



# Onlypul

Semi-automated continuous hydraulic tube puller

Maintenance

Tube puller



## A winning story since 1961

### The Beginning

At the end of the 1950s, Domenico Franco Agostino became the Italian representative of Albert Otto, a German manufacturer of tube expanders. In 1961 Franco Agostino's Albert Otto Italiana was founded and in 1972, after purchasing an area of 10,000 square metres in the municipality of Bagnolo Cremasco, Maus Italia Sas was established.

### The Growth

In 1976 his son Stefano, a mechanical engineer, joined the company. Together with his father, he studied products, introduced new machinery onto the market and filed the first patents by Maus Italia. Above all, Stefano was firmly convinced that people are the very heart of a company's success. Therefore, he invested in human capital by valuing people and roles, and he surrounded himself with skilled operators as well as technical, commercial and administrative collaborators. The result was a winning, competent and proactive team.

His daughter Anna - also a mechanical engineer - has been working in the company since 2016, giving new impetus and energy to the business her father and grandfather had built.

Father and daughter work together side by side every day to guarantee the excellence of Maus Italia and support all customers worldwide with competence and passion: the company's distinctive traits.



**Stefano Agostino**  
CEO - Mechanical Engineer

**Anna Agostino**  
COO - Mechanical and Management Engineer



## ***In-house production of each component*** ***Workshop 4.0 and 24/7 production control***

The production of Maus Italia branded items is entirely carried out in Bagnolo Cremasco, in the heart of an Italian industrial area 30 km southeast of Milan.

The company boasts a 4.0 workshop equipped with state-of-the-art machinery, an in-house heat treatment room and a final inspection department that allow Maus Italia to independently manage every phase of the manufacturing process of its wide range of products whilst maintaining high quality standards.



## ***Quality first.*** ***Design and development***

One of Maus Italia's strengths is its willingness to understand its customers' needs.

Our technical department is always ready to find operational solutions to the most complex applications, even via feasibility studies. We develop accurate work processes, draw with FEM analyses to verify our mechanical-structural performance and optimise the manufacturing process of each component.

## ***Ready To Deliver***

A well-stocked and complete warehouse of finished products enables Maus Italia ship quickly to customers all over the world according to a ready-to-deliver logic.

The warehouse is fully located within our premises in Bagnolo Cremasco at controlled temperatures and conditions to guarantee the maximum safety and quality of Maus Italia products for all our customers.

## ***Quality, environment and safety policy***

**Research, quality and safety are the watchwords of Maus Italia Spa.**

Maus Italia has several projects underway aimed at increasingly sustainable development and integrates environmental concerns into its business model. The company's actions, behaviour and development choices are focused not only on the short run but rather mainly on a medium and long-term horizon.



## ***Every day in over*** ***80 country*** ***worldwide***

Find an official distributor in your country





# Onlypul

*Semi-automated hydraulic tube puller for small-scale maintenance*

Maus Italia semi-automated hydraulic tube pullers are the result of more than forty years of experience in the field of tube extraction. Onlypul is designed and built for semi-automated and continuous tube extraction.

It comes in four versions depending on the extraction force ( Onlypul 15, Onlypul 30, Onlypul 45 and Onlypul 60 )



## **Semi-automatic**

Continuous tube extraction



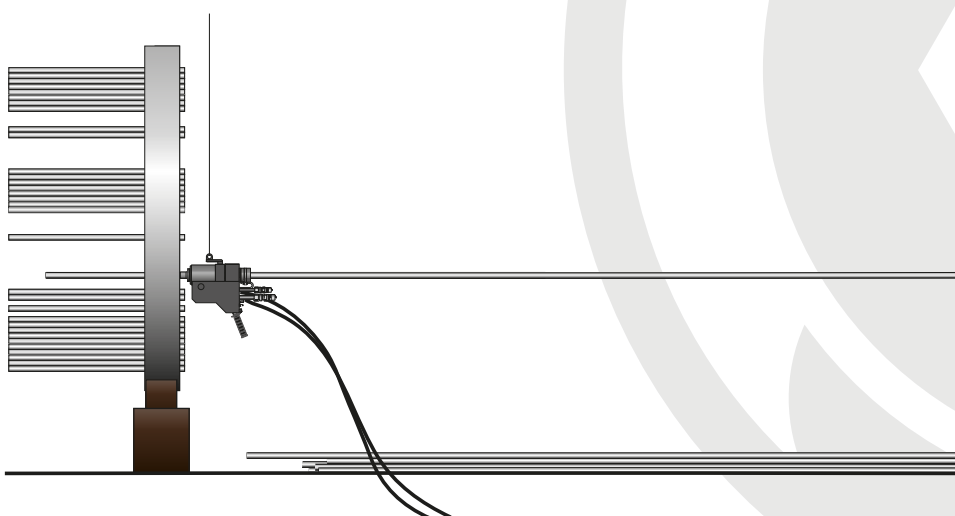
## **Entry level**

For small-scale maintenance operations



## **Economico**

Full equipment at reduced cost



## **The extraction process**

La procedura di estrazione consiste nelle seguenti fasi:

- Select the correct tools ( TPC thrust collar, TPJ tightening jaw and TPM extraction mandrel ) according to the dimensions of the tube to be extracted
- Mount the TPC thrust collar and TPJ tightening jaw onto the ONLYPUL hydraulic puller
- Screw the TPM extraction mandrel into the tube inlet using the TPA pneumatic screwdriver and TPS reduction coupling (Pic. A)
- Position the ONLYPUL hydraulic puller onto the TPM extraction mandrel until the TPC collar is in contact with the tube plate (Pic. B)
- Proceed with the tube extraction. In the first extraction phase, the TPJ jaws will clamp the TPM mandrel ( Fig. C )
- In the following steps, the TPJ extraction jaws will clamp the tube until it is fully extracted ( Fig. D )

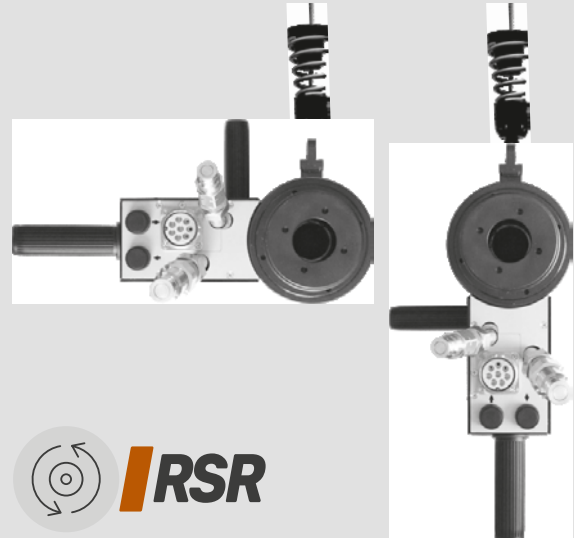


# Features that make the difference



## RC24

The RC24 remote control beside the knobs simplifies the working steps. In the electric version it is powered at a low voltage of 24 Volts.



## RSR

The Revolving Support Ring on which ONLYPUL is suspended allows optimal positioning in the tightest spaces.

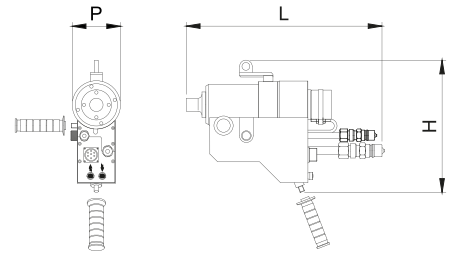
## HPHH

### High Pressure Hydraulic Hoses

High Pressure Hydraulic Hoses are 6 m (19.7 ft) long and certified for use up to 350 bar (5075 psi). They are equipped with FLAT fittings that reduce dripping during connection and disconnection from Onlypul and the TP10 hydraulic power unit. They are also equipped with safety systems that prevent a whip effect in the event of a broken hose-fitting connection.



## Electric version



### Onlypul 15 EM

- > Tube (*min < de > max*) 9,5 ÷ 28,6 mm - 3/8" ÷ 1.1/8"
- > Maximum extraction force 15000 Kg / 33000 lb
- > Stroke 101,6 mm / 4"
- > Dimensions:
  - Width *L*: 500 mm / 19.7"
  - Depth *P*: 125 mm / 4.9"
  - Height *H*: 340 mm / 13.4"
- > Remote control supply 24 V
- > Weight 21 Kg / 46.2 lb

### Onlypul 30 EM

- > Tube (*min < de > max*) 9,5 ÷ 42,4 mm - 3/8" ÷ 1.1/4" GAS
- > Maximum extraction force 30000 Kg / 66000 lb
- > Stroke 101,6 mm / 4"
- > Dimensions:
  - Width *L*: 500 mm / 19.7"
  - Depth *P*: 155 mm / 6.1"
  - Height *H*: 430 mm / 16.9"
- > Remote control supply 24 V
- > Weight 38 Kg / 83.6 lb

### Onlypul 45 EM

- > Tube (*min < de > max*) 25,4 ÷ 76,2 mm - 1" ÷ 3"
- > Maximum extraction force 45000 Kg / 99000 lb
- > Stroke 50,8 mm / 2"
- > Dimensions:
  - Width *L*: 510 mm / 20.1"
  - Depth *P*: 190 mm / 7.5"
  - Height *H*: 430 mm / 16.9"
- > Remote control supply 24 V
- > Weight 55 Kg / 121.2 lb

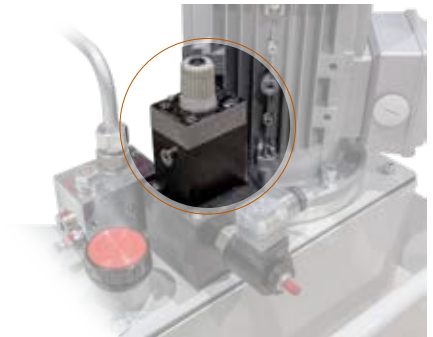
### Onlypul 60 EM

- > Tube (*min < de > max*) 50,8 ÷ 101,6 mm - 2" ÷ 4"
- > Maximum extraction force 60000 Kg / 132000 lb
- > Stroke 50,8 mm / 2"
- > Dimensions:
  - Width *L*: 510 mm / 20.1"
  - Depth *P*: 220 mm / 8.7"
  - Height *H*: 450 mm / 17.7"
- > Remote control supply 24 V
- > Weight 71 Kg / 156.5 lb

## Power unit coupling

The electric version of the Onlypul tube puller is combined with the TP10EVV power unit, though it can also be used in combination with the TP30EPF power unit.





### Flow Rate Adjustment Valve

The Flow Rate Adjustment Valve is required to regulate the flow of hydraulic oil to ensure the best gripping of the jaw in the tube when using the TP10EVV power unit with Grippul 11E and Grippul 21E

## TP10EVV

### Semi-automated hydraulic electric power unit

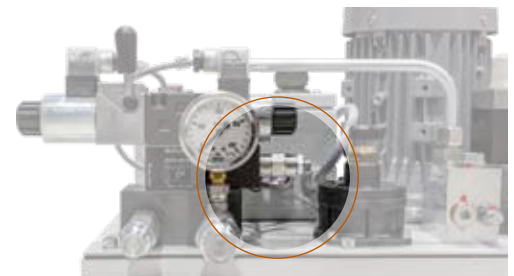
- > Max pressure: 350 bar/5075 psi
- > Oil flow:
 

Lt/min ( bar )	US/gpm ( psi )
12 ( 0÷70 )	3.17 ( 0÷1015 psi )
0,9 ( 70÷350 )	0.24 ( 1015÷5075 psi )
- > Hydraulic oil ( not included ): 30Lt/8 US Gallon - Viscosità 46
- > Supply: 1,1 Kw-230/400V-50/60 Hz-3 phase
- > Remote power control supply: 24V
- > IP: 30
- > Dimensions:
 

Width: 680 mm / 26.8"
Depth: 500 mm / 19.7"
Height: 720 mm / 28.3"
- > Weight ( without hydraulic oil ): 86 Kg / 189 lb
- > Crate ( power unit + Onlypul transport case )



Width:	113 cm / 3.70 ft
Depth:	93 cm / 3.05 ft
Height:	96 cm / 3.15 ft
Weight:	211 Kg / 465 lb

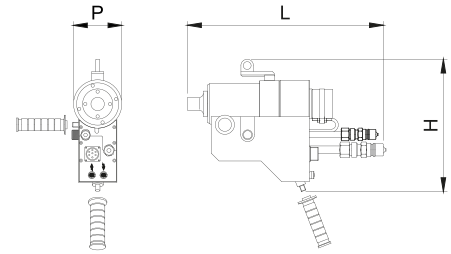


### Pressure Adjustment Valve

The Pressure Adjustment Valve is required to adjust the maximum hydraulic oil pressure when using a TP10EVV power unit with KATTEX 6E and KATTEX 12E hydraulic tube cutters



## Pneumatic version



### Onlypul 15 PM

- > Tube (*min < de > max*) 9,215 ÷ 28,6 mm - 3/8" ÷ 1.1/8"
- > Maximum extraction force 15000 Kg / 33000 lb
- > Stroke 101,6 mm / 4"
- > Dimensions:
  - Width *L*: 500 mm / 19.7"
  - Depth *P*: 125 mm / 4.9"
  - Height *H*: 340 mm / 13.4"
- > Remote control supply 24 V
- > Weight 21 Kg / 46.2 lb

### Onlypul 30 PM

- > Tube (*min < de > max*) 9,5 ÷ 42,4 mm - 3/8" ÷ 1.1/4"
- > Maximum extraction force 30000 Kg / 66000 lb
- > Stroke 101,6 mm / 4"
- > Dimensions:
  - Width *L*: 500 mm / 19.7"
  - Depth *P*: 155 mm / 6.1"
  - Height *H*: 430 mm / 16.9"
- > Remote control supply 24 V
- > Weight 38 Kg / 83.6 lb

### Onlypul 45 PM

- > Tube (*min < de > max*) 25,4 ÷ 76,2 mm - 1" ÷ 3"
- > Maximum extraction force 45000 Kg / 99000 lb
- > Stroke 50,8 mm / 2"
- > Dimensions:
  - Width *L*: 510 mm / 20.1"
  - Depth *P*: 190 mm / 7.5"
  - Height *H*: 430 mm / 16.9"
- > Remote control supply 24 V
- > Weight 55 Kg / 121.2 lb

### Onlypul 60 PM

- > Tube (*min < de > max*) 50,8 ÷ 101,6 mm - 2" ÷ 4"
- > Maximum extraction force 60000 Kg / 132000 lb
- > Stroke 50,8 mm / 2"
- > Dimensions:
  - Width *L*: 510 mm / 20.1"
  - Depth *P*: 220 mm / 8.7"
  - Height *H*: 450 mm / 17.7"
- > Remote control supply 24 V
- > Weight 71 Kg / 156.5 lb

## Power unit coupling

The electric version of the Onlypul tube puller is combined with the TP10EVV power unit, though it can also be used in combination with the TP30EPF power unit.



### Flow Rate Adjustment Valve

The Flow Rate Adjustment Valve is required to regulate the flow of hydraulic oil to ensure the best gripping of the jaw in the tube when using the **TP10PVV** power unit with **Grippul 11P** and **Grippul 21P**

## TP10PVV

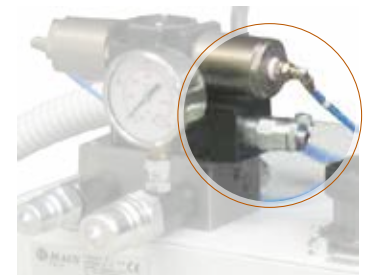
### Semi-automatic hydraulic pneumatic power unit

- > Max pressure: 350 bar / 5075 psi
- > Oil flow:
 

Lt/min ( bar )	US/gpm ( psi )
12 ( 0÷70 )	3.17 ( 0÷1015 psi )
0,9 ( 70÷350 )	0,24 ( 1015÷5075 psi )
- > Hydraulic oil ( not included ): 30Lt/8 US Gallon - Viscosità 46
- > Motor power: 1,7 Kw - 7 bar ( 100 psi )
- > Air consumption: 1900 Lt/min ( 67 Cfm ) - 7 bar / 100 psi
- > Dimensions:
  - Width: 680 mm / 26.8"
  - Depth: 500 mm / 19.7"
  - Height: 600 mm / 23.6"
- > Weight ( without hydraulic oil ): 67,5 Kg / 149 lb
- > Crate ( power unit + Onlypul transport case )



Width:	113 cm / 3.70 ft
Depth:	93 cm / 3.05 ft
Height:	96 cm / 3.15 ft
Weight:	192 Kg / 423 lb



### Pressure Adjustment Valve

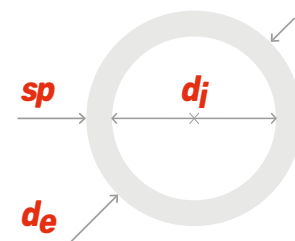

The Pressure Adjustment Valve is required to adjust the maximum hydraulic oil pressure when using a **TP10PVV** power unit with **KATTEX 6P** and **KATTEX 12P** hydraulic tube cutters



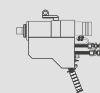
# TPM

Extraction mandrel for tubes from 3/8" ( 9,5mm ) to 2.1/2" ( 63,5mm )


Tube features				Mandrel <input checked="" type="checkbox"/>	
<b>de</b>		<b>sp</b>	<b>dj</b>		
inches	mm	B.W.G	mm	inches	Cod. In.
<b>3/8" (9,5)</b>	17 ÷ 19	6,5 ÷ 7,5	0.256 ÷ 0.295	<b>TPM-7</b>	5/16"
	20 ÷ 24	7,5 ÷ 8,5	0.295 ÷ 0.335	<b>TPM-8</b>	
<b>1/2" (12,7)</b>	14 ÷ 16	8,5 ÷ 9,5	0.335 ÷ 0.374	<b>TPM-9</b>	3/8"
	17 ÷ 18	9,5 ÷ 10,5	0.374 ÷ 0.413	<b>TPM-10</b>	
	19 ÷ 21	10,5 ÷ 11,5	0.413 ÷ 0.453	<b>TPM-11</b>	
	24	11,5 ÷ 12,5	0.453 ÷ 0.492	<b>TPM-12</b>	
<b>5/8" (15,9)</b>	12 ÷ 13	10,3 ÷ 11,1	0.407 ÷ 0.435	<b>TPM-11A</b>	1/2"
	14 ÷ 15	11,7 ÷ 12,2	0.459 ÷ 0.481	<b>TPM-12A</b>	
	16 ÷ 17	12,5 ÷ 13,5	0.492 ÷ 0.531	<b>TPM-13A</b>	
	19 ÷ 21	13,5 ÷ 14,5	0.531 ÷ 0.571	<b>TPM-14A</b>	
	23 ÷ 24	14,5 ÷ 15,5	0.571 ÷ 0.610	<b>TPM-15A</b>	
<b>3/4" (19,0)</b>	11	12,5 ÷ 13,5	0.492 ÷ 0.531	<b>TPM-13</b>	5/8"
	12 ÷ 13	13,5 ÷ 14,5	0.531 ÷ 0.571	<b>TPM-14</b>	
	14 ÷ 15	14,5 ÷ 15,5	0.571 ÷ 0.610	<b>TPM-15</b>	
	16 ÷ 17	15,5 ÷ 16,5	0.610 ÷ 0.650	<b>TPM-16</b>	
	18 ÷ 20	16,5 ÷ 17,5	0.650 ÷ 0.689	<b>TPM-17</b>	
	21 ÷ 24	17,5 ÷ 18,5	0.689 ÷ 0.728	<b>TPM-18</b>	
<b>7/8" (22,2)</b>	14	17,5 ÷ 18,5	0.689 ÷ 0.728	<b>TPM-18S</b>	5/8"
	16 ÷ 17	18,5 ÷ 19,5	0.728 ÷ 0.768	<b>TPM-19S</b>	
	18 ÷ 19	19,5 ÷ 20,5	0.768 ÷ 0.807	<b>TPM-20S</b>	
<b>1" (25,4)</b>	10 ÷ 11	18,5 ÷ 19,5	0.728 ÷ 0.768	<b>TPM-19</b>	3/4"
	12	19,5 ÷ 20,5	0.768 ÷ 0.807	<b>TPM-20</b>	
	13 ÷ 14	20,5 ÷ 21,5	0.807 ÷ 0.846	<b>TPM-21</b>	
	15 ÷ 16	21,5 ÷ 22,5	0.846 ÷ 0.886	<b>TPM-22</b>	
	18	22,5 ÷ 23,5	0.886 ÷ 0.925	<b>TPM-23</b>	
	19 ÷ 20	23,5 ÷ 24,5	0.925 ÷ 0.965	<b>TPM-24</b>	
	23 ÷ 24	24,5 ÷ 25,4	0.956 ÷ 1.004	<b>TPM-25G</b>	
<b>3/4" Gas(26,9)</b>	13	21,5 ÷ 22,5	0.846 ÷ 0.886	<b>TPM-22G</b>	3/4"
	14 ÷ 15	22,5 ÷ 23,5	0.886 ÷ 0.925	<b>TPM-23G</b>	
	16 ÷ 17	23,5 ÷ 24,5	0.925 ÷ 0.965	<b>TPM-24G</b>	
	19 ÷ 21	24,5 ÷ 25,4	0.956 ÷ 1.004	<b>TPM-25G</b>	
<b>1.1/4" (31,8)</b>	10	24,5 ÷ 25,4	0.956 ÷ 1.004	<b>TPM-25</b>	1"
	11 ÷ 12	25,5 ÷ 26,5	1.004 ÷ 1.043	<b>TPM-26</b>	
	13	26,5 ÷ 27,5	1.043 ÷ 1.083	<b>TPM-27</b>	
	14 ÷ 15	27,5 ÷ 28,5	1.083 ÷ 1.112	<b>TPM-28</b>	
	16 ÷ 18	28,5 ÷ 29,5	1.112 ÷ 1.161	<b>TPM-29</b>	
	19 ÷ 22	29,5 ÷ 30,5	1.161 ÷ 1.201	<b>TPM-30</b>	
	23 ÷ 24	30,5 ÷ 31,5	1.201 ÷ 1.240	<b>TPM-31</b>	
	9	25,5 ÷ 26,5	1.004 ÷ 1.043	<b>TPM-26G</b>	
<b>1" Gas (33,7)</b>	10	26,5 ÷ 27,5	1.043 ÷ 1.063	<b>TPM-27G</b>	1"
	11	27,5 ÷ 28,5	1.083 ÷ 1.122	<b>TPM-28G</b>	
	13 ÷ 14	28,5 ÷ 29,5	1.122 ÷ 1.161	<b>TPM-29G</b>	

Dimensions fit for  
**Onlypul 15**



Dimensions fit for  
**Onlypul 30**

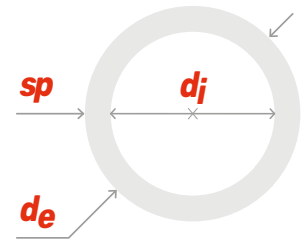


Dimensions fit for  
**Onlypul 45**



**Tube features** **Mandrel**

$d_e$		$sp$		$d_j$		Cod.	In.
inches	mm	B.W.G	mm	inches			



<b>1.1/2" (38,1)</b>	10 ÷ 11	31,5 ÷ 32,5	1.240 ÷ 1.280	TPM-32	3/8"
	12 ÷ 13	32,5 ÷ 33,5	1.280 ÷ 1.319	TPM-33	
	14	33,5 ÷ 34,5	1.319 ÷ 1.358	TPM-34	
	15 ÷ 17	34,5 ÷ 35,5	1.358 ÷ 1.398	TPM-35	
	18 ÷ 20	35,5 ÷ 36,5	1.398 ÷ 1.437	TPM-36	
	21 ÷ 24	36,5 ÷ 37,5	1.437 ÷ 1.280	TPM-37	
<b>1.1/4" Gas (42,4)</b>	12	36,5 ÷ 37,5	1.437 ÷ 1.476	TPM-37G	1"
	15 ÷ 16	37,5 ÷ 38,5	1.476 ÷ 1.516	TPM-38G	
	14 ÷ 16	38,5 ÷ 39,5	1.516 ÷ 1.555	TPM-39G	
	17 ÷ 19	39,5 ÷ 40,5	1.555 ÷ 1.594	TPM-40G	
	20 ÷ 24	40,5 ÷ 41,5	1.594 ÷ 1.634	TPM-41G	
<b>1.3/4" (44,4)</b>	10 ÷ 11	37,5 ÷ 38,5	1.476 ÷ 1.516	TPM-38/44	1"
	12	38,5 ÷ 39,5	1.516 ÷ 1.555	TPM-39/44	
	13 ÷ 14	39,5 ÷ 40,5	1.555 ÷ 1.594	TPM-40/44	
	15 ÷ 16	40,5 ÷ 41,5	1.594 ÷ 1.634	TPM-41/44	
	18 ÷ 19	41,5 ÷ 42,5	1.634 ÷ 1.673	TPM-42/44	
	20 ÷ 24	42,5 ÷ 43,5	1.673 ÷ 1.713	TPM-43/44	
<b>1.1/2" Gas (48,3)</b>	11 ÷ 12	42,5 ÷ 43,5	1.673 ÷ 1.713	TPM-43G	1"
	13 ÷ 14	43,5 ÷ 44,5	1.713 ÷ 1.752	TPM-44G	
	15 ÷ 17	44,5 ÷ 45,5	1.752 ÷ 1.791	TPM-45G	
	18 ÷ 19	45,5 ÷ 43,5	1.791 ÷ 1.831	TPM-46G	
<b>2" (50,8)</b>	10	43,5 ÷ 44,5	1.713 ÷ 1.752	TPM-44/51	1"
	11 ÷ 17	44,5 ÷ 45,5	1.752 ÷ 1.791	TPM-45/51	
	13	45,5 ÷ 46,5	1.791 ÷ 1.831	TPM-46/51	
	14 ÷ 15	46,5 ÷ 47,5	1.831 ÷ 1.870	TPM-47/51	
	16 ÷ 18	47,5 ÷ 48,5	1.870 ÷ 1.909	TPM-48/51	
	19 ÷ 22	48,5 ÷ 21,5	1.909 ÷ 1.949	TPM-49/51	
<b>2.1/4" (57,1)</b>	9 ÷ 10	49,5 ÷ 50,5	1.949 ÷ 1.985	TPM-50/57	1.1/2"
	11	50,5 ÷ 51,5	1.985 ÷ 1.476	TPM-51/57	
	12 ÷ 13	51,5 ÷ 52,5	2.028 ÷ 2.067	TPM-52/57	
<b>2" Gas (60,3)</b>	7	50,5 ÷ 51,5	1.999 ÷ 2.029	TPM-51G	1.1/2"
	8	51,5 ÷ 52,5	2.028 ÷ 2.057	TPM-52G	
	9	52,5 ÷ 53,5	2.067 ÷ 2.105	TPM-53G	
<b>2.1/2" (63,5)</b>	7	53,5 ÷ 54,4	2.105 ÷ 2.145	TPM-54/63	1.1/2"
	8	54,5 ÷ 55,4	2.145 ÷ 2.185	TPM-55/63	
	9	55,5 ÷ 56,5	2.185 ÷ 2.224	TPM-56/63	
	10	56,5 ÷ 57,5	2.224 ÷ 2.264	TPM-57/63	

Dimensions fit for  
**Onlypul 30**

Dimensions fit for  
**Onlypul 45**

Dimensions fit for  
**Onlypul 60**

# Jaw TPJ



<i>de</i>	<b>Onlypul 15</b>	<b>Onlypul 30</b>	<b>Onlypul 45</b>	<b>Onlypul 60</b>
<i>inches</i>	<i>Cod.</i>	<i>Cod.</i>	<i>Cod.</i>	<i>Cod.</i>
3/8"	TPJ/15-1	TPJ/30-1	-	-
1/2"	TPJ/15-2	TPJ/30-2	-	-
5/8"	TPJ/15-3	TPJ/30-3	-	-
3/4"	TPJ/15-4	TPJ/30-4	-	-
7/8"	TPJ/15-4/A	TPJ/30-4/A	-	-
1"	TPJ/15-5	TPJ/30-5	TPJ/45-5	-
3/4" Gas	-	TPJ/30-6	TPJ/45-6	-
1.1/4"	-	TPJ/30-7	TPJ/45-7	-
1" Gas	-	TPJ/30-8	TPJ/45-8	-
1.1/2"	-	TPJ/30-9	TPJ/45-9	-
1.1/4" Gas	-	TPJ/30-10	TPJ/45-10	-
1.3/4"	-	-	TPJ/45-11	-
1.1/2" Gas	-	-	TPJ/45-12	-
2"	-	-	TPJ/45-13	TPJ/60-13
2.1/4"	-	-	TPJ/45-14	TPJ/60-14
2" Gas	-	-	TPJ/45-15	TPJ/60-15
2.1/2"	-	-	TPJ/45-16	TPJ/60-16
3"	-	-	TPJ/45-17	TPJ/60-17
3.1/2"	-	-	-	TPJ/60-18
4"	-	-	-	TPJ/60-19

# TPC Collars



<i>de</i>	<b>Onlypul 15</b>	<b>Onlypul 30</b>	<b>Onlypul 45</b>	<b>Onlypul 60</b>
<i>inches</i>	<i>Cod.</i>	<i>Cod.</i>	<i>Cod.</i>	<i>Cod.</i>
3/8"	TPC-11	TPC-11	-	-
1/2"	TPC-14	TPC-14	-	-
5/8"	TPC-18	TPC-18	-	-
3/4"	TPC-21	TPC-21	-	-
7/8"	TPC-25	TPC-25	-	-
1"	TPC-28	TPC-28	TPC-28	-
3/4" Gas	-	TPC-31	TPC-31	-
1.1/4"	-	TPC-34	TPC-34	-
1" Gas	-	TPC-37	TPC-37	-
1.1/2"	-	TPC-41	TPC-41	-
1.1/4" Gas	-	TPC-44	TPC-44	-
1.3/4"	-	-	TPC/45-48	-
1.1/2" Gas	-	-	TPC/45-53	-
2"	-	-	TPC/45-56	TPC/60-56
2.1/4"	-	-	TPC/45-60	TPC/60-60
2" Gas	-	-	TPC/45-63	TPC/60-63
2.1/2"	-	-	TPC/45-66	TPC/60-66
3"	-	-	TPC/45-80	TPC/60-80
3.1/2"	-	-	-	TPC/60-93
4"	-	-	-	TPC/60-105

# TPM-K

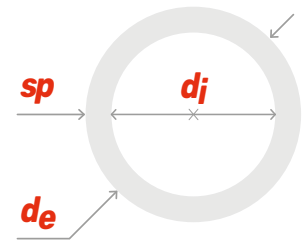


Quick gripping extraction mandrel for tubes from 38,1 mm ( 1.1/2" ) to 101,6 mm ( 4" ).

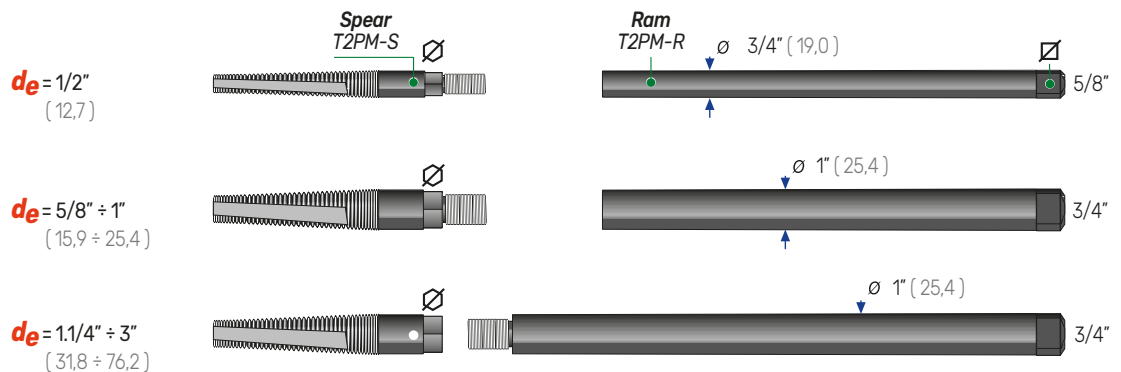
An exclusive Maus Italia-designed extraction spear: used in combination with the Runpul puller allows for a rapid tube extraction without the need for tightening with a screwer ( no screwer or specific keys required ).

Tube		Mandrel	Cone	Jaw	Extension			
<i>d<sub>e</sub></i>	<i>sp</i>	<i>d<sub>i</sub></i>						
inches mm	B.W.G	mm	inches	Cod.	Inches / mm	Cod.	Cod.	Cod.
<b>1.1/2"</b> <b>(38,1)</b>	10 ÷ 11	31,5 ÷ 32,5	1.240 ÷ 1.280	TPM-K-32	CK-32÷37	JK-32	RK-32÷37	1.1/4"
	12 ÷ 13	32,5 ÷ 33,5	1.280 ÷ 1.319	TPM-K-33		JK-33		
	14	33,5 ÷ 34,5	1.319 ÷ 1.358	TPM-K-34		JK-34		
	15 ÷ 17	34,5 ÷ 35,5	1.358 ÷ 1.397	TPM-K-35		JK-35		
	18 ÷ 20	35,5 ÷ 36,5	1.397 ÷ 1.437	TPM-K-36		JK-36		
	21 ÷ 24	36,5 ÷ 37,5	1.437 ÷ 1.476	TPM-K-37		JK-37		
<b>1.3/4"</b> <b>(44,4)</b>	10 ÷ 11	37,5 ÷ 38,5	1.476 ÷ 1.516	TPM-K-38	CK-38÷43	JK-38	RK-38÷43	1.1/4"
	12	38,5 ÷ 39,5	1.516 ÷ 1.555	TPM-K-39		JK-39		
	13 ÷ 14	39,5 ÷ 40,5	1.555 ÷ 1.594	TPM-K-40		JK-40		
	15 ÷ 16	40,5 ÷ 41,5	1.594 ÷ 1.673	TPM-K-41		JK-41		
	18 ÷ 19	41,5 ÷ 42,5	1.634 ÷ 1.673	TPM-K-42		JK-42		
	20 ÷ 24	42,5 ÷ 43,5	1.673 ÷ 1.713	TPM-K-43		JK-43		
<b>2"</b> <b>(50,8)</b>	10	43,5 ÷ 44,5	1.713 ÷ 1.752	TPM-K-44	CK-44÷49	JK-44	RK-44÷49	1.1/4"
	11 ÷ 12	44,5 ÷ 45,5	1.752 ÷ 1.791	TPM-K-45		JK-45		
	13	45,5 ÷ 46,5	1.791 ÷ 1.831	TPM-K-46		JK-46		
	14 ÷ 15	46,5 ÷ 47,5	1.831 ÷ 1.870	TPM-K-47		JK-47		
	16 ÷ 18	47,5 ÷ 48,5	1.870 ÷ 1.909	TPM-K-48		JK-48		
	19 ÷ 22	48,5 ÷ 49,5	1.909 ÷ 1.949	TPM-K-49		JK-49		
<b>2.1/4"</b> <b>(57,1)</b>	9 ÷ 10	49,5 ÷ 50,5	1.949 ÷ 1.988	TPM-K-50	CK-50÷52	JK-50	RK-50÷52	1.1/2"
	11	50,5 ÷ 51,5	1.988 ÷ 2.028	TPM-K-51		JK-51		
	12 ÷ 13	51,5 ÷ 52,5	2.028 ÷ 2.067	TPM-K-52		JK-52		
<b>2.1/2"</b> <b>(63,5)</b>	7	53,5 ÷ 54,5	2.106 ÷ 2.146	TPM-K-54	CK-54÷57	JK-54	RK-54÷57	1.1/2"
	8	54,5 ÷ 55,5	2.146 ÷ 2.185	TPM-K-55		JK-55		
	9	55,5 ÷ 56,5	2.185 ÷ 2.224	TPM-K-56		JK-56		
	10	56,5 ÷ 57,5	2.224 ÷ 2.264	TPM-K-57		JK-57		
<b>3"</b> <b>(76,2)</b>	7	66,5 ÷ 67,5	2.618 ÷ 2.667	TPM-K-67	CK-67÷70	JK-67	RK-67÷70	1.3/4"
	8	67,5 ÷ 68,5	2.657 ÷ 2.697	TPM-K-68		JK-68		
	9 ÷ 10	68,5 ÷ 69,5	2.697 ÷ 2.736	TPM-K-69		JK-69		
	11	69,5 ÷ 70,5	2.736 ÷ 2.776	TPM-K-70		JK-70		
<b>3.1/2"</b> <b>(88,9)</b>	6	78,5 ÷ 79,5	3.091 ÷ 3.130	TPM-K-79	CK-79÷82	JK-79	RK-79÷82	1.3/4"
	7	79,5 ÷ 80,5	3.130 ÷ 3.169	TPM-K-80		JK-80		
	8 ÷ 9	80,5 ÷ 81,5	3.169 ÷ 3.209	TPM-K-81		JK-81		
	10	81,5 ÷ 82,5	3.209 ÷ 3.248	TPM-K-82		JK-82		
<b>4"</b> <b>(101,6)</b>	6	91,5 ÷ 92,5	3.602 ÷ 3.642	TPM-K-92	CK-92÷95	JK-92	RK-92÷95	1.3/4"
	7 ÷ 8	92,5 ÷ 93,5	3.642 ÷ 3.681	TPM-K-93		JK-93		
	9	93,5 ÷ 94,5	3.681 ÷ 3.720	TPM-K-94		JK-94		
	10	94,5 ÷ 95,5	3.720 ÷ 3.760	TPM-K-95		JK-95		

# T2PM



Tube features				Mandrel	Extension	Jaw	Cone	
$d_e$		$sp$	$dim$					
inches	mm	B.W.G	mm	inches	Cod.	Inches mm	Cod.	Cod.
<b>1/2"</b> (12,7)	14 ÷ 16	8,5 ÷ 9,5	0.335 ÷ 0.374	T2PM-S9	17 0.669	T2PM-R9÷12	TPJ/15-4 TPJ/30-4	TPC/21
	17 ÷ 18	9,5 ÷ 10,5	0.374 ÷ 0.413	T2PM-S10				
	19 ÷ 21	10,5 ÷ 11,5	0.413 ÷ 0.453	T2PM-S11				
	24	11,5 ÷ 12,5	0.453 ÷ 0.492	T2PM-S12				
<b>5/8"</b> (15,9)	16 ÷ 17	12,5 ÷ 13,5	0.492 ÷ 0.531	T2PM-S13	22 0.866	T2PM-R13÷24	TPJ/15-5 TPJ/30-5	TPC/28
	19 ÷ 21	13,5 ÷ 14,5	0.531 ÷ 0.571	T2PM-S14				
	23 ÷ 24	14,5 ÷ 13,5	0.571 ÷ 0.610	T2PM-S15				
<b>3/4"</b> (19,0)	11	12,5 ÷ 14,5	0.492 ÷ 0.531	T2PM-S13	22 0.866	T2PM-R13÷24	TPJ/15-5 TPJ/30-5	TPC/28
	12 ÷ 13	13,5 ÷ 15,5	0.531 ÷ 0.571	T2PM-S14				
	14 ÷ 15	14,5 ÷ 13,5	0.571 ÷ 0.610	T2PM-S15				
	16 ÷ 17	15,5 ÷ 14,5	0.610 ÷ 0.650	T2PM-S16				
	18 ÷ 20	16,5 ÷ 15,5	0.650 ÷ 0.689	T2PM-S17				
<b>7/8"</b> (22,2)	21 ÷ 24	17,5 ÷ 18,5	0.689 ÷ 0.728	T2PM-S18	22 0.866	T2PM-R13÷24	TPJ/15-5 TPJ/30-5	TPC/28
	14	17,5 ÷ 18,5	0.689 ÷ 0.728	T2PM-S18				
	16 ÷ 17	18,5 ÷ 19,5	0.728 ÷ 0.768	T2PM-S19				
<b>1"</b> (25,4)	18 ÷ 19	19,5 ÷ 20,5	0.768 ÷ 0.807	T2PM-S20	22 0.866	T2PM-R13÷24	TPJ/15-5 TPJ/30-5	TPC/28
	10 ÷ 11	18,5 ÷ 19,5	0.728 ÷ 0.768	T2PM-S19				
	12	19,5 ÷ 20,5	0.768 ÷ 0.807	T2PM-S20				
	13 ÷ 14	20,5 ÷ 21,5	0.807 ÷ 0.846	T2PM-S21				
	15 ÷ 16	21,5 ÷ 22,5	0.846 ÷ 0.886	T2PM-S22				
	18	22,5 ÷ 23,5	0.886 ÷ 0.925	T2PM-S23				
19 ÷ 20	23,5 ÷ 24,5	0.925 ÷ 0.965	T2PM-S24					





Tube features				Mandrel	Extension	Jaw	Cone	
<i>de</i>		<i>sp</i>		<i>dim</i>				
inches	mm	B.W.G	mm	inches	Cod.	Inches mm	Cod.	Cod.
<b>1.1/4"</b> <b>(31.8)</b>	10	24,5 ÷ 25,5	0.956 ÷ 1.004	<b>T2PM-S25</b>	30 1.181	<b>T2PM-R25÷48</b>	<b>TPJ/30-5</b>	<b>TPC/34/200</b>
	11 ÷ 12	25,5 ÷ 26,5	1.004 ÷ 1.043	<b>T2PM-S26</b>				
	13	25,5 ÷ 26,5	1.043 ÷ 1.083	<b>T2PM-S27</b>				
	14 ÷ 15	27,5 ÷ 28,5	1.083 ÷ 1.112	<b>T2PM-S28</b>				
	16 ÷ 18	28,5 ÷ 29,5	1.112 ÷ 1.161	<b>T2PM-S29</b>				
	19 ÷ 22	29,5 ÷ 30,5	1.161 ÷ 1.201	<b>T2PM-S30</b>				
	23 ÷ 24	30,5 ÷ 31,5	1.201 ÷ 1.240	<b>T2PM-S31</b>				
<b>1.1/2"</b> <b>(38.1)</b>	10 ÷ 11	31,5 ÷ 32,5	1.240 ÷ 1.280	<b>T2PM-S32</b>	30 1.181	<b>T2PM-R25÷48</b>	<b>TPJ/30-5</b>	<b>TPC/45/200</b>
	12 ÷ 13	32,5 ÷ 33,5	1.280 ÷ 1.319	<b>T2PM-S33</b>				
	14	33,5 ÷ 34,5	1.319 ÷ 1.358	<b>T2PM-S34</b>				
	15 ÷ 17	34,5 ÷ 35,5	1.358 ÷ 1.398	<b>T2PM-S35</b>				
	18 ÷ 20	35,5 ÷ 36,5	1.398 ÷ 1.437	<b>T2PM-S36</b>				
	21 ÷ 24	36,5 ÷ 37,5	1.437 ÷ 1.476	<b>T2PM-S37</b>				
<b>1.3/4"</b> <b>(44.4)</b>	10 ÷ 11	37,5 ÷ 38,5	1.476 ÷ 1.516	<b>T2PM-S38</b>	30 1.181	<b>T2PM-R25÷48</b>	<b>TPJ/30-5</b>	<b>TPC/45/200</b>
	12	38,5 ÷ 39,5	1.516 ÷ 1.555	<b>T2PM-S39</b>				
	13 ÷ 14	39,5 ÷ 40,5	1.555 ÷ 1.594	<b>T2PM-S40</b>				
	15 ÷ 16	40,5 ÷ 41,5	1.594 ÷ 1.634	<b>T2PM-S41</b>				
<b>2"</b> <b>(50.8)</b>	10	43,5 ÷ 44,5	1.713 ÷ 1.752	<b>T2PM-S44</b>	30 1.181	<b>T2PM-R25÷48</b>	<b>TPJ/30-5</b>	<b>TPC/56/200</b>
	11 ÷ 12	44,5 ÷ 45,5	1.752 ÷ 1.791	<b>T2PM-S45</b>				
	14 ÷ 15	46,5 ÷ 47,5	1.831 ÷ 1.870	<b>T2PM-S47</b>				
	16 ÷ 18	47,5 ÷ 48,5	1.870 ÷ 1.909	<b>T2PM-S48</b>				
<b>2.1/2" (63.5)</b>	9	55,5 ÷ 56,5	2.185 ÷ 2.224	<b>T2PM-S56</b>	30	<b>T2PM-R25÷48</b>	<b>TPJ/30-5</b>	<b>TPC/80/200</b>
<b>3" (76.2)</b>	9 ÷ 10	68,5 ÷ 69,5	2.697 ÷ 2.736	<b>T2PM-S59</b>	1.181	<b>T2PM-R25÷48</b>	<b>TPJ/30-5</b>	<b>TPC/80/200</b>





# Equipment

- > Transport case
- > Onlypul hydraulic puller
- > N°2 hydraulic hoses ( length: 6m )
- > Set of spares gaskets
- > Set of series keys
- > Instruction manual



Transport case



Onlypul tube puller



N°2 hydraulic hoses



Set of spare gaskets



Set of service keys



Instruction manual



All the accessories offered by Maus Italia to support the Onlypul series tube extraction equipment.

# Accessories

## TPA

### Pneumatic impact wrench

Pneumatic impact wrench for quick and safe insertion of the TPM spear before each extraction. The TPA screwdriver is supplied in a practical and handy carrying case complete with connecting tubes and service keys.



Model	TPM	Working pressure		Air connect	A	Weight	
		bar	Psi			Kg	Lb
TPA 1	TPM 7 ÷ TPM 15 A	6,3	91.4	3/8" Gas	3/4"	5	10.8
TPA 2	TPM 13 ÷ TPM 20 S	6,3	91.4	1/2" Gas	1"	6,3	13.8
TPA 3A	TPM 19 ÷ TPM 37	6,3	91.4	1/2" Gas	1"	9,3	20.6
TPA 4	TPM 37 G ÷ TPM 49/51	6,3	91.4	1/2" Gas	1"	15,0	32.9
TPA 5	TPM 50/57 ÷ TPM 57/63	6,3	91.4	3/4" Gas	1.1/2"	32,0	70.55

## TPS

### Adapter

Adapter between the TPA impact wrench and the TPM spear to be mounted, available in different sizes as required.



Model	TPA	TPM
	A	B
TPS 1B	3/4"	5/16"
TPS 2B	3/4"	3/8"
TPS 3B	3/4"	1/2"
TPS 3A	1"	1/2"
TPS 4	1"	5/8"
TPS 5	1"	3/4"
TPS 6	1"	1"
TPS 6A	1"	1.1/2"
TPS 7	1.1/2"	1"
TPS 8	1.1/2"	1.1/2"

## TPB

### Balancer

Model	Balancer	Range
Onlypul 15	TPB15	25-30 Kg / 55-66 lb
Onlypul 30	TPB30	45-55 Kg / 99-121 lb
Onlypul 45	TPB45	55-65 Kg / 121-143 lb
Onlypul 60	TPB60	100-120 Kg / 220-265 lb



# Heat exchanger's world

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**MAUS ITALIA SPA IS THE WORLD LEADING MANUFACTURER OF TOOLS AND MACHINES FOR THE PRODUCTION AND MAINTENANCE OF HEAT EXCHANGERS**



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