20-1-S 2-jaw universal puller with narrow jaws, up to 90 mm spread, 100 mm reach



APPLICATION IMAGE



DESCRIPTION

Based on the inventiveness and pioneering spirit of Alfred Kleinbongartz, the universal pullers with sliding, always parallel jaws in the 20-S series receive a functional upgrade. The focus is on ease of use and user-friendliness. Specifically, the following optimizations have been made: To increase load capacity, the pullers have been fitted with reinforced shoulders, creating a stable H-profile. This is thanks to the newly conceived, innovative construction of the crossbar, which ensures maximum stability even under high tension force. Above the crossbar there is an adjustment scale as a guide, enabling uniform adjustment of the jaws and ensuring centered and force-optimized pulling even at the highest pulling forces. Thanks to the quick-clamping jaws, settings and readjustments can be carried out quickly and easily. Below the crossbar, in addition to the crossbar item number for reorders, there is another six-digit number. The first three digits indicate which spindle is compatible with the crossbar. The last three digits (xxx) indicate the variable spindle length. Another advantage is the two eyelets on the side of the crossbar for attaching fall protection (series 660), which additionally secures the puller and also ensures secure fixing during work or storage. The 2-jaw universal pullers with adjustable and narrow standard jaws are used for the safe pulling of bearings, gears and discs in all common sizes for trades, workshops and industry. This makes it possible to loosen any component that sits on a shaft and is freely accessible from the outside. By simply reversing the jaws, the pullers can also be used as internal extractors.

APPLICATION AREA

For safe removal of bearings, gears, and discs in all common sizes for craft, workshop, and industry.

BENEFIT

- Narrow jaws grip optimally in tight and hard-to-reach places.
- The screw connection allows for easy loosening and particularly tight fastening of the jaws with an allen key.
- Application also for eccentric components via freely movable pulling jaws gliding on the crossbar.
- Hexagonal profile on the crossbar for secure counterholding
- Variable adjustment for any span between 20 mm – 90 mm
- Anti-slip safety (spindle neck) suspension of the claw in the sliding piece (Armlock Technology)
- Secure mounting of the spindle through the rotating spindle tip both on smooth surfaces and during centering (Switch Technology)
- Optional convertible from an external puller to an internal puller by reversing the jaws.
- Anti-slip safety (spindle neck) at spindle head for safe work with wrench.
- Spindle outlet to protect the thread
- Pullers are labeled with technical attributes and manufacturer information (label)
- Jaws, spindle, and crossbar have a spare part number for easy reordering.

OPERATION

- Position the puller jaws from the outside onto the part to be removed
- Push the claws under the component
- Use a wrench to secure the jaws
- Manually apply pressure to the spindle for fixation
- Set the hexagon on the spindle head in motion with a ratchet or open-end wrench until the component is released

MASTER DATA

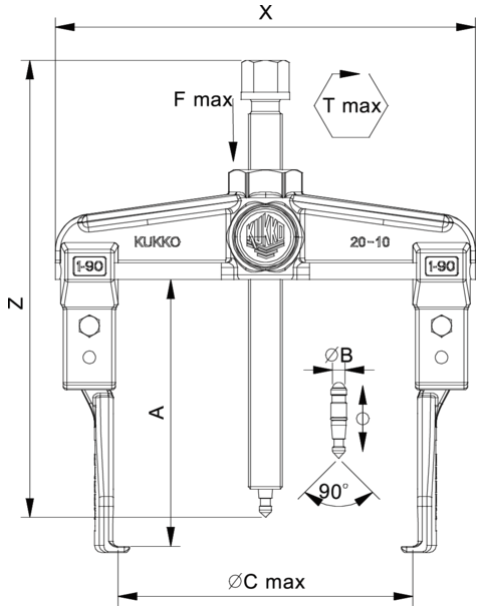
GTIN [GTIN]	4021176757396
Country of origin	DE
Material	Tool steel
Series	20-S
Gross weight [kg]	1,245 kg
Package contents	1 piece
Packaging Act	PAPPE PAP 21
Worldwide sales capability	Yes (REACH, RoHS, POP, PROP65, TSCA)

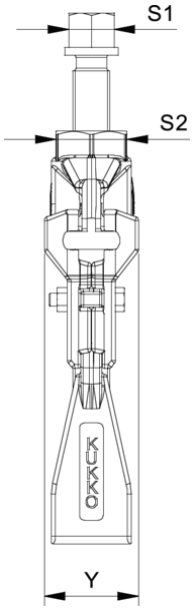
SPARE PARTS

- 1-91-P_schmale jaws

- 20-1-T_Crossbar for 20-1
- 614160_Mechanical pressure spindle

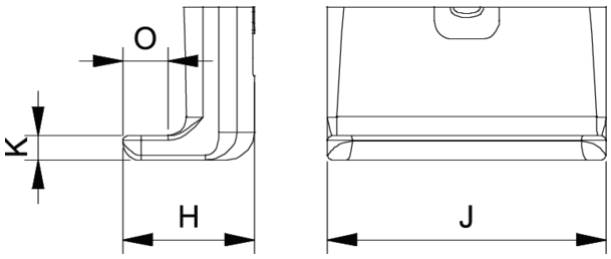
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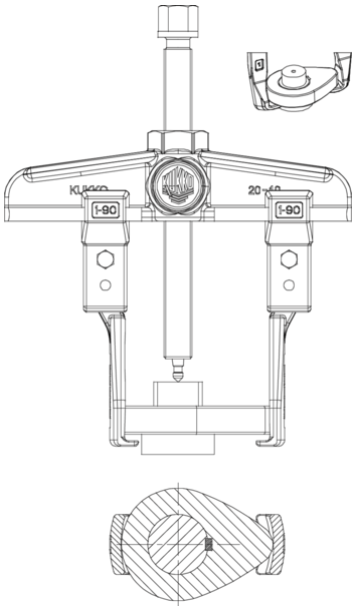
Abbreviation	Attribut	Wert
X	Total width [mm]	136 mm
Y	Total depth [mm]	37 mm
Z	Total height [mm]	182 mm
A	Clamping depth of external puller [mm]	100 mm
S1	Width across flats [mm]	17 mm
S2	Width across flats [mm]	27 mm
Cmin	Span outside pull-off (min.) [mm]	20 mm
Cmax	Span outside pull-off (max.) [mm]	90 mm
K	Hook root thickness at the tip (claw thickness K) [mm]	3 mm
J	Hook base width (claw width J) [mm]	30 mm
O	Hook base depth usable (claw depth usable O) [mm]	9,5 mm
H	Total hook root depth (total claw depth H) [mm]	13 mm
L	Total claw thickness (L+1mm) [mm]: (claw distance to base surface)	2,6 mm
Emin	Span inside pull-out (min.) [mm]	70 mm
Emax	Span inside pull-out (max.) [mm]	140 mm
Tmax	Max. torque [Nm]	35 Nm
Fmax	Max. tractive force [t]	2.5 t
Fmax	Max. tensile force [kN]	25 kN

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