## 20-1 2-arm universal puller



APPLICATION IMAGE


DETAIL IMAGE


## DESCRIPTION

The 2-arm universal puller is used to remove bearings, gears and discs in all standard sizes for trades, workshops and industry. It can be used to remove any component that sits on a shaft and is freely accessible from the outside. Equipped with robust and adjustable standard hooks, the puller all-rounder ensures particularly safe, non-destructive removal both on external removal and internal extraction.

## RANGE OF APPLICATION

For pulling off bearings, gear wheels and discs

## BENEFIT

- Screw connection enables easy loosening and particularly tight fastening of the pulling hooks with a hexagon wrench
- Easy application also with eccentric components due to freemoving pulling hooks sliding off the crossbar
- Hexagon drive on the crossbeam, for safe counter holding
- Variable adjustment to any span between $0 \mathrm{~mm}-90 \mathrm{~mm}$
- Shear-resistant suspension of the claw in the slide piece (Armlock Technology)
- Secure positioning of the spindle thanks to the rotatable spindle tip, both on smooth surfaces and when centring (Switch Technology)
- Optionally convertible from an external extractor to an internal extractor by reversing the pulling hooks
- Anti-slip guard on the spindle head for safe working with wrench
- Spindle riser protects the threading
- Optional extensions (additional hooks, hook extensions, etc.) enable a wide range of pulling solutions for:


## OPERATION

- Attach the Pulling hook to the part to be extracted from the outside
- Slide the claws under the component
- Use a spanner to fasten the hooks
- Pull the spindle manually under pressure to fix it
- Use a ratchet or combination spanner to move the hexagon on the spindle head until the component is released

MASTER DATA

| GTIN | 4021176009433 |
| :--- | :--- |
| Country of origin | DE |
| Material | Tool steel |
| Series | $20-\mathrm{Classic}$ |
| Net weight [kg] | $1,305 \mathrm{~kg}$ |
| Package contents | 1 piece |
| Packaging Act | PAP 21 |

## SPARE PARTS

- 1-90-P_Standard Pulling hooks
- 20-1-T Traverse for 20-1
- 614160_Mechanical pressure spindle
- 612140_Two-sided spindle tip


## 2-arm universal puller



| AbbreviationAttribut | Wert |  |
| :--- | :--- | :--- |
| X | Total width [mm] | 136 mm |
| Y | Total depth [mm] | 37 mm |
| $Z$ | Total height [mm] | 183 mm |
| A | Clamping depth outside pull-off [mm] | 100 mm |
| S1 | Width across flats [mm] | 17 mm |
| S2 | Width across flats [mm] | 27 mm |
| Cmin | Span outside pull-off (min.) [mm] | 0 mm |
| Cmax | Span outside pull-off (max.) [mm] | 90 mm |
| K | Hook root thickness at the tip (claw thickness K) [mm] | 3 mm |
|  | Hook base width (claw width J) [mm] | $20,5 \mathrm{~mm}$ |
| O | Hook base depth usable (claw depth usable O) [mm] | $15,5 \mathrm{~mm}$ |
| H | Total hook root depth (total claw depth H) [mm] | 31 mm |
| L | Total claw thickness (L+1mm) (claw distance to base | 10 mm |
| surface) [mm] | 100 mm |  |
| Emin | Span inside pull-out (min.) [mm] | 120 mm |
| Tmax | Span inside pull-out (max.) [mm] | 80 Nm |
| Fmax | Max. torque [Nm] | 4.5 t |
| Fmax | Max. tractive force [t] | 45 kN |



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