NITROGAS

Punching Unit

NITROGAS Punching Units are manufactured to the higest quality. All components are made with hardened steel, resulting in a tough, strong product ready for a long working life in the most exigent working conditions.

Their design allows to be used in any position, making them easy to fit to the work tool. Punching Units are suitable for all types of operations (cutting, punching, bending, etc.), due to the guiding all around the diameter.

The Punching units are equipped with easily adjustable anti-rotation systems, which are needed when using shaped punches (except CPUN-00750-10 model, due to its small size).

The cam units are fitted with gas springs to provide the return force (except the CPUN-00750-10 model, which is fitted with a coil spring) and ensure the return of the rod.
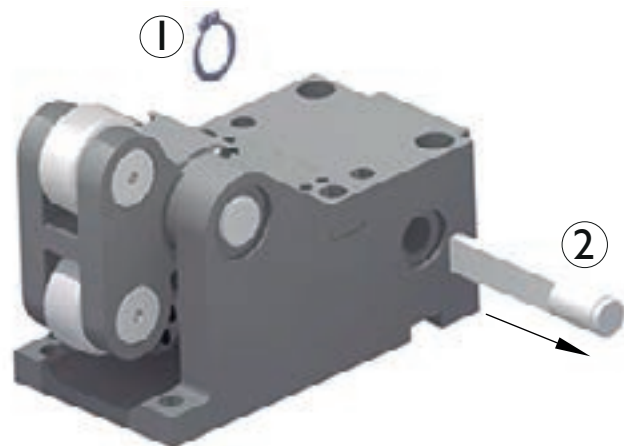
As the movement of the press is transformed by a cam assy, the punching units are applicable for short strokes (<50 mm) and small loads.

Nominal forces of 750 daN, 1500 daN, 5000 daN, 7000 daN, and 10000 daN are available. Choose the solution that best suits to your application.

Punch adjustment

STEP 1

To adjust and line up the punch, remove the bolt circlip (1) and extract the gas spring bolt (2).
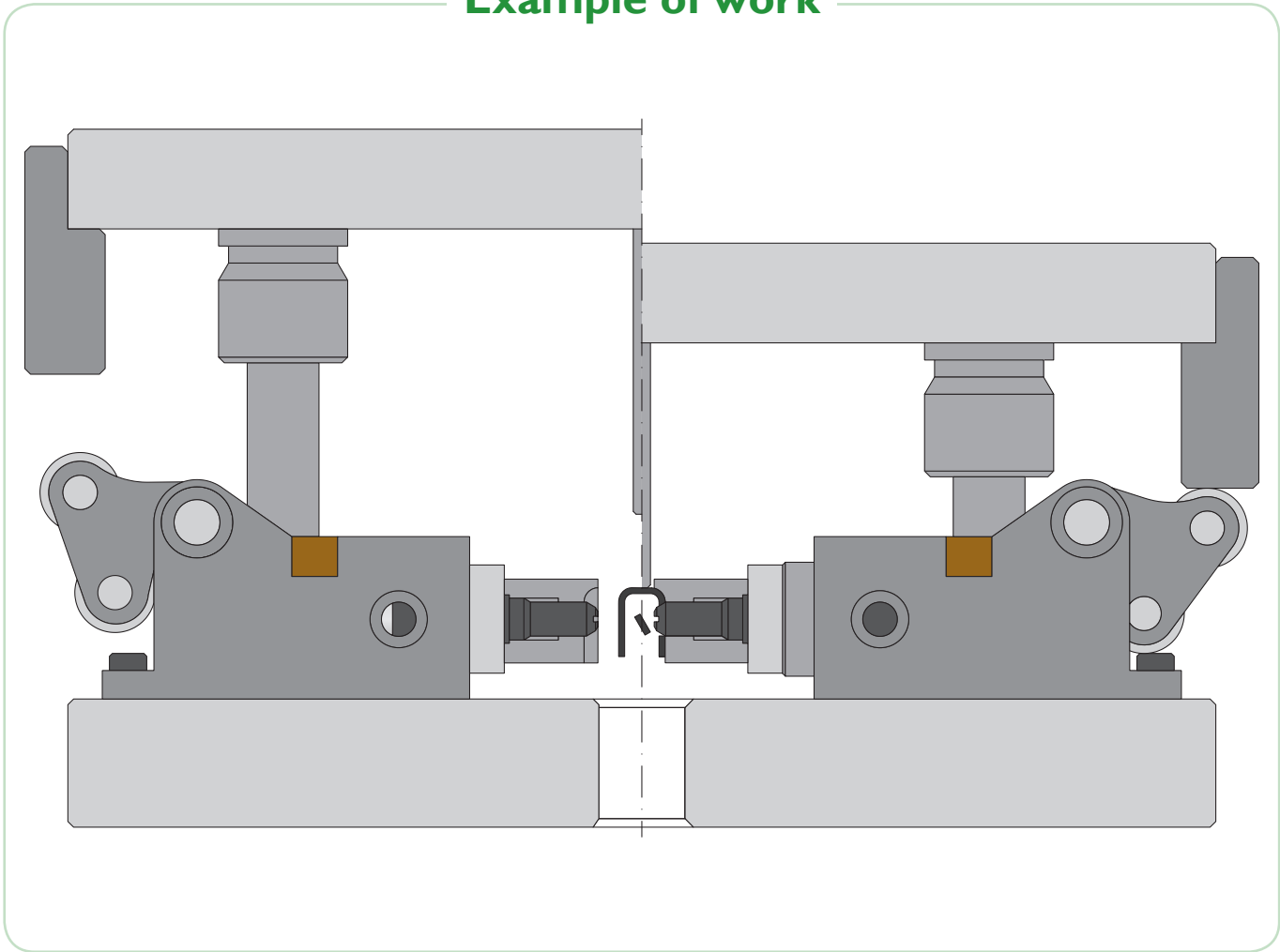
STEP 2

Once the rod is out it is possible to move easily the rod pulling down the cam assy.

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Example of work

ℹ️ Spare parts available for all the Punching Units.
The center of the load must be located as much centered as possible.

⚠️ **Maximum press speed**.. 1.6 m/s
Maximum cadence (at 20°C) .... 40 strokes/min

NITROGAS offers engineering support referring to cam applications for die designers and builders.
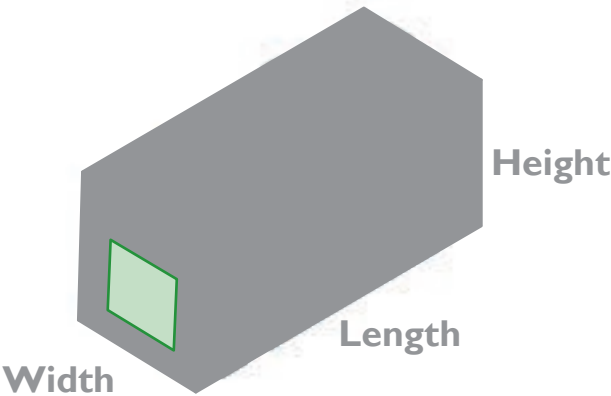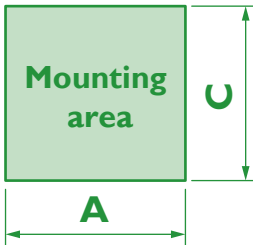
CAD files of Punching Units can be downloaded for FREE from our website:

www.nitrogas.com

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Punching units overview

Mounting area

U

A

Height

Length

Width

Model	Working Force daN	S mm	θ °	Mounting area		Spring Force daN	Overall Dimensions			
				A mm	C mm		Width mm	Height mm	Length mm	Weight kg
CPUN 00750	00750	10		44.5	44.5	40	44.5	50	100	0.9
01500	01500	12	0			160	65	76	119	2.6
03500	03500	20		45	45	310	75	84	167	4.1
05000	05000	25				270	80	116	178.5	6.1
			45					98	213.5	6.3
07000	07000	38	0	56	56	550	85	134	225	9.2
			45					122	270.5	9.4
10000	10000	50	0	63	63		96	149.5	255.5	13.8
			45					131	253.5	14.0
CPUS 01500	01500	15	0			280	65	76	132.5	2.8
			45					65	152.5	2.8
03000	03000	20	0	45	45	270	75	98	170	4.7
			45					75	205	4.9
05000	05000	30	0			550	90	121	201	7.9
			45					90	242	8.3
07000	07000	40	0	56	56	540	105	144	241	12.9
			45					105	283	13.4
10000	10000	50	0	63	63		120	167	282	21.2
			45					120	324	21.7

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Polígono Industrial O Rebullón s/n. 36416 - Mos - España - rodavigo@rodavigo.com