

Aerial bundle extractors (on-shore)

Mef express

Quick hooking tube bundle puller

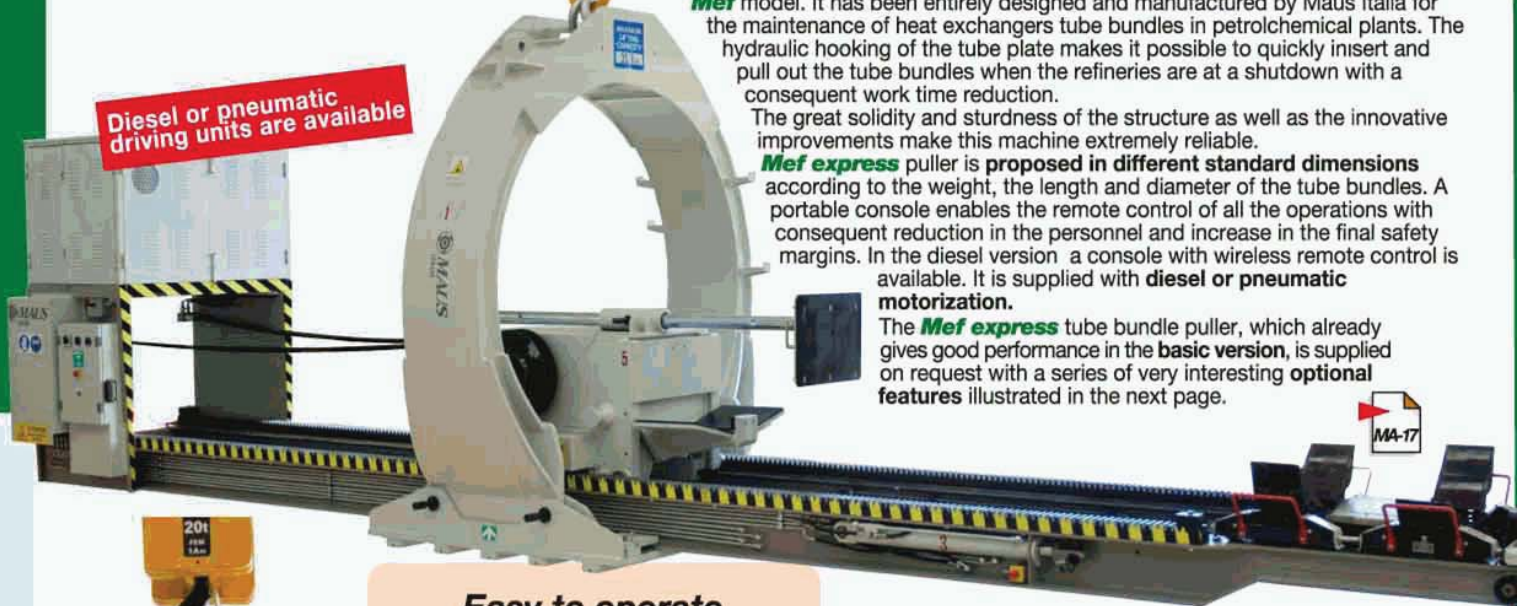
Mef express tube bundle puller is the quick hooking version of the already existing **Mef** model. It has been entirely designed and manufactured by Maus Italia for the maintenance of heat exchangers tube bundles in petrolchemical plants. The hydraulic hooking of the tube plate makes it possible to quickly insert and pull out the tube bundles when the refineries are at a shutdown with a consequent work time reduction.

The great solidity and sturdiness of the structure as well as the innovative improvements make this machine extremely reliable.

Mef express puller is proposed in different standard dimensions according to the weight, the length and diameter of the tube bundles. A portable console enables the remote control of all the operations with consequent reduction in the personnel and increase in the final safety margins. In the diesel version a console with wireless remote control is available. It is supplied with **diesel or pneumatic motorization**.

The **Mef express** tube bundle puller, which already gives good performance in the **basic version**, is supplied on request with a series of very interesting **optional features** illustrated in the next page.

Diesel or pneumatic driving units are available



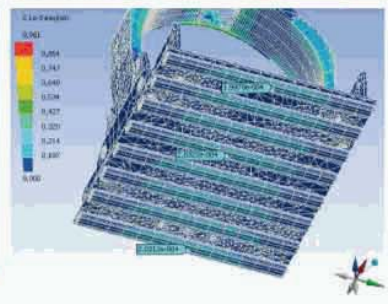
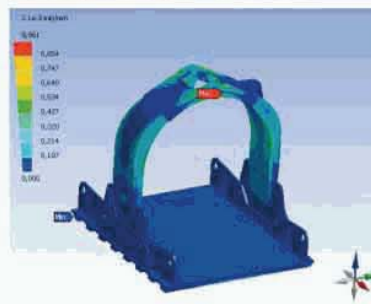
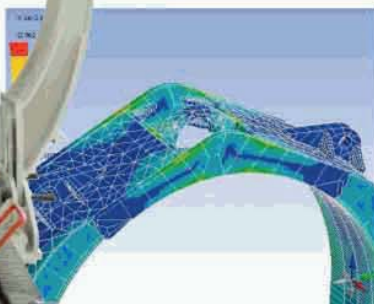
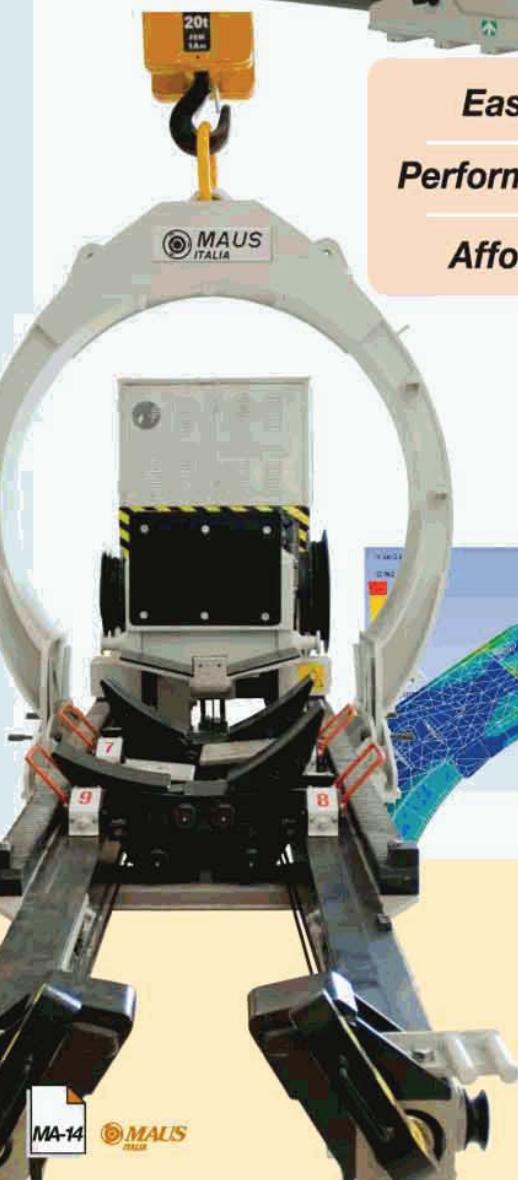
Easy to operate

Performing and reliable

Affordable prices

Tested solidity
(lifting test)

Advanced design



Motorization

Bundle extractors can be supplied with **Diesel engines** or **air motors**. Motors executions suitable for hazzardous classified working area are available on request (complete with **Atex conformity declaration**).

Customized executions

Maus (**ISO 9001 certified**) can supply also customized bundle pullers to meet special requirements from the customer (submitting all necessary docs / drawings / calculations).

On request,
SPECIAL VERSION
for low temperatures

Technical features



2500/100

65 T ↑



Shipping by container



Bundle dimensions		1300		1600		1700		2000		2000		2200*		2500*	
		65		65 75		65 75		65 75		100		75 100		100 125	
Tube sheet O.D.	D mm	1300	1600		1700		2000		2000	2200		2500			
Length	mm	6500	6500	7500	6500	7500	6500	7500	10000	7500	10000	10000	12500		
***	Max lifting capacity ↑	T	10 (15)	15 (22,5)		22 (33,3)		35 (52,5)		35 (52,5)	45 (67,5)		65 (97,5)		*

Mef dimensions		1300		1600		1700		2000		2000		2200*		2500*	
		65		65 75		65 75		65 75		100		75 100		100 125	
Width	I mm	1600	2000		2050		2300		2300	2900		3000			
Height	H mm	2000	2500		2600		2800		3000	3300		3650			
Length	L mm	7800	8100	9100	8100	9100	8100	9100	11600	9100	11600	11600	14100		
Height (motor)	HM mm	2150	2250		2250		2250		2250	2250		2250			
Weight	Kg	4850	6200	6400	6500	6700	8250	8600	10800	12000	14000	16000	18500		
**	Pulling max speed	m/min	2,5	2,5		2,5		2,0		2,0	2,0		1,5		
	Pulling force ←	T	20	30		35		50		50	65		90		



Bundle dimensions		1300		1600		1700		2000		2000		2200*		2500*	
		65		65 75		65 75		65 75		100		75 100		100 125	
Tube sheet O.D.	D "	51	63		67		78		78	87		98			
Length	Ft	21	21	24	21	24	21	24	32	24	32	32	41		
***	Max lifting capacity ↑	Lb	22000 (33000)	33000 (49500)		48500 (72750)		77100 (115650)		77100 (115650)	99200 (148800)		143300 (214950)		*

Mef dimensions		1300		1600		1700		2000		2000		2200*		2500*	
		65		65 75		65 75		65 75		100		75 100		100 125	
Width	I Ft	5.3	6.6		6.8		7.6		7.6	9.5		9.9			
Height	H Ft	6.6	8.2		8.6		9.2		9.8	10,8		12.0			
Length	L Ft	25.6	27	30	27	30	27	30	38	30	38	38	46.3		
Height (motor)	HM Ft	7.0	7.4		7.4		7.4		7.4	7.4		7.4			
Weight	Lb	10700	13700	14100	14400	14800	18200	19000	23800	26500	30900	35300	40800		
**	Pulling max speed	Ft/min	8.2	8.2		8.2		6.6		6.6	6.6		4.9		
	Pulling force ←	Lb	44000	66100		77100		110200		110200	143300		198400		

* For heavier bundles please contact us

** With Diesel driving unit

*** Designed to support (under testing condition) a static load of 1,5 times the nominal load capacity

* Available in disassemblable rocker arm version

Nominal capacity (Static load for testing)

Aerial bundle extractors (on-shore)

Mef express

Standard supply

Diesel version

Diesel engine
(air cooled)



Pneumatic version

Air motor



Manual local command
on back side



Manual local command
on back side



Electric Portable
remote control



Pneumatic portable
remote control

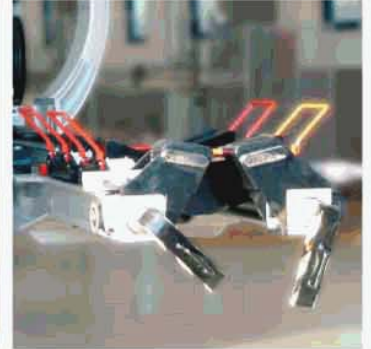


MA-16 MAUS

Lifting point
alternative system



Hydraulic vices
for shell flange clamping



Main carriage
for continuous
pulling/pushing



Two hydraulic cylinder
for balancing action



Large base
of rocker arm
for balancing



* Disassemblable rocker
arm in 3 pieces for trans-
port also by container



* Only for 2200
and 2500 models.

MA-15

New bundle supports
with manual
adjustment

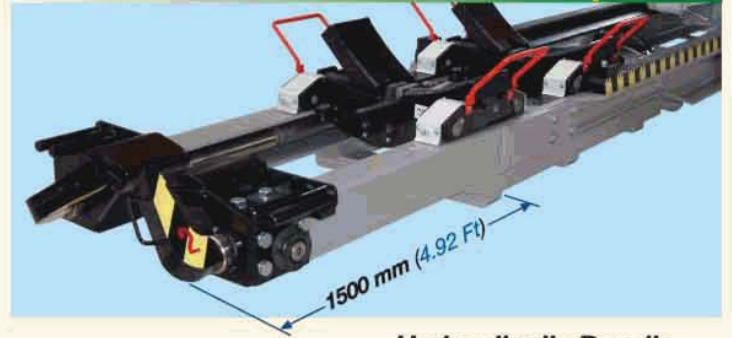


Mef express

Optionals

Removable Extension
1500 mm (4.92 Ft) long

Optional



Water cooled
diesel engine

Optional



Portable wireless
remote control

Optional



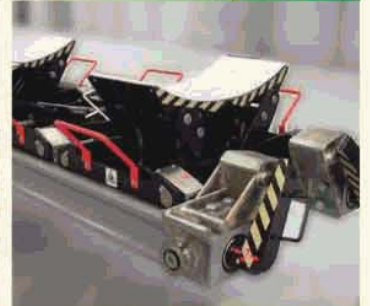
Adapters for small
diameter tube bundles

Optional



Hydraulically Bundle
supports with cust.
shape
(buffle-rod bundle)

Optional



Stainless steel guards
for sliding parts

Optional



Hydraulic telescopic
extended arm for bundle
insertion

Optional



Hydraulically controlled
bundle supports

Optional

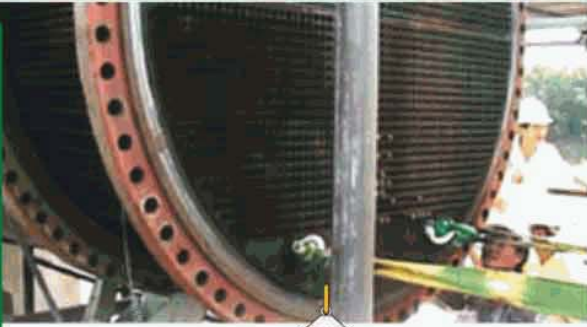


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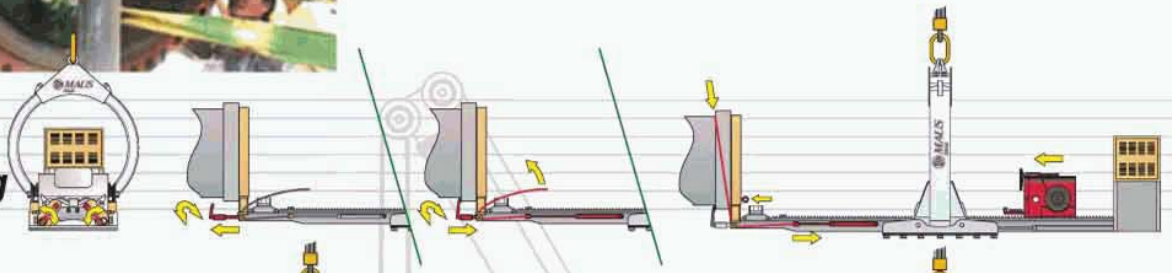
Mef express

Extraction sequence

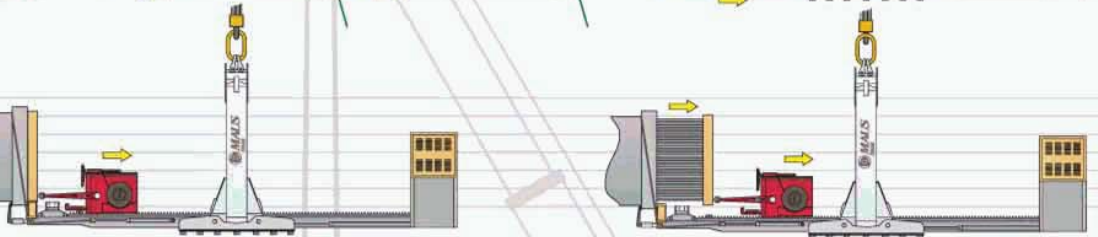
The main operations are shown below in sequence.



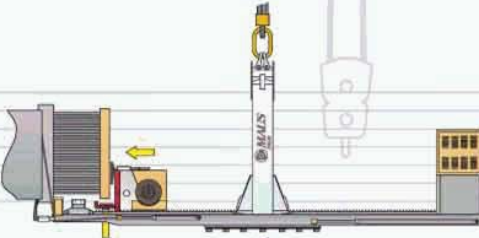
Shell blocking



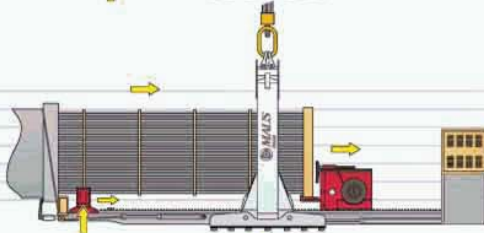
Pull with cable



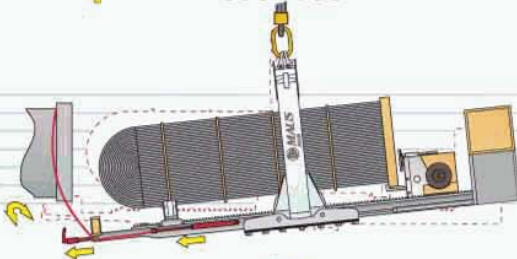
Hooking
Start of pulling



Pulling
Holding



End of pulling
Balancing



Release
Shifting
Unloading

