaciones locales o servicios de furgonetas (van).

### SELECCIÓN DE HERRAMIENTAS:

Pelado Externo: KIT ESE incluye 10 mandriles (6-8-10-13-16-19-25-32-38-50)

Pelado Interno: KIT IS incluye 7 mandriles (13-16-19-25-32-38-50)

Las herramientas de pelado interno, se pueden pedir por diámetros

**D**

### HAUPTANWENDUNG:

Für kleine Reparaturwerkstätten und Wartungsabteilungen, die nur wenige Bearbeitungen pro Tag durchführen. Ideal auch für Reparaturen vor Ort oder für den Einbau in einen Wagen.

### WERKZEUGAUSWAHL:

Außenschälwerkzeuge: Kit ESE inklusive 10 Dome (6-8-10-13-16-19-25-32-38-50)

Innenschälwerkzeuge: Kit IS, inklusive 7 Dome (13-16-19-25-32-38-50)

IS Werkzeuge sind auch für Einzeldurchmesser verfügbar

**IT**

### PRINCIPALI APPLICAZIONI:

Dedicata a officine e dipartimenti di manutenzione che realizzano pochi assemblati al giorno. Ideale anche per riparazioni in loco e trasportabile su furgoncini di servizio (van)

### SCELTA DEGLI ACCESSORI:

Utensili di pelatura esterna: KIT ESE include 10 mandrini (6-8-10-13-16-19-25-32-38-50)

Utensili di pelatura interna : KIT IS include 7 mandrini (13-16-19-25-32-38-50)

Gli utensili di pelatura interna possono essere ordinati anche per diametro

# SKIING MACHINES

## BENCHTOPS

### M50 SKY PLUS

EXTERNAL/INTERNAL SKIVING - 2" 4WS

| TECHNICAL SPECIFICATION |      |                 |
|-------------------------|------|-----------------|
| Motor                   | kW   | 0,25            |
| Standard voltage        |      | 400V 3ph        |
| Optional voltage        |      | 220V 3ph        |
| Speed rotation          | rpm  | 100             |
| Dimensions              | mm   | 500 x 660 x 360 |
|                         | inch | 20" x 26" x 14" |
| Weight                  | kg   | 45              |
|                         | lbs  | 100             |



Compact ■ Stable ■ Safety switch on the cover ■ Hardened adjustment ring on the internal tools ■ Very high visibility through plexiglas cover ■ Quick insert system of tools

Compacta ■ Estable ■ Interruptor de seguridad en la cubierta ■ Anillo de ajuste endurecido en las herramientas de pelado interno ■ Muy alta visibilidad a través de cubierta acrílica ■ Sistema de inserto rápido

Kompakt ■ Stabil ■ Sicherheitsschalter auf dem Deckel ■ Gehärteter Einstellring an den Innenwerkzeugen ■ Sehr gute Sichtbarkeit durch den Plexiglasdeckel ■ Schnelleinsatzsystem für Schälwerkzeuge

Compatta ■ Stabile ■ Interruttore di sicurezza sulla copertura ■ Anello di regolazione in materiale indurito negli utensili interni ■ Altissima visibilità grazie alla copertura in plexiglas ■ Sistema di inserimento veloce degli accessori

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | MAX. HOSE SIZE | REF. HOSES                                                                                                            |
|---------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | 2"             | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast |
| 4 wire spirals            | 2"             | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex                                                              |

| PRODUCT CODE   | DESCRIPTION                              |
|----------------|------------------------------------------|
| EOS3434N50+SK  | M50 SKY+ 380V 3PH (NO TOOL)              |
| EOS3437N50+SK  | M50 SKY+ 220V 3PH (NO TOOL)              |
| EOS3433N50+SK  | M50 SKY 220V 1ph (NO TOOL)               |
| ESS3430NKTIS   | KIT IS INT SKIVING 13TO50MM              |
| ESS3430NKTESE  | KIT ESE EXT SKIVING ECONOMIC 6TO50MM     |
| ESS3430NKTESP  | KIT ESP EXT SKIVING PRODUCTION           |
| ESS3430N2KNESP | KIT 2ND KNIFE FOR ESP                    |
| ESS3430NIS10   | IS INT SKIVING TOOL DN 10 (3/8")         |
| ESS3430NIS13   | IS INT SKIVING TOOL DN 13 (1/2")         |
| ESS3430NIS16   | IS INT SKIVING TOOL DN 16 (5/8")         |
| ESS3430NIS19   | IS INT SKIVING TOOL DN 19 (3/4")         |
| ESS3430NIS25   | IS INT SKIVING TOOL DN 25 (1")           |
| ESS3430NIS32   | IS INT SKIVING TOOL DN 32 (1"1/4)        |
| ESS3430NIS38   | IS INT SKIVING TOOL DN 38 (1"1/2)        |
| ESS3430NIS50   | IS INT SKIVING TOOL DN 50 (2")           |
| ESS3430NESP5   | ESP EXT SKIVING PRODUCTION DN 05 (3/16") |
| ESS3430NESP6   | ESP EXT SKIVING PRODUCTION DN 06 (1/4")  |
| ESS3430NESP8   | ESP EXT SKIVING PRODUCTION DN 08 (5/16") |
| ESS3430NESP10  | ESP EXT SKIVING PRODUCTION DN 10 (3/8")  |
| ESS3430NESP12  | ESP EXT SKIVING PRODUCTION DN 12 (1/2")  |
| ESS3430NESP16  | ESP EXT SKIVING PRODUCTION DN 16 (5/8")  |
| ESS3430NESP19  | ESP EXT SKIVING PRODUCTION DN 19 (3/4")  |
| ESS3430NESP25  | ESP EXT SKIVING PRODUCTION DN 25 (1")    |
| ESS3430NESP31  | ESP EXT SKIVING PRODUCTION DN 31 (1"1/4) |
| ESS3430NESP38  | ESP EXT SKIVING PRODUCTION DN 38 (1"1/2) |
| ESS3430NESP51  | ESP EXT SKIVING PRODUCTION DN 51 (2")    |
| ESS3430NESP63  | ESP EXT SKIVING PRODUCTION DN 63 (2"1/2) |
| ESS3430NESP76  | ESP EXT SKIVING PRODUCTION DN 76 (3")    |

**GB**

### MAIN APPLICATIONS:

It is dedicated to hydraulic maintenance specialists working on medium size machines and equipments. It is also suitable for assemblers involved in medium size hoses and quantities.

### TOOL SELECTION:

External Skiving tools: Kit ESE including 10 mandrels (6-8-10-13-16-19-25-32-38-50), KIT ESP including 10 mandrels (6-8-10-13-16-19-25-32-38-50).

ESP are also available per diameter.

Internal Skiving tools: Kit IS including 7 mandrels (13-16-19-25-32-38-50). Is are also available per diameter

**ES**

### APLICACIONES PRINCIPALES:

Está diseñada para especialistas de mantenimiento hidráulico que trabajan con máquinas y equipos de tamaño mediano. Está también diseñada para ensambladores de mangueras y cantidades de tamaño mediano.

### SELECCIÓN DE HERRAMIENTAS:

Pelado Externo: KIT ESE incluye 10 mandriles (6-8-10-13-16-19-25-32-38-50), KIT ESP incluye 10 mandriles (6-8-10-13-16-19-25-32-38-50).

ESP también está disponible por diámetros.

Pelado Interno: KIT IS incluye 7 mandriles (13-16-19-25-32-38-50). También está disponible por diámetro

**D**

### HAUPTANWENDUNG:

Speziell für Hydraulikwartungsspezialisten für mittelgroße Maschinen und Anlagen. Auch geeignet für Anlagen mit mittelgroßen Schläuchen und durchschnittlichen Mengen.

### WERKZEUGAUSWAHL:

Außenschälwerkzeuge: ESE Kit inkl. 10 Dorne (6-8-10-13-16-19-25-32-38-50), ESP Kit inkl. 10 Dorne (6-8-10-13-16-19-25-32-38-50)

ESP Dorne auch einzeln erhältlich.

Innenschälwerkzeuge: IS Kit inkl. 7 Dorne (13-16-19-25-32-38-50). IS Dorne auch einzeln erhältlich

**IT**

### PRINCIPALI APPLICAZIONI:

Dedicata a specialisti di manutenzione idraulica che operano su macchine ed equipaggiamenti di medie dimensioni. Ideale anche per assemblatori di tubi di medie dimensioni e quantità.

### SELETA DEGLI ACCESSORI:

Accessori di pelatura esterna: Kit ESE include 10 mandrini (6-8-10-13-16-19-25-32-38-50), KIT ESP include 10 mandrini (6-8-10-13-16-19-25-32-38-50).

ESP disponibile per diametro.

Accessori di pelatura interna: Kit IS include 7 mandrini (13-16-19-25-32-38-50). Is disponibile per diametro

# SKIING MACHINES

## STAND-TYPES

### M205 SKY PLUS

EXTERNAL/INTERNAL SKIVING - 3" 6WS

| TECHNICAL SPECIFICATION |      |                 |
|-------------------------|------|-----------------|
| Motor                   | kW   | 0,25            |
| Standard voltage        |      | 400V 3ph        |
| Optional voltage        |      | 220V 3ph        |
| Speed rotation          | rpm  | 100             |
| Dimensions              | mm   | 500 x 660 x 360 |
|                         | inch | 20" x 26" x 14" |
| Weight                  | kg   | 45              |
|                         | lbs  | 100             |



**Compact ■ Stable ■ Large tray to collect the rubber ■ Dual safety: cover and tray ■ Mandrels are hardened and pre-set according to the Manuli skiving lengths ■ Easy external skiving depth adjustment ■ All skiving tools included up to 2" - 2.1/2" and 3" tools mounted on bearing system ■ Quick insert system of tools ■ Hose clamping available ■ Possibility to move easily the machine with a pallet truck**

Compacta ■ Estable ■ Bandeja grande para recoger el caucho ■ Doble seguridad: cubierta y bandeja ■ Los mandriles están endurecidos y colocados de acuerdo con las longitudes de pelado dadas por Manuli ■ Fácil ajuste de profundidad del pelado externo ■ Todas las herramientas de pelado incluyen herramientas hasta de 2" - 2.1/2" y 3" montadas en sistema de cojinete ■ Sistema de inserto rápido ■ Sistema de sujeción de manguera

Kompakt ■ Stabil ■ Große Auffangschale für Gummispäne ■ Doppelte Sicherheit: Deckel und Schale ■ Gehärtete und auf Manuli-Schällängen voreingestellte Dorne ■ Einfache Schältefeinstellung von außen ■ Alle Schälwerkzeuge bis 2" 2.1/2" und 3" enthalten und auf Halterungssystem montiert ■ Schnellwechselsystem ■ Schlauchfixierung

Compatta ■ Stabile ■ Grande vassoio per raccogliere i trucioli di gomma ■ Doppia sicurezza: copertura e vassoio ■ Mandrini in materiale indurito e pre-settati sulle misure di spelatura Manuli ■ Facile regolazione della profondità di pelatura esterna ■ Utensili di pelatura per diametri maggiori di 2" inclusi ■ Utensili per i 2 1/2" e 3" montati su sistema portante ■ Sistema di inserimento veloce degli accessori ■ Possibilità di movimentare facilmente la macchina con un transpallet ■ Sistema di fissaggio del tubo disponibile

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | MAX. HOSE SIZE                | REF. HOSES                                                                                                            |
|---------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | 2"                            | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast |
| 4 wire spirals            | 2"                            | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex                                                              |
| 6 wire spirals            | 3" with optional skiving tool | Diamondspir, Rockmaster/15                                                                                            |

| PRODUCT CODE      | DESCRIPTION                              |
|-------------------|------------------------------------------|
| EOS3434N205+SK    | M205 SKY 380V 3PH (NO TOOL)              |
| EOS3434N205+SKRSA | M205 SKY 380V 3PH ROT.SPEED ADJ SKY>2"   |
| EOS3437N205+SK    | M205 SKY+ 220V 3PH (NO TOOL)             |
| ESS3430NKTIS      | KIT IS INT SKIVING 13TO50MM              |
| ESS3430NKTESA     | KIT ESA EXT SKIVING ADJUSTABLE 3TO50MM   |
| ESS3430NKTESP     | KIT ESP EXT SKIVING PRODUCTION 06TO50MM  |
| ESS3430N2KNESP    | KIT 2ND KNIFE FOR ESP                    |
| ESS3430NESA63     | ESA EXT SKIVING DN 63 (2 1/2")           |
| ESS3430NESA76     | ESA EXT SKIVING DN 76 (3")               |
| ESS3430NIS10      | IS INT SKIVING TOOL DN 10 (3/8")         |
| ESS3430NIS13      | IS INT SKIVING TOOL DN 13 (1/2")         |
| ESS3430NIS16      | IS INT SKIVING TOOL DN 16 (5/8")         |
| ESS3430NIS19      | IS INT SKIVING TOOL DN 19 (3/4")         |
| ESS3430NIS25      | IS INT SKIVING TOOL DN 25 (1")           |
| ESS3430NIS32      | IS INT SKIVING TOOL DN 32 (1 1/4)        |
| ESS3430NIS38      | IS INT SKIVING TOOL DN 38 (1 1/2)        |
| ESS3430NIS50      | IS INT SKIVING TOOL DN 50 (2")           |
| ESS3430NIS63      | IS INT SKIVING TOOL DN 63 (2 1/2")       |
| ESS3430NIS76      | IS INT SKIVING TOOL DN 76 (3")           |
| ESS3430NEP5       | ESP EXT SKIVING PRODUCTION DN 05 (3/16") |
| ESS3430NEP6       | ESP EXT SKIVING PRODUCTION DN 06 (1/4")  |
| ESS3430NEP8       | ESP EXT SKIVING PRODUCTION DN 08 (5/16") |
| ESS3430NEP10      | ESP EXT SKIVING PRODUCTION DN 10 (3/8")  |
| ESS3430NEP12      | ESP EXT SKIVING PRODUCTION DN 12 (1/2")  |
| ESS3430NEP16      | ESP EXT SKIVING PRODUCTION DN 16 (5/8")  |
| ESS3430NEP19      | ESP EXT SKIVING PRODUCTION DN 19 (3/4")  |
| ESS3430NEP25      | ESP EXT SKIVING PRODUCTION DN 25 (1")    |
| ESS3430NEP31      | ESP EXT SKIVING PRODUCTION DN 31 (1 1/4) |
| ESS3430NEP38      | ESP EXT SKIVING PRODUCTION DN 38 (1 1/2) |
| ESS3430NEP51      | ESP EXT SKIVING PRODUCTION DN 51 (2")    |
| ESS3430NEP63      | ESP EXT SKIVING PRODUCTION DN 63 (2 1/2) |
| ESS3430NEP76      | ESP EXT SKIVING PRODUCTION DN 76 (3")    |
| ESS3430NHC        | HOSE CLAMPING SYSTEM                     |

**GB**

### MAIN APPLICATIONS:

It is dedicated to professional assemblers, large OEM supplies and special applications.

### TOOL SELECTION:

External Skiving tools: Kit ESA including 11 mandrels (3-6-8-10-13-16-19-25-32-38-50), ESA 2 1/2", ESA 3"

KIT ESP including 10 mandrels (6-8-10-13-16-19-25-32-38-50). ESP are also available per diameter

Internal Skiving tools: Kit IS including 7 mandrels (13-16-19-25-32-38-50). Is are also available per diameter

### OPTIONAL TOOLS:

Rotation Speed adjustment, Hose clamping system

**ES**

### APLICACIONES PRINCIPALES:

Está diseñada para ensambladores profesionales, suministros para gran equipo original OEM y aplicaciones especiales.

### SELECCIÓN DE HERRAMIENTAS:

Pelado Externo: Kit ESA incluye 11 mandriles (3-6-8-10-13-16-19-25-32-38-50), ESA 2 1/2", ESA 3"

KIT ESP incluye 10 mandriles (6-8-10-13-16-19-25-32-38-50). ESP también está disponible por diámetro

Pelado Interno: Kit IS incluye 7 mandriles (13-16-19-25-32-38-50). También está disponible por diámetro

### HERRAMIENTAS OPCIONALES:

Ajuste de velocidad, sistema de sujeción de mangueras

**D**

### HAUPTANWENDUNG:

Für große Schlauchleitungshersteller, OEM Serienlieferungen, Spezialanwendungen.

### WERKZEUGAUSWAHL:

Außenschälwerkzeuge: Kit ESA inklusive 11 Dome (3-6-8-10-13-16-19-25-32-38-50), ESA 2 1/2", Kit ESP inklusive 10 Dome (6-8-10-13-16-19-25-32-38-50). ESP Werkzeuge sind auch einzeln verfügbar.

Innenschälwerkzeuge: Kit IS, inklusive 7 Dome (13-16-19-25-32-38-50). IS Werkzeuge sind auch für Einzeldurchmesser verfügbar.

### OPTIONALE WERKZEUGE:

Drehzahlregler, Schlaucheinspannsystem

**IT**

### PRINCIPALI APPLICAZIONI:

Dedicata ad assemblatori professionisti, grandi fornitori OEM e applicazioni speciali.

### SCelta DEGLI ACCESSORI:

Accessori di pelatura esterna: Kit ESE include 11 mandrini (3-6-8-10-13-16-19-25-32-38-50), ESA 2 1/2", ESA 3 KIT ESP include 10 mandrini (6-8-10-13-16-19-25-32-38-50). ESP disponibile per diametro.

Accessori di pelatura interna: Kit IS include 7 mandrini (13-16-19-25-32-38-50). Is disponibile per diametro.

### ACCESSORI OPZIONALI:

Velocità di rotazione regolabile, Sistema di serraggio del tubo

# INSERT PUSHING MACHINES

## BENCHTOPS

### M1500 INS

COUPLING INSERTER - 2" 6WS



#### TECHNICAL SPECIFICATION

|                                  |      |                                                                     |
|----------------------------------|------|---------------------------------------------------------------------|
| Capacity                         | hp   | from 1/2" to 2"                                                     |
| Push force on the fitting        | psi  | 1500 kgf (1500 daN)<br>at maximum hydraulic<br>pressure of 1740 psi |
| Hose clamping                    | psi  | 550 kgf (550 daN)<br>with 100 psi<br>of air pressure                |
| Minimum outside diameter of hose | mm   | 28                                                                  |
|                                  | inch | 1"                                                                  |
| Maximum outside diameter of hose | mm   | 73                                                                  |
|                                  | inch | 3"                                                                  |
| Dimensions                       | mm   | 750 x 660 x 300                                                     |
|                                  | inch | 30" x 26" x 12"                                                     |
| Weight                           | kg   | 70                                                                  |
|                                  | lbs  | 155                                                                 |



**Compact ■ Sturdy ■ Powerful**

Compacta ■ Resistente ■ Potente

Kompakt ■ Robust ■ Leistungsstark

Compatta ■ Robusta ■ Potente

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | MAX. HOSE SIZE | REF. HOSES                                                                                                            |
|---------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | 2"             | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast |
| 4 wire spirals            | 2"             | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex                                                              |
| 6 wire spirals            | 2"             | Diamondspir up to 2"                                                                                                  |

| PRODUCT CODE  | DESCRIPTION                         |
|---------------|-------------------------------------|
| EOI3430S1500I | M 1500 INS COUPLING INSERTER 1/2-2" |

**GB**

**MAIN APPLICATIONS:**

It is dedicated to assemblers involved in relevant productions and small repair shops.

**OPTIONAL TOOLS:**

Available for the following hose sizes: 1/4", 3/8", 1/2" shell

**ES**

**APLICACIONES PRINCIPALES:**

Está diseñada para ensambladores que trabajan en producciones relevantes y pequeños talleres de reparación.

**HERRAMIENTAS OPCIONALES:**

Disponible para los siguientes tamaños: 1/4", 3/8", 1/2"

**D**

**HAUPTANWENDUNG:**

Speziell für Schlauchfertiger mit entsprechender Produktion und kleine Reparaturwerkstätten.

**OPTIONALE WERKZEUGE:**

Verfügbar für folgende Schlauchabmessungen: 1/4", 3/8", 1/2"

**IT**

**PRINCIPALI APPLICAZIONI:**

Dedicata ad assemblatori con produzioni rilevanti e a piccole officine.

**ACCESSORI OPZIONALI:**

Utensili disponibili per i seguenti diametri di tubo: 1/4", 3/8", 1/2"

# MARKING MACHINES

## BENCHTOPS

### M50 MARK

MANUAL ROLL MARKING MACHINE - 2"

#### TECHNICAL SPECIFICATION

|                       |      |                 |
|-----------------------|------|-----------------|
| Standard stamp holder |      | 2 x 14 stamps   |
| Size of the stamps    | mm   | 6 x 3           |
| Height of the writing | mm   | 2,5             |
| Stamp box supplied    |      | 100 stamps      |
|                       |      | 20 blanks       |
| Dimensions            | mm   | 390 x 360 x 520 |
|                       | inch | 30" x 26" x 12" |
| Weight                | kg   | 34              |
|                       | lbs  | 155             |



**Robust ■ Easy to use ■ Compact ■ Large space for 14 stamps**

**Robusta ■ Fácil de usar ■ Compacta ■ Amplio espacio para 14 caracteres**

**Robust ■ Einfach zu bedienen ■ Kompakt ■ Platz für 14 Stempel**

**Robusta ■ Facile da usare ■ Compatta ■ Ampio spazio per 14 caratteri**

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | MAX. HOSE SIZE | REF. HOSES                                                                                                            |
|---------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | 2"             | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast |
| 4 wire spirals            | 2"             | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex                                                              |



| PRODUCT CODE | DESCRIPTION                       |
|--------------|-----------------------------------|
| EOM3120N     | M50 MARK MANUAL MARKING (MACHINE) |
| ESM3410NNW   | NUMBERING WHEEL WITH 3 FIGURES    |

**GB**

### MAIN APPLICATIONS:

It is dedicated to repair shops and distributors making marking few quantities of ferrules.

### TOOLS INCLUDED:

Stamp box containing:

Letters (quantity in brackets): A(3), B(2), C(2), D(2), E(4), F(2), G(2), H(2), I(3), J(2), K(2), L(3), M(2), N(2), O(1), P(2), Q(1), R(3), S(3), T(2), U(3), V(2), W(1), X(1), Y(1), Z(1).

Numbers (quantity in brackets): 0(3), 1(3), 2(4), 3(4), 4(4), 5(3), 6(3), 7(3), 8(3), 9(3)

Signs (quantity in brackets): / (2), , (2), - (2), . (2)

### OPTIONAL TOOLS:

Stamp holder with numbering wheel: 3 figures on the wheel and one groove for 10 stamps

**ES**

### APLICACIONES PRINCIPALES:

Está dedicado a la reparación de las tiendas y distribuidores de toma de marcado unas pequeñas cantidades de terminales.

### HERRAMIENTAS INCLUIDAS:

Contenido caja troqueles:

Letters (cantidad por troquel): A(3), B(2), C(2), D(2), E(4), F(2), G(2), H(2), I(3), J(2), K(2), L(3), M(2), N(2), O(1), P(2), Q(1), R(3), S(3), T(2), U(3), V(2), W(1), X(1), Y(1), Z(1).

Números (cantidad por troquel): 0(3), 1(3), 2(4), 3(4), 4(4), 5(3), 6(3), 7(3), 8(3), 9(3)

Seriales (cantidad por troquel): / (2), , (2), - (2), . (2)

### HERRAMIENTAS OPCIONALES:

Portacaracteres conruleta: 3 dígitas en la ruleta y espacio para lo troqueles

**D**

### HAUPTANWENDUNG:

Speziell für Reparaturwerkstätten und Händler, die geringe Mengen Pressfassungen markieren.

### EINSCHLIESSLICH WERKZEUGE:

Inhalt der Druckerbox:

Buchstaben (Menge in Klammern): A(3), B(2), C(2), D(2), E(4), F(2), G(2), H(2), I(3), J(2), K(2), L(3), M(2), N(2), O(1), P(2), Q(1), R(3), S(3), T(2), U(3), V(2), W(1), X(1), Y(1), Z(1).

Ziffern (Menge in Klammern): 0(3), 1(3), 2(4), 3(4), 4(4), 5(3), 6(3), 7(3), 8(3), 9(3)

Zeichen (Menge in Klammern): / (2), , (2), - (2), . (2)

### OPTIONALE WERKZEUGE:

Stempelhalter mit Zählrad: 3 Zeichen auf dem Rad und eine Nut für 10 Stempel

**IT**

### PRINCIPALI APPLICAZIONI:

Dedicata a officine e distributori che realizzano limitate quantità di ghiera marcate.

### UTENSILI INCLUSI:

Scatola caratteri contenente:

Lettere (tra parentesi le quantità): A(3), B(2), C(2), D(2), E(4), F(2), G(2), H(2), I(3), J(2), K(2), L(3), M(2), N(2), O(1), P(2), Q(1), R(3), S(3), T(2), U(3), V(2), W(1), X(1), Y(1), Z(1).

Numeri (tra parentesi le quantità): 0(3), 1(3), 2(4), 3(4), 4(4), 5(3), 6(3), 7(3), 8(3), 9(3)

Simboli (tra parentesi le quantità): / (2), , (2), - (2), . (2)

### UTENSILI OPZIONALI:

Porta caratteri con ruota numerata: 3 caratteri sulla ruota e una asola per 10 caratteri

# PRESSURE TEST MACHINES

## STAND-TYPES

### MTB1500

STATIC TEST RIG - 2" 6WS

| TECHNICAL SPECIFICATION                  |      |                                                                                        |
|------------------------------------------|------|----------------------------------------------------------------------------------------|
| Capacity                                 | hp   | from 1/4" to 2"                                                                        |
| Maximum pressure                         | psi  | 21755                                                                                  |
| Maximum amount of hoses tested per cycle |      | 5                                                                                      |
| Connection diameter                      | bsp  | 3/8"                                                                                   |
| Maximum air input*                       | psi  | 116                                                                                    |
| Test fluid                               |      | Filtered water through external supply<br>Agua filtrada a través de una fuente externa |
| Dimensions                               | mm   | 2500 x 800 x 1050                                                                      |
|                                          | inch | 98" x 31" x 41"                                                                        |
| Weight                                   | kg   | 175                                                                                    |
|                                          | lbs  | 385                                                                                    |



Large testing area for up to 5 hoses ■ 2 manometers: 0-400 bar for precision reading and 0-1500 bar for high pressure ■ Lid double safety to turn the pressure off when opening ■ Test assemblies up to 2500 bar (see MTB2500)

Amplia área de prueba hasta para 5 mangueras ■ 2 manómetros: de 0-400 bar para lecturas de precisión y 0-1500 bar para alta presión ■ Tapa de doble seguridad para quitar la presión cuando se abre ■ Prueba ensambles hasta 2500 bar (ver MTB2500)

Großer Testbereich für bis zu 5 Schläuche, 2 Manometer: 0-400 bar für Präzisionsmessungen und 0-1500 bar für Hochdruckmessungen ■ Deckel mit doppelter Sicherheit, beim Öffnen wird der Druck abgeschaltet ■ Testaufbauten bis zu 2500 bar (siehe MTB2500)

Ampia area di test per più di 5 tubi ■ 2 manometri: 0-400 bar per una lettura precisa e 0-1500 bar per pressioni alte ■ Doppio coperchio di sicurezza per diminuire la pressione all'apertura ■ Testata fino a 2500 bar (vedi MTB2500)

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | MAX. HOSE SIZE | REF. HOSES                                                                                                            |
|---------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | 2"             | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast |
| 4 wire spirals            | 2"             | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex                                                              |
| 6 wire spirals            | 2"             | Diamondspir up to 2", Goldenblast/six, Rockmaster/13 and 15                                                           |

| PRODUCT CODE    | DESCRIPTION                              |
|-----------------|------------------------------------------|
| EOT3420SMTB1500 | MTB 1500BAR STATIC TEST 1/4-2" UP TO 6WS |
| EST3433NMTBEMU  | EMULSION TEST - 40 LITER TANK            |
| EST3433NMTBPC   | COMPUTER WITH REPORT PRINTER             |

**GB**

**MAIN APPLICATIONS:**

It is dedicated to assemblers involved in limited quantities of high pressure hoses.

**OPTIONAL TOOLS:**

Test with emulsion in filtered closed circuit. Digital controls linked to printer for test reports

**ES**

**APLICACIONES PRINCIPALES:**

Está diseñada para ensambladores que trabajan con limitadas cantidades de mangueras de alta presión.

**HERRAMIENTAS OPCIONALES:**

Prueba con emulsión en circuitos cerrados filtrados, Controles digitales enlazados a la impresora para reportes de prueba

**D**

**HAUPTANWENDUNG:**

Speziell für Schlauchfertiger und Reparaturwerkstätten.

**OPTIONALE WERKZEUGE:**

Prüfung mit Emulsion in gefiltertem, geschlossenem Kreislauf, digitale Steuerung mit Druckeranschluss für den Ausdruck der Testberichte

**IT**

**PRINCIPALI APPLICAZIONI:**

Dedicata ad assemblatori con produzioni limitate di tubi ad alta pressione.

**ACCESSORI OPZIONALI:**

Test con emulsione in circuiti chiusi filtrati. Controlli digitali collegati a stampante per rapporto dei test

# PRESSURE TEST MACHINES

## STAND-TYPES

### MTB2500

STATIC TEST RIG - 2" 6WS

| TECHNICAL SPECIFICATION                  |      |                                                                                        |
|------------------------------------------|------|----------------------------------------------------------------------------------------|
| Capacity                                 | hp   | from 1/4" to 2"                                                                        |
| Maximum pressure                         | psi  | 36259                                                                                  |
| Maximum amount of hoses tested per cycle |      | 5                                                                                      |
| Connection diameter                      | bsp  | 3/8"                                                                                   |
| Maximum air input*                       | psi  | 116                                                                                    |
| Test fluid                               |      | Filtered water through external supply<br>Agua filtrada a través de una fuente externa |
| Dimensions                               | mm   | 2500 x 800 x 1050                                                                      |
|                                          | inch | 98" x 31" x 41"                                                                        |
| Weight                                   | kg   | 175                                                                                    |
|                                          | lbs  | 385                                                                                    |



Large testing area for up to 5 hoses ■ 2 manometers: 0-400 bar for precision reading and 0-1500 bar for high pressure ■ Lid double safety to turn the pressure off when opening ■ Test assemblies up to 2500 bar

Amplia área de prueba hasta para 5 mangueras ■ 2 manómetros: de 0-400 bar para lecturas de precisión y 0-1500 bar para alta presión ■ Tapa de doble seguridad para quitar la presión cuando se abre ■ Prueba ensambles hasta 2500 bar

Großer Testbereich für bis zu 5 Schläuche, 2 Manometer: 0-400 bar für Präzisionsmessungen und 0-1500 bar für Hochdruckmessungen ■ Deckel mit doppelter Sicherheit, beim Öffnen wird der Druck abgeschaltet ■ Testaufbauten bis zu 2500 bar

Ampia area di test per più di 5 tubi ■ 2 manometri: 0-400 bar per una lettura precisa e 0-1500 bar per pressioni alte ■ Doppio coperchio di sicurezza per diminuire la pressione all'apertura ■ Testata fino a 2500 bar

## HOSE AND FITTING SELECTION

| HOSE TYPE                 | MAX. HOSE SIZE | REF. HOSES                                                                                                            |
|---------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------|
| 2 wire braids and textile | 2"             | Tractor, Harvester, Lyteflex, Pilot, Cover, Equator, Rockmaster and Shieldmaster braided, Astro, Multitex, Hydroplast |
| 4 wire spirals            | 2"             | Goldenspir, Rockmaster and Shieldmaster spiral, Xtraflex                                                              |
| 6 wire spirals            | 2"             | Diamondspir up to 2", Goldenblast/six, Rockmaster/13 and 15                                                           |

| PRODUCT CODE    | DESCRIPTION                              |
|-----------------|------------------------------------------|
| EOT3430SMTB2500 | MTB 2500BAR STATIC TEST 1/4-2" UP TO 6WS |
| EST3433NMTBEMU  | EMULSION TEST - 40 LITER TANK            |
| EST3433NMTBPC   | COMPUTER WITH REPORT PRINTER             |

**GB**

**MAIN APPLICATIONS:**

It is dedicated to assemblers involved in limited quantities of high pressure hoses.

**OPTIONAL TOOLS:**

Test with emulsion in filtered closed circuit, Digital controls linked to printer for test reports

**ES**

**APLICACIONES PRINCIPALES:**

Está diseñada para ensambladores que trabajan con limitadas cantidades de mangueras de alta presión.

**HERRAMIENTAS OPCIONALES:**

Prueba con emulsión en circuitos cerrados filtrados, Controles digitales enlazados a la impresora para reportes de prueba

**D**

**HAUPTANWENDUNG:**

Speziell für Schkauchfertiger und Hochdruckschläuchen.

**OPTIONALE WERKZEUGE:**

Prüfung mit Emulsion in gefiltertem, geschlossenem Kreislauf, digitale Steuerung mit Druckeranschluss für den Ausdruck der Testberichte

**IT**

**PRINCIPALI APPLICAZIONI:**

Dedicata ad assemblatori con produzioni limitate di tubi ad alta pressione.

**ACCESSORI OPZIONALI:**

Circuito chiuso filtrato per test con emulsioni, tester digitale collegabile a stampante per l'emissione di rapporti

# ACCESSORIES AND TOOLS

## CRIMPING MACHINES

### EQCG

#### **Available on all machines except MHP80**

The innovative dies quick change system is available on all electric crimping machines.

The quick change gun is the ideal tool to increase productivity and comfort.

#### **Fast, clean and ergonomic**

This system offers the possibility to change all the dies at once thanks to an ergonomic quick change gun. The die sets are cleanly organised and stored in die pods on the machine panel.

#### **Easy and safe**

The system has also been designed to be very simple to use (see below). Dies are changed in static position to avoid die pin breakage.

### EQCG

#### **Disponibile en todas las máquinas excepto MHP80**

El innovador sistema de cambio rápido de mordazas está disponible en todas las máquinas eléctricas de prensado. La pistola de cambio rápido es la herramienta ideal para aumentar la productividad y el comfort.

#### **Rápido, limpio y ergonómico**

Este sistema ofrece la posibilidad de cambiar todas las mordazas de inmediato gracias a una pistola ergonómica de cambio rápido. Los juegos de dados son adecuadamente organizados y almacenados en el panel de la máquina.

#### **Fácil y seguro**

El sistema también ha sido diseñado para ser muy simple de usar (vease a continuación). Las mordazas se cambian en posición estática para evitar la rotura del pin de la mordaza.

### EQCG

#### **Für alle Maschinen verfügbar, mit Ausnahme von MHP80**

Das innovative Backenwechselsystem ist für alle elektischen Pressen verfügbar.

Die Schnellwechselepistole ist ideal, um sowohl die Produktivität als auch den Bedienungskomfort zu verbessern.

#### **Schnell, sauber und ergonomisch**

Das System bietet die Möglichkeit, alle Backen auf einmal zu wechseln, dank einer ergonomischen Schnellwechselepistole. Die Backensätze sind sauber organisiert und in Ablagen auf dem Maschinenpaneel gelagert.

#### **Einfach und sicher**

Das System ist für einen sehr einfachen Gebrauch ausgelegt (siehe unten). Der Backenwechsel erfolgt in statischen Positionen, um das Brechen der Dorne zu vermeiden.

### EQCG

#### **Disponibile per tutte le machine, eccetto MHP80**

Innovativo sistema di sostituzione rapida dei morsetti disponibile su tutte le macchine da crimpaggio. Questo strumento è ideale per aumentare la produttività e il comfort.

#### **Vece, pulita ed ergonomica**

Questo sistema offre la possibilità di cambiare tutti i morsetti in una sola volta grazie alla pistola ergonomica di cambio rapido. I kit di morsetti sono comodamente organizzati e sistemati nelle apposite sedi poste sul pannello della macchina.

#### **Facile e sicuro**

Il sistema è stato progettato per essere molto semplice da usare (vedi sotto). I morsetti sono cambiati in posizione statica per evitare la rottura degli spinotti.



# ACCESSORIES AND TOOLS

## CRIMPING MACHINES



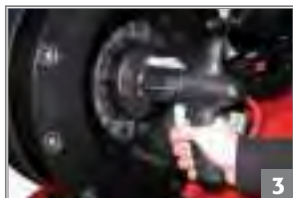
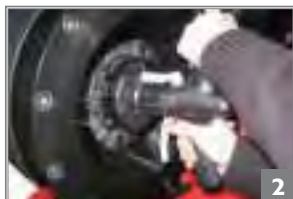
### HOW TO CHANGE THE DIE

#### TO INSERT THE DIES

1. Choose the correct die set and take it out of the die rack.
2. Insert the die set into the head, with master dies already closed.
3. Release the die set into the head by pulling the trigger of the QCG.

#### TO TAKE THE DIES OUT

4. Once the dies are closed. Insert the QCG into the head until the die set is fixed on the magnets of the QCG.
5. Pull the QCG out without pulling the trigger. The die set comes out of the head. The die set is held by the magnets on the gun.
6. Place the die set back into the die rack.



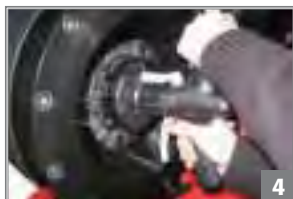
### COMO CAMBIAR LAS MORDAZAS

#### PARA INSERTAR LAS MORDAZAS

1. Escoja el juego correcto de mordazas y sáquelo del estante de las mordazas.
2. Inserte el juego de mordazas en el cabezal, con el portamordazas ya cerrado.
3. Libere el juego de mordazas dentro del cabezal apretando el gatillo de la pistola.

#### TO TAKE THE DIES OUT

4. Una vez que los dados se han cerrado, inserte la pistola dentro del cabezal hasta que el juego de dados esté ajustado en los magnetos de la pistola.
5. Hale la pistola hacia afuera sin halar el disparador. El juego de dados sale del cabezal. El juego de dados es sostenido por los magnetos de la pistola.
6. Coloque el juego de dados de nuevo en el panel de almacenamiento de los mismos.



### BACKENWECHSEL

#### EINSETZEN DER CRIMPWERKZEUGE

1. Wählen Sie den gewünschten Backensatz und nehmen Sie es aus der Halterung.
2. Setzen Sie es in den Kopf ein, wobei die Hauptbacken bereits geschlossen sind.
3. Durch Ziehen des Auslösers der QCG rastet der Backensatz ein.

#### HERAUSNEHMEN DES BACKENSATZES

4. Sobald die Backen geschlossen sind, setzen Sie den QCG ein bis die Backen am Magneten der Schnellwechselepistole haften. Setzen Sie die QCG in den Kopf. Die Pressbacke haftet an den Magneten der QCG.
5. Ziehen Sie die QCG ohne den Auslöser zu bedienen. Die Backen lösen sich aus dem Kopf. Die Magnete der Pistole halten die Backen.
6. Setzen Sie den Backensatz zurück in die Halterung.



### COME CAMBIARE UN SET DI MORSETTI

#### PER INSERIRE I MORSETTI

1. Scegliere il set di morsetti corretto ed estrarlo dalla rastrelliera.
2. Inserire il set di morsetti nella testa, con il porta morsetti già chiuso.
3. Rilasciare il set di morsetti spingendo il grilletto della pistola.

#### PER ESTRARRE I MORSETTI

4. Una volta che i morsetti son chiusi, inserire la pistola nella testa fino a che il set di morsetti sia ben fissato ai magneti della pistola.
5. Tirare la pistola senza spingere il grilletto. Il set di morsetti verrà estratto dalla testa della pressa trattenuto dai magneti della pistola.
6. Sistemare il set di morsetti nella rastrelliera.

# ACCESSORIES AND TOOLS

## CRIMPING MACHINES

### NUMERICAL VERNIER

#### **Available on all machines except MHP80**

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

This system is designed for the machines used in a repair workshop where assemblies are mostly composed of small series. The crimping diameter is easily adjusted thanks to a numerical vernier (2 colors highlighting mm and 0,1 mm). 100 units on the dial change by 1 mm the crimping diameter. The adjustment of the crimping diameter can be controlled up to 1/100 mm. The counter oriented toward the operator offers a high visibility; it also includes an end crimping light. A guard firmly fixed on the machine protects the vernier against shocks.



From MB1375 to MB350

#### VERNIER NUMÉRICO

##### **Disponible en todas las máquinas excepto MHP80**

El vernier numérico es el sistema de control estándar ofrecido en nuestras máquinas. Este sistema está diseñado para las máquinas usadas en un taller de reparación donde los ensambles están principalmente compuestos por pequeñas series. El diámetro de prensado es fácilmente ajustado gracias a un vernier numérico (2 colores indican mm y 0,1 mm). 100 unidades en el dial cambian por 1 mm el diámetro del prensado. El ajuste del diámetro del prensado puede ser controlado hasta 1/100 mm. El contador orientado hacia el operario ofrece una alta visibilidad, también incluye una luz de final de prensado. Una protección fírmemente protegida al micrómetro de posibles golpes.

#### NUMERISCHE JUSTIERUNG

##### **Für alle Maschinen verfügbar, mit Ausnahme von MHP80**

Die numerische Justierung ist eine Standardkontrollsystem auf unseren Maschinen. Das System wurde für Maschinen entwickelt, die in Reparaturwerkstätten zum Einsatz kommen, in denen überwiegend kleine Serien bearbeitet werden. Der Pressdurchmesser kann mit der numerischen Justierung einfach eingestellt werden (2 Farben markieren mm, bzw 0,1 mm Schritte). 100 Einheiten auf der Scheibe verändern den Pressdurchmesser um 1 mm. Die Einstellung des Pressdurchmessers kann bis auf 1/100 mm gesteuert werden. Der Zähler ist gut sichtbar angebracht und enthält auch ein Signallicht für das Ende der Verpressung. Der korrekt montierte Rahmen bietet ausreichend mechanischen Schutz.

#### NUMERICAL VERNIER

##### **Disponibile per tutti i modelli eccetto MHP80**

Il micrometro ergonomico di regolazione è il sistema di controllo standard offerto sulle nostre macchine e ideato appositamente per le officine di riparazione dove gli assemblati sono spesso realizzati in piccole serie. Il diametro di serraggio è facilmente regolabile grazie al micrometro (2 colori indicano mm e 0,1 mm). 100 unità sul quadrante corrispondono ad 1 mm di variazione del diametro di crimpatura. La regolazione del diametro può essere controllata fino a 1/100 mm. Il contatore orientato verso l'operatore offre un'alta visibilità; inclusa anche una luce indicante la fine dell'operazione di crimpatura. Una protezione saldamente ancorata alla macchina preserva il micrometro di regolazione dagli urti.



### TECH'CARE BOX WITH SEMI-AUTOMATIC OPENING

***It is a maintenance box essential to keep your machine in good condition. The Tech'Care box includes:***

- 2 Counters: 1 daily counter and 1 machine life counter
- 3 Indicator lights: 1 led for daily maintenance / 1 led for advanced maintenance / 1 led for expert maintenance
- Semi-automatic function: The semi-automatic opening is ideal for serial assemblies. You can adjust it just enough to let the fitting pass through the dies so as to reduce the cycle time.



#### CAJA TECH'CARE CON APERTURA SEMI-AUTOMATICA

***Una caja de mantenimiento esencial para tener la máquina en buenas condiciones. El Tech'Care incluye:***

- 2 contadores: 1 contador diario y 1 contador de vida de la máquina
- 3 luces indicadoras: 1 led para el mantenimiento diario / 1 led para el mantenimiento avanzado o preventivo / 1 led para el mantenimiento por el especialista o experto
- La función semi-automática: El sistema de apertura semi-automática para los ensambles en series. Puede ajustar la apertura de las mordazas suficiente para que pase el racor y así reducir el tiempo del ciclo.

#### TECH'CARE BOX MIT HALBAUTOMATISCHEN ÖFFNEN

***Diese Wartungshilfe ist eine wichtige Unterstützung um Ihre Presse in einem einwandfreien Zustand zu erhalten.***

***Die Tech'Care box enthält:***

- 2 Zähler: einen Tageszähler und einen Maschinenstundenzähler
- 3 Signalleuchten: 1 LED für Tageswartung, 1 LED für erweiterte Wartung und 1 LED für Wartung durch eine Fachwerkstatt
- Halbautomatische Funktion: der halbautomatische Öffner ist ideal für die Serienfertigung. Sie können das Öffnen der Backen so einstellen, dass die Armatur gerade durchpasst und dadurch der anschließende Pressvorgang beschleunigt und die Produktivität erhöht wird.

#### TECH'CARE BOX CON APERTURA SEMI-AUTOMATICA

***Uno strumento di manutenzione essenziale per mantenere la macchina in buone condizioni. La Tech'Care box comprende:***

- 2 contatori: 1 contatore quotidiano e un contatore per la vita della macchina
- 3 indicatori luminosi: 1 led per la manutenzione quotidiana, 1 led per la manutenzione avanzata, 1 led per la manutenzione di esperti
- Funzioni semi-automatiche: l'apertura semi-automatica è ideale per assemblati in serie. È possibile settarla in modo tale che il raccordo passi giusto attraverso i morsetti così da ridurre il tempo dell'operazione

# ACCESSORIES AND TOOLS

---

## CRIMPING MACHINES

### ELECTRICAL FOOT SWITCH (EFS)

**Available on machines from MB120 to MB350 and all stand-type models**

The pedal is necessary to increase the user friendship. It offers a higher safety for the user.

INTERRUPTOR ELÉCTRICO DE PEDAL (EFS)

*Disponibile en máquinas desde MB120 a MB350 y todos los modelos de tipo estándar*

El pedal es necesario para aumentar la facilidad de uso. Ofrece mayor seguridad para el usuario.

ELEKTRISCHER FUSSSCHALTER (EFS)

*Verfügbar auf den Maschinen von MB120 bis MB350 und allen Standmodellen*

Das Pedal verbessert deutlich die Bedienungsfreundlichkeit. Es bietet eine höhere Sicherheit für den Bediener.

COMANDO ELETTRICO A PEDALE

*Disponibile per le macchine dalla MB120 alla MB350 e per tutti i modelli verticali*

Il pedale è necessario per aumentare la facilità d'uso. Esso offre maggior sicurezza all'operatore.



### ERGONOMIC TABLE (ET)

#### **Available on benchtop crimpers**

Specially designed to fit the ergonomic line, the Ergonomic table offers a perfect working height and a great access around the machine. It offers also storage facilities with the front hook and the shelf.

#### MESA ERGONÓMICA (ET)

##### **Disponibles para prensas benchtop**

Diseñadas especialmente para ajustarse a la línea ergonómica, la mesa ergonómica ofrece una perfecta altura de trabajo y un gran acceso alrededor de la máquina. Ofrece también facilidades de almacenamiento con el gancho frontal y el estante.

#### ERGONOMISCHER TISCH (ET)

##### **Verfügbar für Werkbank-Maschinen**

Speziell für die ergonomische Linie designt, bietet der ergonomische Tisch eine perfekte Arbeitshöhe und eine hervorragende Zugänglichkeit rund um die Maschine. Dazu sind auch Ablagemöglichkeiten durch die Haken auf der Vorderseite und dem Regal vorhanden.

#### TAVOLO ERGONOMICO

##### **Disponibile su benchtop crimpers**

Ideato per adattarsi alla linea ergonomica, questo tavolo garantisce una perfetta altezza per lavorare e un eccellente accesso attorno a tutta la macchina. Sono presenti inoltre un comodo gancho frontale e un ripiano.



# ACCESSORIES AND TOOLS

## CRIMPING MACHINES

### INTERACTIVE SCREEN DISPLAY (ISD) DIGITAL CONTROL

The Interactive Screen Display is an intuitive control display, it is available for all MS machines. It presents many advantages.

- User friendly coloured touch screen.
- Interactive Manuli crimping chart already memorized with an easy selection of the hose & fitting (scrolling list)
- Possibility to create a personalized crimping chart
- Memory for more than 1 000 assembly data
- Uploading and downloading of data via USB or Flash card
- 2 counters included (daily and machine life)
- Automatic selection of the correct die size
- Maintenance signals
- MM or Inch



For OEM assembly shops, we have developed an expert version including more features:

- Operator login
- Hierarchical access through passwords.
- Production management: once the quantity is entered, an alarm will alert the operator that the batch is finished
- Validation of the crimping action through a pressure control (to avoid uncrimped end and special measurement process)
- Creation of assembly sequences (useful for hose assemblies composed of straight fittings and elbow fittings on other side).

#### PANTALLA DIGITAL (ISD) CONTROL DIGITAL

*La pantalla interactiva es un control intuitivo, está disponible para todas las máquinas MS. Presenta muchas ventajas:*

- Pantalla táctil a color
- Gama de prensado Manuli memorizado con fácil selección de las mangueras y racores (desplazando la lista)
- Posibilidad de crear un prensado personalizado
- Descarga y transmisión de datos via USB o tarjeta Flash
- 2 contadores (diario y vida de la máquina)
- Selección automática de la mordaza correcta.
- Seriales de mantenimiento
- MM o Pulgadas

Para series larga (OEM), hemos desarrollado una versión especial que incluye más rasgos:

- Login del operario
- Acceso jerárquico a través de contraseñas
- Dirección de Producción: cuando la cantidad se introduce, una alarma alertará al operario que el lote ha finalizado
- Validación del prensado a través de un mando de presión (para entrar un racor no prensado y el proceso de medida especial.
- Creación de secuencias de ensambles (útil para ensambles compuesto por terminales recto y codo).

#### INTERAKTIVES DISPLAY (ISD), DIGITALE STEUERUNG

Der interaktive Bildschirm ist eine intuitiv bedienbare Steuerung, verfügbar für alle MS Pressen. Diese Lösung bietet viele Vorteile:

- Benutzerfreundlicher farbiger Touchscreen
- Eine interaktive Manuli-Pressmaßtabelle ist bereits im Speicher hinterlegt. Die Schlauch-Armaturenkombination kann einfach aus einer Liste ausgewählt werden
- Eigene Pressmaßtabellen können erstellt werden
- Speicher für mehr als 1.000 Pressdaten
- Daten können per USB oder Speicherkarte hochgeladen oder ausgelesen werden
- 2 Zähler (Tages/Maschinenzähler) sind integriert
- Automatische Bestimmung der passenden Backengröße
- Wartungshinweise
- Metrische oder zöllische Maßdarstellung

Für OEM Serienfertiger haben wir einige erweiterte Expertenfunktionen entwickelt:

- Benutzeranmeldung
- Passwortgeschützter Zugriff auf verschiedene Funktionsebenen.

# ACCESSORIES AND TOOLS

## CRIMPING MACHINES

- Fertigungsmanagement: beim Erreichen einer voreingestellten Fertigungsmenge ertönt ein Warnsignal
- Überprüfung des Pressvorgangs anhand des Druckes (so können unverpresste Armaturen und auch spezifische Messvorschriften vermieden werden)
- Erstellung von Fertigungsreihen (nützlich bei Schläuchen mit gerader Armatur an einem und Bogenarmatur am anderen Ende)

### DISPLAY INTERATTIVO (ISD), CONTROLLO DIGITALE

Il display interattivo permette un controllo intuitivo. È disponibile per tutte le macchine MS. Ecco i vantaggi che presenta:

- schermo touch-screen con colori di facile utilizzo.
- tabella di crimpaggio Manuli interattiva, già memorizzata che permette una rapida selezione dei tubi e dei raccordi in uso (scrolling list)
- possibilità di creare una tabella di pressatura personalizzata
- più di 1000 dati di assemblaggio memorizzabili
- caricamento e download di dati via USB o Flash card
- 2 contatori inclusi (quotidiana e vita macchina)
- selezione automatica del corretto set di morsetti
- segnali di manutenzione
- misure in mm e inch

Per gli OEM, abbiamo sviluppato una versione speciale che presenta:

- login personalizzata per l'operatore
- accesso gerarchico attraverso password.
- gestione della produzione: una volta inserita la quantità di assemblati, un suono avverte quando il lotto è terminato
- validazione dell'azione di crimpaggio attraverso un controllo a pressione (per evitare terminali non crimpati e processi speciali di misura)
- creazione di sequenza di assemblati (utile per assemblati composti da raccordi dritti e raccordi curvi all'altra estremità).

## MECHANICAL (MBS) OR ELECTRICAL (EBS) BACKSTOP

**Available on machines from MB240 to MB350 and stand-type models**

The mechanical backstop is an excellent tool for the fast positioning of the fittings. It also exists in electric version for the crimping release.

### TOPE TRASERO MECÁNICO (MBS) O ELÉCTRICO (EBS)

**Disponible en máquinas desde MB240 a MB350 y modelos tipo stand**

El tope trasero mecánico es una herramienta excelente para la colocación rápida de las conexiones. También existe en versión eléctrica para la liberación de cada prensado.

### MECHANISCHER (MBS) ODER ELEKTRISCHER (EBS) TIEFENANSLAG

**Verfügbar für MB240 bis MB350 und für alle Standpressen**

Der mechanische Tiefenanschlag ist ein ausgezeichnetes Werkzeug um die Armaturen schnell und zuverlässig zu positionieren. Bei der elektrischen Version werden die Backen automatisch geöffnet.

### SISTEMA DI BLOCCO MECCANICO O ELETTRICO

**Disponibile dalla macchina MB240 alla MB350 e per i modelli verticali**

Il sistema di blocco meccanico è un eccellente strumento per un rapido posizionamento dei raccordi. Nella versione elettrica comanda il rilascio dell'assemblato.



# ACCESSORIES AND TOOLS

## CUTTING MACHINES

### DISC

The smooth disc is suggested to cut wire spiral, large bore wire braided hoses ( $> DN 31$ ) & Spirtex.

The serrated disc is suggested to cut small bore wire braided (DN31).

The scalloped disc (with wavy edge) is acceptable for all hose types.

#### DISCOS

El **disco liso** es sugerido para cortar mangueras con refuerzo espiral, trenzado de gran diámetro ( $> DN31$ ) y Spirtex.

El **disco dentado** es sugerido para cortar mangueras con refuerzo trenzado de diámetro pequeño.

El **disco ondulado**, es sugerido para todos los tipos de manguera.



#### TRENNSCHEIBEN

Das **glatte Messer** wird für Spiraldrahtschläuche und Drahtgeflechschläuche mit großem Durchmesser ( $>DN31$ ), sowie für Spirtexschläuchen empfohlen.

Das **gezahnte Trennscheibe** wird zum Schneiden von Drahtgeflechschläuchen mit kleinem Durchmesser empfohlen.

Das **Trennscheibe** mit der Wellenprofilklinge kann bei allen Schlauchtypen eingesetzt werden.

#### LAME

La **lama liscia** è adatta al taglio dei tubi spiralati metallici, treciati metallici grande diametro ( $>DN31$ ) e Spirtex.

La **lama dentellata** è adatta al taglio dei tubi treciati metallici di piccolo diametro.

La **lama ondulata** (con bordo ondulato) è accettabile per tutti i tipi di tubo.

### BRAKE MOTOR

#### **Available on all cutters**

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

#### MOTOR DE FRENO

##### *Disponibile per todos los modelos de cortadoras*

El motor de freno es un instrumento de seguridad, cuando el botón de parada se empuja, la cuchilla para inmediatamente.

#### MOTORBREMSE

##### *Verfügbar für alle Schneidgeräte*

Die Motorbremse ist eine Sicherheitsvorrichtung. Wird der Stoppschalter gedrückt, halten die Schneidblätter sofort an.

#### FRENO MOTORE

##### *Disponibile per tutti i modelli di taglierine*

Il freno motore è un utile strumento di sicurezza: quando il bottone di stop è schiacciato, la lama si ferma immediatamente.

# ACCESSORIES AND TOOLS

## SKIING MACHINES

All the skiving machines are mounted with the plug'n skive system, quick and easy insert of the tools.

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

Todas las máquinas de pelar están montadas con un sistema plug'n skive, para una rápida y fácil inserción de los accesorios. Gracias al sistema plug'n skive, no se necesita herramientas para insertar el mandril de pelado, es suficiente empujar el mandril de pelado, es suficiente empujar el mandril en el sistema de cierre, desplazando el pasador y tinar para bloquear.

Alle Schälmaschinen sind mit dem Plug'n skive System ausgestattet. Dies erlaubt das schnelle und einfache Wechseln der Werkzeuge. Es wird kein Werkzeug benötigt um den Dorn einzusetzen, dieser wird einfach bis zum Einrasten eingeschoben. Zum Lösen wird der Knopf angehoben und der Dorn kann abgezogen werden.

Tutte le macchine da pelatura sono montata con un sistema plug'n skive, per un veloce e facile inserimento degli accessori. Grazie al sistema Plug'n Skive, non sono necessari strumenti per inserire l'utensile di pelatura: è sufficiente spingere l'utensile nel sistema di bloccaggio, sollevare una manopola ed estrarre l'attrezzo per sbloccarlo.

## EXTERNAL SKIVING TOOLS

Depending on the machines and on customer needs, we offer 3 types of external skiving tools

> ESE (External Skiving Economic) for MH Sky and M 50 Sky+

The kit of ESE includes 10 mandrels: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2"

### HERRAMIENTAS PELADO EXTERNO

Dependiendo de la máquina y las necesidades del cliente, ofrecemos 3 tipos de herramientas de pelado externo:

> ESE para MH Sky y M 50 Sky+

El kit ESE incluye 10 mandriles: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2"

### AUSSENSCHÄLWERKZEUGE

In Abhängigkeit der Bedarfe bieten wir drei verschieden Varianten an.

ESE (External Skiving Economic) für MH Sky und M50Sky+.

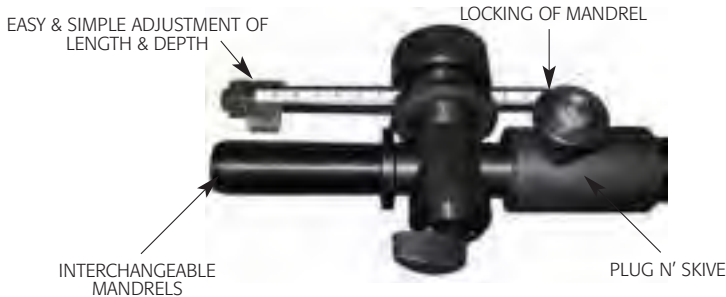
Das Set enthält 10 Dorne: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2"

### ACCESSORI PER PELATURA ESTERNA

a seconda della macchine e delle necessità del cliente, offriamo 3 tipologie diverse di strumenti per pelatura esterna

> ESE (External Skiving Economic) per MH Sky e M 50 Sky

Il kit ESE include 10 (utensili): 1/4", 3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2"



# ACCESSORIES AND TOOLS

## SKIING MACHINES

> ESA (External Skiving Adjustable) for M 205 SKY PLUS

The kit of ESA includes 11 Skiving Mandrels: ( $\varnothing 3/16''$ ,  $1/4''$ ,  $5/16''$ ,  $3/8''$ ,  $1/2''$ ,  $5/8''$ ,  $3/4''$ ,  $1''$ ,  $1\ 1/4''$ ,  $1\ 1/2''$ ,  $2''$ ). ESA are also available in 2  $1/2''$  and 3".

> ESA para M 205 SKY PLUS

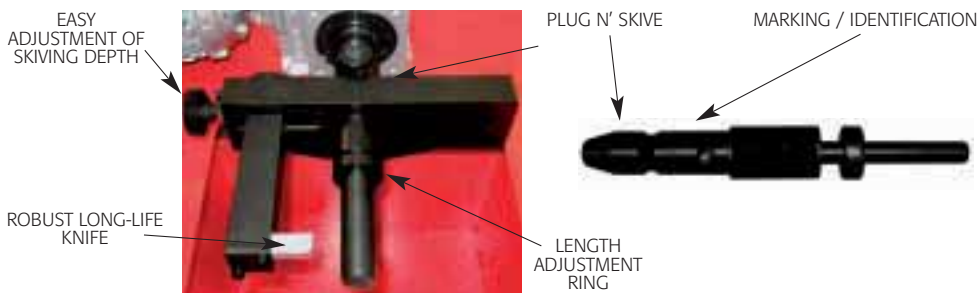
El kit of ESA incluye 11 mandriles: ( $\varnothing 3/16''$ ,  $1/4''$ ,  $5/16''$ ,  $3/8''$ ,  $1/2''$ ,  $5/8''$ ,  $3/4''$ ,  $1''$ ,  $1\ 1/4''$ ,  $1\ 1/2''$ ,  $2''$ ). ESA también es disponible en 2  $1/2''$  y 3".

ESA (External Skiving Adjustable) einstellbar, für M205 Sky PLUS

Das Set enthält 11 Schälldome: ( $\varnothing 3/16''$ ,  $1/4''$ ,  $5/16''$ ,  $3/8''$ ,  $1/2''$ ,  $5/8''$ ,  $3/4''$ ,  $1''$ ,  $1\ 1/4''$ ,  $1\ 1/2''$ ,  $2''$ ). ESA Werkzeuge sind auch für 2  $1/2''$  und 3" erhältlich.

> ESA (External Skiving Adjustable) per M 205 SKY PLUS

Il kit ESA include 11 (utensili di pelatura): ( $\varnothing 3/16''$ ,  $1/4''$ ,  $5/16''$ ,  $3/8''$ ,  $1/2''$ ,  $5/8''$ ,  $3/4''$ ,  $1''$ ,  $1\ 1/4''$ ,  $1\ 1/2''$ ,  $2''$ ). La serie ESA è disponibile anche in 2  $1/2''$  e 3".





# ACCESSORIES AND TOOLS

## SKIING MACHINES

> ESP (External Skiving Production) for M 50 SKY PLUS and M 205 SKY PLUS

ESP Tools are individual "Skiving Heads" meant to be pre-set to right depth and length for more productivity (Adjust One Time). It is recommended for skiving in series. A 2nd knife can be added for abrasion resistant cover. It is available in the following diameters: 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3".

> ESP para M 50 SKY PLUS y M 205 SKY PLUS

Las herramientas ESP se ha previsto para corregir la profundidad y longitud para una mayor productividad. Se recomienda para pelados en series. Una 2ª cuchilla se puede amadir con dependencia de la cubierta. Está disponible en los siguientes diámetros: 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3".

> ESP (External Skiving Production) für M50Sky PLUS und M205 Sky PLUS

ESP Werkzeuge sind individuelle „Schälköpfe“, also voreingestellte Werkzeuge mit entsprechendem Tiefenanschlag und Länge für erhöhte Produktivität (Zeitoptimierung). Sollte bei serienmäßigem Schälens eingesetzt werden. Für abriebfeste Schlauchdecken kann ein zweites Messer eingesetzt werden. Verfügbarkeit für folgende Durchmesser: 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3".

> ESP (External Skiving Production) per M 50 SKY PLUS e M 205 SKY PLUS

Il kit ESP presenta accessory singoli "Skiving Heads" ideate per essere pre-settati alla giusta profondità e lunghezza per una maggiore produttività (Adjust One Time). Sono ideali per pelature in serie. Una seconda lama può essere aggiunta per copertura resistenti all'abrasione con i seguenti diametri: 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3".



# ACCESSORIES AND TOOLS

## SKIVING MACHINES

### INTERNAL SKIVING TOOLS

> IS (Internal Skiving) for all machines

The kit includes 7 mandrels: 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2". They are also available in 3/8", 2 1/2", 3"  
The ring is heat treated to resist to the abrasion of the hose wires.

#### HERRAMIENTAS PELADO INTERNO

> IS (Pelado Interno) para todas las máquinas

El kit incluye 7 mandriles: 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2". También está disponible en 3/8", 2 1/2", 3"  
Elamillo está endurecido para que resista la abrasión debido al refuerzo de la manguera.

#### INNENSCHÄLWERKZEUGE

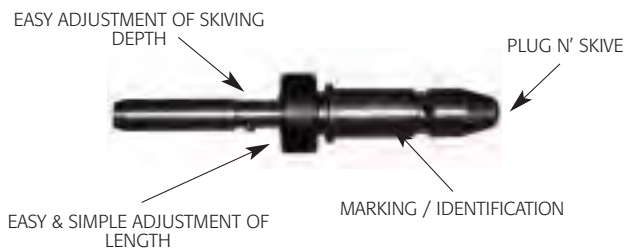
> IS (Internal Skiving) für alle Maschinen.

Das Set enthält 7 Dorne: 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2". Es sind auch 3/8", 2 1/2" und 3" verfügbar.  
Der Ring ist gehärtet, damit er der Schleifwirkung der Schlauchdrähte widersteht.

#### ACCESSORI PER PELATURA INTERNA

> IS (Internal Skiving) per tutte le macchine.

Il kit include 7 (utensili): 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2". Disponibili anche in 3/8", 2 1/2" e 3"  
L'anello è trattato termicamente per resistere all'abrasione dovuta al rinforzo del tubo.



### PNEUMATIC BENDING

#### **Available on M75 CUT**

The pneumatic bending is an option to facilitate the cutting, indeed the operator does not have to force to bend the hose on the blade, the pneumatic system does it for him. Moreover the cutting is activated by a foot switch which offers hands free. It is the same principle for the hydraulic bending on M90 CUT.

#### DOBLAMIENTO NEUMÁTICO

##### **Disponibile en M75 CUT**

El doblamiento neumático es una opción para facilitar el corte, por lo tanto el operador no tiene que forzarse a doblar la manguera en la cuchilla, el sistema neumático lo hace por él. Además el corte es activado por un interruptor de pedal el cual ofrece manos libres. Es el mismo principio para el doblamiento hidráulico en la M90 CUT.

#### PNEUMATISCHES BIEGEN

##### **Verfügbar für M75 CUT**

Das pneumatische Biegezubehör ist eine Option zur Vereinfachung des Schneidens. Der Bediener braucht den Schlauch nicht von Hand auf das Schneideblatt zu biegen, das erledigt das Pneumatiksystem für ihn. Darüber hinaus wird der Schneidvorgang über den Fußschalter gesteuert, so bleiben die Hände frei. Es handelt sich hier um das gleiche Prinzip wie für das hydraulische Biegen auf der der M90 CUT.

#### SPINGI TUBO PNEUMATICO

##### **Disponibile per la M75 CUT**

Lo spingi tubo pneumatico è un optional che facilita l'operazione di taglio, in quanto l'operatore non deve forzare l'incurvamento del tubo sulla lama perché il sistema pneumatico lo fa per lui. Inoltre, il taglio è attivato da un comando a pedale che permette di avere le mani libere. Si tratta dello stesso principio dello spingi tubo idraulico presente nella M90 CUT.

### HOSE CLAMPING SYSTEM

The hose clamping device is recommended for skiving hoses over 2" (DN 50).

El sistema de sujecion de manguera, se recomienda para mangueras que se pelen, a partir de 2" (DN 50)

Das Einspannsystem ist bei der Schälung von Schläuchen über 2" (DN 50) zu empfehlen.

Il sistema di bloccaggio tubo è raccomandato per la pelatura di tubi oltre i 2" (DN 50).



