

TIP DRESSER

- Electric
- Pneumatic
- Manual

CUTTER

Ultimate COMBI

Ultimate CHANGER

SWING ARM

DRESSER

Mechanical COMBI

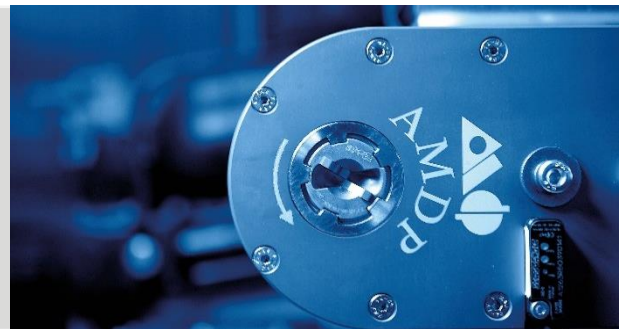
Mechanical

CHANGER



TIP DRESSER

Electric tip dresser for robot welding



ULTIMATE PRODUCTIVITY



TIP DRESSER

A large industrial machine, the Tip Dresser, is shown in the background. It is a tall, white, vertical machine with a red top panel. The machine has a complex assembly of mechanical parts, including a motor, gears, and a grinding wheel. The AMDP logo is visible on the side of the machine.

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PRESENTATION

AMDP IN THE AUTOMOBIL INDUSTRY

AMDP is committed in offering to the automotive industry the most complete range of products dedicated to tip dressing and changing. AMDP constantly improves the performance and the value of its products to meet the needs of the automotive industry. With 30 years of experience, AMDP brings now to the market the new Tip dresser, the reference in productivity for tip dressing and tip changing.

OVERVIEW

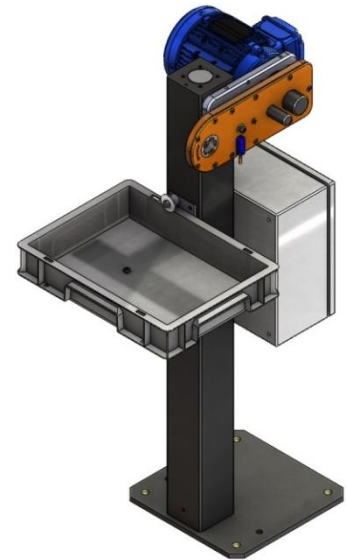
These dressers are mounted on a stand of fixed or adjustable height. They are made up of:

- 1 electric motor which drives the cutter in rotation
- 1 dressing head which bears and drives the cutter
- 1 electric control unit
- 1 cutter rotation controller
- 1 swarf basin of adjustable height

These dressers are designed to be used and to dialogue with a robot controller unit. These is however an autonomous version for the manual guns.

ADVANTAGES

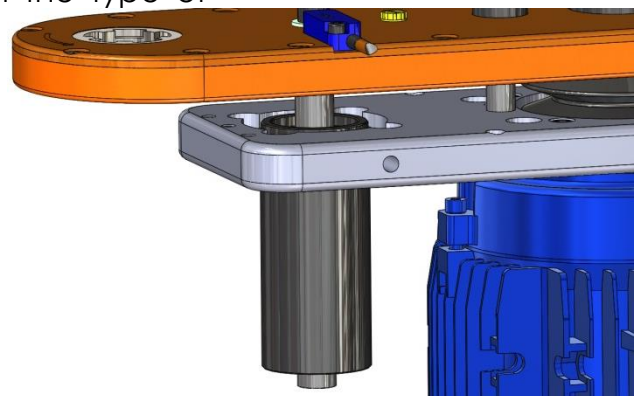
- New dressing head – high speed
- Fast mounting and dismounting of the cutter on the dresser
- Easy to integrate
- Adjustable head every 90°
- Very compact dressing head, which makes it possible to dress all types of guns
- Adaptable and flexible product for each application
- Recommended pressure of the gun on the cutter: Cutter AMDP patent between 80 and 150 daN depending on the type of gun and electrodes



Tip dresser vertical position



Cutter AMDP patent



AMDP Guide / Compliance



ADVANTAGES

PRODUCTIVITY AND CONTROL

Fast dressing of the electrodes: improve the vehicle production / hours.

Control:

- Rotation controller on the dressing head
- Shine control (optional)



OPTIMIZATION & SECURITY

Compact dimension of the tip dresser in the cell.

Avoids operators from getting in the cell for a manual dressing.

DRESSING HEAD PERFORMANCE

With or without compliance.

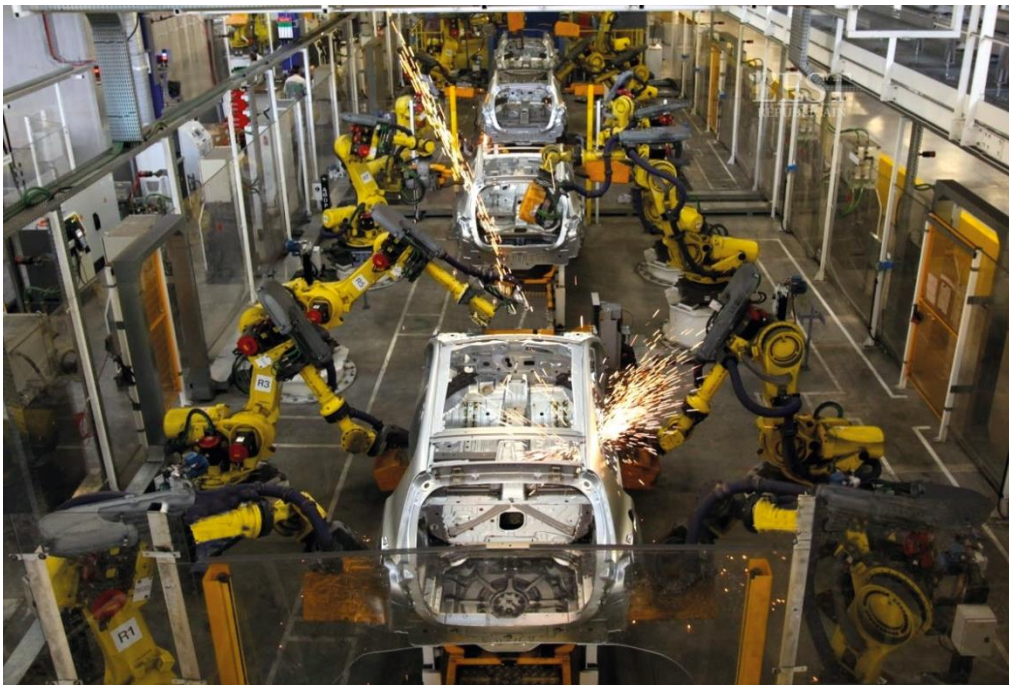
Rotation speed: 640 tr/min

Channel ships collector included.

Air-less

PROGRAMMING

Simple extraction path: similar to welding point (without current flow)





MODEL NUMBER INDEX



7820-47FSCG* _{_ _ _}

(without rotation detector or controller)

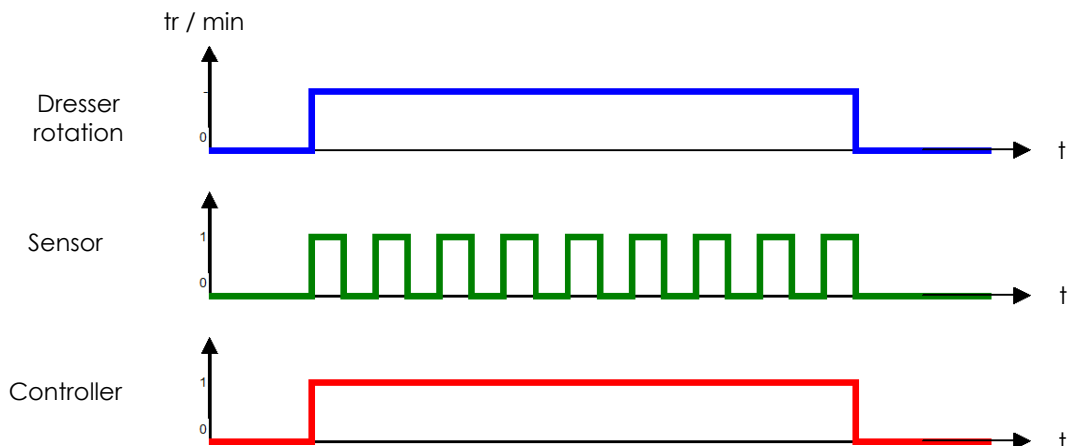
7820-47FSCG* _{_ _ _}

(with rotation detector – green signal)

7820-47FSCG* _{_ _ _}

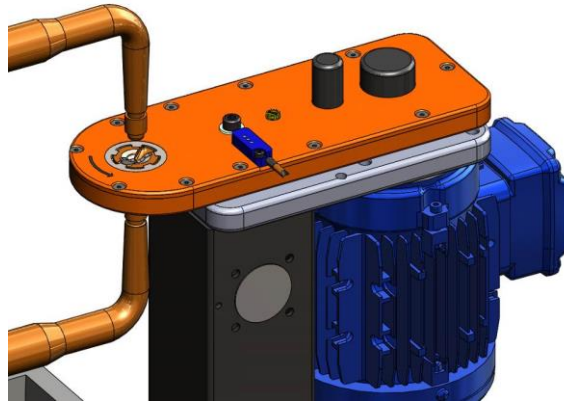
(with rotation controller – red signal)

* Model number defined at the order





FEATURES



DRESSING PARAMETERS

Recommandati

Maximum

Force (daN)	80 to 120	150
Time (ms)	300 to 800	

POWER CONNECTION & CONTROL ELECTRIC BOX

Might	+ 400V AC
Driving	+24V DC



Cutters definition



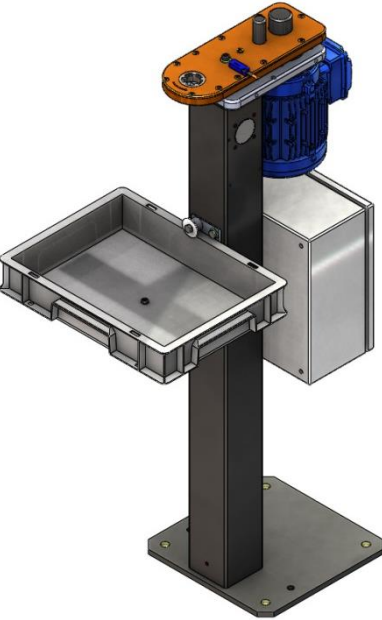
Important: to define the cutter to use, it's necessary to provide the thumbnail clip, references and electrodes sheme. AMDP can define and realize a lot of cutter, symmetric or asymmetric according to the electrodes profil.



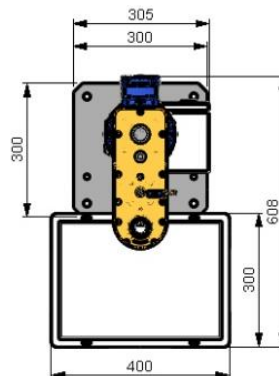
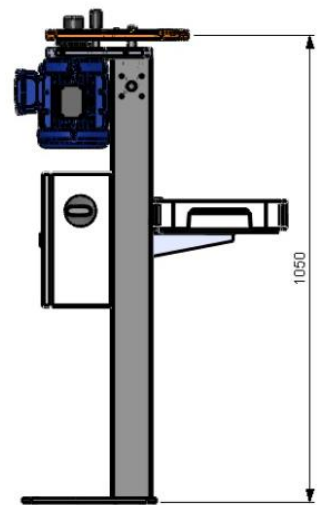
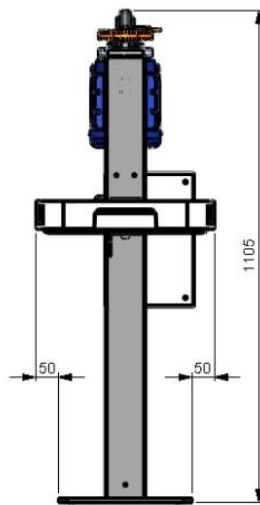
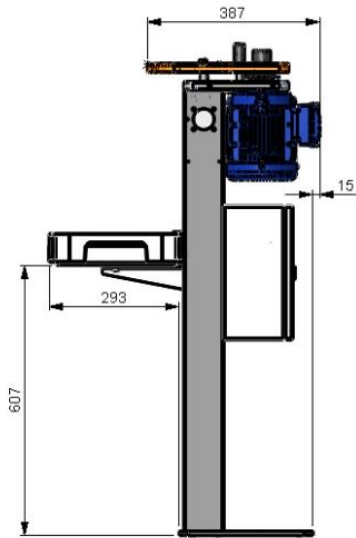
DIMENSIONS

HORIZONTAL POSITION

VERTICAL POSITION



400 mm	Length	420 mm
610 mm	Wight	610 mm
1105 mm	Height	1020 mm
39 Kg	Weight	39 Kg

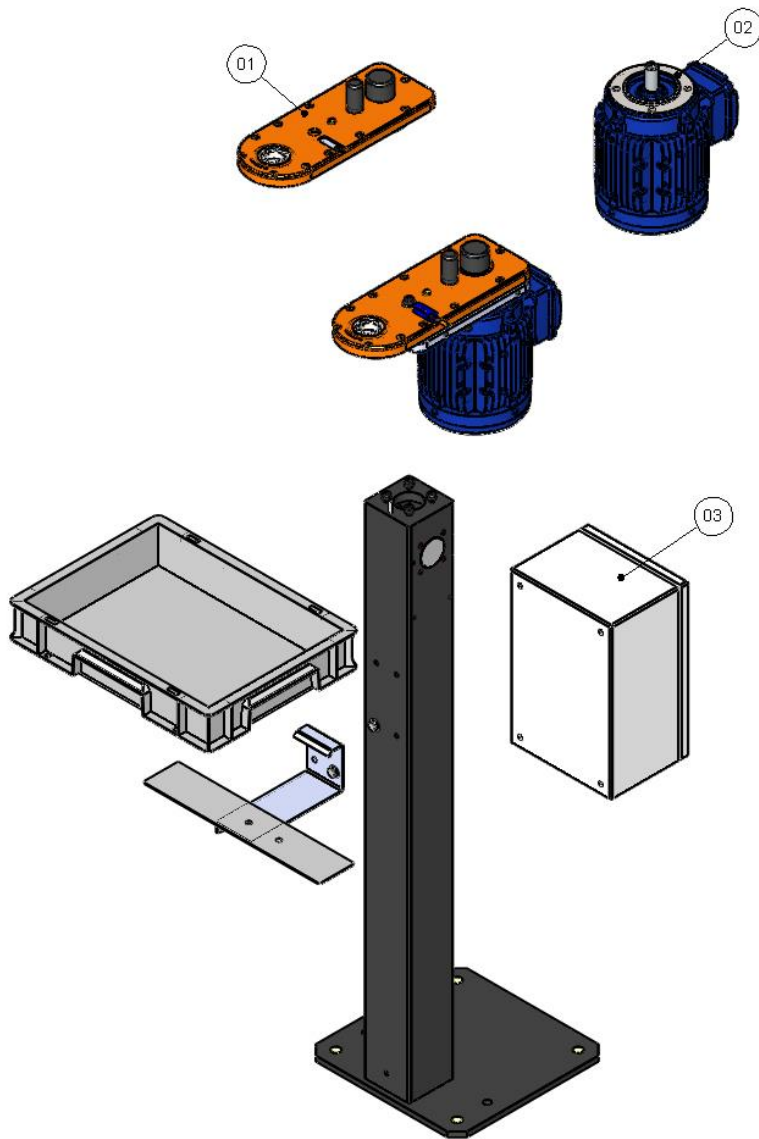


Horizontal position

**dimensions with a standard box*



TIP DRESSER SPARE PARTS



1	TET-2047-A1-N	Dressing head 2047
2	AM4-0.752B14.G713	Dresser motor
3	RP-ELE-STX-COF	Ultimate electric box



INSTRUCTION MANUAL

N° AMDP TIP DRESSER

Contact us or our local partner to receive the instruction manual



AMDP.

Réalisation de la trajectoire de rodage

L'apprentissage de la trajectoire doit se faire électrodes neuves. Nous conseillons d'utiliser un centreur afin de réaliser cette étape.



AMDP.

Conditions d'utilisation

La rodeuse doit être incorporée dans un îlot robotisé protégé et entièrement clos. Pour toute autre application, merci de nous consulter pour que nous étudions votre projet.
La machine doit être reliée à un réseau électrique triphasé 400VAC* (*suivant le réseau client) + Terre pour la partie puissance et la partie commande doit être alimentée par du 24 VDC (venant de la baie robot). Le montage sur un réseau non conforme au système décrit précédemment peut provoquer des dommages importants à la machine ainsi qu'à une éventuelle personne se situant dans l'aire de fonctionnement de la rodeuse.
La rodeuse est livrée avec un coffret électrique comprenant un contacteur et un disjoncteur, montée sur un pied support et équipée d'un bac à copeaux.
L'intégrateur a la charge de réaliser :

- La fixation au sol de la rodeuse
- Le réglage en hauteur du pied de fixation de la rodeuse si nécessaire (pied réglable en option).
- Le câblage entre le coffret et la baie robot.
- La vérification du sens de rotation de la fraise.
- La trajectoire de rodage et de contrôle d'usure.

⚠ Attention : Avant toute intervention sur la rodeuse il est impératif de couper toute énergie pouvant entraîner la mise en marche de la machine.

Précautions d'emploi et conditions de garantie :

Ne pas utiliser de solvants ou de produits chimiques ou corrosifs pour nettoyer la fraise et la tête de rodage.

Ne pas exercer un effort de plus de 250 daN sur la fraise de rodage.

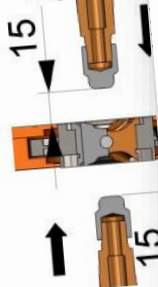
Ne pas modifier le câblage du coffret électrique de la rodeuse.

N'utiliser que des pièces détachées d'origine AMDP.

Pour les pièces du commerce (moteur, roulements, ...) se référer à la garantie du constructeur.

GARANTIE : 18 mois à la date de livraison (Pièces)

Fig. 1 - Trajectoire de rodage
Point d'approche
n-1 point de rodage



Notice rodeuse électrique 7820-47FS

Notice rodeuse électrique 7820-47FSCGxxx

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OTHER PRODUCTS AMDP

CUTTER



The best in class cutters: no jamming, no blowing needed even if MASTIC.
 The best cut in dimensions with no center pin. Any profile available for any tip dresser on the market.
 Dressing optimization for an optimal electrode lifetime.
 Can be with HSS or CARBURE.

ULTIMATE COMBI

Compact set and easy to integrate. It takes the same benefits and characteristics of the ultimate combi AMDP changer.
 Fast electrode change cycle.
 Simple path as well for the extraction and electrodes change..



SWING ARM



Most reliable, easy and fast swing movement due to the unique position of the motor of the dresser. Conceived in a robust way that eliminates vibration and dresser position losses.
 Many simple adjustment possibilities. Contact us to define your E-box.
 When swing arms think embarked changer!

ULTIMATE CHANGER

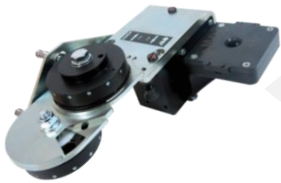
With or without its robust stand, Compact and easy to build in your lines. Can be post-assembled on your AMDP tip-dresser. Increase your productivity with a complete change cycle down to 15 seconds. Easy installation and monitoring.
 Contact us for your E-box. Upgrade your BIW cells!



Without stand

With stand

ULTIMATE MOBIL CHANGER



Simple to integrate in the middle of your gripper, with its air motorization weight is under 10Kg. Same patented technology as the Ultimate Combi changer. Boost the productivity of your fix-gun BIW cells with a complete change cycle down to 15 seconds. Easy installation and monitoring, no E-box. Upgrade your BIW cells!

CHARGING UNIT

Have extra Charging Units to prepare them off line to ensure even more productivity.



MECHANICAL COMBI



Built on an AMDP tip-dresser, proven technology with more than 10.000 units installed world-wide. Easy to integrate, the complete change cycle is operated by the robot itself through its path with a change cycle time of 30 seconds. Upgrade your AMDP Tip dresser!

MECHANICAL MOBIL CHANGER

To be integrated in your gripper, no energy to be provided, 3 sensors to monitor. Robust and proven technology as for the Combi with a change cycle time of 30 seconds. Upgrade your BIW cells!





OTHER PRODUCTS AMDP



DRESSING BENCH

Dress off-line up to 8,000 electrodes a day. Different cycles, manual or automatic. A must have beside your hand held welding guns.

WATER PULL-UP CYLINDER

Destress your water cooling circuit before changing electrodes. Improve cell security and reduce risks and corrosion issues. Ask for our air cylinder or our patented energy free solution.

Compact and easy set to integrate.



AIR POWER HANDHELD DEVICE (dressing gun closed)

The most powerful device on the market, dressing both electrodes while closing the gun on the cutter. Compact, robust with its full aluminium body, it uses the same cutters as all the rest of the range. Check the ability of your handheld welding gun to close without starting a welding sequence.

AIR POWER HANDHELD DEVICE (dressing gun open)

Designed to dress electrodes one after another, low weight and delivered with a unique AMDP guiding unit to ensure parallel welding lenses on both electrodes.



W-GUN ALIGNMENT KIT

Control the good alignment of the gun before/after electrode changing or dressing. Boost your BIW cell controls with simple solutions.

BLOWING KIT

In some extreme cases cutter blowing is desired. Though remember AMDP cutters, thanks to its conception, does not require any blowing (chips are automatically ejected by the rotation during dressing).



For more information, please contact us or our local partner



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AMDP GLOBAL NETWORK

AMDP IN THE AUTOMOTIVE INDUSTRY

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OUR VALUES

RELIABILITY

Best in class product
Durability
Performance

PRODUCTIVITY

Increase productivity
Production cost reduction
Online availability

SERVICE

Customized solutions
Global service network
Training center

//Authorized Distributor



AMDP

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