### BLACKHAWK



#### **CATALOGUE**

#### INDEX

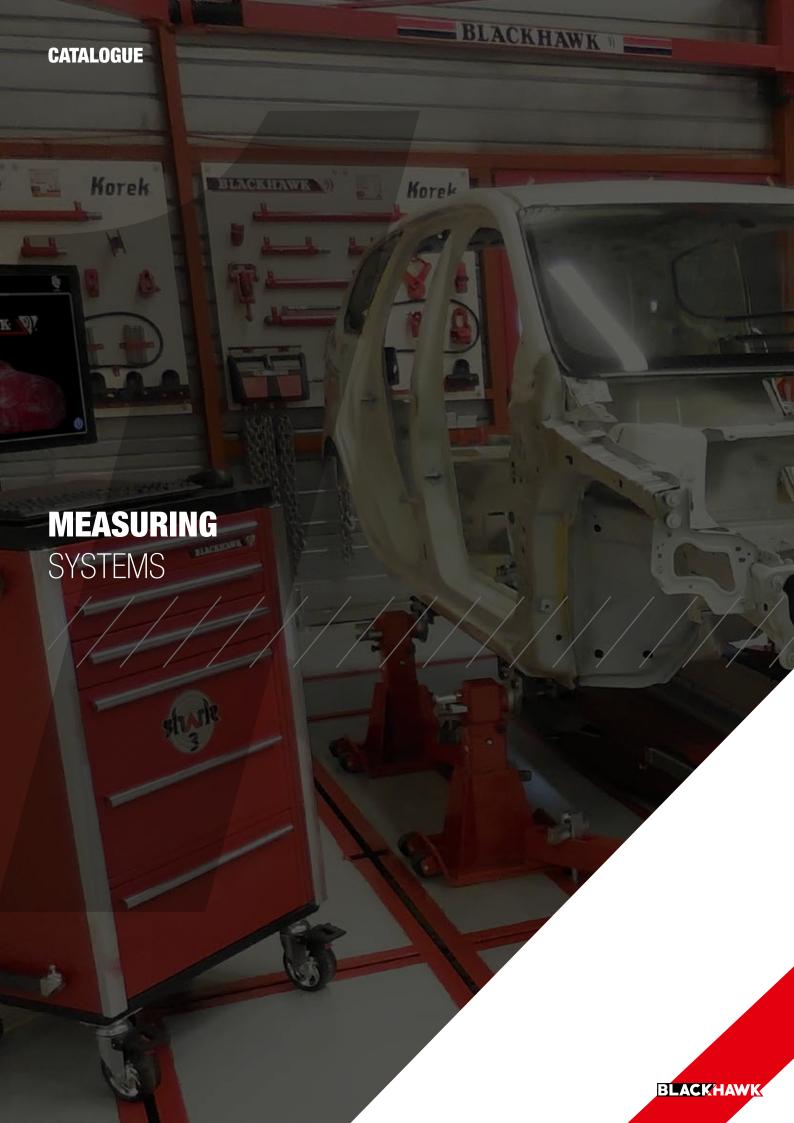
**01-** Measuring systems // 03

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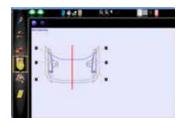






#### **TECHNICAL SPECIFICATIONS**





#### **3 MAIN PARTS:**

- Ultrasonic emitting probes with magnetic connection
- Receiving beam
- Console with computer, USB stick, keyboard, colour screen and drawers for the accessories











#### **HARDWARE**

- 4x7.5 cm diam. chrome locking casters
- •27" LCD HD display for maximum viewing from anywhere around the vehicle
- Probe cords incorporate Velcro straps for easy storage
- Polyurethane foam with accessory identifiers provides max. separation of magnetic extensions and increased accessory protection

#### **OPTIONS**

#### 96486

Diagnostic stands



#### **SH103H**

Mobile supports for Shark beam



#### **STA15**

Stands for STL3500



#### **MC PHERSON**

Measuring of high test point



#### SHF1AL

Universal brackets, ultrasonic positioning



600 mm<sub>.7</sub>

# 1420 mm 1050 mm 650 mm

#### COMPOSITIONS



#### SHA54 / SHA50 / SHA55 / SHA51

#### **SET WITH 8 PROBES SET WITH 6 PROBES**

SHA54 - without Mc Pherson SHA50 - with Mc Pherson

SHA55 - without Mc Pherson SHA51 - with Mc Pherson







500 W





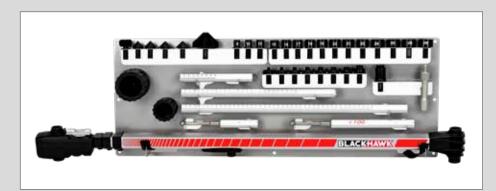
# TECH TRAM

Telescopic measuring gauge for diagnosis and control with digital display (400mm - 2665mm)



#### **TECH**TRAM

TELESCOPIC
MEASURING GAUGE
FOR DIAGNOSIS AND
CONTROL WITH DIGITAL
DISPLAY
400mm - 2665mm



Version on metal tool panel P/N: MGE10



Version in carrying case P/N: MGE11

#### **ADVANTAGES:**

- Quick and easy measuring of lengths, widths and diagonals
- Built-in spirit level allows you to check height anomalies
- Designed for use on all straightening systems and as a diagnostic tool in combination with a 2 post lift.
- Magnetic mount allowing the measuring to be carried out by only one person
- Results are saved and printed in pdf format.





# AEK119 AEK329 AEK419

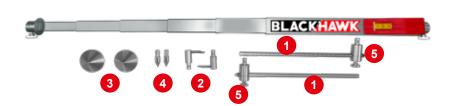
Telescopic gauge with accessories for comparative measuring.

#### **TELESCOPIC GAUGE WITH ACCESSORIES FOR COMPARATIVE MEASURING**

High quality, accurate and very easy to use, German and Swiss production.

#### **AEK**119





### **AEK**329

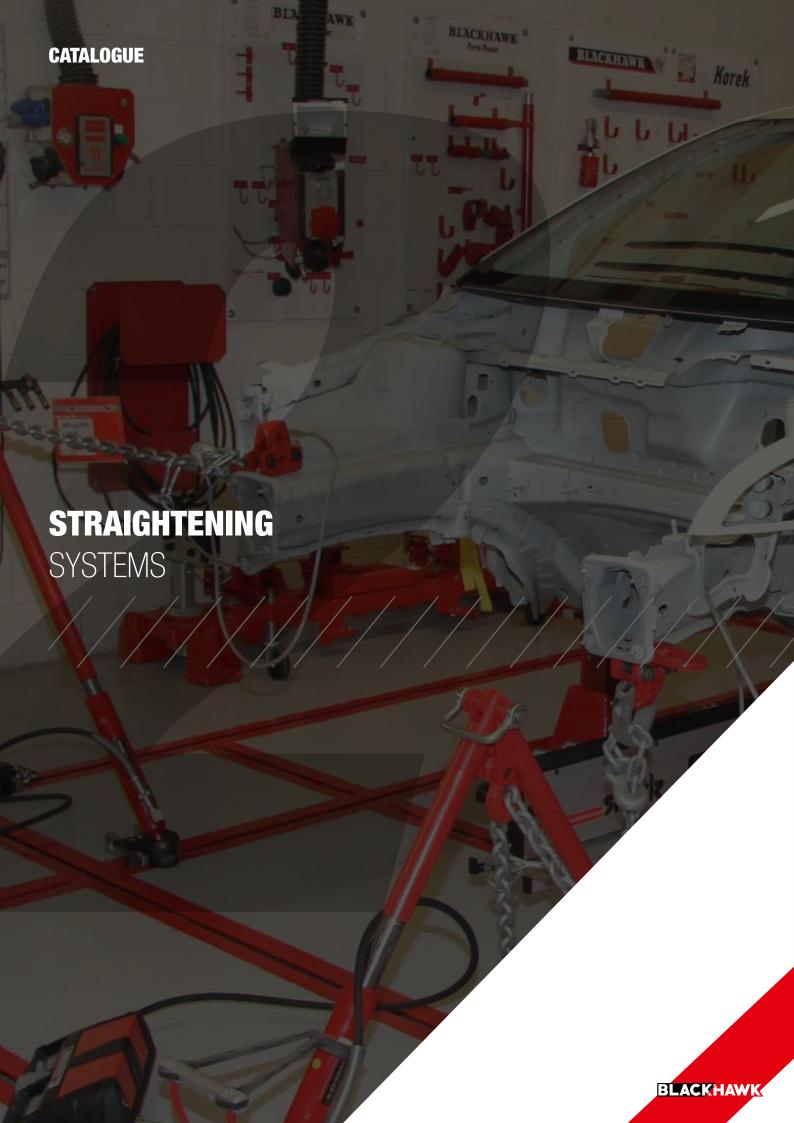


#### **AEK**419



1	F13820
2	F13790
3	F21900
4	F17870
5	F16450

	KG		
AEK119	1,45 kg	415 mm	925 mm
AEK329	2,0 kg	920 mm	2600 mm
AEK419	2,3 kg	950 mm	3250 mm



# KOREK

The most efficient and currently the most sold straightening system worldwide



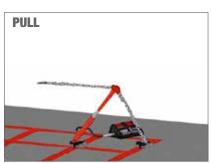
#### **KOREK**

# ADAPTED TO ALL TYPES OF REPAIR JOBS AND ALL KINDS OF VEHICLES

- Modular frame
- Inbuilt lift
- Rigid anchoring
- Pull/push units









- Fast and easy set up
- Work at chosen height
- Optimum anchoring
- Multiple pulls and pushes
- Can be combined with measuring
- Multipurpose space
- Push / pull capacity / 8 to 10T pull

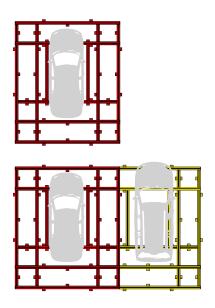


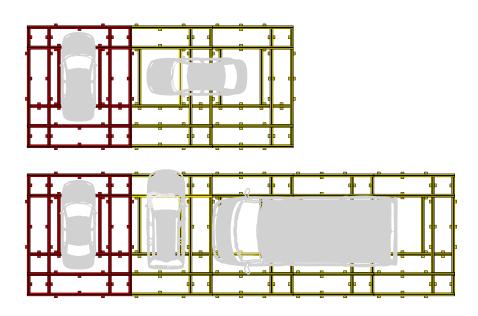
### THE FRAMES WORKING BAYS





### A MODULARITY WHICH CAN BE ADAPTED TO YOUR NEEDS

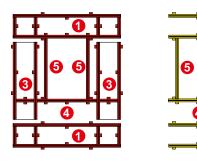


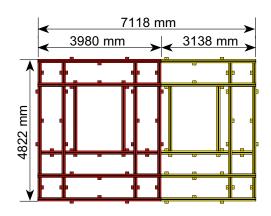


The modular Korek® frame is composed of parts very easy to put together. One base module is suitable for one work area. By adding standard complements, you can obtain the frame length which corresponds to the size of your shop and number of working bays. There is no limit! Frames can also be installed above floor.

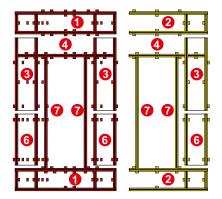
### ASSEMBLY= SIMPLICITY

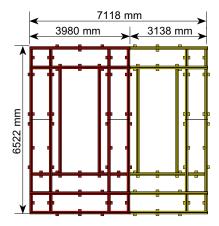
#### ASK1605901PLS - ASK160500PLS



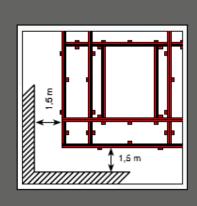


#### **ASK1607901PLS - ASK160700PLS**





				C KG
1	S060L131	3980 mm	842 mm	272 kg
2	S060L132	3138 mm	842 mm	190 kg
3	S060L130	3138 mm	842 mm	182 kg
4	S060L128	2296 mm	119 mm	59 kg
5	S060L133	2295 mm	130 mm	73 kg
6	S060L129	1700 mm	842 mm	91 kg
7	S060L127	3995 mm	130 mm	128 kg



Possibility of bolting the frame to the floor. Please contact a BLACKHAWK technician





#### LIFTS STL3500

IN-FLOOR LIFT WITH TELESCOPIC ARMS, ELECTRIC PUMP AND REMOTE CONTROL FOR KOREK INSTALLATION ONLY









**SPECIFICATIONS** 

STL3500

2170mm x 680mm x 200mm

1350 mm

3,5 T

#### **STL50**



LIFT WITH TELESCOPIC ARMS, ELECTRIC PUMP AND REMOTE CONTROL

• In-floor or above floor instalation



**STL5003: SET OF 4 WHEEL LIFT PLATES** 







**SPECIFICATIONS** 

STL50

2050mm x 770mm x 110mm

1200 mm

3,5 T



### PULLING TOWER PTK10







10 T pulling tower especially suitable for pulling at high points for Korek system

#### **COMPOSITION**

1	PTK100	1
2	PTK101	2
3	PMP8130	1
4	AEK99	1
5	AEK304	1

#### **OPTION**







#### PTK11

Push accessories set

#### POWER LOK® AFM813H

Ensures efficient anchoring at the right height.

The clamps can be replaced by specific clamps for specific vehicle models.



#### **306 KG / 3 POSSIBLE HEIGHTS**

- Max. 750 mm
- Med. 560 mm
- •Min. 460 mm



**AEK158.2** 

L 235 mm

Standard

**AEK159.2** 

L 350 mm

Standard



Thanks to its 4 robust clamp supports on wheels, the Power Lok® maintains the car at a comfortable working height and keeps it clamped firmly against the unfailing rigidity of the Korek® frame. The vehicule underbody which has become easily accessible, keeps its perfect rigid position during the repairs. The Power Lok® ensures swift, efficient and accurate straightening.

#### **QUICK ANCHOR SYSTEM**

**AFM822B** For light damage
May be used on Power Lok® and on Korek® rails





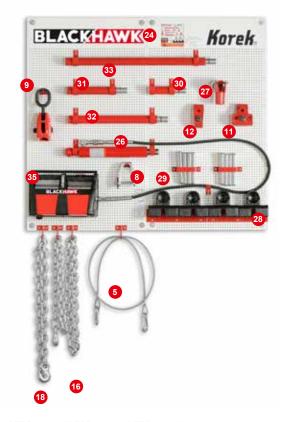
**AFM28**Anchoring system for chassis type vehicles and 4WD



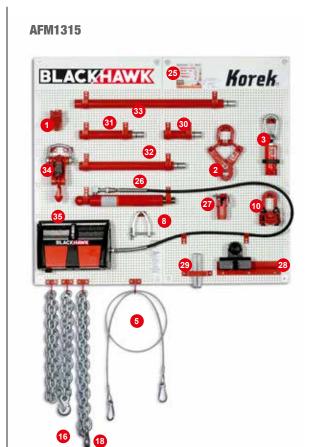


#### **PULL UNITS**

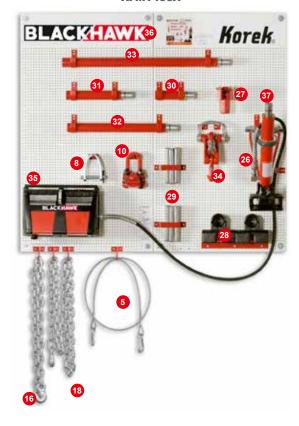
#### AFM1310



AFM1320 (AFM1310+AFM1315)



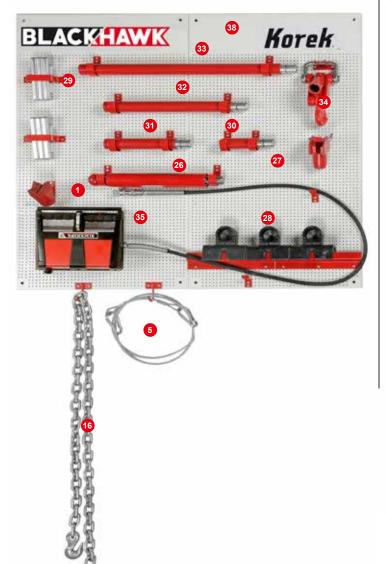
#### **AFM1400A**



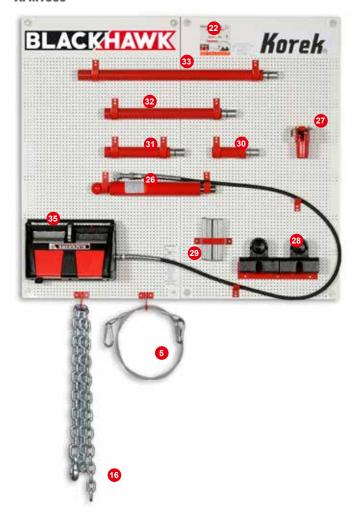
			AFM1310	AFM1315	AFM1320	AFM1400A
1	65638			1	1	
2	97200\$			1	1	
3	97401\$			1	1	
4	97605E					
5	AEK99		1	1	2	1
6	AEK102					
7	AEK103	600 mm				
8	AEK105S		1	1	2	1
9	AEK182S		1		1	
10	AEK183			1	1	1
11	AEK232		1		1	
12	AEK233		1		1	
13	AEK235S					
14	AEK271					
15	AEK301					
16	AEK307	2700 mm	1	1	2	1
17	AEK332					
18	AEK327	2100 mm	1	1	2	1
19	AEK329					
20	AEK428					
21	AFM1135A					
22	AFM1361					
23	EK402T					
24	AFM1311		1		1	
25	AFM1316			1	1	
26	ASK257900		1	1	2	1
27	K178264		1	1	2	1
28	K179038		4	1	5	2
29	K238320		8	2	10	6
30	K239900		1	1	2	1
31	K240900		1	1	2	1
32	K241900		1	1	2	1
33	K242900		1	1	2	1
34	K830901			1	1	1
35	PMP8110		1	1	2	1
36	AFM1401					1
37	AFM830A					1
38	AFM1391					

#### **PULL UNITS**

#### AFM1390



#### AFM1360



#### AFM135A



			AFM135A	AFM1360	AFM1390
1	65638				1
2	97200S				
3	97401S				
4	97605E		1		
5	AEK99			1	1
6	AEK102		1		
7	AEK103	600 mm	1		
8	AEK105S				
9	AEK182S				
10	AEK183				
11	AEK232				
12	AEK233				
13	AEK235S		1		
14	AEK271		1		
15	AEK301		1		
16	AEK307	2700 mm		1	1
17	AEK332		1		
18	AEK327	2100 mm			
19	AEK329		1		
20	AEK428		1		
21	AFM1135A		1		
22	AFM1361			1	
23	EK402T		1		
24	AFM1311				
25	AFM1316				
26	ASK257900			1	1
27	K178264			1	1
28	K179038			2	3
29	K238320			4	6
30	K239900			1	1
31	K240900			1	1
32	K241900			1	1
33	K242900			1	1
34	K830901				1
35	PMP8110			1	1
36	AFM1401				
37	AFM830A				
38	AFM1391				1

### ADDITIONAL ACCESSORIES

#### AFM830A



Anchor shoe for Korek

#### **AFM8401**



Pulley for downward pulls 10 T

#### **KOR1000**

Air connecting pots for Korek®



#### KOR10

Kit with 6 pots for short Korek® frame

#### **KOR11**

Kit with 8 pots for long Korek® frame



# POSTLIFT

Quick repair concept



#### **POSTLIFT**

### QUICK REPAIR CONCEPT

- Compact and robust lift, great lifting height
- Great pulling force, Dozer with 10T ram
- Compatible with electronic or mechanical measuring systems
- Max. lifting height without clamps: 1300 mm
- Max. lifting height on clamps: 1700 mm
- Min. height: 115mm
- Lifting capacity: 3.2T
- Dimensions: 3000x800x115 mm
- Hydraulic pump pressure: 700 bars
- Voltage 230V
- Can be installed in-floor



#### Fast and easy vehicle set up



#### **DOZER**

Great pulling force dozer with 10T ram



#### PL<sub>10</sub>D

Adapted to Shark measuring system



#### OPTIMAL

Force of scissors lifting. Mechanical lowering



#### **POSTLIFT**

#### **COMPOSITION**

1	PL100C	Lift + arms		
2	PMPLIFT	Electric Pump		
3	PL12WB	Dozer		
4	ARC1610	Ram		
5	PMP8110	Pump		
6	AEK302	Chain + 2 Hooks		
7	AEK99	Safety cable		
8	AEK428	Pull clamp		



#### **OPTIONS**



ZARE TO THE PROPERTY OF THE PR

**PLT14**Vector pulling arm for Postlift

Pulling capacity 4T

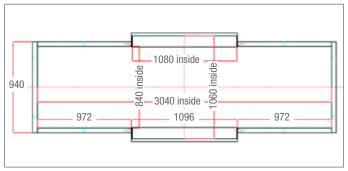




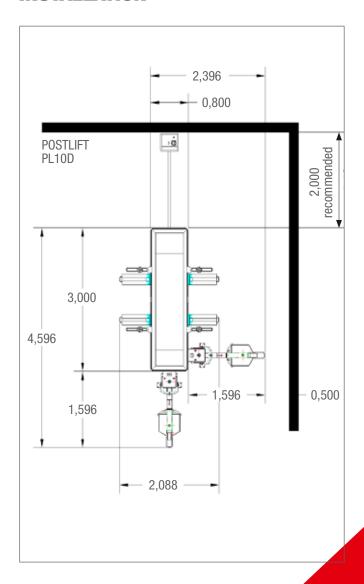
Down pull with pulley

Double push/pull

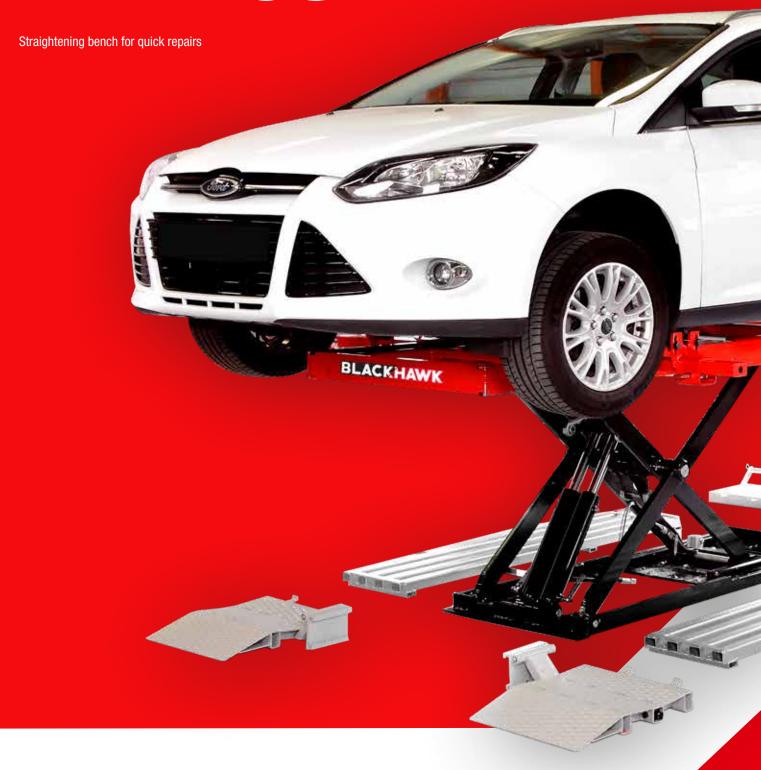
#### **PL10DPF**



#### **INSTALLATION**



# MINIPOST II



#### **MINIPOST II**

#### SIMPLE, ROBUST, FAST AND MORE FUNCTIONAL

Lifting table capacity 3T.

Lifting with hydro-electric pump and remote control included.

Can be installed in-floor.







### PULLING ARM WITH 5T RAM

#### MPT6010

The Minipost II has an articulated Dozer pulling arm, enabling pulling angles to be replicated all around the vehicle.



#### **ANCHORING**

#### **MPT6002**

4 arms set (lifting and anchoring) with 4 lifting pads.

#### MPT6003

Set of 4 clamps on mobile arms.







#### COMPLETE SET



Straightening bench with remote control

#### **COMPOSITION**

		MPT60
1	MPT6000	1
2	PL123	1
3	MPT6003	1
4	PMPLIFT	1
5	MPT6010	1
6	EP99	1
7	EP122	1

		MPT61
1	MPT6000	1
4	PMPLIFT	1

#### **TECHNICAL SPECIFICATIONS**

Power supply for electro hydraulic pump 400 V – 3 ph	
Minimum table height	120 mm
Maximum height	1300 mm
Lifting capacity	3Т
Straightening cylinder	5T

Dimensions 3000 x 1080 x 120 mm

#### **OPTIONS**

**B054** Multidirectional pulley for dozer



**MPT6009** Extension plates for using Shark system (for diagnosis only).



**MPT6011**Pit frame



MPT6008 Set of 2 drive-on ramps, lifting by wheels, lifting capacity 3T







Installing and clamping the vehicle with an innovative system



STRAIGHTENING SYSTEMS

# PULLING TOWERS

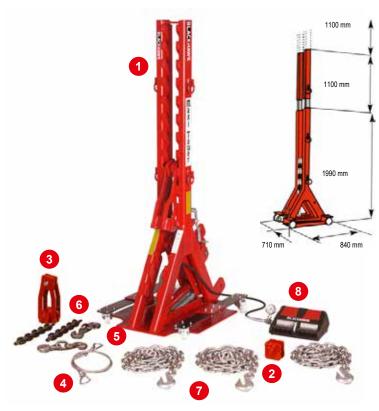
# MAXI TOWER



#### COMPLETE SET

#### **PULLING FORCE**

pulley block developing 7 - 28 T



	HD71B	HD72B
1 HD700A	1	1
2 HD703A	1	0
3 HD704A	1	0
4 HD99	1	1
5 HD332	2	2
6 HD8307	2	2
<b>7</b> Z219	3	3
8 PMP8130	1	1

#### **OPTIONS**

#### HD701A

Extension 1100 mm



#### HDY7005

Low height pull accessory



# POWER POST



#### COMPLETE SET



#### **PULLING FORCE**

pulley block developing 7 - 10 T



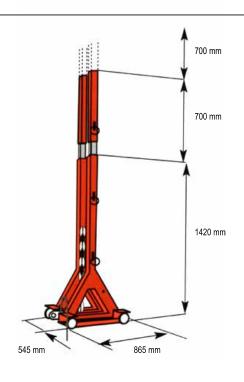
#### **COMPOSITION**

		HD85B	HD86B
1	HD850A	1	1
2	PMP8110	1	1
3	AEK99	1	1
4	AEK304	1	1
5	AEK307	2	1
6	HD851A	0	2
7	AEK328*	0	2

\*Not shown



**HD851A (OPTIONAL)** Extension 700 mm



### ANCHOR POTS



#### **ANCHOR POTS**

Easy and quick installation For drilling and installation plans please contact your Blackhawk distributor





#### TD130 E - TD135 E

Anchor pots with chain slot for use with Power Post® pulling tower Chain 10T



**TD130 E** 



**TD135 E** 

#### **TD330 E**

Anchor pots with chain slots with larger diameter for use with Maxi Tower pulling tower Chain 20T

#### **TD335 E**

Anchor pots with chain slots for use with Maxi Tower Chain 20T

# ### D335 E ### 061 ### 082 ### 083

## OPTIONAL ACCESSORIES

**HD8305** 20 T Chain anchor for I beam frame 200



14.5 kg





4 kg

**PT318A** Adapter hook 10-20 T



2.4 kg

**AEK281** Wide opening clamp



16.5 kg

K170938+2 X K238320

Ram foot 10 T



3.1 kg

**HD8302** Intermediate tensioner 20 T



4.78 kg

**HD332**Double hook 20 T



2.9 kg

**PT114A**Grab hook + chain



8.6 kg

#### HD8301+2 X K238320

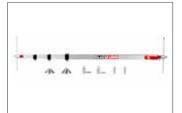
20 T Chain anchor for Korek® frame



7.8 kg

AEK329 / AEK419 Measuring gauge 900/2600 mm

900/2600 mm 950/3250 mm



2 kg / 2.3 kg

**AEK271**Multipurpose pull hook



8.6 kg





7.8 kg

**AEK2001**Pull strap assy 8 T



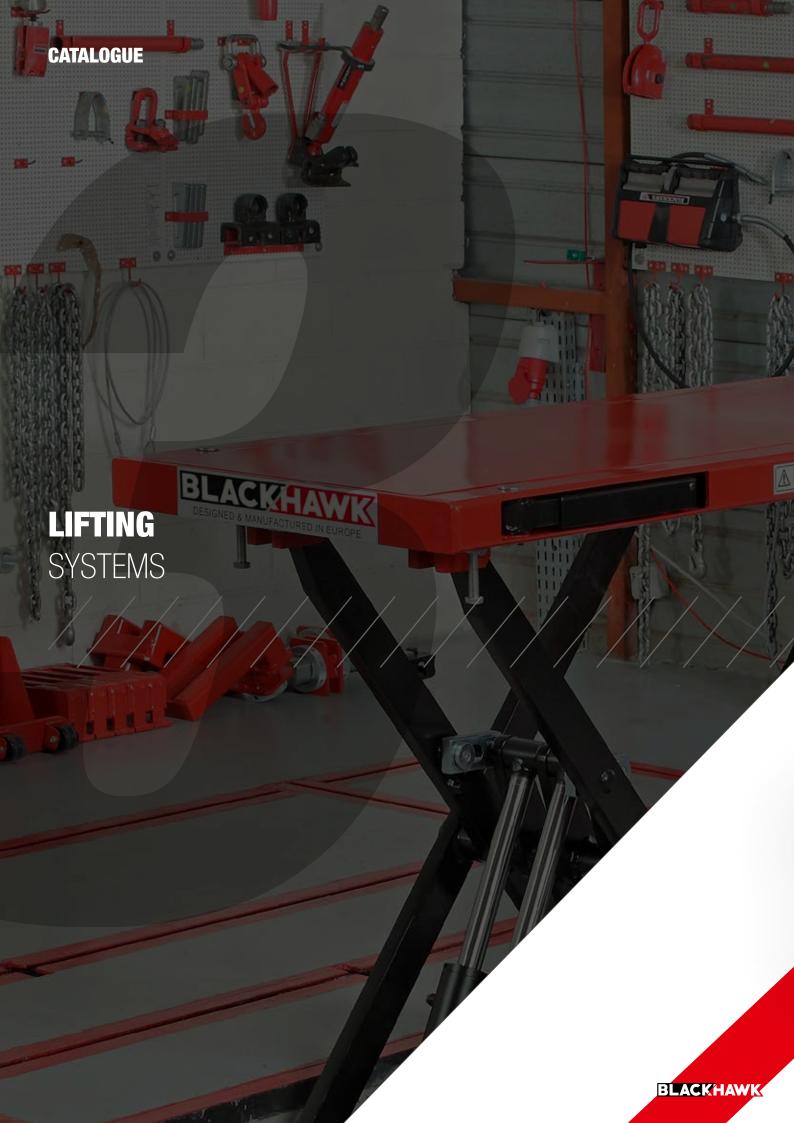
0.450 kg

HDY25

23 T Hydraulic stand 530 -1166 mm



50 kg



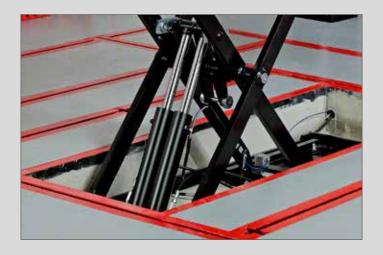


In-floor lift





Telescopic arms



Double ram - Mechanical and hydraulic safety controls

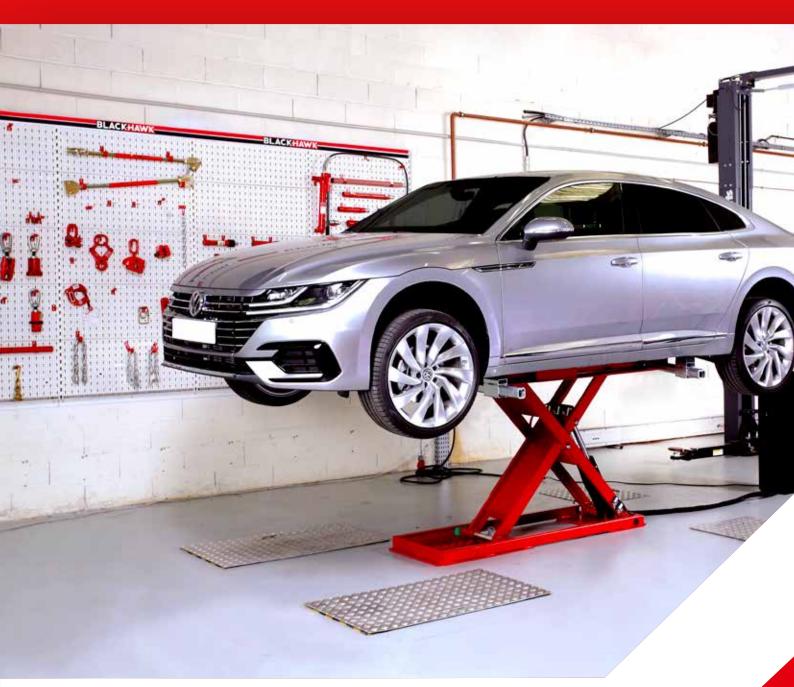


**PMPLIFT**Electric pump + remote control.
Available on request

# TECHNICAL SPECIFICATIONS

Capacity	3500 kg
Min height - in the ground	200 mm
Max height - Lift	1430 mm
Max height - with lifting pads	1430 mm + 80 mm = 1510 mm
Chassis width	680 mm
Chassis length	2170 mm

Electric-hydraulic scissor lift for car body shop



#### ELECTRO-HYDRAULIC SCISSOR LIFT FOR CAR BODY SHOP

- Telescopic arms
- Remote control
- Lifting by wheels



#### **APPLICATION**



#### MINIMUM HEIGHT OF THE LIFT: 110 MM

Electrical, hydraulic and mechanical safety controls. Suitable for in-floor or above-floor installation.

# TECHNICAL SPECIFICATIONS

Capacity	3500 kg
Lifting height	1200 mm
Minimum height	110 mm



Mobile table lift



#### **MOBILE TABLE LIFT**

- The only equipment that allows the user to move a vehicle on the lift all around the workshop, thanks to the four pivoting wheels and a double cylinder system which retracts the scissors inside the table.
- The operator can move the car placed on the lift to the different working areas of the body shop.



**STL29 -** With set of wheels **STL2910 -** Without set of wheels (photo)



## TECHNICAL SPECIFICATIONS

Capacity	3000 kg
Maximum height	922 mm
Minimum height	100 mm
Width	762 mm
Leg wheelbase	1300 mm
Weight	350 kg

# SUPPORT STANDS



### **SUPPORT STANDS**



STA2020 Stands 10T



**AEK833** Ajustable support stand



**96486**Roller stands



**STA15**Support stands for STL3500





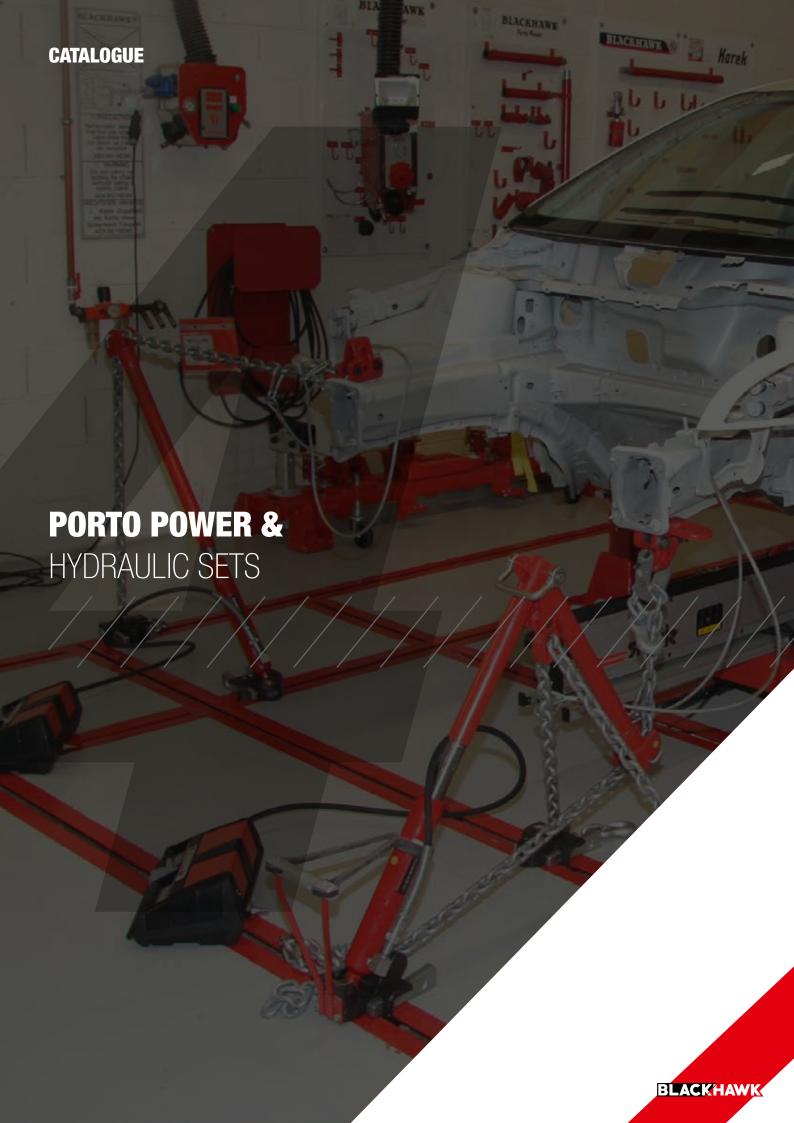


**STA60** Vehcile stand





	237	<b>* * *</b>	min I	max		Q KG
STA2020	2	10000 kg	550 mm	900 mm	460 mm	40 kg
AEK833	1	1500 kg	615 mm	700 mm	416 mm	9 kg
96486	2	1200 kg	1400 mm	1400 mm	700 mm	160 kg
STA15	4	800 kg	1106 mm	1106 mm	700 mm	100 kg
STA30	2	1500 kg	288 mm	425 mm	170x190 mm	7 kg
STA60	2	3000 kg	395 mm	605 mm	250x270 mm	13,2 kg



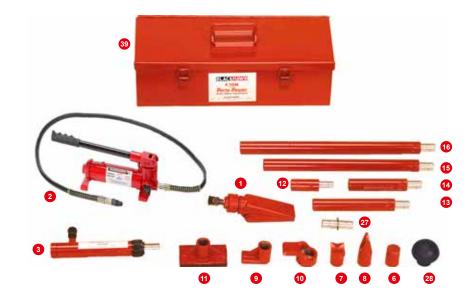
# **PORTO**POWER

#### PORTO POWER



65132A

4T standard set



#### 65135A

10T standard set



#### SF181A

10T standard set





#### **COMPOSITION**

		65132A	65135A	SF181A			65132A	65135A	SF181A
1	65123A	1	1	-	24	65169	-	1	1
2	65133A	1	-	-	25	65172	-	1	-
3	65134A	1	-	-	26	65173	-	1	-
4	65136A	-	1	-	27	65177	1	-	-
5	65137A	-	1	-	28	65178	1	-	-
6	65151	1	-	-	29	65179	-	1	-
7	65152	1	-	-	30	65180	-	1	-
8	65153	1	-	-	31	65637	-	-	1
9	65154	1	-	-	32	65638	-	-	1
10	65155	1	-	-	33	65639	-	-	1
11	65156	1	-	-	34	65640	-	-	1
12	65157	1	-	-	35	65642	-	-	1
13	65158	1	-	-	36	65667	-	-	1
14	65159	1	-	-	37	ARC157	-	-	1
15	65160	1	-	-	38	FZ1050	-	-	1
16	65161	1	-	-	39	H31614	1	-	-
17	65162	-	1	-	40	H31693A	-	1	1
18	65163	-	1	-	41	K239900	-	-	1
19	65164	-	1	-	42	K240900	-	-	1
20	65165	-	1	-	43	K241900	-	-	2
21	65166	-	1	-	44	PMP7600	-	-	1
22	65167	-	1	-	45	SA4	-	-	1
23	65168	-	1	-	46	<b>Z913</b>	-	-	1

## PORTO POWER ACCESSORIES

#### **4T PULL RAM SET**

Porto Power Accessories



#### ARC1730

4T pull ram set used with coupler H68939 (1/4")

#### **ARC1740**

4T pull ram set. Quick chain anchoring used with coupler ZR400 (3/8")

		HDY26	HDY27
1	PMP7600	1	-
2	PMP1501	-	1
3	Z909A	1	1
4	AGF7000	-	1
5	ACH604	1	1
6	ARC2506	1	1
7	HDY2202A	1	1
8	HDY2203A	1	1
9	HDY2204A	1	1
10	HDY2206A	1	1
11	HDY2207A	1	1
12	HDY2208A	1	1
13	HDY2209A	1	1
14	HDY2210A	1	1
15	HDY2215A	1	1
16	HDY2216	1	1

#### HDY26

23T pull ram set + hand pump





#### HDY27

23T pull ram set + hydro pneumatic pump

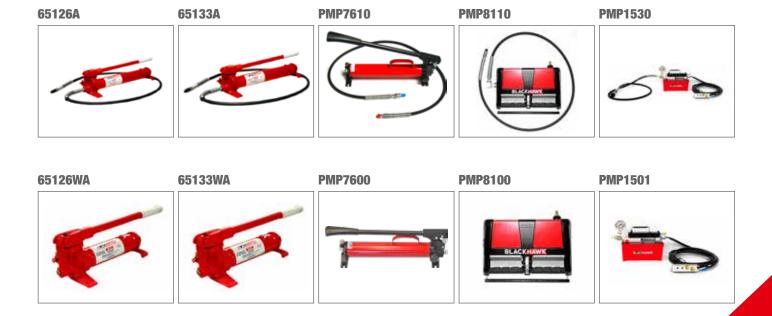
## PORTO POWER ACCESSORIES



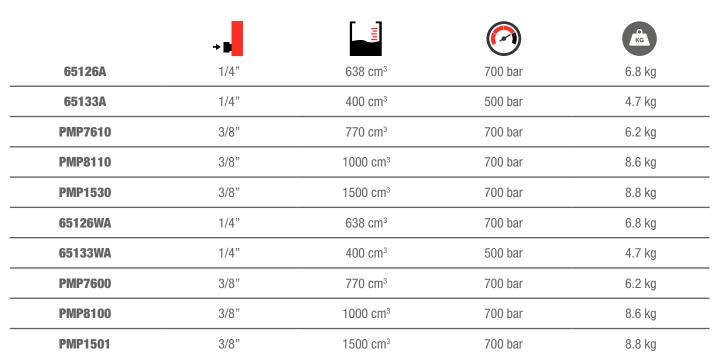
#### **HOSES AND COUPLERS**



#### **PUMPS**



## PUMPS TECHNICAL SPECIFICATIONS



#### **RAMS**

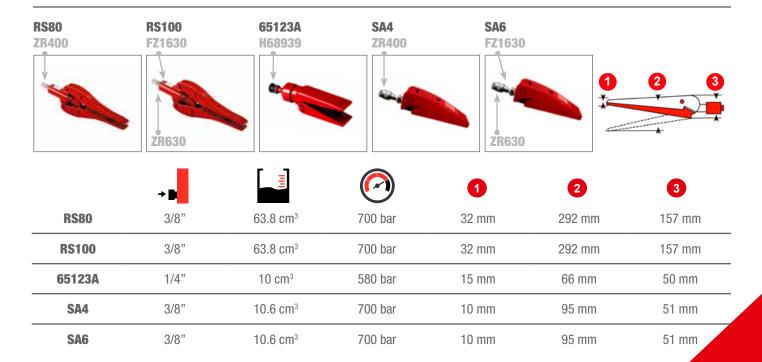


#### **RAMS**



	<b>→ B</b>	=		T + + +	max I	↑ mini ↓	$\bigcirc$
RC159	3/8"	220 cm <sup>3</sup>	700 bar	10T	152 mm	298 mm	57 mm
ARC161	3/8"	366 cm <sup>3</sup>	700 bar	10T	250 mm	402 mm	57 mm
ARC1610	3/8"	366 cm <sup>3</sup>	700 bar	10T	250 mm	545 mm	57 mm
ASK257900	3/8"	366 cm <sup>3</sup>	700 bar	10T	250 mm	480 mm	57 mm
RC250	3/8"	430 cm <sup>3</sup>	700 bar	20T	129 mm	287 mm	86 mm
ARC2506	3/8"	525 cm <sup>3</sup>	700 bar	20T	158 mm	263 mm	86 mm
65125	1/4"	524 cm <sup>3</sup>	680 bar	25T	165 mm	280 mm	84 mm

#### **SPREADERS**



#### **GAUGES AND COUPLERS**



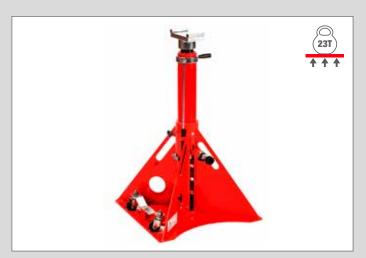
		Used with		Coupler
V82	Shut off valve			
AGA1	Gauge adaptor, 70 mm length for pump and hose	PMP7600 PMP8131	3/8" NPT	
AGA21	Gauge adaptor, total length 155 mm, for pump and hose		3/8" NPT	<b>**</b>
AGF10S AGF7000 AGF23S	Hydraulic pressure gauge 700 bars			
FZ1616	Elbow		3/8" NPT	120
FZ1614	Female coupling		3/8" NPT	
FZ1617	Hex nipple		3/8" NPT	
FZ1630	Reducer bushing		1 1/4" NPT 2 3/8" NPT	2
FZ1055	Reducer		1 3/8" NPT 2 1/4" NPT	1 2

# ATTACHMENTS FOR USE WITH 10-20T HYDRAULIC RAMS



	_	_	Used with	_	_
					_
FZ1050	Tube connector	10T	10T	20T	
FZ1051	Male Adaptor		10T		
FZ1052	Female adaptor		10T		
<b>Z10</b>	Male connector	10T			
<b>Z242</b>	Threaded connector			20T	
<b>Z436</b>	Serrated Saddle			20T	
Z1047	90° V base			20T	
<b>Z595</b>	Toe lift			20T	
<b>Z21</b>	Lock pin	10T			
<b>Z238</b>	Chain pull plate			20T	
Z218	Single hook 8' chain			20T	
65634	Tube adaptor	10T	10T		
65651	Adjustable extension		10T		
AEK327	Single hook chain	10T	10T		

## **HYDRAULIC SETS - HEAVY DUTY**



**HDY25** Hydraulic stand



**HDY22B**With cylinder ARC2506 stroke 158 mm



**HDY2504**Hydraulic stand with accessories



**HDY23A**With cylinder ARC2514 stroke 362 mm



**PMP1530** 



**ARC23**"C" PRESS - 23T - COMPLETE



**ARC21**"C" PRESS - 10T - COMPLETE





# SPOT WELDERS

The Blackhawk line of medium frequency resistance spot welders are micro-processor controlled and feature direct current (MFDC) inverter technology. A step above traditional spot welders, the Power Gun technology allows for higher welding currents with low absorption rates. Longer, lighter cables give better holding, wider range of action, and a minimum magnetic fields around the cables. Particularly suitable for autobody and repair shops, these welders give excellent results on high strength steel (HSS) and galvanised sheet metal.

Thanks to automatic recognition of the materials and thickness, the innovative Smart Autoset technology, eliminates set-up times and guarantees optimal spot welding, even when the types of steel to be processed are unknown. WAVE technology facilitates interaction with the machine and tracks all operating parameters for their processing and reporting. The programs and reports generated can be transferred to a USB flash drive for printing or viewing on a PC.

#### **WEL14000A**

15 000 A, 3 phase medium frequency, inverter technology, microprocessor-controlled resistance spot welder.

Speed up your welding process with the WEL14000A.

The Smart Autoset technology automatically detects materials and thicknesses - all you need to do is weld!

#### **COMPLETE PACKAGE WITH:**

Load balancer and pole kit, 3 water cooled arms, WEL14024-WEL14003-WEL14006 and 360 ring kit.

#### **TECHNICAL DATA:**

- 3 phase 400V 50/60 Hz, Mains fuse 32 A
- 3 phase 200/240V 50/60 Hz, Mains fuse 63 A
- Max spot-welding current 15000 A
- Max electrodes power 580 daN
- Max weld, thickness on sheets 3 + 3 + 3 mm
- Dimensions 800x520x1150 mm
- Weight 100 kg



#### **SMART TECHNOLOGY**

The innovative Smart Autoset technology automatically recognizes materials and thickness which eliminates set-up times and guarantees optimal spot welding, even when the types of steel to be processed are unknown. Suitable for body shop applications and gives excellent results on high strength steel (HSS)/boron and galvanized sheet metal.

#### **EASY TO USE**

The multifunction digital panel can be used to select the automatic Smart Autoset mode as well as the EASY, PRO, MULTI semi-automatic mode and the manual mode. Automatic pressure monitoring ensures excellent adjustment of the force applied to the gun electrodes.

#### **TOTAL CONTROL**

Technicians may customize the parameters to create and save their own spot-welding program. The machine allows for manual set-up of up to three materials and up to three different thicknesses. The programs and reports generated can be transferred to a USB pen drive.

#### WIDE RANGE

The Power Gun Technology allows high spot-welding currents with low absorption rates, the use of longer (5m) and lighter cables for a better holding and a wider range of action and minimum magnetic fields around the cables.

#### **INCLUDED**

#### WEL14001A Load balancer and pole kit



**WEL14004** 360 Ring kit



**OPTIONAL** 

WEL14009 Caps maintenance kit aqua



WEL14005
Coolant for cooling systems



WEL14014 Studder kit



ARMS & ELECTRODES (see page 6)



WEL14027 WI-FI Connectivity kit





12 000 A, 3 phase medium frequency, inverter technology, microprocessor-controlled resistance spot welder.

WEL15000 is suitable for body shop applications and giving excellent results on (HSS)/boron and galvanized metal sheets.

#### **COMPLETE PACKAGE WITH:**

Load balancer and pole kit, 4 water cooled arms, WEL14024-WEL14003-WEL14006-WEL14007, 360 ring kit, Coolant and Caps maintenance kit.

#### **TECHNICAL DATA:**

- 2 phase 400V 50/60 Hz, Mains fuse 32 A
- Max spot-welding current 7000 A
- Max electrodes power 400 daN
- Max weld, thickness on sheets 3 + 3 mm
- Dimensions 790x450x900 mm
- Weight 81 kg



#### **SMART AUTOSET**

Automatic recognition of the materials and thickness by Smart technology, eliminates set-up times and guarantees optimal spot welding even if the types of steel to be processed are not known.

#### **MULTIFUNCTION DIGITAL PANEL**

Can be used to select the automatic Smart Autoset mode as well as the EASY, PRO, MULTI semi-automatic mode and the manual mode. The programs and reports generated can be transferred to a USB pen drive.

#### POWER CLAMP TECHNOLOGY

Allows high spot-welding currents with low absorption rates, the use of longer (5m) and lighter cables for a better holding and a wider range of action and minimum magnetic fields around the cables.

#### **AUTOMATIC**

Pressure monitoring ensures excellent adjustment of the force applied to the clamp electrodes plus automatic recognition of the arm and inserted tool.

#### **INCLUDED**

#### WEL14001A Load balancer and pole kit



**WEL14004** 360 Ring kit



WEL14009 Caps maintenance kit aqua



WEL14005 Coolant for cooling systems



#### **OPTIONAL**





WEL14027 WI-FI Connectivity kit





7 000 A, 2 phase 400V X-Gun resistance spot welder

WEL17000 is a microprocessor controlled, spot-welding machine with a pneumatic water-cooled X-Gun for use in light car body repair and industrial field.

#### **COMPLETE PACKAGE WITH:**

Water cooled pneumatic X-gun with electrodes and water-cooling unit.

#### **TECHNICAL DATA:**

- 2 phase 400V 50/60 Hz, Mains fuse 32 A
- Max spot-welding current 7000 A
- Max electrodes power 400 daN
- Max weld, thickness on sheets 3 + 3 mm
- Dimensions 790x450x900 mm
- Weight 95 kg



#### **CONSISTENT QUALITY WELDS**

The digital, LCD, multifunction control panel allows the automatic regulation of spot-welding parameters according to the chosen tool and sheet thickness.

#### WIDE RANGE WORKSTATION

Is a work station that allows multiple types of welding such as continuous and PULSE single spot welding, spot welding of screws, washers, nails and rivets, spot welding/traction of special washers, intermittent welding, metal sheets warming and upsetting.

#### **OPTIONAL**

**WEL17001**Pole and balancer kit



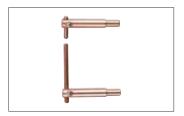
WEL14005 Coolant for cooling systems



WEL17002 Studder kit



ARMS & ELECTRODES



## WEL14000 & WEL15000

#### **ELECTRODES**





a.	L=	18	mm	WEL14011
b.	L=	18	mm	WEL15001
C.	L=	25	mm	WEL14012

#### WATER COOLED ARMS

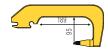
WEL14024 STD.....L= 95 mm WEL14002 .....L= 95 mm WEL14003 .....L=300 mm

WEL14006	L=550 mm	
WEL14008	L= 430 mm	l

WEL14024: b for WEL15000 - a for WEL14000 - WEL14002: a WEL14003: a - WEL14006: a WEL14007: c - WEL14008: a

WEL 14024 STANDARD

WEL 14003



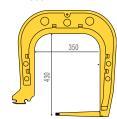
WEL 14002

WEL 14007

142

WEL14006

WEL14008



WEL14009 Caps maintenance kit aqua



WEL14025 Electrode holder kit LONG/SHORT





ARM PAIRS WITH ELECTRODES

WEL17016



WEL14034

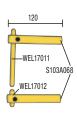


**BASIC ARMS KIT** WEL17014

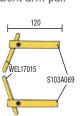
WEL17004 WEL17005 WEL17007 WEL17008 WEL17010



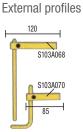
WEL17013 Straight arm pair



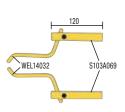
WEL17003 Bent arm pair



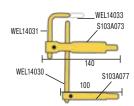
WEL17004



WEL17005 Clamp electrodes



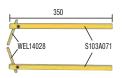
WEL17006 Internal profiles



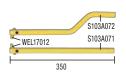
WEL17007 Straight arm pair



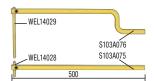
WEL17008 Bent arm pair



WEL17009 Shaped arm pair



WEL17010 Shaped arm pair



WEL17013.....L=120 mm (standard)

WEL17003 .....L=120 mm WEL17004.....L=120 mm WEL17005 .....L=120 mm WEL17006.....L=140 mm WEL17007.....L=250 mm WEL17008.....L=350 mm WEL17009.....L=350 mm WEL17010.....L=500 mm



# MIG/MAG MACHINES

These microprocessor controlled MIG-MAG/FLUX/BRAZING/MMA/ TIG DC-Lift inverter multi-process welders are fast and easy to use. WEL 33 is extremely flexible and can be used for a wide variety of applications while the WEL34 gives you more power and versatility with the possibility of use three different torches.

WEL35 have 3 torches and always ready to weld. The WAVE feature enables the technician to work directly on different materials without any need to change either the torch or the wire spool. All three welders feature One Touch LCD Synergy technology which gives quick synergic regulation of the welding parameters

#### **TECHNOMIG DUAL SYNERGIC**



**QUALITY**Smooth and accuracy wire feeding provide quality welds.



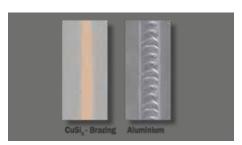
Pre-set synergy curves for various gases and materials.



**SYNERGIC**Quality welds on steel, stainless steel, aluminium



Easy to use, compact and light



**MIG-MAG**Excellent in body shops on galvanized panels



**FINE SET**WEL35, welding seam that can be shaped as required



Three torches 220 A Single phase 230V compact Mig/Mag machine

WEL35 is microprocessor controlled MIG-MAG/FLUX/BRAZING/MMA/TIG DC-Lift inverter multiprocess welding machine.

It is particularly suitable for use in body shops and allows the immediate use of three different torches. This feature enables the user to work directly on different materials without any need to change either the torch or the wire spool, 3 coil storage: 1 - 5 kg max and 2 - 15 kg max. Each torch can be dedicated to welding specific materials such as steel, high resistance steel (HSS), stainless steel, aluminum and brazing of galvanized metal sheets.

#### **COMPLETE PACKAGE WITH:**

2 MT15 torches, 1 MT25 torch, cable and grounding clamp.

#### **CONFIGURATION:**

- Steel welding wire diameter 0,6 1 mm
- Aluminum welding wire diam. 0,8 1,2 mm
- Brazing wire diam. 0,8 1,2 mm
- Inox welding wire diameter 0,8 1 mm
- Flux cored welding wire diam 0,8 1,2 mm

#### **TECHNICAL DATA:**

- Single phase 230V 50/60 Hz, Mains fuse 32 A
- Current range 20 220 A
- Max current 180 A 20%, 100 A 60%
- Max. Power 5 kW
- Dimensions 870x530x1665 mm
- Weight 59 kg



#### **ALWAYS READY**

3 torches always ready for use.

#### **USER FRIENDLY**

Visualization on LCD display of welding parameters: Easy Mode = select the material thickness and weld! Expert Mode = a fine set of welding parameters for specific welding requirements.

#### **VERSATILE**

WAVE OS operating system with pulsed welding programs for specific materials, 25 customizable programs.

#### **QUALITY**

ATC technology, excellent results are easily obtained due to advanced arc control, decreased deformation of material, extremely stable arc even when working with low currents, rapid and accurate tack welding.

#### **EFFICIENT**

Advanced technological solutions for welding operations in pulsed mode on aluminum and galvanized sheet metal. Optimized for the welding of materials which are particularly sensitive to heat input, guarantees excellent results, from both a structural and aesthetic viewpoint, comparable to those achieved by TIG welding.



Two torches + Spool gun, 220 A Single phase compact Mig/Mag machine

WEL34 is particularly suitable for auto body repair shops and allows 3 torches, two standard MIG torches and a spool gun, which enables the technician to work directly on different materials without any need to change the torch or the wire spool.

The traditional MIG torches are suitable for welding steel, HSS high strength steels, stainless steel and Mig-brazing of galvanized sheets, while the spool gun torch is specific for aluminum welding, even when working far away from the machine.

#### **COMPLETE PACKAGE WITH:**

2 MT15 torches, Spool gun, cable and grounding clamp.

#### **CONFIGURATION:**

- Steel welding wire diameter 0,6 1 mm
- Aluminum welding wire diam. 0,8 1,0 mm
- Brazing wire diam. 0,8 1,0 mm
- Inox welding wire diameter 0,8 1 mm
- Flux cored welding wire diam 0,8 1,0 mm

#### **TECHNICAL DATA:**

- Single phase voltage 230V 50/60 Hz, Mains fuse 32 A
- Current range 20 220 A
- Max current 180 A 20%, 100 A 60%
- Max. Power 5 kW
- Dimensions 870x530x1665 mm
- Weight 52 kg



#### TRIPLE TORCH VERSATILITY

3 coil storage, 2 - 15 kg for steel + spool gun 1 - 1 kg for aluminum.

#### **WIDE RANGE**

Quick synergic regulation of the welding parameters, thanks to the one touch LCD synergic technology, makes this product easy to use. 17 synergy curves available for various gases and materials.

#### **USER FRIENDLY**

Visualization on LCD graphic display allows better reading of all welding parameters.

#### **QUALITY**

ATC technology achieves with ease excellent welds on thin thicknesses thanks to an advanced control of the arc. The operator can also intervene manually along the arc length:

this adjustment means the weld seam can be modified according to the welder's style.



Single torch 220 A Single phase 230V compact Mig/Mag machine

WEL33 is the perfect solution for welding in body shops. Extremely flexible, it can be used to weld a wide range of materials including steel, stainless steel and aluminum or galvanized sheet metal for braze welding.

Lightweight and very compact, can be moved around easily in all intervention areas, both indoors and outdoors

#### **COMPLETE PACKAGE WITH:**

2 MT15 torches, 1 MT25 torch, cable and grounding clamp.

#### **CONFIGURATION:**

- Steel welding wire diameter 0,6 1 mm
- Aluminum welding wire diam. 0,8 1,0 mm
- Brazing wire diam. 0,8 1,0 mm
- Inox welding wire diameter 0,8 1 mm
- Flux cored welding wire diam 0,8 1,2 mm

#### **TECHNICAL DATA:**

- Single phase 230V 50/60 Hz, Mains fuse 32 A
- Current range 20 220 A
- Max current 180 A 20%, 100 A 60%
- Max. Power 5 kW
- Dimensions 795X375X730 mm
- Weight 31 kg



#### **QUICK**

Synergic regulation of the welding parameters, 25 synergy curves available. The operator can also intervene manually along the arc length: this adjustment means the weld seam can be modified according to the welder's style.

#### **EASY TO USE**

The intelligent and automatic control of the arc, moment by moment, maintains high welding performance in all working conditions, with different materials and/or gases. The operator can also intervene manually along the arc length: this adjustment means the weld seam can be modified according to the welder's style.

#### **POLARITY REVERSAL**

for GAS MIG-MAG/BRAZING welding



#### **MIG-MAG ACCESSORIES**























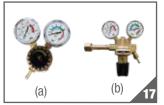












T - WIRE COILS           Stainless steel         S617A002         ∅ 0,8         0,5 kg           S617A003         1 kg           2 - WIRE COILS           Aluminium         S617A004         ∅ 0,8         0,45 kg           Al Mg₅         S617A005         ∅ 1         0,45 kg           Al Si         S617A007         ∅ 1 - (1pc)         2 kg           Al Si         S617A007         ∅ 1 - (1pc)         2 kg           3 - FLUX CORED WIRE         S450A002         ∅ 0,8 - (2pcs)         0,8 kg           S450A003         3 kg         S450A005         3 kg           S450A006         ∅ 1,2 - (2pcs)         0,8 kg           S450A007         3 kg           4 - FLUX CORED WIRE           Steel         S450A008         ∅ 0,6 - (2pcs)         0,8 kg           S450A001         ∅ 0,8 - (2pcs)         0,8 kg           S450A011         5 kg           5 - BRAZING WIRE           Cu Si₃         S450A012         ∅ 0,8         0,8 kg           Cu Si₃         S450A013         ∅ 0,8         0,8 kg           Cu Al₃         S450A014         ∅ 0,8         0,8 kg           Cu Si₃         S450A014         ∅ 0,8				
S617A003	1 - WIRE	COILS		
2 - WIRE COILS           Aluminium         S617A004         ∅ 0,8         0,45 kg           S617A005         ∅ 1         0,45 kg           AI Mg₅         S617A006         ∅ 1 - (1pc)         2 kg           AI Si         S617A007         ∅ 1 - (1pc)         2 kg           3 - FLUX CORED WIRE         S450A002         ∅ 0,8 - (2pcs)         0,8 kg           S450A003         3 kg           S450A004         ∅ 0,9 - (2pcs)         0,8 kg           S450A005         3 kg           S450A006         ∅ 1,2 - (2pcs)         0,8 kg           S450A007         3 kg           4 - FLUX CORED WIRE           Steel         S450A008         ∅ 0,6 - (2pcs)         0,8 kg           S450A009         5 kg           S450A010         ∅ 0,8 - (2pcs)         0,8 kg           S450A011         5 kg           S450A012         ∅ 0,8         0,8 kg           Cu Si₃         S450A013         ∅ 0,8         0,8 kg           Cu Al₃         S450A014         ∅ 0,8         0,8 kg           Cu Al₃         S450A014         ∅ 0,8 - for WEL35, WEL34, WEL33           S885A546         ∅ 0,8 - for WEL35, WEL34, WEL33           S885A		S617A002	Ø 0,8	0,5 kg
Aluminium         S617A004         Ø 0,8         0,45 kg           S617A005         Ø 1         0,45 kg           Al Mg₅         S617A006         Ø 1 - (1pc)         2 kg           Al Si         S617A007         Ø 1 - (1pc)         2 kg           3 - FLUX CORED WIRE         S450A002         Ø 0,8 - (2pcs)         0,8 kg           S450A003         3 kg           S450A004         Ø 0,9 - (2pcs)         0,8 kg           S450A005         3 kg           S450A006         Ø 1,2 - (2pcs)         0,8 kg           S450A007         3 kg           4 - FLUX CORED WIRE           Steel         S450A008         Ø 0,6 - (2pcs)         0,8 kg           S450A010         Ø 0,8 - (2pcs)         0,8 kg           S450A011         5 kg           5 - BRAZING WIRE           Cu Si₃         S450A012         Ø 0,8         0,8 kg           Cu Si₃         S450A014         Ø 0,8         3 kg           Cu Al <sub>8</sub> S450A014         Ø 0,8         0,8 kg           G - CONTACT TIP         S85A545         Ø 0,6 - for WEL35, WEL34, WEL33           S885A546         Ø 0,8 - for WEL35, WEL34, WEL33           Aluminium         S885A545         <		S617A003		1 kg
S617A005       Ø 1       0,45 kg         Al Mg₅       S617A006       Ø 1 - (1pc)       2 kg         Al Si       S617A007       Ø 1 - (1pc)       2 kg         3 - FLUX CORED WIRE       S450A002       Ø 0,8 - (2pcs)       0,8 kg         S450A003       3 kg         S450A004       Ø 0,9 - (2pcs)       0,8 kg         S450A005       3 kg         S450A006       Ø 1,2 - (2pcs)       0,8 kg         S450A007       3 kg         4 - FLUX CORED WIRE         Steel       S450A008       Ø 0,6 - (2pcs)       0,8 kg         S450A010       Ø 0,8 - (2pcs)       0,8 kg         S450A011       5 kg         5 - BRAZING WIRE         Cu Si₃       S450A012       Ø 0,8       0,8 kg         Cu Si₃       S450A013       Ø 0,8       0,8 kg         G - CONTACT TIP         Steels       S85A543       Ø 0,6 - for WEL35, WEL34, WEL33         S885A550       Ø 1 - for WEL35, WEL34, WEL33         Aluminium       S885A545       Ø 0,8 - for WEL35, WEL34, WEL33         S885A549       Ø 1 - for WEL35, WEL34, WEL33	2 - WIRE	COILS		
AI Mg <sub>5</sub> S617A006 Ø 1 - (1pc) 2 kg  AI Si S617A007 Ø 1 - (1pc) 2 kg  3 - FLUX CORED WIRE  S450A002 Ø 0,8 - (2pcs) 0,8 kg  S450A003 3 kg  S450A005 3 kg  S450A006 Ø 1,2 - (2pcs) 0,8 kg  S450A007 3 kg  4 - FLUX CORED WIRE  Steel S450A008 Ø 0,6 - (2pcs) 0,8 kg  S450A009 5 kg  S450A010 Ø 0,8 - (2pcs) 0,8 kg  S450A011 5 kg  5 - BRAZING WIRE  Cu Si <sub>3</sub> S450A012 Ø 0,8 0,8 kg  Cu Al <sub>8</sub> S450A014 Ø 0,8 0,8 kg  6 - CONTACT TIP  Steels S885A543 Ø 0,6 - for WEL35, WEL34, WEL33  S885A550 Ø 1 - for WEL35, WEL34, WEL33  Aluminium S885A545 Ø 0,8 - for WEL35, WEL34, WEL33  Aluminium S885A549 Ø 1 - for WEL35, WEL34, WEL33	Aluminium	S617A004	Ø 0,8	0,45 kg
Al Si S617A007 Ø 1 - (1pc) 2 kg  3 - FLUX CORED WIRE  S450A002 Ø 0,8 - (2pcs) 0,8 kg  S450A003 3 kg  S450A004 Ø 0,9 - (2pcs) 0,8 kg  S450A005 3 kg  S450A006 Ø 1,2 - (2pcs) 0,8 kg  S450A007 3 kg  4 - FLUX CORED WIRE  Steel S450A008 Ø 0,6 - (2pcs) 0,8 kg  S450A009 5 kg  S450A010 Ø 0,8 - (2pcs) 0,8 kg  S450A011 5 kg  5 - BRAZING WIRE  Cu Si <sub>3</sub> S450A012 Ø 0,8 0,8 kg  Cu Al <sub>8</sub> S450A014 Ø 0,8 0,8 kg  6 - CONTACT TIP  Steels S885A543 Ø 0,6 - for WEL35, WEL34, WEL33  S885A550 Ø 1 - for WEL35, WEL34, WEL33  Aluminium S885A545 Ø 0,8 - for WEL35, WEL34, WEL33  S885A549 Ø 1 - for WEL35, WEL34, WEL33		S617A005	Ø 1	0,45 kg
3 - FLUX CORED WIRE         \$450A002       Ø 0,8 - (2pcs)       0,8 kg         \$450A003       3 kg         \$450A004       Ø 0,9 - (2pcs)       0,8 kg         \$450A005       3 kg         \$450A006       Ø 1,2 - (2pcs)       0,8 kg         \$450A007       3 kg         4 - FLUX CORED WIRE         Steel       \$450A008       Ø 0,6 - (2pcs)       0,8 kg         \$450A010       Ø 0,8 - (2pcs)       0,8 kg         \$450A011       5 kg         5 - BRAZING WIRE         Cu Si <sub>3</sub> \$450A012       Ø 0,8       0,8 kg         Cu Si <sub>3</sub> \$450A013       Ø 0,8       3 kg         Cu Al <sub>8</sub> \$450A014       Ø 0,8       0,8 kg         6 - CONTACT TIP         Steels       \$885A543       Ø 0,6 - for WEL35, WEL34, WEL33         \$885A550       Ø 1 - for WEL35, WEL34, WEL33         Aluminium       \$885A545       Ø 0,8 - for WEL35, WEL34, WEL33         \$885A549       Ø 1 - for WEL35, WEL34, WEL33	Al Mg <sub>5</sub>	S617A006	Ø 1 - (1pc)	2 kg
\$450A002       Ø 0,8 - (2pcs)       0,8 kg         \$450A003       3 kg         \$450A004       Ø 0,9 - (2pcs)       0,8 kg         \$450A005       3 kg         \$450A006       Ø 1,2 - (2pcs)       0,8 kg         \$450A007       3 kg         4 - FLUX CORED WIRE         \$450A008       Ø 0,6 - (2pcs)       0,8 kg         \$450A009       5 kg         \$450A010       Ø 0,8 - (2pcs)       0,8 kg         \$450A011       5 kg         \$450A011       5 kg         \$450A012       Ø 0,8       0,8 kg         \$Cu Si <sub>3</sub> \$450A012       Ø 0,8       3 kg         \$Cu Al <sub>8</sub> \$450A013       Ø 0,8       3 kg         \$Cu Al <sub>8</sub> \$450A014       Ø 0,8       0,8 kg         \$6 - CONTACT TIP         \$885A546       Ø 0,8 - for WEL35, WEL34, WEL33         \$885A550       Ø 1 - for WEL35, WEL34, WEL33         Aluminium       \$885A545       Ø 0,8 - for WEL35, WEL34, WEL33         \$885A549       Ø 1 - for WEL35, WEL34, WEL33	Al Si	S617A007	Ø 1 - (1pc)	2 kg
S450A003       3 kg         S450A004       Ø 0,9 - (2pcs)       0,8 kg         S450A005       3 kg         S450A006       Ø 1,2 - (2pcs)       0,8 kg         S450A007       3 kg         4 - FLUX CORED WIRE         Steel       S450A008       Ø 0,6 - (2pcs)       0,8 kg         S450A010       Ø 0,8 - (2pcs)       0,8 kg         S450A011       5 kg         5 - BRAZING WIRE         Cu Si <sub>3</sub> S450A012       Ø 0,8       0,8 kg         Cu Si <sub>3</sub> S450A013       Ø 0,8       3 kg         Cu Al <sub>8</sub> S450A014       Ø 0,8       0,8 kg         6 - CONTACT TIP         Steels       S885A543       Ø 0,6 - for WEL35, WEL34, WEL33         S885A550       Ø 1 - for WEL35, WEL34, WEL33         Aluminium       S885A545       Ø 0,8 - for WEL35, WEL34, WEL33         S885A549       Ø 1 - for WEL35, WEL34, WEL33	3 - FLUX (	CORED WIR	E	
S450A004       Ø 0,9 - (2pcs)       0,8 kg         S450A005       3 kg         S450A006       Ø 1,2 - (2pcs)       0,8 kg         S450A007       3 kg         4 - FLUX CORED WIRE         Steel       S450A008       Ø 0,6 - (2pcs)       0,8 kg         S450A010       Ø 0,8 - (2pcs)       0,8 kg         S450A011       5 kg         5 - BRAZING WIRE         Cu Si <sub>3</sub> S450A012       Ø 0,8       0,8 kg         Cu Si <sub>3</sub> S450A013       Ø 0,8       3 kg         Cu Al <sub>8</sub> S450A014       Ø 0,8       0,8 kg         6 - CONTACT TIP         Steels       S885A543       Ø 0,6 - for WEL35, WEL34, WEL33         S885A550       Ø 1 - for WEL35, WEL34, WEL33         Aluminium       S885A545       Ø 0,8 - for WEL35, WEL34, WEL33         S885A549       Ø 1 - for WEL35, WEL34, WEL33		S450A002	Ø 0,8 - (2pcs)	0,8 kg
S450A005       3 kg         S450A006       Ø 1,2 - (2pcs)       0,8 kg         S450A007       3 kg         4 - FLUX CORED WIRE         Steel       S450A008       Ø 0,6 - (2pcs)       0,8 kg         S450A009       5 kg         S450A010       Ø 0,8 - (2pcs)       0,8 kg         S450A011       5 kg         5 - BRAZING WIRE         Cu Si <sub>3</sub> S450A012       Ø 0,8       0,8 kg         Cu Al <sub>8</sub> S450A013       Ø 0,8       3 kg         Cu Al <sub>8</sub> S450A014       Ø 0,8       0,8 kg         6 - CONTACT TIP         Steels       S85A543       Ø 0,6 - for WEL35, WEL34, WEL33         S885A550       Ø 1 - for WEL35, WEL34, WEL33         Aluminium       S885A545       Ø 0,8 - for WEL35, WEL34, WEL33         S885A549       Ø 1 - for WEL35, WEL34, WEL33		S450A003		3 kg
S450A006       Ø 1,2 - (2pcs)       0,8 kg         S450A007       3 kg         4 - FLUX CORED WIRE         Steel       S450A008       Ø 0,6 - (2pcs)       0,8 kg         S450A009       5 kg         S450A010       Ø 0,8 - (2pcs)       0,8 kg         S450A011       5 kg         5 - BRAZING WIRE         Cu Si <sub>3</sub> S450A012       Ø 0,8       0,8 kg         Cu Si <sub>3</sub> S450A013       Ø 0,8       3 kg         Cu Al <sub>8</sub> S450A014       Ø 0,8       0,8 kg         6 - CONTACT TIP         Steels       S885A543       Ø 0,6 - for WEL35, WEL34, WEL33         S885A546       Ø 0,8 - for WEL35, WEL34, WEL33         Aluminium       S885A545       Ø 0,8 - for WEL35, WEL34, WEL33         S885A549       Ø 1 - for WEL35, WEL34, WEL33		S450A004	Ø 0,9 - (2pcs)	0,8 kg
S450A007       3 kg         4 - FLUX CORED WIRE         Steel       S450A008       Ø 0,6 - (2pcs)       0,8 kg         S450A009       5 kg         S450A010       Ø 0,8 - (2pcs)       0,8 kg         S450A011       5 kg         5 - BRAZING WIRE         Cu Si₃       S450A012       Ø 0,8       0,8 kg         Cu Si₃       S450A013       Ø 0,8       3 kg         Cu Al₀       S450A014       Ø 0,8       0,8 kg         6 - CONTACT TIP         Steels       S885A543       Ø 0,6 - for WEL35, WEL34, WEL33         S885A550       Ø 1 - for WEL35, WEL34, WEL33         Aluminium       S885A545       Ø 0,8 - for WEL35, WEL34, WEL33         S885A549       Ø 1 - for WEL35, WEL34, WEL33		S450A005		3 kg
4 - FLUX CORED WIRE           Steel         \$450A008         Ø 0,6 - (2pcs)         0,8 kg           \$450A009         5 kg           \$450A010         Ø 0,8 - (2pcs)         0,8 kg           \$450A011         5 kg           5 - BRAZING WIRE           Cu Si <sub>3</sub> \$450A012         Ø 0,8         0,8 kg           Cu Si <sub>3</sub> \$450A013         Ø 0,8         3 kg           Cu Al <sub>8</sub> \$450A014         Ø 0,8         0,8 kg           6 - CONTACT TIP           Steels         \$885A543         Ø 0,6 - for WEL35, WEL34, WEL33           \$885A546         Ø 0,8 - for WEL35, WEL34, WEL33           Aluminium         \$885A545         Ø 0,8 - for WEL35, WEL34, WEL33           \$885A549         Ø 1 - for WEL35, WEL34, WEL33		S450A006	Ø 1,2 - (2pcs)	0,8 kg
Steel         \$450A008         \$0.6 - (2pcs)         0,8 kg           \$450A009         5 kg           \$450A010         \$0.8 - (2pcs)         0,8 kg           \$450A011         5 kg           \$5 - BRAZING WIRE           Cu \$i_3         \$450A012         \$0.8         0,8 kg           Cu \$i_3         \$450A013         \$0.8         3 kg           Cu \$Al_8         \$450A014         \$0.8         0,8 kg           \$6 - CONTACT TIP         \$885A543         \$0.6 - for WEL35, WEL34, WEL33           \$885A546         \$0.8 - for WEL35, WEL34, WEL33           \$885A550         \$0.1 - for WEL35, WEL34, WEL33           Aluminium         \$885A545         \$0.8 - for WEL35, WEL34, WEL33           \$885A549         \$0.1 - for WEL35, WEL34, WEL33		S450A007		3 kg
\$450A009       5 kg         \$450A010       Ø 0,8 - (2pcs)       0,8 kg         \$450A011       5 kg         \$5 - BRAZING WIRE         Cu \$i_3\$       \$450A012       Ø 0,8       0,8 kg         Cu \$i_3\$       \$450A013       Ø 0,8       3 kg         Cu \$Al_8\$       \$450A014       Ø 0,8       0,8 kg         6 - CONTACT TIP         Steels       \$885A543       Ø 0,6 - for WEL35, WEL34, WEL33         \$885A546       Ø 0,8 - for WEL35, WEL34, WEL33         Aluminium       \$885A545       Ø 0,8 - for WEL35, WEL34, WEL33         \$885A549       Ø 1 - for WEL35, WEL34, WEL33	4 - FLUX (	CORED WIR	E	
S450A010       Ø 0,8 - (2pcs)       0,8 kg         \$450A011       5 kg         5 - BRAZING WIRE         Cu Si <sub>3</sub> \$450A012       Ø 0,8       0,8 kg         Cu Si <sub>3</sub> \$450A013       Ø 0,8       3 kg         Cu Al <sub>8</sub> \$450A014       Ø 0,8       0,8 kg         6 - CONTACT TIP         Steels       \$885A543       Ø 0,6 - for WEL35, WEL34, WEL33         \$885A546       Ø 0,8 - for WEL35, WEL34, WEL33         Aluminium       \$885A545       Ø 0,8 - for WEL35, WEL34, WEL33         \$885A549       Ø 1 - for WEL35, WEL34, WEL33	Steel	S450A008	Ø 0,6 - (2pcs)	0,8 kg
S450A011       5 kg         5 - BRAZING WIRE         Cu Si <sub>3</sub> S450A012       Ø 0,8       0,8 kg         Cu Si <sub>3</sub> S450A013       Ø 0,8       3 kg         Cu Al <sub>8</sub> S450A014       Ø 0,8       0,8 kg         6 - CONTACT TIP         Steels       S885A543       Ø 0,6 - for WEL35, WEL34, WEL33         S885A546       Ø 0,8 - for WEL35, WEL34, WEL33         Aluminium       S885A545       Ø 0,8 - for WEL35, WEL34, WEL33         S885A549       Ø 1 - for WEL35, WEL34, WEL33		S450A009		5 kg
		S450A010	Ø 0,8 - (2pcs)	0,8 kg
Cu Si <sub>3</sub> S450A012         Ø 0,8         0,8 kg           Cu Si <sub>3</sub> S450A013         Ø 0,8         3 kg           Cu Al <sub>8</sub> S450A014         Ø 0,8         0,8 kg           6 - CONTACT TIP           Steels         S885A543         Ø 0,6 - for WEL35, WEL34, WEL33           S885A546         Ø 0,8 - for WEL35, WEL34, WEL33           S885A550         Ø 1 - for WEL35, WEL34, WEL33           Aluminium         S885A545         Ø 0,8 - for WEL35, WEL34, WEL33           S885A549         Ø 1 - for WEL35, WEL34, WEL33		S450A011		5 kg
Cu Si <sub>3</sub> S450A013         Ø 0,8         3 kg           Cu Al <sub>8</sub> S450A014         Ø 0,8         0,8 kg           6 - CONTACT TIP           Steels         S885A543         Ø 0,6 - for WEL35, WEL34, WEL33           S885A546         Ø 0,8 - for WEL35, WEL34, WEL33           S885A550         Ø 1 - for WEL35, WEL34, WEL33           Aluminium         S885A545         Ø 0,8 - for WEL35, WEL34, WEL33           S885A549         Ø 1 - for WEL35, WEL34, WEL33	5 - BRAZI	NG WIRE		
Cu Al <sub>8</sub> S450A014         Ø 0,8         0,8 kg           6 - CONTACT TIP           Steels         S885A543         Ø 0,6 - for WEL35, WEL34, WEL33           S885A546         Ø 0,8 - for WEL35, WEL34, WEL33           S885A550         Ø 1 - for WEL35, WEL34, WEL33           Aluminium         S885A545         Ø 0,8 - for WEL35, WEL34, WEL33           S885A549         Ø 1 - for WEL35, WEL34, WEL33	Cu Si <sub>3</sub>	S450A012	Ø 0,8	0,8 kg
6 - CONTACT TIP           Steels         S885A543         Ø 0,6 - for WEL35, WEL34, WEL33           S885A546         Ø 0,8 - for WEL35, WEL34, WEL33           S885A550         Ø 1 - for WEL35, WEL34, WEL33           Aluminium         S885A545         Ø 0,8 - for WEL35, WEL34, WEL33           S885A549         Ø 1 - for WEL35, WEL34, WEL33	Cu Si <sub>3</sub>	S450A013	Ø 0,8	3 kg
Steels         S885A543         Ø 0,6 - for WEL35, WEL34, WEL33           S885A546         Ø 0,8 - for WEL35, WEL34, WEL33           S885A550         Ø 1 - for WEL35, WEL34, WEL33           Aluminium         S885A545         Ø 0,8 - for WEL35, WEL34, WEL33           S885A549         Ø 1 - for WEL35, WEL34, WEL33	Cu Al <sub>8</sub>	S450A014	Ø 0,8	0,8 kg
S885A546 Ø 0,8 - for WEL35, WEL34, WEL33 S885A550 Ø 1 - for WEL35, WEL34, WEL33 Aluminium S885A545 Ø 0,8 - for WEL35, WEL34, WEL33 S885A549 Ø 1 - for WEL35, WEL34, WEL33	6 - CONTA	ACT TIP		
S885A550 Ø 1 - for WEL35, WEL34, WEL33  Aluminium S885A545 Ø 0,8 - for WEL35, WEL34, WEL33  S885A549 Ø 1 - for WEL35, WEL34, WEL33	Steels	S885A543	Ø 0,6 - for WEL35, W	EL34, WEL33
Aluminium S885A545 Ø 0,8 - for WEL35, WEL34, WEL33 S885A549 Ø 1 - for WEL35, WEL34, WEL33		S885A546	Ø 0,8 - for WEL35, W	EL34, WEL33
S885A549 Ø 1 - for WEL35, WEL34, WEL33		S885A550	Ø 1 - for WEL35, WEL	.34, WEL33
<del></del>	Aluminium	S885A545	Ø 0,8 - for WEL35, W	EL34, WEL33
S885A547 Ø 1,2 - for WEL35, WEL34, WEL33		S885A549	Ø 1 - for WEL35, WEL	.34, WEL33
		S885A547	Ø 1,2 - for WEL35, W	EL34, WEL33
7 - CONICAL NOZZLE	7 - CONIC	AL NOZZLE		

S885A541

for WEL35, WEL34, WEL33

#### 8 - THIN HEADED NOZZLE

S885A568 for WEL35, WEL34, WEL33

#### 9 - CYLINDER NOZZLE

S885A562 for WEL35, WEL34, WEL33

#### **10 - NOZZLE FOR SPOT-WELDING NAILS**

S885A598 for WEL35, WEL34, WEL33

#### 11 - NOZZLE FOR SPOT-WELDING

S885A599 for WEL33/WEL34/WEL35

S885A600 for WEL35

#### 12 - LINER

Steel/FLUX (3m)	S885A576	$\emptyset$ 0,6÷0,8 - for WEL35, WEL34, WEL33
	S885A577	Ø 1÷1,2 - for WEL35, WEL34, WEL33
Steel/FLUX (5m)	S885A601	Ø 0,6÷0,8 - for WEL35, WEL33
	S885A602	Ø 1÷1,2 - for WEL35, WEL33
Aluminium (3m)	S646A218	Ø 1÷1,2 - for WEL34
	S885A603	Ø 1÷1,2 - for WEL35

#### 13 - SPRING

S110A103 for WEL33/WEL34/WEL35 S110A104 for WEL34

#### 14 - GAS DIFFUSOR

S885A570 for WEL34

#### 15 - FEEDING ROLLS

Fe	S281A039	Ø 0,6÷0,8 - for WEL35, WEL33
	S281A046	Ø 1÷1,2 - for WEL35
AL	S281A045	Ø 0,8÷1 - for WEL34
FLUX	S281A047	Ø 1÷1,2 - for WEL34
	S281A048	Ø 1÷1,6 - for WEL35, WEL33

#### **16 - HELMET -** WEL14026

**17 - GAS REGULATOR -** (a) WEL3301- (b) WEL3306



# DENT PULLING SOLUTIONS

Steel and Aluminum repairs made easy! The WEL16000 is a microprocessor controlled, electronic system for the repair of sheet metal making it a perfect fit for use in autobody repair shops. And if it's an aluminum repair you're working on, then the WEL21000 is the spotter for you. It allows for welding of studs on non-treated or non-oxidized surfaces in steel, stainless steel, galvanized steel, brass and, in particular, aluminium.

Dual Gun Spotter, Single phase 230V

WEL16000 is a microprocessor controlled dual gun spotter for the repair of sheet metal. Perfect fit for use in autobody repair shops. With the LCD digital, multifunction control panel you get automatic regulation of the spot-welding parameters according to the chosen tool. It allows welding of studs on non-treated or non-oxidized surfaces in steel, stainless steel, galvanized steel and aluminum.

# WEL 19000

#### COMPLETE PACKAGE WITH:

Automatic gun, manual gun, work cable with pointing mass, extractor, spindle and pulling stars.

#### **TECHNICAL DATA:**

- Single phase 230V 50/60 Hz, Main fuse 16 A
- Peak Spot welding current: 3800 A
- Weight: 24 kg
- Max. Power: 10,5 kW
- Dimensions: 390x260x225 mm

#### **VERSATILE**

Meet your dent-pulling needs by connecting various working tools to the DINSE socket.

#### **LCD DISPLAY**

Makes it easy to read the parameters and instructions

#### **EASY TO USE**

Parameters adjust automatically to the chosen tool

#### **OPTIONAL**

WEL16003 Trolley



WEL16005 Dent pulling box



WEL16006 Kit multiever



WEL16002 Duo accessory kit



WEL16007

Pulling lever kit







#### **WEL21000A**

Aluminum Dent Puller, Single phase 230V

The WEL21000A is a portable aluminum dent puller that gives rapid welding and pulling thereby reducing repair times. It is suitable for applications in car body shops.

#### **COMPLETE PACKAGE WITH:**

Gun, earth cable with clamp and accessories.

#### **TECHNICAL DATA:**

- Single phase 230V 50/60 Hz, Main fuse 16 A
- Spot time 1 3 ms
- Number of welded studs 7 studs/min
- Stud diameters 3 4 mm
- Weight 11,7 kg
- Max. Power 10 kW
- Dimensions 450x150x270 mm



#### **POWERFUL**

Handles capacitor discharge welding of studs of 3 - 4mm as well as other accessories, with tip strike.

#### **VERSATILE**

Welding of studs on non-treated or non-oxidized surfaces in steel, stainless steel, galvanized steel, brass and, in particular, aluminum

#### **FAST**

The welding process is so short that it causes no alteration to the opposing surface even if painted, plastic-coated or galvanized.

#### **OPTIONAL**

WEL21001

M3 - Al 12 mm (100pcs)



WEL21002

M4 - Al 16 mm (100pcs)



WEL21003

M3 - Stud holding electrode (1pc)



WEL21004

M4 - Stud holding electrode (1pc)



Aluminum-Steel Dent Puller Station

WEL18000 is the perfect solution for Aluminum & Steel dent repair. The dent puller station is equipped and designed to fit both WEL21000 Aluminum Dent Puller and WEL16000 Dual Gun Spotter.

WEL18000 dent puller station is a complete mobile workstation equipped with the tools technicians need to properly repair dents in aluminum, steel sheet metal body panels and hoods. It includes multilevel, traction bar, pull system and accessories.

#### **COMPLETE PACKAGE WITH:**

- Puller station
- Kit multilevel
- Traction bar
- Compact puller
- Pull system
- Multihooks 8 pin
- Multihooks 6 pin
- Dent pulling box

#### **TECHNICAL DATA:**

- Dimensions 450x150x270 mm
- Weight 11,7 kg







STARS	
WEL18003	STAR (100pcs) BOX: <b>D</b> 10pcs - <b>E</b> 20pcs
	STAR HOLDING ELECTRODE
WASHERS	
0	Ø 8 mm (100pcs) BOX: <b>D</b> 50pcs
	WASHER HOLDING ELECTRODE BOX: <b>D</b> 1pc
	HOOK MANDREL
<b>WAVY WIRE</b>	
WEL18011	300 mm (50pcs)
WEL18012	200 mm (50pcs) BOX: <b>E</b> 20pcs
	SPOT WELDING ELECTRODE BOX: <b>D</b> 1pc - <b>E</b> 1pc
8	MAGNETIC POSITIONER

UPSE	TTING		
	1	SQUEEZING ELECTRODE BOX: D 1pc	_
RIVET	ſS	BOX: D Tpc	
Ø3	•	3,2 mm (100pcs) BOX: <b>D</b> 50pcs	
Ø3	•	4,5 mm (100pcs) BOX: <b>D</b> 100pcs	
Ø3		ELECTRODE BOX: <b>D</b> 1pc	
M4		15 mm (100pcs)	
M4	4	ELECTRODE	
M5-Ø5		18 mm (100pcs) BOX: <b>D</b> 50pcs	
M5-Ø5	=1	10 mm (100pcs)	
M5-Ø5	emest)	12 mm (100pcs) BOX: <b>D</b> 50pcs	
M5-Ø5	Samuel.	25 mm (100pcs)	
M5-Ø5		ELECTRODE M5 - M6 BOX: <b>D</b> 1pc	,
HEAT	ING		
_	_	150 mm CARBON BOX: <b>D</b> 5pcs	_
HOOK	WASHER	S	
0	WEL18009	FLAT HOOK WASHERS BOX: <b>E</b> 10pcs	•

0	WEL18040	TWISTED HOOK WASHERS BOX: E 10pcs
		ELECTRODE BOX: <b>E</b> 1pc
	7	LEVER - 210 mm BOX: <b>E</b> 1pc
		LEVER - 410 mm
PATC	HING	
<b>(-</b>	WEL14020	ELECTRODE
SPOT-	-WELDING	1 SIDE
	WEL14017	ELECTRODE BOX: <b>D</b> 1pc
<b>POINT</b>	TING MASS	S
	WEL18024	
NAILS	3	
	WEL18021	Ø 2X50 mm (100pcs)
	WEL18022	Ø 2,5X50 mm (100pcs)
( ·	WEL14021	NAILS HOLDING ELECTRODE
	WEL14018	NAILS HOLDER
	PATCI FOINT	PATCHING WEL14020 SPOT-WELDING WEL14017 POINTING MASS WEL18024 NAILS WEL18021 WEL18022



# **CUTTERS**

The Technology WEL19000 is the perfect cutting tool for high-strength steels. It gives accurate, clean, microprocessor controlled high-speed cutting. This inverter, compressed air plasma cutting system, features contact striking of pilot arc. FAST - Allows a rapid, distortion-proof cutting of all conductive materials such as steel, stainless steel, galvanised steel, aluminium, copper, brass, etc.

Plasma Cutter, Single phase 230V

The Plasma WEL19000 is the perfect cutting tool for high-strength steels. It gives accurate, clean, microprocessor controlled high-speed cutting. It is an inverter, compressed air plasma cutting system, with contact striking of pilot arc.

Allows a rapid, distortion-proof cutting of all conductive materials such as steel, stainless steel, galvanized steel, aluminum, copper, brass, etc.

#### **COMPLETE PACKAGE WITH:**

Torch

#### **TECHNICAL DATA:**

- Single phase 230V 50/60 Hz, Main fuse 16 A
- Current range 7 40 A
- Max current 35 A 30%
- Max cutting thickness 12 mm
- Compressed air capacity 100L/min
- Compressed air pressure 4 5 bar
- Weight 7,6 kg
- Max. Power: 4 kW
- Dimensions: 540x150x270 mm



#### **PORTABLE**

Light weight and compact making it handy to use anywhere in the workshop.

#### SAFE

Features a warning LED-light for: torch under voltage and thermostatic, overvoltage, undervoltage, overcurrent protections.

#### CONTROL

The control panel gives clear visualization of air pressure allowing technicians to keep control of the process.

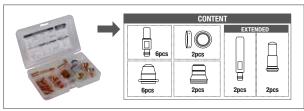
#### **AUTOMATIC COOLING OF THE TORCH**

Makes for fast clean-up after the repair

#### **OPTIONAL**

#### WEL19001

Ph torch consumables box



#### WEL14026 Helmet



INDUCTION HEATERS

#### **FAST - SAFE - PRECISE!**

The Blackhawk high performance induction heaters safely meet all your heating needs. Since there is no open flame work can be carried out with no risk of damage to surrounding parts and cables. As opposed to heating with an open flame, the induction process enables the metal to be heated with precision, directly in the heart of the metal, at a localized spot up to 5mm in depth.

Ideal for straightening, bending and loosening of seized-up pieces, these induction heaters produce heat only at the point of contact bringing the metal almost instantaneously to a uniform temperature of 500 to 600°C for safer, more accurate heating.









#### **TECHNICAL SPECIFICATIONS**

IHR04	
Power supply	230 V - 50 Hz
Max. Power	4 kW
Water cooling	5I
Cable network	9 m
Inductor cable	3 m
Dimensions	420x420x740 mm
Weight	65,05 kg

IHR11	
Power supply	400 V - 50 Hz
Max. Power	11 kW
Water cooling	201
Cable network	9 m
Inductor cable	3 m
Dimensions	500x600x1100 mm
Weight	120 kg

IHR15	
Power supply	400 V - 50 Hz
Max. Power	15 kW
Water cooling	201
Cable network	9 m
Inductor cable	3 m
Dimensions	500x600x1100 mm
Weight	140 kg



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