



PULLER SELECTION GUIDE



628

Puller selection guide..... **628**

SAFETY INSTRUCTIONS



630

Safety instructions..... **630**

MECHANICAL 3-LEG PULLERS



631

Reversible universal 3-leg pullers **631**
 Slim 3-leg pullers **634**
 Heavy duty 3-leg pullers **635**

HYDRAULIC 3-LEG PULLERS



638

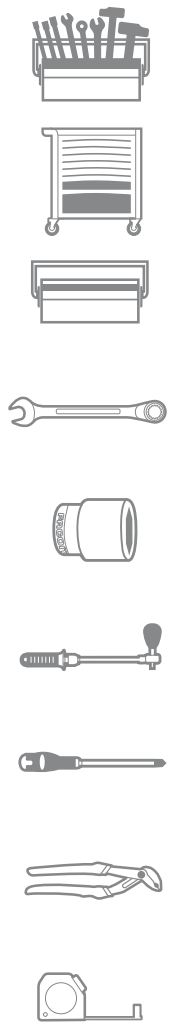
Hydraulic pullers..... **638**
 Hydraulic jacks and pumps..... **641**

MECHANICAL 2-LEG PULLERS



643

Reversible universal 2-leg pullers **643**
 Slim leg pullers..... **645**
 Wide 2-leg pullers **646**
 Caliper 2-leg pullers **648**



SPECIAL GRIP BEARING PULLERS

649



- Tip type pullers, cage grip 649
- Tip type puller, inside grip 650
- Clamp type puller, inside grip 652

SLIDE HAMMERS

654



- Slide hammers 654

SEPARATORS AND BEAM PULLERS

655



- Puller sets 655
- Separators 656
- Beams 656
- Roller cabinet accessories 658

WORKSHOP PULLER KITS

659



- Workshop boards 659
- Case sets 660

STUD EXTRACTORS - NUT BREAKER

661



- Stud extractors 661
- Stud removers 663
- Nut splitters 664

SPARE PARTS

665














- Spare legs 665
- Spare screw 667

SELECTION GUIDE

A CHOICE OF 90 PULLERS FOR ALL TYPES OF COMPONENTS UP TO 800 MM.

The right questions to ask when choosing a puller

- What type of component is to be removed ? = bearing, pulley, studs or nuts.
- What is the diameter of the component to be removed ? = choice of spread.
- How is the component to be gripped ? = choice of type of grip: outside grip, inside grip, special grip.
- How is the component to be pulled ? = choice of bearing point: on the central axis, on the outside of the component, no available bearing point (= need to use puller accessories).

	Spread (mm)	Reach (mm)	Force T (kN)	Force kN	Characteristics	Page
■ Bearings ■ Pulleys ■ Studs ■ Outside grip ■ Inside grip						
⇒ Outside grip - adjustable 2 or 3 leg pullers						
U.306A140	7 140	147	3	30	 System U.306 - 2 or 3 legs - Inside or outside grip - Self gripping - self centring	632
U.306-180	10 180	200	4	40		632
U.306-260	20 260	250	4	40		632
U.310-170	15 170	170	10	100		633
U.310-250	15 250	250	10	100		633
⇒ Outside grip - 3 leg pullers						
U.302	17 80	90	1,5	15	 Compact series slim legs	634
U.302-150	25 150	150	1,5	15		634
U.302-200	25 200	200	2,4	24	 Force	634
U.20	25 170	160	7	70		635
U.20B	25 260	220	7	70	 Heavy duty	635
U.27AS3	30 800	720	6	60		636
U.320	100 360	400	20	200	 Heavy duty hydraulic	637
U.330	100 530	550	30	300		637
U.312H	45 270	260	10	100	639	
U.320H	100 360	265	20	200	640	
U.330H	100 530	395	30	300	640	
⇒ Inside or outside grip - 2 leg pullers						
U.32T2-8	20 80 90 140	105	2	20	 Lockable reversible 2-leg puller	643
U.32T2-12	20 120 90 180	105	2	20		643
U.32T6-16	20 160 130 250	150	6	60	 Lockable reversible 2-leg puller	643
U.32T6-20	20 200 130 290	150	6	60		643
U.32T15-25	25 250 180 380	170	15	150	 Reversible 2-leg puller	643
U.32T15-35	25 350 180 480	270	15	150		643
U.32T15-50	25 470 180 530	270	15	150	643	
U.232-65	30 60 65 90	65	1,5	15	 Reversible 2-leg puller	645
U.232-90	60 81 86 95	100	3	30		645
U.232-130	60 122 86 136	100	3	30	 Reversible 2-leg puller	645
U.232-160	86 153 127 171	145	4	40		645
U.232-210	86 203 127 222	145	4	40	645	
U.232-270	100 255 148 276	190	5	50	 Reversible 2-leg puller	645
U.232-340	100 325 148 346	190	5	50		645

SELECTION GUIDE

➤	Spread (mm)	Reach (mm)	Force T kN	Characteristics	Page
Outside grip - 2 leg pullers					
U.14A	10 35	40	-		645
U.14L	10 45	60	-		645
U.301	10 80	90	0,9 9		645
U.301-150	15 150	150	0,9 9		645
U.301-200	15 200	200	1,3 13		645
U.301P	15 50	70	0,9 10		647
U.301M	15 100	100	0,9 11		647
U.301L	15 110	130	1,3 17		647
U.35P	10 55	75	1 10		647
U.35	15 75	90	4 40		647
U.35L	15 75	130	3 30	647	
U.34	40 180	245	7 70	647	
U.42	10 85	120	1,5 15	648	
U.42B	10 85	180	1,5 15	648	
U.52	10 150	160	6 60	648	
Pulley pulling					
DM.17A	40 65	30	-		933
DM.50	45 175	15	-		933
Inside grip - adaptable 2 or 3 leg pullers					
U.306A130N	23 130	140	3 30		632
U.306-170N	50 170	190	4 40		632
U.310-230N	50 230	190	4 40		634
Special inside grip					
U.51B	32 70	-	-		650
U.28	70 160	-	-		651
U.49P1 À U.49P9	6 60	-	-		652
U.23D5 À U.23D32	25 190	240	-		650
					650
Stud extractors					
285	3 50	-	-		661
885	6 14	-	-		662
286A	5 20	-	-		663
286A.PL	15 27	-	-		663
287B	6 16	-	-	663	
Separators - Beams - Threaded adaptors					
U.53T	5 250	-	-		656
U.23K	25 95	150	-		657
U.53K	40 400	350	-		657
U.53E	Ø M4-M14	-	-		658

Slide hammers

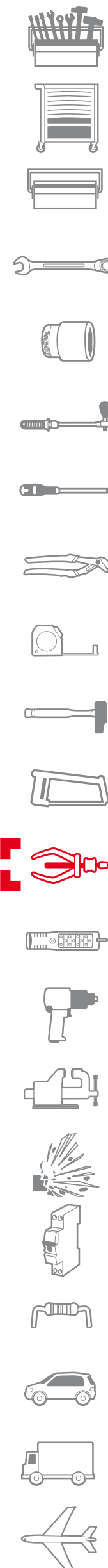
➤	Compatible pullers		Page
U.49L	U.49P1 → U.49P4	M8 0,2	654
U.49AM	U.49P5 → U.49P9	Tr1/2 1,0	654
U.306M	U.49P5 → U.49P9/U.35/U.35L/U.42/U.42L/U.32T2-8/U.32T2-12	M16 1,6	654
U.2	U.20/U.20B/U.310-170/U.310-250/U.310-230N/U.32T6-16/U.32T6-20	M22 5,2	654

INFORMATION

The quoted pulling powers are the actual powers obtained in the laboratory under normal working conditions. All our pullers are designed to provide maximum safety and reliability.

SAFETY

As soon as access allows, use a 3-leg rather than 2-leg configuration. Check that the puller is properly aligned with the axis before applying the pulling force.



FACOM | YOUR PULLER SPECIALIST

DESIGNER AND MANUFACTURER.

A COMPREHENSIVE RANGE



YOUR SAFETY: OUR PRIORITY.

- The design, choice of materials and optimisation of Facom's pullers ensure guaranteed safety and reliability.
- Facom has developed a "force limiting" safety system consisting of a shear pin that fails when the maximum allowable torque is reached (series U.306/310 and U.20).



Pullers: it pays to be ready.

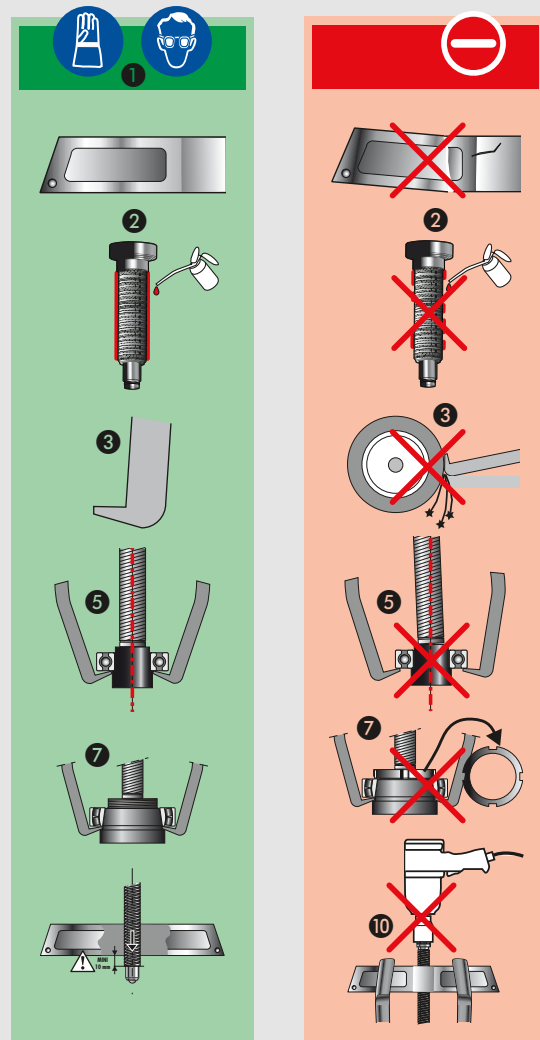
- Saves time: having the right puller readily to hand allows a speedy response in the event of a breakdown, and a quick resumption of production.
- A sound investment: when a machine breaks down, each second of lost production represents a great deal of money. A puller often pays for itself after just one use.

PULLERS: SAFETY FIRST

FACOM'S 10 TIPS

Pulling components can involve very high forces. The operation can therefore be very hazardous, which is why pullers require professional handling.

- 1 Wear eye protection and gloves (see section 15).
- 2 Always ensure that a puller is in good condition and that the screw is evenly lubricated.
- 3 Never modify a puller. Do not grind or weld the legs. Modifications can be very dangerous for the user and invalidates the guarantee.
- 4 Wherever possible, select a 3-leg puller for optimum load distribution.
- 5 Position the legs carefully, making sure that the puller is straight in relation to the line of traction.
- 6 Where possible, use a net (or sheet) to cover both the puller and the part being removed, in case the assembly springs apart suddenly.
- 7 Before applying pressure, check that the component is free to move, i.e. that all brackets, pins and nuts have been removed.
- 8 Never stand behind a puller - stay to one side.
- 9 Ask any bystanders to keep their distance.
- 10 Apply pressure to the puller screw progressively. Do not use impact wrenches.



Universal reversible 3-leg pullers

U.306/310

COVERS 80% OF COMMON APPLICATIONS

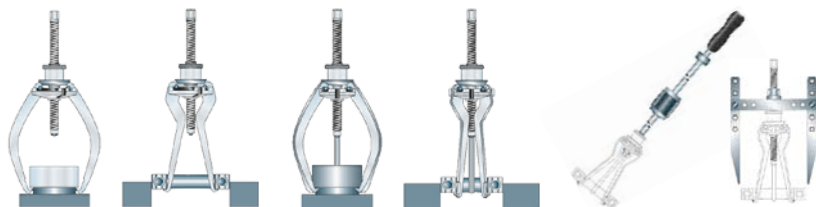
PRACTICAL, EFFICIENT, VERSATILE

**Exclusive Facom body.
Easier, safer.**



Versatile

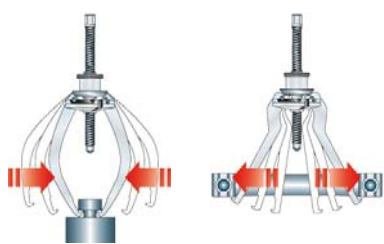
- Based on a single body, the U.306/U.310 system can be configured to perform all routine mechanical engineering pulling operations.
- Puller accessories provide a full range of pulling solutions.



Inside or outside configuration for 2 or 3-leg pullers, with or without accessories.

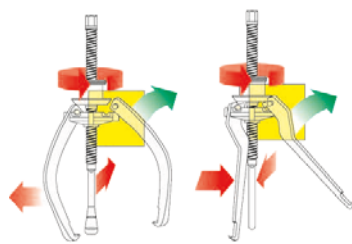
Easy to use

- Self-gripping.
- Self-centering.



EASY LEG CHANGE

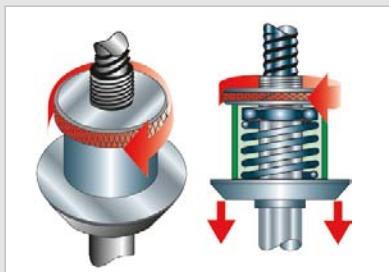
- Compress the spring.
- Remove the leg in place and place the new desired leg.



SAFETY

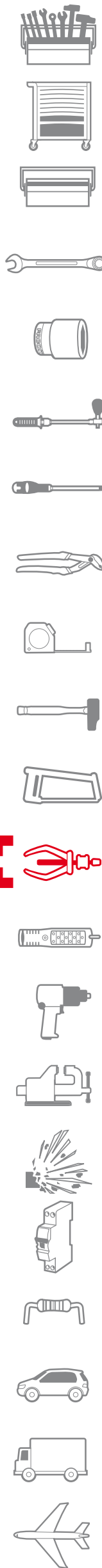
Locknut

- Tightening the locknut securely locks the legs in place.

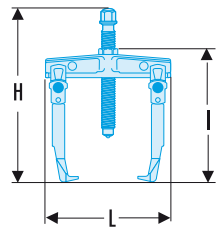
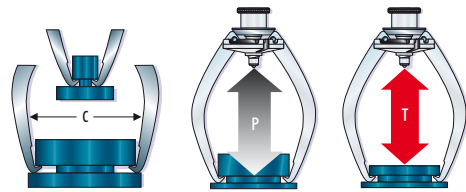


Shear pin

- The pin shears if torque limit is exceeded.



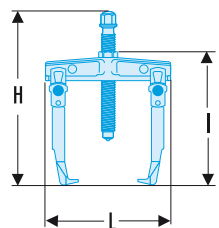
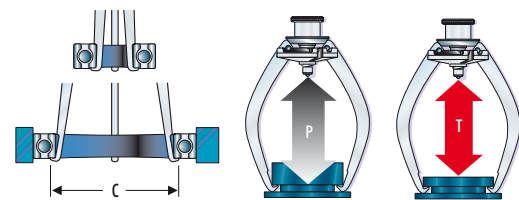
U.306 - Outside pullers



- Versatile: takes 2 or 3 legs. Converts into inside puller with the legs U.306G2 + screw U.306-4 or legs U.306G20 + screw U.306-2.
- Comfort: self-gripping legs by return spring. The puller stays in rolling position even when not in tension.
- Safety: legs locked in position on the bearing using a knob. No risk for the puller to escape from the bearing.
- Shear pin: the pin shears if torque limit is exceeded. Supplied with 2 spare pins.
- Set of 3 spare pins. Refer to spares table according to puller power.
- Adaptable puller accessories: slide hammer U.306M (direct attachment) and beam U.40 (attached using ring and nut U.306A1 to be ordered separately).
- The U.306-260 puller is supplied with the U.306-3 screw fitted with its extension.

	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	Legs	Screw Size	Screw Size[mm]	$\Delta\Delta$ [kg]
U.306A140	7 - 140	147	3	30	130 x 225 x 262	U.306G1	U.306-4	18	1,600
U.306-180	50 - 170	200	4	40	135 x 285 x 320	U.306G10	U.306-2	18	2,200
U.306-260	20 - 260	250	4	40	145 x 350 x 385	U.306G15	U.306-3	18	3,100

U.306N - Inside pullers



- Versatile: takes 2 or 3 legs. Converts into outside puller with the legs U.306G1 + screw U.306-4 or legs U.306G10 + screw U.306-2 or legs U.306G15 + screw U.306-3 (supplied fitted with its extension).
- Comfort: self-gripping legs by return spring. The puller stays in rolling position even when not in tension.
- Safety: legs locked in position on the bearing using a knob. No risk for the puller to escape from the bearing.
- Shear pin: the pin shears if torque limit is exceeded. Supplied with 2 spare pins.
- Set of 3 spare pins. Refer to spares table according to puller power.
- Adaptable puller accessories: slide hammer U.306M (direct attachment) and beam U.40 (attached using ring and nut U.306A1 to be ordered separately).

	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	Legs	Screw Size	Screw Size[mm]	$\Delta\Delta$ [kg]
U.306A130N	23 - 130	140	3	30	130 x 225 x 250	U.306G2	U.306-4	18	1,300
U.306-170N	50 - 170	190	4	40	135 x 285 x 320	U.306G20	U.306-2	18	1,800

U.306J1 Inside/outside puller kit



- Comprising:
 - 1 puller U.306A140.
 - 3 inside legs U.306G2.
 - 2 puller accessories: slide hammer U.306M and beam U.40 (attached using ring and nut U.306A1, supplied with the kit).
- Spread:
 - Outside: Ø 7 to Ø 140 mm.
 - Inside: Ø 23 to Ø 130 mm.
- Reach: 140 mm.
- Supplied in a steel case BT.102 with tray PL.209.
- Weight: 11.300 kg.

MOD.U306 Inside/outside puller kit



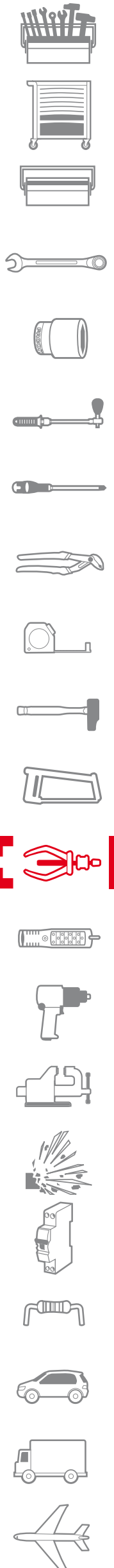
- Comprising:
 - 1 puller U.306A140.
 - 3 inside legs U.306G2.
 - 3 long-reach outside legs U.306G10.
 - Spread: outside Ø 7 to 140 mm or Ø 10 to 180 mm, inside 23 to 130 mm.
 - 1 compact puller U.14L.
 - Spread Ø 10 to 45 mm.
 - Tray PL.354.
- Weight: 4.400 kg.

U.310 - Outside pullers



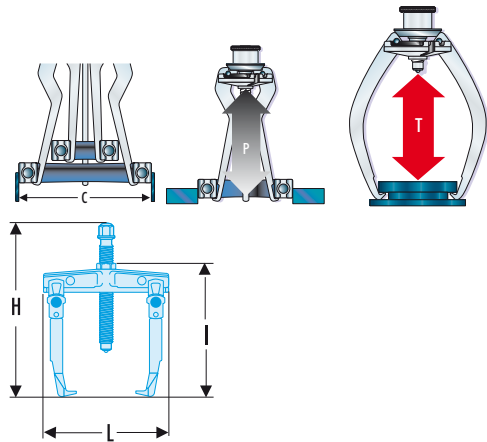
- Versatile: takes 2 or 3 legs. Converts into inside puller with the legs U.306G3 + screw U.20B1.
- Comfort: self-gripping legs by return spring. The puller stays in rolling position even when not in tension.
- Safety: legs locked in position on the bearing using a knob. No risk for the puller to escape from the bearing.
- Adaptable puller accessories: hydraulic screw U.3 and slide hammer U.2.

	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	Legs	Screw Size	Screw Size [mm]	ΔΔ [kg]
U.310-170	15 - 170	170	10	100	143 x 300 x 365	U.310G1	U.20B1	24	4,600
U.310-250	15 - 250	250	10	100	163 x 380 x 420	U.310G2	U.310-250-10	24	5,600



Mechanical 3-leg pullers

Inside puller

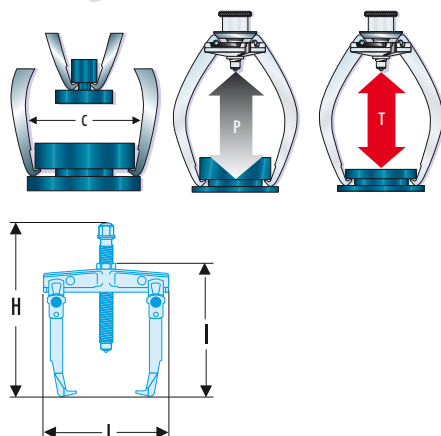


- Versatile: takes 2 or 3 legs. Converts into outside puller with the legs U.306G1 + screw U.20B1 or legs U.310G2 + screw U.310-250-10.
- Comfort: self-gripping legs by return spring. The puller stays in rolling position even when not in tension.
- Safety: legs locked in position on the bearing using a knob. No risk for the puller to escape from the bearing.
- Adaptable puller accessories: hydraulic screw U.3 and slide hammer U.2.

	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	Legs	Screw Size	Screw Size[mm]	$\Delta\Delta$ [kg]
U.310-230N	50 - 230	200	10	100	180 x 360 x 400	U.310G3	U.20B1	24	4,100

Slim-profile 3-leg pullers

U.302 - Self-gripping outside pullers with slim legs

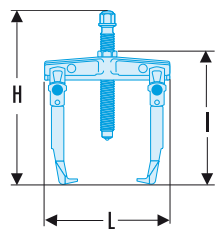
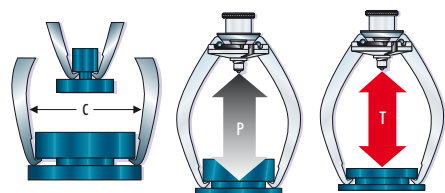


- Comfort: self-gripping legs by return spring. The puller stays in rolling position even when not in tension.
- Adaptable puller accessories: slide hammer U.49AM.
- Per tip U.301E1 (U.302 and U.302-150).
- Per tip U.301E2 (U.302-200).

	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	Legs	Screw Size	Screw Size[mm]	$\Delta\Delta$ [kg]
U.302	17 - 80	90	1,5	15	77 x 130 x 153	U.301G	U.301-04	10	0,600
U.302-150	25 - 150	150	1,5	15	90 x 206 x 222	-	U.301-04-150	10	0,900
U.302-200	25 - 200	200	2,4	24	105 x 270 x 300	-	U.301-04-200	13	1,600

High capacity 3-leg pullers

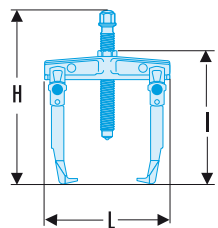
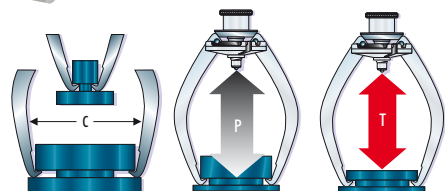
Reversible universal 2-leg pullers



- Safety: legs locked in position on the bearing using the central nut. No risk for the puller to escape from the bearing.
- Shear pin: the pin shears if torque limit is exceeded. Supplied with 2 spare pins.
- Set of 3 spare pins. U.306-24J3.
- Fitted with the anti-rotation bush U.20-12. The button protects the screw when a bar is used to block puller rotation.
- Adaptable puller accessory: slide hammer U.2.

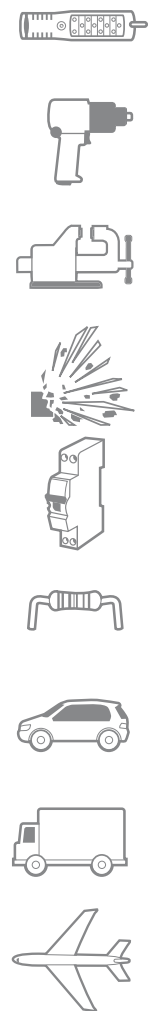
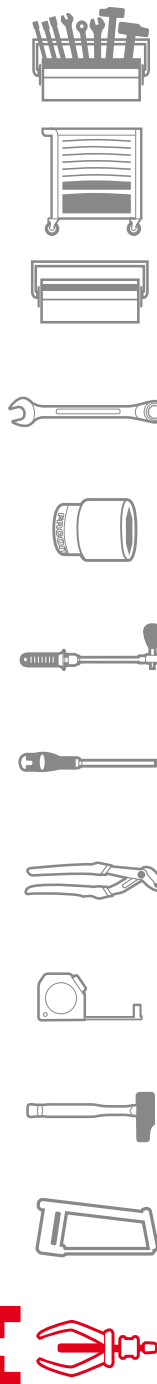
➤	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	Legs	Screw Size	Screw Size[mm]	ΔΔ [kg]
U.20	25 - 170	160	7	70	120 x 265 x 305	U.20SE4	U.20-1S	24	3,500

Long-reach leg outside puller



- Safety: legs locked in position on the bearing using the central nut. No risk for the puller to escape from the bearing.
- Shear pin: the pin shears if torque limit is exceeded. Supplied with 2 spare pins.
- Set of 3 spare pins. U.306-24J3.
- Fitted with the anti-rotation bush U.20-12. The button protects the screw when a bar is used to block puller rotation.
- Adaptable puller accessory: slide hammer U.2.

➤	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	Legs	Screw Size	Screw Size[mm]	ΔΔ [kg]
U.20B	25 - 260	220	7	70	125 x 325 x 370	U.20BSE4	U.20-B1S	24	4,300



U.27AS3

ATTACHMENT OPTIONS

LONG LEGS AND LINKS FOR INCREASED VERSATILITY

U.27AS3

- Fitted with standard legs and links.
- Spread: 30 to 460 mm.
- Max. reach: 360 mm.



3 x U.27D: fitted with long legs

- Spread: 40 to 460 mm.
- Max reach: 480 mm.



3 x U.27B: fitted with long links

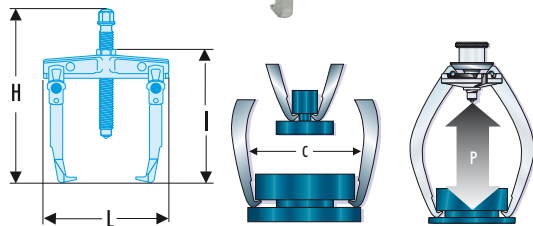
- Spread: 50 to 800 mm.
- Max reach: 600 mm.



3 x U.27D + 3 x U.27B: Fitted with long legs and links.

- Spread: 50 to 800 mm.
- Max reach: 720 mm.

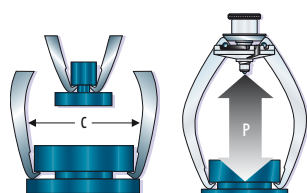
Wide spread grip puller - 2 or 3 leg pullers



- Versatile: takes 2 or 3 legs.
- Can be fitted with long legs U.27D (order by sets of 3) and linkage system U.27B (order by sets of 3).

	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	Legs	Screw Size [mm]	Screw Size [mm]	Spare Links	$\Delta\Delta$ [kg]
U.27AS3	30 - 460	360	6	60	280 x 450 x 555	U.27S	U.27-6	35	U.27BS	16,500

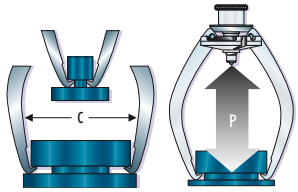
1 long leg for U.27AS3



- Long links designed to increase spread of puller U.27AS3 from 360 to 480 mm (order by set of 3).
- Supplied without shaft.
- Set of pins to order separately: U.27SE2.

	C mini - maxi [mm]	P maxi [mm]	$\Delta\Delta$ [kg]
U.27D	40 - 460	480	1,500

1 long leg for U.27AS3



- Long links designed to increase spread of puller U.27AS3 from 460 to 800 mm (order by set of 3).
- Supplied without shaft.
- Set of pins to order separately: U.27SE2.

	C mini - maxi [mm]	P maxi [mm]	$\Delta\Delta$ [kg]
U.27B	50 - 800	600	3,200

High-capacity 20T outside puller



- Versatile: takes 2 or 3 legs.
- Comfort: self-gripping legs by return spring. The puller stays in rolling position even when not in tension.
- Safety: legs locked in position on the bearing using a knob. No risk for the puller to escape from the bearing.
- The screw is supplied with an extension: U.320-14.
- Adaptable puller accessory: hydraulic jack UWG.320. Using the jack requires the screw UWG.320-H01 and hydraulic pump UWP.10M. Mounting with 3 legs only with the hydraulic jack.

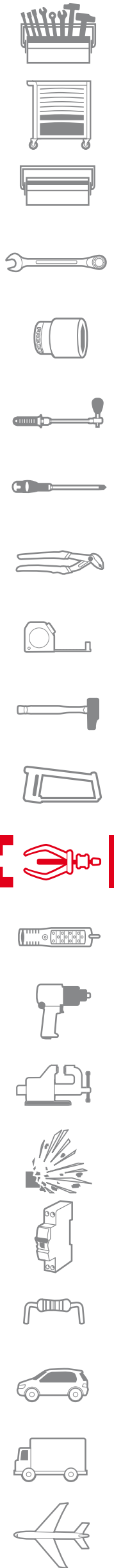
	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	Legs	Screw Size	Screw Size[mm]	$\Delta\Delta$ [kg]
U.320	100 - 360	400	20	200	250 x 700 x 740	U.320-13A	U.320-01	36	27,400

High-capacity 30T outside puller



- Versatile: takes 2 or 3 legs.
- Comfort: self-gripping legs by return spring. The puller stays in rolling position even when not in tension.
- Safety: legs locked in position on the bearing using a knob. No risk for the puller to escape from the bearing.
- The screw is supplied with an extension: U.330-14.
- Adaptable puller accessory: hydraulic jack UWG.330. Using the jack requires the screw UWG.330-H01 and hydraulic pump UWP.10M. Mounting with 3 legs only with the hydraulic jack.

	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	Legs	Screw Size	Screw Size[mm]	$\Delta\Delta$ [kg]
U.330	100 - 530	550	30	300	300 x 900 x 950	U.330-08	U.330-02	41	32,400



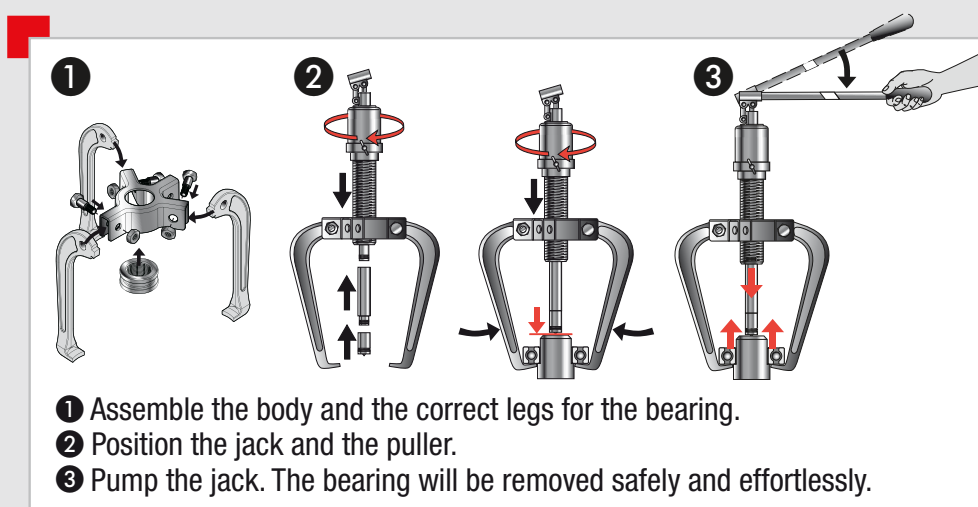
U.312H

MEDIUM-DUTY HYDRAULIC PULLER

10 TONNES OF EFFORTLESS PULLING FORCE READILY TO HAND

Versatile

- Based on a single body that can be fitted with 4 different sizes of legs for bearings \varnothing 45 to 270 mm.
- 2 or 3-leg configurations.
- For light to heavy engineering applications.



Practical

The carry case (field servicing) dismantles for easy storage in the drawers of your FACOM JET XL, JET+ roller cabinets (workshop servicing).



SAFETY FIRST

- A safety valve hydraulically limits the jack to 10 tonnes.
- The other mechanical components can withstand much higher forces.

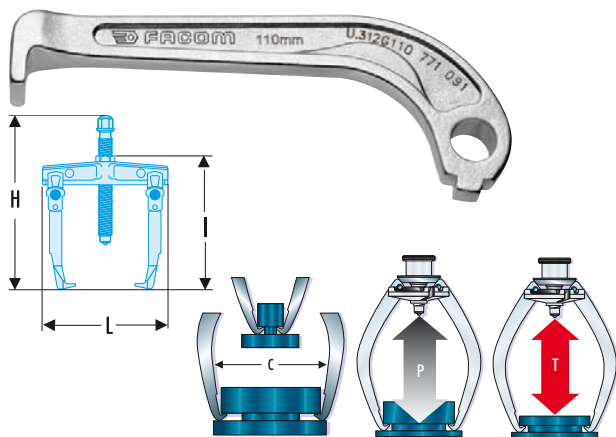


U.312HJ3 Hydraulic puller 10 T for outside puller - 3 sets of legs



- Versatile: takes 2 or 3 legs.
- Safety: power is limited hydraulically to 10 tonnes. No risk of breakage.
- Comprising:
 - A 10-tonne hydraulic jack (100 kN) U.312-01 + and guide tip U.312-02 + set of 2 extensions U.312-03.
 - A body with 2 or 3 legs U.312-04 + centering screw U.312-04-01 + set of 3 screws/nuts U.312-04-02.
 - 3 sets of legs: U.312G160, U.312G210 and U.312G260.
- Supplied in plastic case U.312VAL, dimensions (L. x W. x H.): 565 x 412 x 105 mm. Weight: 13.200 kg.

U.312HJ3 - Mounting with legs



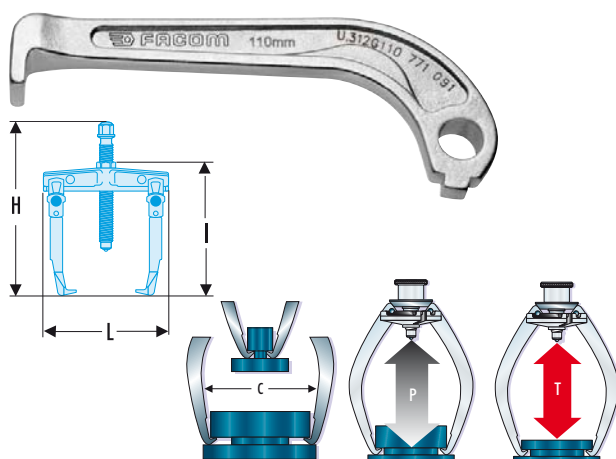
	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	ΔΔ [kg]
U.312G160	80 - 170	160	10	100	218 x 220 X 400	0,600
U.312G210	90 - 210	210	10	100	275 x 270 x 450	0,700
U.312G260	110 - 270	260	10	100	330 x 312 x 492	1,000

U.312HJ4 Hydraulic puller 10 T for outside puller - 4 sets of legs

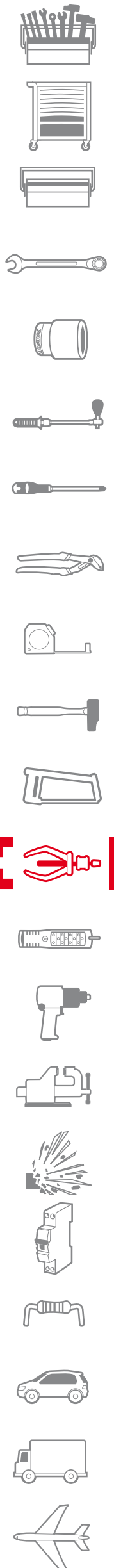


- Versatile: takes 2 or 3 legs.
- Safety: power is limited hydraulically to 10 tonnes. No risk of breakage.
- Comprising:
 - A 10-tonne hydraulic jack (100 kN) U.312-01 + and guide tip U.312-02 + set of 2 extensions U.312-03.
 - A body with 2 or 3 legs U.312-04 + centering screw U.312-04-01 + set of 3 screws/nuts U.312-04-02.
 - 4 sets of legs: U.312G110, U.312G160, U.312G210 and U.312G260.
- Supplied in plastic case U.312VAL, dimensions (L. x W. x H.): 565 x 412 x 105 mm. Weight: 14.400 kg.

U.312HJ4 - Mounting with legs



	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	ΔΔ [kg]
U.312G110	45 - 85	110	10	100	155 x 175 x 355	0,400
U.312G160	80 - 170	160	10	100	218 x 220 X 400	0,600
U.312G210	90 - 210	210	10	100	275 x 270 x 450	0,700
U.312G260	110 - 270	260	10	100	330 x 312 x 492	1,000



U.320H/U.330H

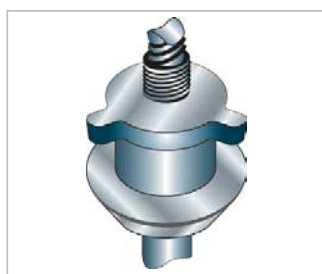
HIGH CAPACITY HYDRAULIC PULLERS

UP TO 30 TONNES IN COMPLETE SAFETY

- Hydraulic models incorporate a hydraulic jack fitted with a standard male coupling. The jack is designed for pressures up to 700 bar and is supplied from a manual or powered pump.
- Details of these accessories can be found under "Pumps and jacks".

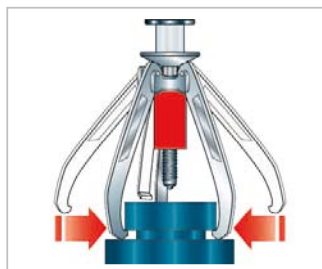
Powerful

- Fluid power ensures effortless and fast removal, while the puller remains steady even when applied to rotating components.
- Hydraulic models are used only with 3 legs.



Safe

- Legs are secured with a locknut.

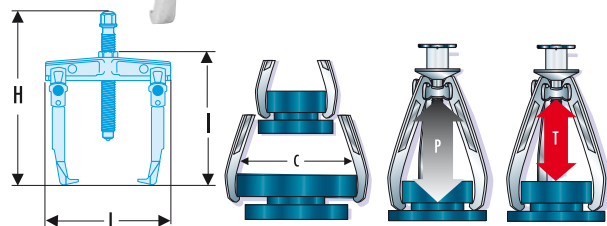


Automatic

- Self-centring. Self-gripping.



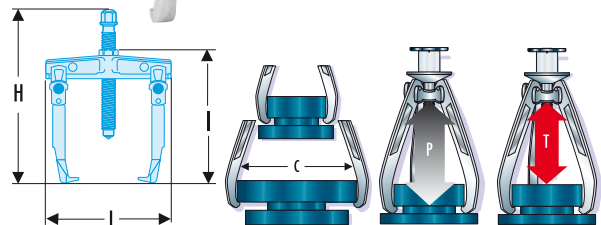
20 T hydraulic outside puller



- Comfort: self-gripping legs by return spring. The puller stays in position on the bearing even when not in tension.
- Safety: power is limited hydraulically by the pump. No risk of breakage.
- 1 hollow jack UWG.320 fitted with the screw UWG.320H01.
- Use with 700-bar pump UWP.10M.
- Mounting with 3 legs only with the hydraulic jack.

	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	Legs	Screw Size	Screw Size[mm]	Jack	$\Delta\Delta$ [kg]
U.320H	100 - 360	265	20	200	250 x 700 x 740	U.320-13A	UWG.320H01	21	UWG.320	48,500

30 T hydraulic outside puller

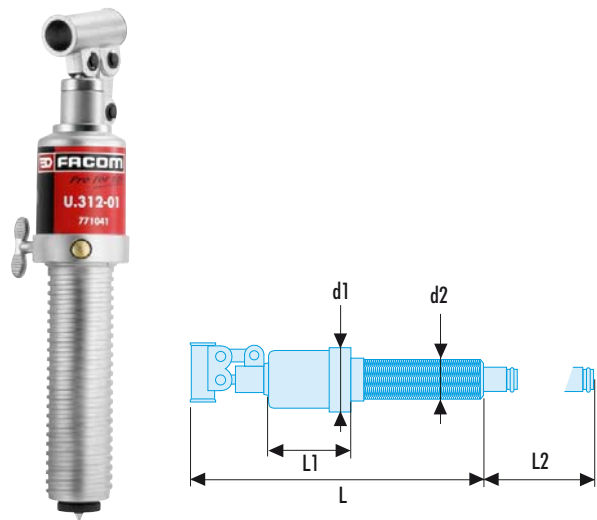


- Comfort: self-gripping legs by return spring. The puller stays in position on the bearing even when not in tension.
- Safety: power is limited hydraulically by the pump. No risk of breakage.
- 1 hollow jack UWG.320 fitted with the screw UWG.330H01.
- Use with 700-bar pump UWP.10M.
- Mounting with 3 legs only with the hydraulic jack.

	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	Legs	Screw Size	Screw Size[mm]	Jack	$\Delta\Delta$ [kg]
U.330H	100 - 530	395	30	300	300 x 900 x 950	U.330-08A	UWG.330H01	24	UWG.330	55,600

Hydraulic jacks and pumps

10T hydraulic jack for U.312H



- Hydraulic jack: power 10 tonnes (100 kN).
- Beam travel: 80 mm.
- Use with hydraulic puller U.312H in kits U.312HJ3 and U.312HJ4.
- Supplied with guide bit U.312-02.

	d1 [mm]	d2 [mm]	L [mm]	L1 [mm]	L2 [mm]	$\Delta\Delta$ [kg]
U.312-01	61	42	325	83	80	2,300

UWG - 20T and 30T hollow jacks for U.320H, U.330H



- These jacks are intended for hydraulic pullers U.320H and U.330H in replacement or option on manual pullers U.320 and U.330 using special screws UWG.320H01 and UWG.330H01.
- They are fitted with through taps receiving a central screw to work in pushing or traction.
- Jacks activated with 700-bar pump UWP.10M.
- The use in jack function is possible.

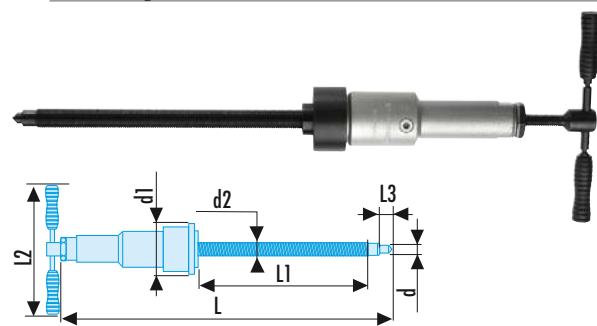
	Ton [t]	T [kN]	Screw Size	Screw Size[mm]	d [mm]	Oil Capacity [cm ³]	d1 [mm]	H [mm]	$\Delta\Delta$ [kg]
UWG.320	20	200	UWG.320H01	21	100	141,5	23,8	160	7,900
UWG.330	30	300	UWG.330H01	24	115	257,4	29,0	177	10,200

Screws for UWG jack



	Screw Size[mm]	Jack	d [mm]	L [mm]	$\Delta\Delta$ [kg]
UWG.320H01	21	UWG.320	M27 x 3,0	590	2,300
UWG.330H01	24	UWG.330	M33 x 3,5	780	4,500

10 T hydraulic screw



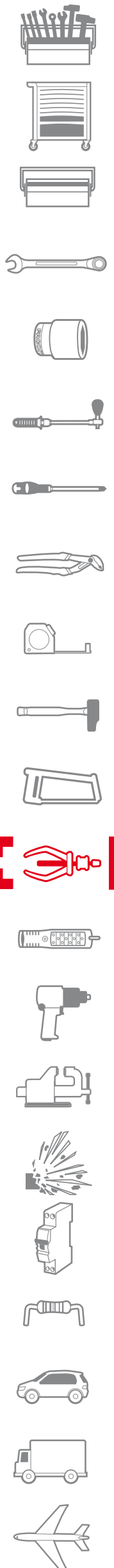
- Power: 10 tonnes (100 kN).
- Length of the threaded screw: 300 mm.
- Travel of the pusher bit: 14 mm.
- M22 x 2.0 thread compatible with puller U.310.

	d [mm]	d1 [mm]	d2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	$\Delta\Delta$ [kg]
U.3	14	70	M22 x 2,0	555	300	230	7 --> 21	4,500

UWP.10M Hydraulic 2-speed hand pump



- Manual pump with pressure gauge and relief valve, giving 2 flow rates:
 - 1st stage: high flow, max pressure: 50 bars = fast approach.
 - 2nd stage: low flow, max pressure: 700 bar = maximum power.
- Use with pullers U.320H, U.330H and hollow jacks UWG.320, UWG.330.
- Oil capacity: 1500 to 2,500 cm³.
- Supplied with a hose of 1.80 m fitted with a female fast fitting.
- Dimensions (L x W x H): 450 x 170 x 160 mm.
- Weight: 12.500 kg.



U.33A/U.66A

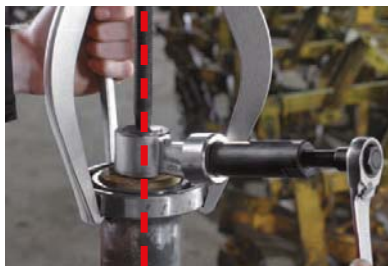
HYDRAULIC JACKS

HYDRAULICALLY-ASSISTED PULLING ACTION

Used in conjunction with mechanical pullers, hydraulic jacks help separate the fittings to be removed.

SAFETY FIRST

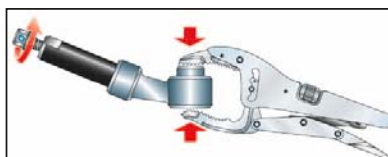
- During screw tightening, a safety pin will shear if the maximum allowable torque is exceeded.
- When using both puller and jack, make sure generated forces are compatible.
- Never use pneumatic tools.



- Place the jack between the component and the puller's screw.
- Centre the loads.
- Apply pressure axially.



- Hold the puller while tightening the screw to allow the plunger to extend.
- The bearing is removed



Plunger retraction

- Back off screw to release pressure.
- Use pliers or clamp to push back plunger.

U.33A Mechanical screw 20-tonne jack



- Piston travel: 5 mm.
 - Pin shearing at 110 N.m.
 - Supplied with 3 spare pins, and 2 shims 25 and 50 mm high (Ø 40 mm).
 - Set of 3 spare pins: U.33GJ3.
 - Set of 2 spare blocks: U.33-EMB.
 - Piston Ø: 33 mm.
 - Length: 260 mm; head height: 35 mm.
 - Power: 30 tonnes; 300 kN.
 - 6-point screw size 19 mm.
- Weight: 1.900 kg.

U.66A Mechanical screw 120-tonne jack



- Piston travel: 15 mm.
 - Pin shearing at 550 N.m.
 - Piston Ø: 80 mm; borehole Ø: 47 mm.
 - Length: 500 mm; head height: 105 mm.
 - Power: 120 tonnes; 1200 kN.
 - 6-point screw size 36 mm.
 - Supplied with 3 spare pins.
 - Set of 3 spare pins: U.66A03J3.
- Weight: 8.800 kg.

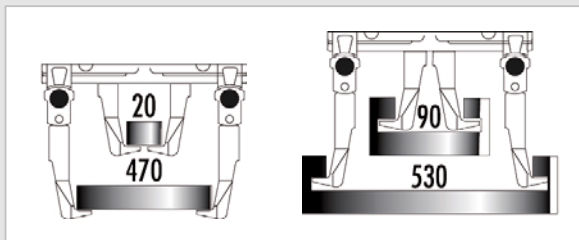
Reversible universal 2-leg pullers

U.32T

LOCKABLE 2-LEG PULLER

HIGH PERFORMANCE PULLER

For inside and outside puller applications



Inside and outside puller spread in millimeters.

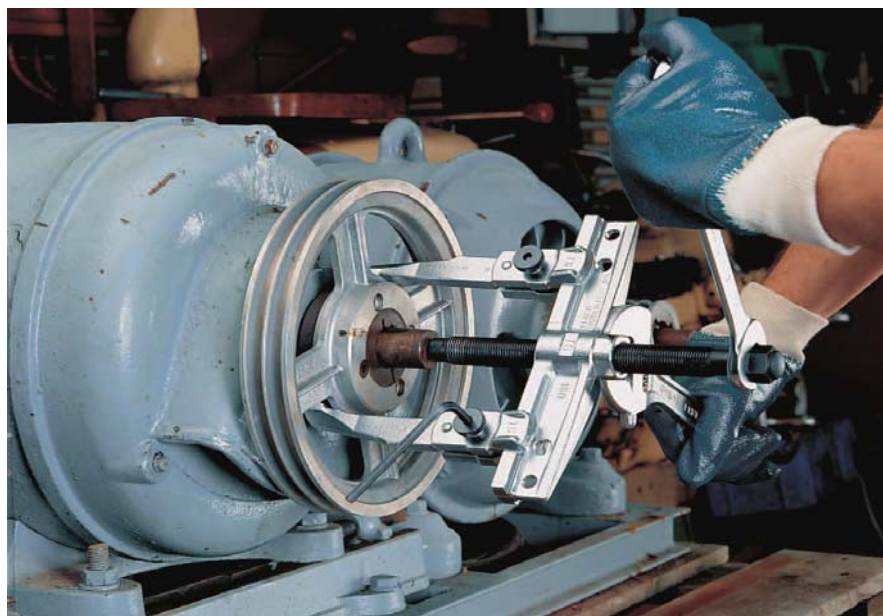
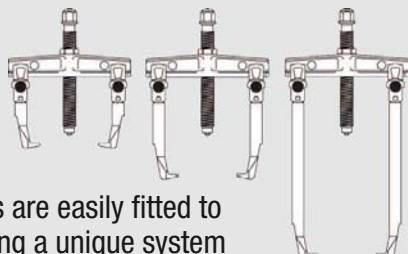
Rotation prevention

- Tightening the lock-nut with a wrench.
- Passing a rod through holes in the beam.



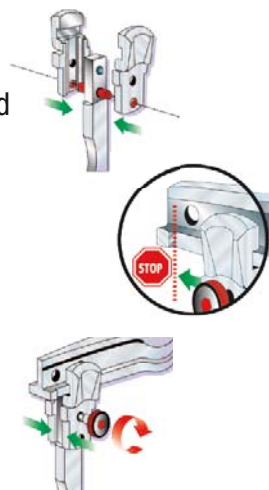
Reach

- Long-leg sets are easily fitted to the beam using a unique system of attachment. They increase the reach up to 470 mm.

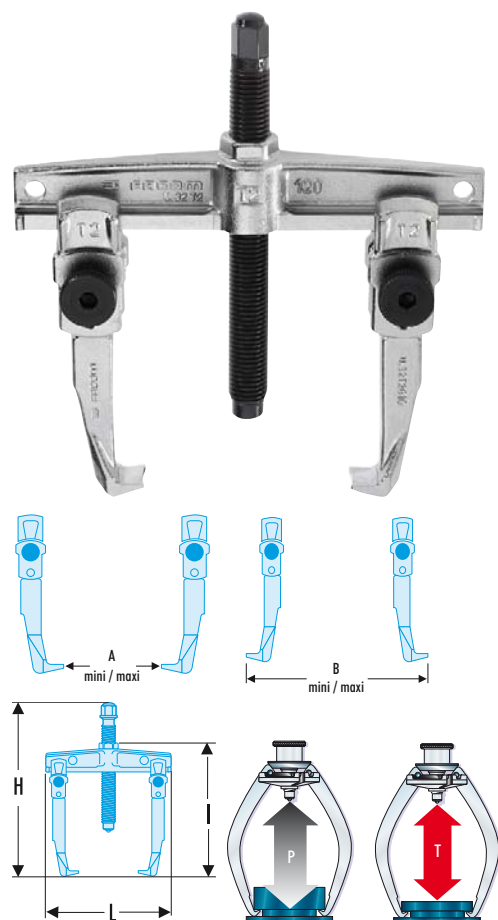


SAFETY FIRST

- **Pins**
Leg-mounting pins ensure easy and safe fixing to beam. Pins are treated to withstand pulling stresses.
- **Leg retainer**
Beam end-stop prevents legs sliding off.
- **Knurled locknut**
Leg assembly locks in any position by hand-tightening the knurled locknut.

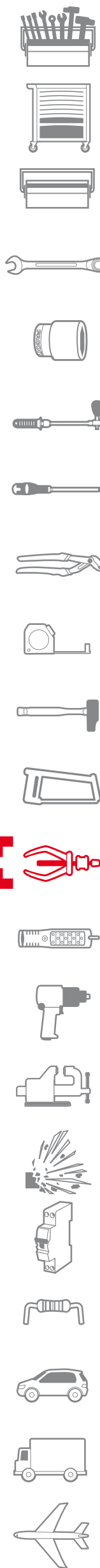


U.32T - Lockable 2-leg sliding-leg pullers



- Versatile: conversion possible in inside or outside grip with the same meg.
- Safety: knurled locking button.

	A mini - maxi [mm]	B mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	Screw Size	Screw Size [mm]	Puller [mm]	ΔΔ [kg]
U.32T2-8	20 - 80	90 - 140	105	2	20	142 x 150 x 170	U.32T2-1	13	21	1,100
U.32T2-12	20 - 120	90 - 180	105	2	20	182 x 150 x 170	U.32T2-1	13	21	1,200
U.32T6-16	20 - 160	130 - 250	150	6	60	230 x 215 x 255	U.32T6-1	24	32	2,900
U.32T6-20	20 - 200	130 - 290	150	6	60	277 x 215 x 255	U.32T6-1	24	32	3,200
U.32T15-25	25 - 250	180 - 380	170	15	150	364 x 305 x 360	U.32T15-1	35	41	8,600
U.32T15-35	25 - 350	180 - 480	270	15	150	464 x 405 x 470	U.32T15-2	35	41	10,800
U.32T15-50	25 - 470	180 - 530	270	15	150	614 x 405 x 470	U.32T15-2	35	41	17,100



U.32TGA - Spare legs for U.32T



- For your safety, we recommend that all the legs are replaced in the event of a problem.
- Leg supplied per unit, without leg holder.
- Leg holder supplied per unit.

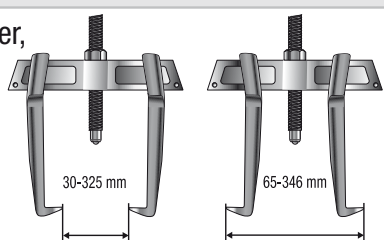
Legs	E [mm]	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	Mounting Pins	ΔΔ [kg]	
U.32T2GA10	U.32T2-8 - U.32T2-12	2,5	130	105	18	10	18,0	U.32T2DG	0,600
U.32T2GA20	Option	2,5	225	185	18	10	18,0	U.32T2DG	0,800
U.32T2GA25	Option	2,5	275	235	18	10	18,0	U.32T2DG	0,900
U.32T6GA15	U.32T6-16 -U.32T6-20	4,0	180	150	24	15	28,5	U.32T6DG	1,400
U.32T6GA30	Option	4,0	335	280	24	15	28,5	U.32T6DG	2,000
U.32T15GA20	U.32T15-25	5,0	250	170	34	20	36,0	U.32T15DG	3,400
U.32T15GA30	U.32T15-35 - U.32T15-50	5,0	315	270	34	20	36,0	U.32T15DG	4,200
U.32T15GA40	Option	5,0	445	370	34	20	36,0	U.32T15DG	5,000
U.32T15GA50	Option	5,0	545	470	34	20	36,0	U.31T15DG	5,800

U.232

2-LEG PULLER

STRENGTH AND SIMPLICITY!

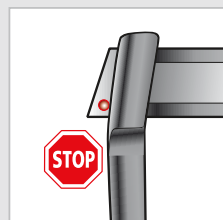
- 2-leg puller, inside or outside grip



SAFETY FIRST

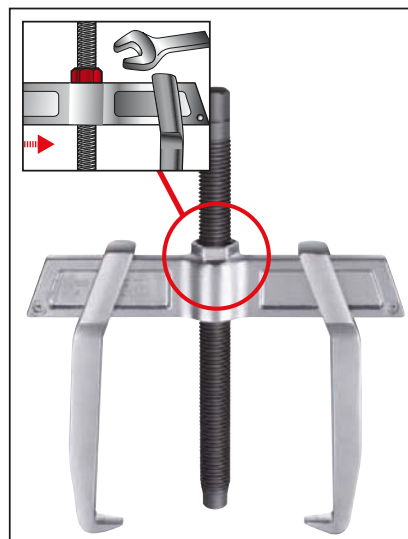
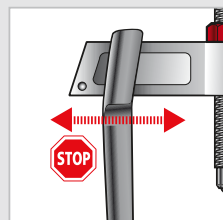
Leg retainer

- A spring-loaded pin at the end of the beam prevents the legs from sliding off.



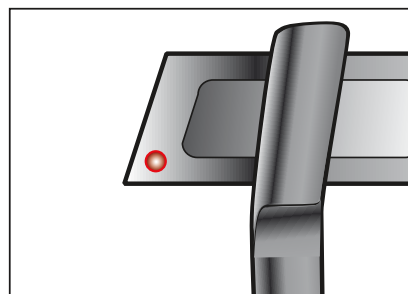
Leg locking

- The legs are designed to cantilever during pulling, blocking them in place and preventing them from sliding along the beam.



Anti-rotation system

- Tightening the lock-nut with a wrench.

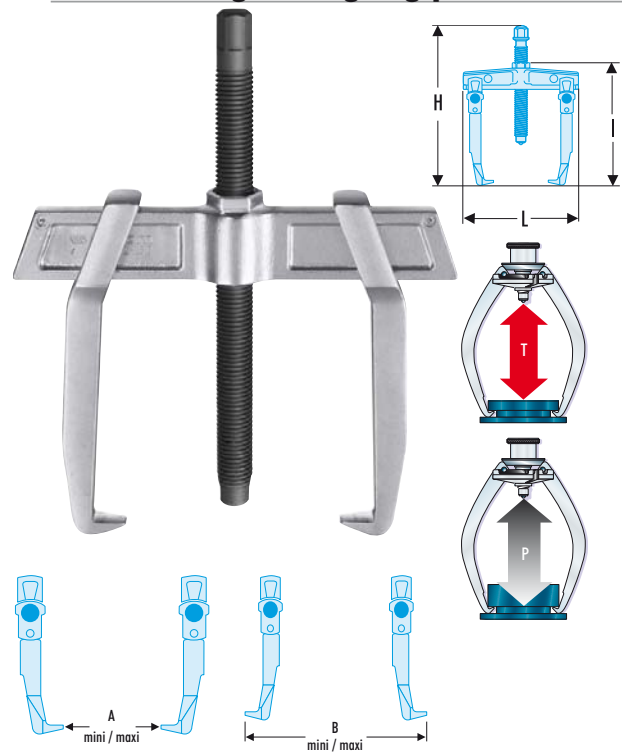


Leg reversal

- Legs changed from inside grip to outside grip configurations simply by pressing the pin. No need for tools.



U.232 - 2-leg sliding-leg pullers



- Versatile: conversion possible in inside or outside grip with the same leg.
- Safety:
 - Stops to prevent legs from falling.
 - Under pressure, the legs are set to overhang to avoid sliding.

	A mini - maxi [mm]	B mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	Legs	Screw Size	Screw Size[mm]	Puller [mm]	ΔΔ [kg]
U.232-65	30 - 60	65 - 90	65	1,5	15	115 x 105 x 133	U.232G1	U.35P01	13	16	0,400
U.232-90	60 - 81	86 - 95	100	3,0	30	146 x 155 x 182	U.232G2	U.35SE1	17	21	0,900
U.232-130	60 - 122	86 - 136	100	3,0	30	186 x 155 x 182	U.232G2	U.35SE1	17	21	1,000
U.232-160	86 - 153	127 - 171	145	4,0	40	247 x 233 x 283	U.232G3	U.53S2A07	17	27	2,800
U.232-210	86 - 203	127 - 222	145	4,0	40	297 x 233 x 283	U.232G3	U.53S2A07	17	27	3,000
U.232-270	100 - 255	148 - 276	190	5,0	50	379 x 303 x 345	U.232G4	U.53S3-07	32	36	7,500
U.232-340	100 - 325	148 - 346	190	5,0	50	449 x 303 x 345	U.232G4	U.53S3-07	32	36	8,200

Slim-profile 2-leg pullers

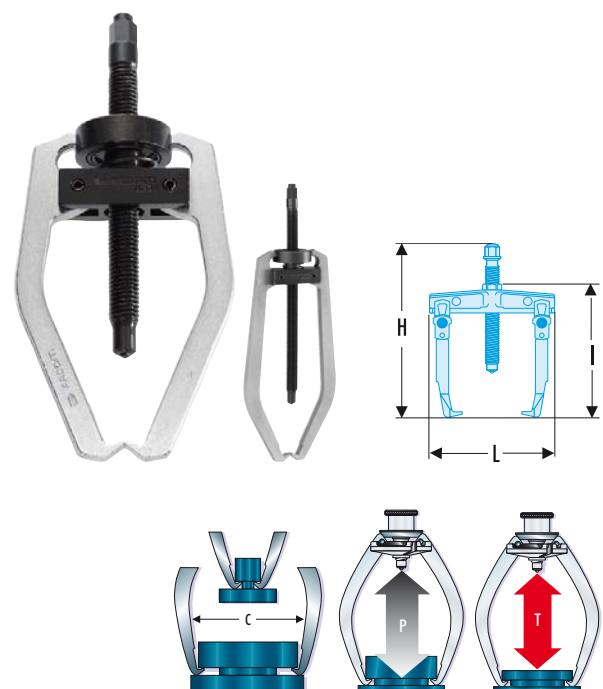
U.14 - Self-gripping outside pullers with slim legs



- Access: 2 slim leg puller.
- Comfort: self-gripping legs by return spring. The puller stays in rolling position even when not in tension.
- Example of use = battery terminals.

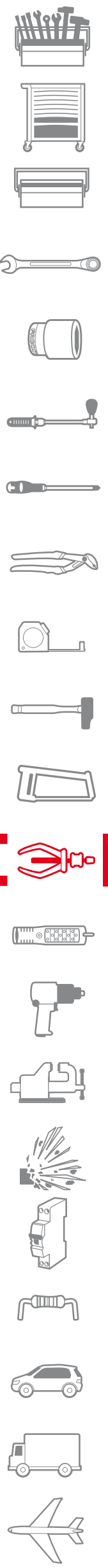
	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	Screw Size	Screw Size[mm]	ΔΔ [kg]
U.14A	10 - 35	40	0,5	5	60 x 75 x 125	U.14A04	Spindle	0,340
U.14L	10 - 45	60	0,5	5	85 x 120 x 150	U.14A04	Shaft	0,380

U.301 - Self-gripping outside pullers with slim legs



- Access: 2 slim leg puller.
- Comfort: self-gripping legs by return spring. The puller stays in rolling position even when not in tension.
- Adaptable puller accessory: slide hammer U.49AM.
 - Per tip U.301E1 (U.301 and U.301-150).
 - Per tip U.301E2 (U.301-200).

	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	Legs	Screw Size	Screw Size[mm]	ΔΔ [kg]
U.301	10 - 80	90	0,9	9	83 x 130 x 153	U.301G	U.301-04	10	0,500
U.301-150	15 - 150	150	0,9	9	90 x 206 x 222	-	U.301-04-150	10	0,700
U.301-200	15 - 200	200	1,3	13	120 x 268 x 300	-	U.301-04-200	13	1,100



SLIM OR WIDE LEGS?

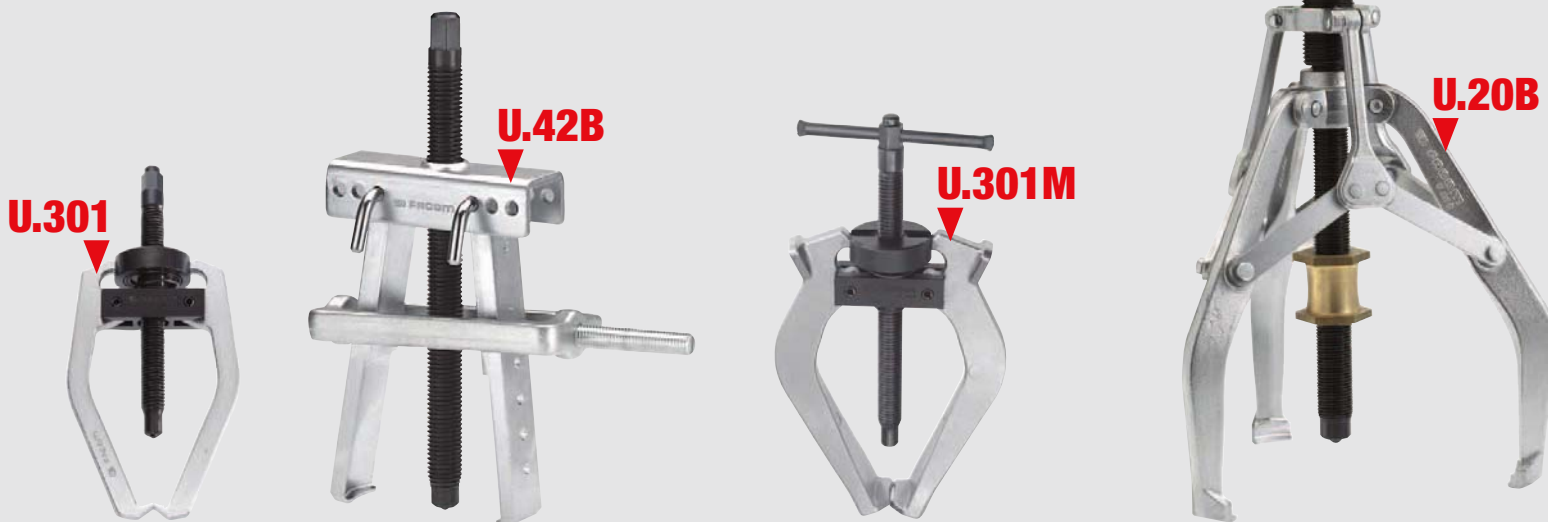
Slim leg pullers

Slim leg pullers are used for pulling bearings located in confined spaces.

or

Wide leg pullers

Wide leg pullers offer more limited access but their legs wrap around the bearing, offering maximum grip. The bearing is preserved and more power can be applied.



Wide 2-leg pullers

U.301 L/M/P

WIDE 2-LEG PULLER

A COMPACT PULLER WITH TWO "WRAP AROUND" LEGS FOR A BETTER GRIP!

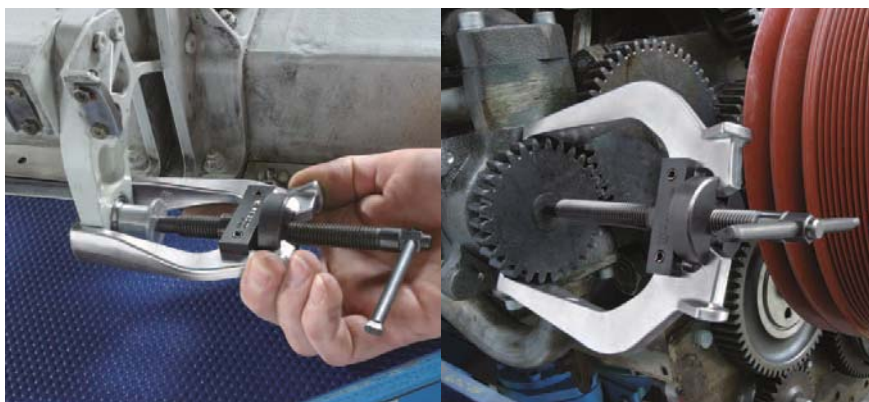
Effective and easy to use

Self-gripping, self-centring "body and spring" system.

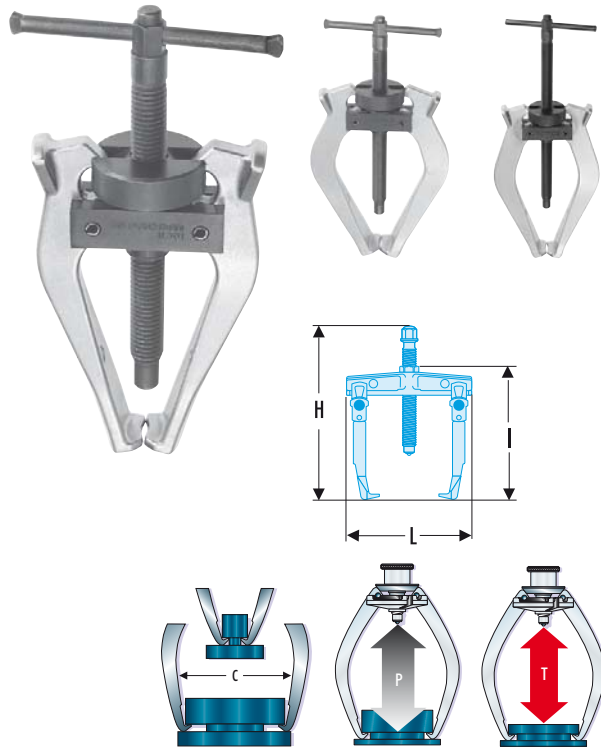
- ① Force-limiting safety rod.
- ② Ergonomic finger grips and one-hand installation option.
- ③ Shear pin.
- ④ "Wrap-around" legs to grip the part firmly without scratching.
- ⑤ "Positive" leg angle for optimum grip even under maximum pulling force. Spread: 50, 100, 110 mm.

SAFETY FIRST

- The rod (1) then the shear pin (3) fail in stages before the yield point of the legs is reached.



U.301 - Self-gripping outside pullers with wide legs



- Comfort: self-gripping legs by return spring. The puller stays in position on the bearing even when not in tension.
- Safety: a power restrictor pin is pressed when the force applied is too strong.
- Adaptable puller accessory: slide hammer U.49AM.
 - Per tip U.301E1 (U.301P and U.301M).
 - Per tip U.301E2 (U.301L).

	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	Screw Size	ΔΔ [kg]
U.301P	15 - 50	70	0,9	9	75 x 120 x 147	U.301P04	0,500
U.301M	15 - 100	100	0,9	9	90 x 206 x 222	U.301M04	0,800
U.301L	15 - 110	130	1,3	13	120 x 268 x 300	U.301L04	0,900

U.35 - Pullers with outside wide legs



- Safety: use in “uncrossed legs” configuration doubles capacity, but the “cross-legged” configuration should be used preferably.
- Adaptable puller accessory: slide hammer U.306M for U.35 and U.35L.
- Set of 2 spare pins:
 - U.42-5J2 for U.35P.
 - U.35-5J2 for U.35 and U.35L.

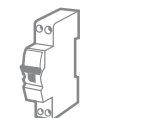
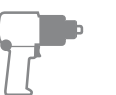
	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	Legs	Screw Size	Screw Size [mm]	ΔΔ [kg]
U.35P	10 - 55	75	1	10	65 x 110 x 140	U.35D (x 2)	U.35P01	13	0,400
U.35	15 - 75	90	4	40	68 x 160 x 183	U.35C (x 2)	U.35SE1	17	1,000
U.35L	15 - 75	130	3	30	90 x 188 x 225	U.35B (x 2)	U.35SE1 + U.35SE3	17	1,200

High-capacity wide leg outside puller



- Safety: use in “uncrossed legs” configuration doubles capacity, but the “cross-legged” configuration should be used preferably.
- Adaptable puller accessory: slide hammer U.2.

	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	Legs	Screw Size	Screw Size [mm]	ΔΔ [kg]
U.34	40 - 180	245	7	70	215 x 315 x 370	U.34G (x2)	U.20B1	24	4,400



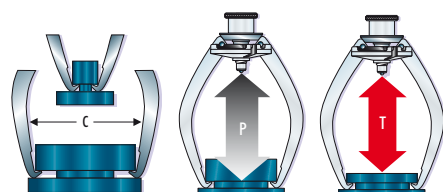
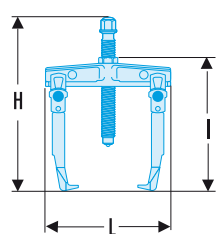
U-bolt 2-leg pullers

U.42 - Pullers with yoke



- The U.42 and U.42B models have legs designed specifically for gearbox bearings.
- Spare yoke for U.42 and U.42B: U.42SE2.
- Set of 2 spare pins for U.42 and U.42B: U.42-5J2.

➤	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	Legs	Screw Size	Screw Size[mm]	ΔΔ [kg]
U.42	10 - 85	120	1,5	15	160 x 165 x 235	U.42-3	U.42-1	13	1,300
U.42B	10 - 85	180	1,5	15	160 x 225 x 240	U.42B3	U.42-1	13	1,600

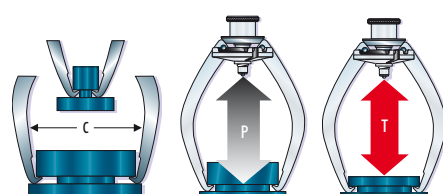
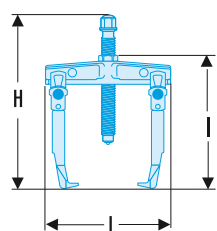


U.52 - Pullers with yoke



- Spare yoke for U.52 = U.52SE2.
- Set of 2 spare pins for U.52: U.35-5J2.

➤	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	L x l x H [mm]	Legs	Screw Size	Screw Size[mm]	ΔΔ [kg]
U.52	10 - 150	160	6	60	220 x 200 x 250	U.52-3	U.52-1	17	1,700



Tip-type pullers, cage grip

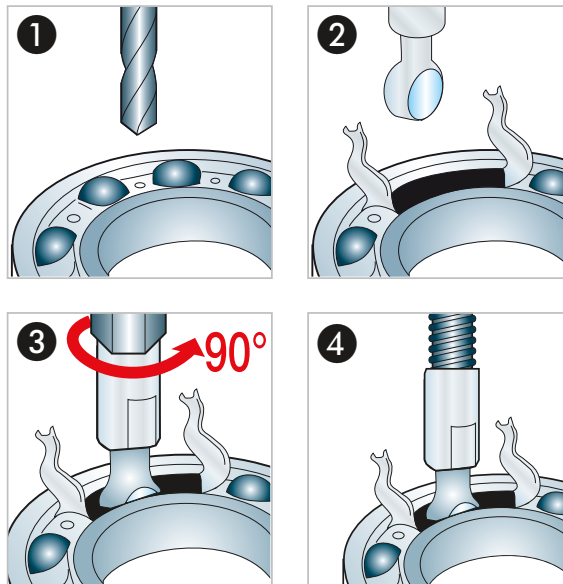
U.23

TIP TYPE PULLERS, CAGE GRIP

- The design of this puller is particularly suited to cage-type ball bearings.
- Pressure is distributed over the two races and the tool can be used for both shaft and housing fits.
- Depending on the ball diameter, different pairs of spherical tips should be selected from of three sets available.

Positioning tips in bearings

- 1 Drill 2 diametrically opposed holes.
- 2 Bend back cage ends.
- 3 Insert appropriately sized tips into race. Turn through 90 degrees to lock.
- 4 Screw beam rods into tips.



U.23J1A Micro-engineering puller kit



- Comprising:
 - 3 pairs of tips: \varnothing 5.5 - 6 - 7.5 mm.
 - Beam U.23K1A.
- Spread: \varnothing 25 to 95 mm.
- For ISO bearings: 6004 to 6010; 6200 to 6205; 6300 to 6302.
- Supplied in plastic case BP.102 with tray PL.392A.
- Weight: 0.800 kg.

U.23J2 Light engineering puller kit

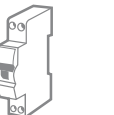
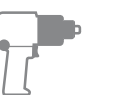


- Comprising:
 - 3 pairs of tips: \varnothing 9 - 11 - 12.5 mm.
 - Beam U.53K1.
- Spread: \varnothing 40 to 110 mm.
- For ISO bearings: 6206 to 6211; 6303 to 6307; 6403 to 6404.
- Supplied in plastic case BP.115 with tray PL.71A.
- Weight: 1.800 kg.

U.23J3 General engineering puller kit



- Comprising:
 - 6 pairs of tips: \varnothing 16 - 19 - 22 - 25 - 28 - 32 mm.
 - Beam U.53K2.
- Spread: \varnothing 70 to 190 mm.
- For ISO bearings: 6212 to 6222; 6308 to 6319; 6405 to 6414.
- Supplied in plastic case BP.109 with tray PL.104A.
- Weight: 7.300 kg.



Special grip bearing pullers

U.23D - Set of 2 tips



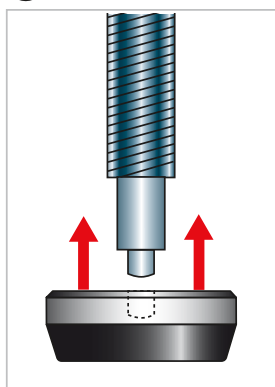
➤	d [mm]	Tapping	$\Delta\Delta$ [kg]
U.23D5	5,5	M6	0,025
U.23D6	6,0	M6	0,027
U.23D8	7,5	M6	0,030
U.23D9	9,0	M10	0,040
U.23D11	11,0	M10	0,045
U.23D12	12,5	M10	0,045
U.23D16	16,0	M16	0,125
U.23D19	19,0	M16	0,275
U.23D22	22,0	M16	0,315
U.23D25	25,0	M16	0,490
U.23D28	28,0	M16	0,525
U.23D32	32,0	M16	0,670

Tip-type pullers, inside grip

U.51B

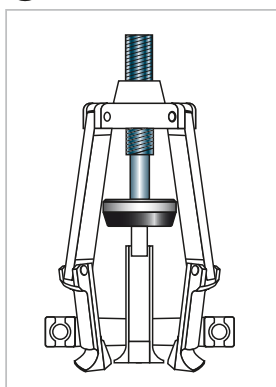
TIP TYPE PULLER, INSIDE GRIP

1



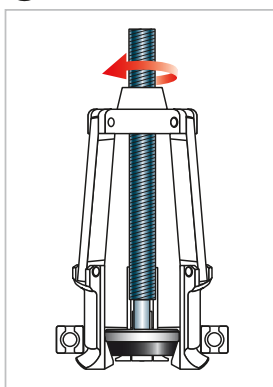
- Locate the spreader at end of screw.

2



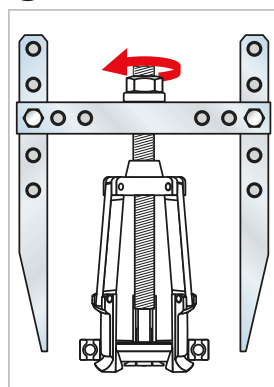
- Insert claw ends through bearing.

3



- Screw claws tight against bearing.

4



- Fit beam and screw down nut to withdraw bearing.



U.51B Tip-type pullers, inside grip



- Capacity: \varnothing 32 to 70 mm.
 - Adaptable puller accessories: beam U.40 or beam U.30.
 - Supplied with 15 tips.
 - Set of 15 spare tips: U.51BJ15.
 - Spare nut + bush: U.51B-1.
 - Supplied in plastic case BP.109 with tray PL.710.
- Weight: 3.400 kg.

U.28 Tip-type pullers, large spread inside grip



- Capacity: Ø 70 to 160 mm.
- Allocation of "separator" tip discs:
 - Tip disc no.1: capacity 70 - 100 mm.
 - Tip disc no.2: capacity 100 - 136 mm.
 - Tip disc no.3: capacity 130 - 160 mm.
- Adaptable puller accessory: beam U.30.
- Weight: 3.300 kg.
- Set of 3 spare separator tips: U.28J3
- Spare nut + bush: U.28-1.

U.28J1 Separator and beam for inside grip set



- Comprising:
 - 1 separator U.28.
 - 1 beam U.30.
- Spread: Ø 70 to 160 mm.
- Supplied in a steel case BT.111 (396 x 224 x 82 mm) with tray PL.168.
- Weight: 9.500 kg.

U.30 Beam for pullers U.28 and U.51B

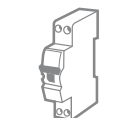


- Use with pullers U.28 and U.51B.
- Weight: 4.600 kg.

U.40 Beam for pullers U.51B and U.306



- Use with pullers U.51B and U.306. Using the beam U.40 with the separator U.306 requires using the bush and nut U.306A1 (to be ordered separately).
- Weight: 1.800 kg.



Special grip bearing pullers

Spreader-type pullers, inside grip

U.49P - Clamps for inside grip



- High impact and screwing / unscrewing resistance.
- Multiple flexible blades and hardly sensitive to distortion.
- Easy to use.

➤	d1 [mm]	d2 [mm]	d mini - maxi [mm]	L [mm]	ΔΔ [kg]
U.49P1	M8	12	6,5 - 8,0	76	0,025
U.49P2	M8	12	8,5 - 10,0	76	0,030
U.49P3	M8	12	10,5 - 13,0	88	0,045
U.49P4	M8	12	13,0 - 18,0	100	0,070
U.49P5	1/2"	17	18,0 - 22,5	112	0,140
U.49P6	1/2"	17	22,5 - 30,0	139	0,300
U.49P7	1/2"	22	30,0 - 38,0	158	0,545
U.49P8	1/2"	1-1/4"	38,0 - 50,0	190	1,215
U.49P9	1/2"	1-1/4"	50,0 - 60,0	190	1,425

U.49PJ1 Maintenance kit



- To pull bearings Ø 8.5 to 38 mm.
- Comprising:
 - 6 pliers U.49P2 to U.49P7.
 - 2 beams U.53KL0 and U.53KL2.
 - Adapter bit U.49BR1.
- Supplied in plastic case BP.109 with tray PL.711.
- Weight: 3.500 kg.

U.49PJ2 Light engineering puller kit



- To pull bearings Ø 18 to 50 mm.
- Comprising:
 - 4 pliers U.49P5 to U.49P8.
 - 1 slide hammer U.49AM.
- Supplied in plastic case BP.109 with tray PL.712.
- Weight: 5,000 kg.

U.49PJ3 General engineering puller kit



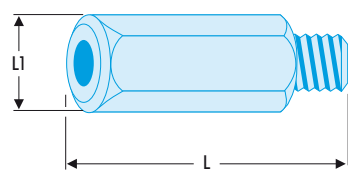
- To pull bearings Ø 6.5 to 18 mm.
- Comprising:
 - 4 pliers U.49P1 to U.49P4.
 - 1 slide hammer U.49L.
- Supplied in plastic case BP.115 with tray PL.445.
- Weight: 1.400 kg.

U.49PJ4 Heavy engineering puller kit



- To pull bearings Ø 30 to 60 mm.
- Comprising:
 - 3 pliers U.49P7 to U.49P9.
 - 1 beam U.53KL2.
 - Tip U.49BR1.
- Supplied in plastic case BP.109 with tray PL.713.
- Weight: 5.300 kg.

Adaptor tip for clamps U.49P5 to P9 on slide hammer or beam



- Female thread: M16 x 2.0.
- Male thread: 1/2" - 20UNF.
- Used to connect the slide hammer U.306M or beam U.53KL2 to the clamps U.49P5 to U.49P9.

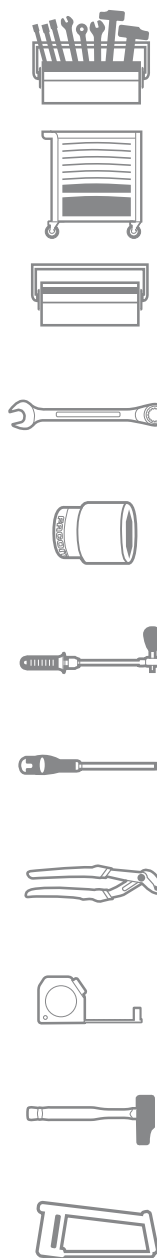
	Screw Size	Screw Size[mm]	L [mm]	L1 [mm]	ΔΔ [kg]
U.49BR1	23	23	48	13	0,100

Adaptor tips for separators U.301 / U.302 on slide hammer U.49AM



- U.301E1 tip for pullers U.301, U.302, U.301-150, U.302-150.
- Female thread: 1/2" - 20UNF.
- Male thread: M12 x 1.75.
- U.301E2 tip for pullers U.301-200 and U.302-200.
- Female thread: 1/2" - 20UNF.
- Male thread: M16 x 2.00.
- Locks the legs in Pullers position.

	d [mm]	L [mm]	L1 [mm]	ΔΔ [kg]
U.301E1	25	62	22	0,200
U.301E2	25	62	22	0,300



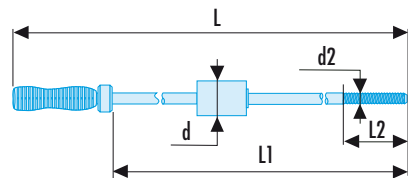
Slide hammers

Slide hammers

Slide hammer 0.2 kg



- For fitting on low spread clamps U.49P1 to U.49P4.
- Allows to extract bearings with an inner diameter \varnothing 6.5 to 18 mm.

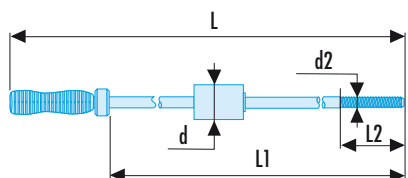


➤	d [mm]	d2 [mm]	L [mm]	L1 [mm]	L2 [mm]	$\Delta\Delta$ [kg]
U.49L	30	M8x1,25	302	212	14	0,500

Slide hammer 1 kg



- For fitting on high spread clamps U.49P5 to U.49P9.
- Allows to extract bearings with an inner diameter \varnothing 18 to 60 mm.
- Use of threaded tips U.53E4 to U.53E14 with the adaptor tip U.53H3.

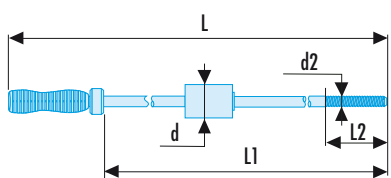


➤	d [mm]	d2 [mm]	L [mm]	L1 [mm]	L2 [mm]	$\Delta\Delta$ [kg]
U.49AM	45	1/2"-200NF	452	325	25	1,600

Slide hammer 2 kg



- Adapts to pullers U.306, U.42, U.42B, U.32T2-8, U.32T2-12, U.35, U.35L.
- Adaptable accessories:
 - Clamps U.49P5 to U.49P9 with adaptor tip U.49BR1.
 - Threaded tips U.53E4 to U.53E14 with the adaptor tip U.53H2.

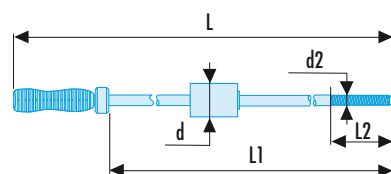


➤	d [mm]	d2 [mm]	L [mm]	L1 [mm]	L2 [mm]	$\Delta\Delta$ [kg]
U.306M	60	M16x2,0	654	537	228	2,800

Slide hammer 7 kg



- Adapts to pullers U.20, U.20B, U.310, U.32T6-16, U.32T6-20 and tray U.9.



➤	d [mm]	d2 [mm]	L [mm]	L1 [mm]	L2 [mm]	$\Delta\Delta$ [kg]
U.2	92 / 171	M22x2,0	761	615	70	8,700

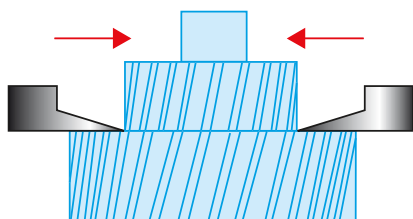
Puller kits

U.53

SEPARATORS, FLUSH GRIP

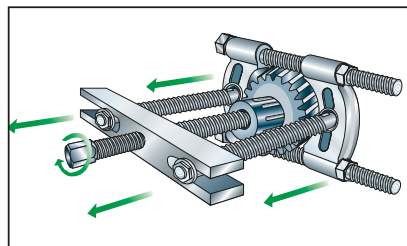
Bearing separators U.53T fit behind races where ordinary puller claws will not reach.

- The wedge-shaped jaws bear against the back of the fitting, pushing it out as they close.
- Separators can be used with beams for mechanical screws or with beams designed specifically for use with hand-operated hydraulically-assisted jacks.

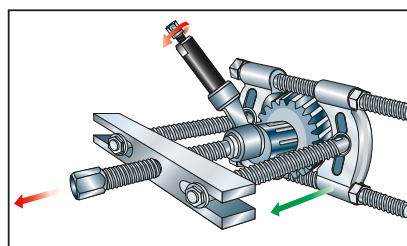


SAFETY FIRST

- Only hand-operated hydraulic systems are to be used in conjunction with separator and beam combinations.



Separator and beam with hand-operated hydraulic system.



Separator and beam with mechanical screw.

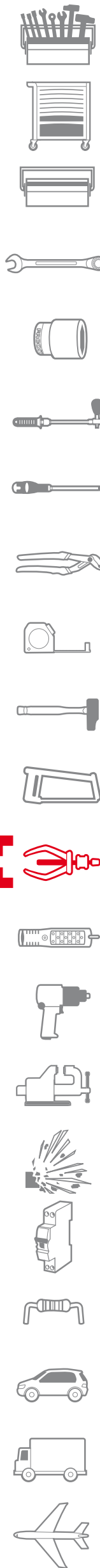
- Beam used with hydraulic press U.33A
- Only to be used with beams U.53K4 and U.53S4A.



U.53J1 60 mm separator and beam puller kit



- Comprising:
 - 1 separator U.53T1 = spread: Ø 5 to 60 mm.
 - 1 beam U.53K1 = spread: Ø 40 to 110 mm.
 - Max reach: 180 mm.
 - 4 pairs of U.53E threaded tips M4 - M5 - M6 - M8.
 - 2 adaptors U.53H1.
- Supplied in plastic case BP.112 with tray PL.296A.
- Weight: 3.400 kg.



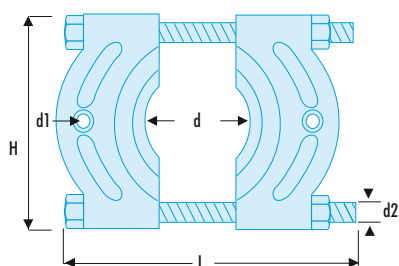
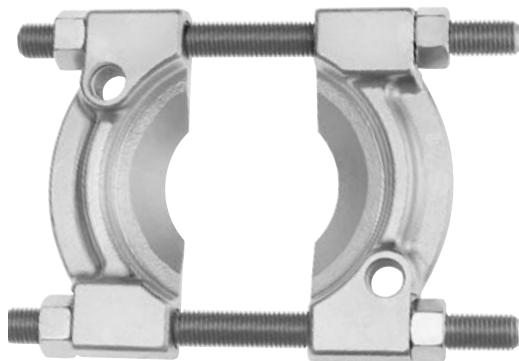
U.53J2 110 mm separator and beam puller kit



- Comprising:
 - 1 separator U.53T2 = spread: Ø 15 to 110 mm.
 - 1 beam U.53K2 = spread: Ø 70 to 200 mm.
 - Max reach: 240 mm.
 - 4 pairs of U.53E threaded tips M8 - M10 - M12 - M14.
 - 2 adaptors U.53H2.
- Supplied in plastic case BP.109 with tray PL.297A.
- Weight: 7.300 kg.

Separators

U.53T - Separators



- Separators spread Ø 5 to 250 mm.
- Fit behind races where ordinary puller claws will not reach.
- They can be used with beams assisted by screws or jacks.

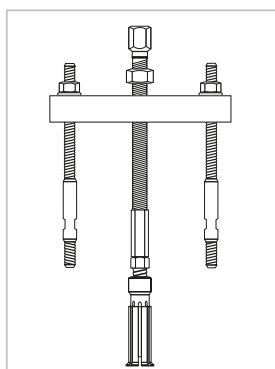
FACOM	Screw Size	d1 [mm]	d2 [mm]	d mini - maxi [mm]	H [mm]	L [mm]	For	ΔΔ [kg]
U.53T1	U.53T1-02	M10	M12	5 - 60	91	140	U.53K1	0,600
U.53T2	U.53T2-02	M16	M16	15 - 110	153	215	U.53K2 - U.53S2A	2,100
U.53T3	U.53T3-02	M20	M20	15 - 150	204	290	U.53K3	4,600
U.53T4	U.53T4-02	M22	M22	20 - 180	289	360	U.53K4 - U.53S4A	8,200
U.53T5	U.53T5-02	M22	M22	25 - 250	316	430	U.53K4 - U.53S4A	11,200

Beam pullers

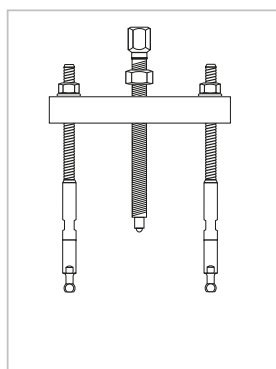
U.23/U.53

BEAM PULLERS

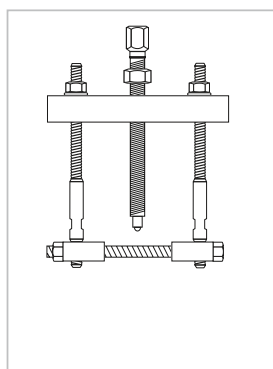
Beams can be used with different types of pullers:



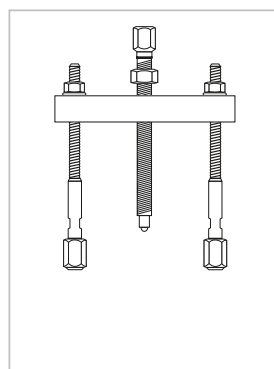
- Expansion bearing puller U.49P.



- Spherical or threaded tip pullers U.23.



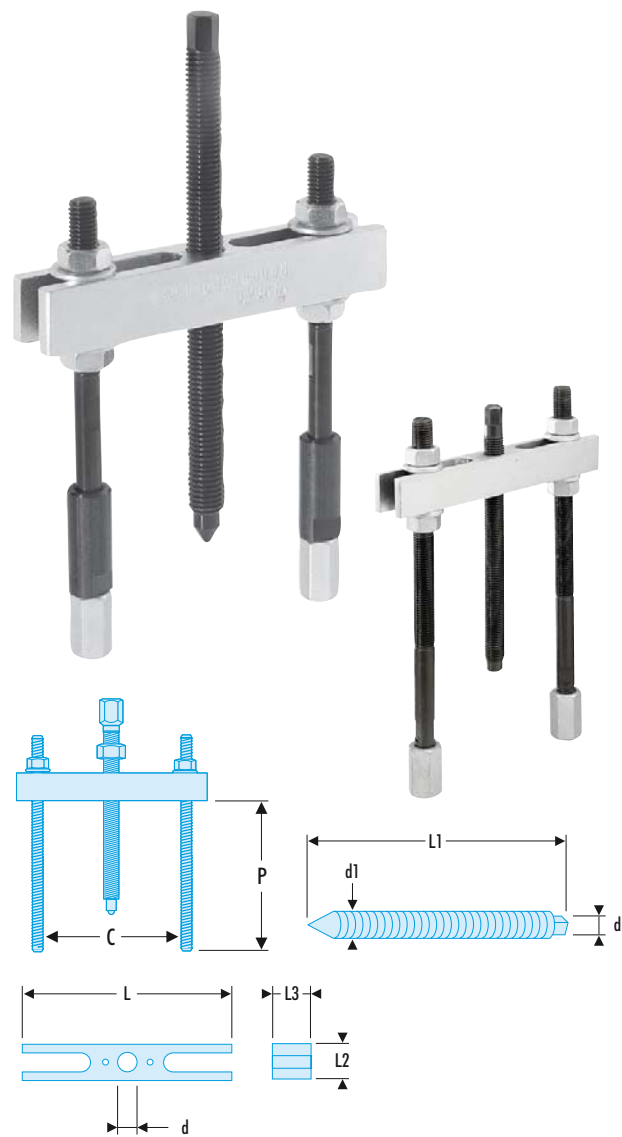
- Separator U.53.



- Extraction via beam alone.



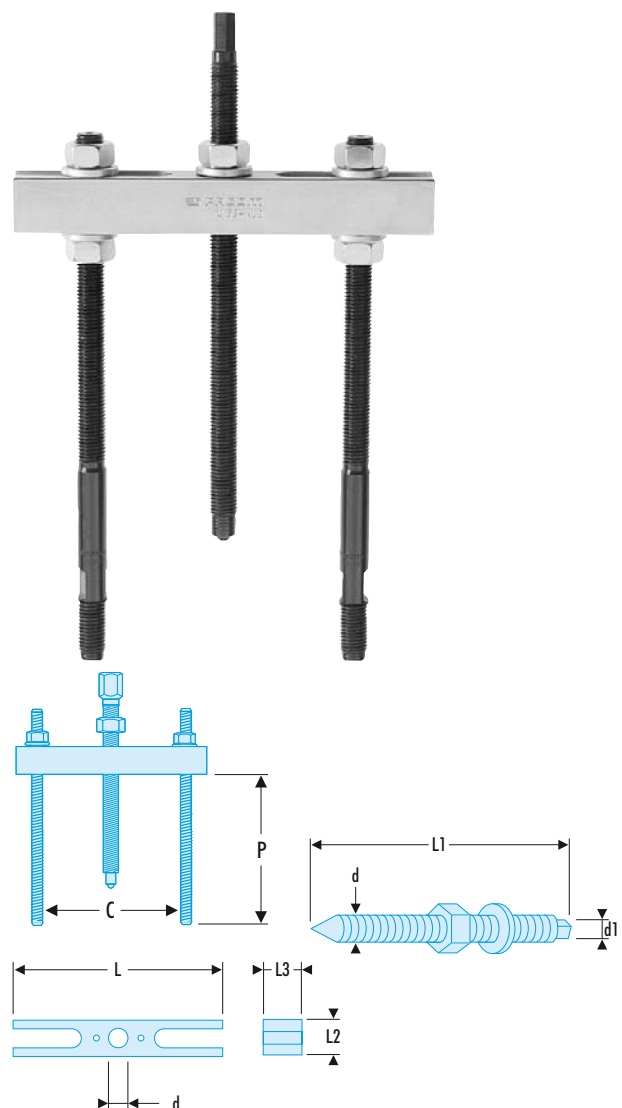
U.23K-U.53K - Tapped beams



- Tapped beams are used in mechanical pulling with separators, spherical or threaded tips.
- Spread: Ø 25 to 400 mm.

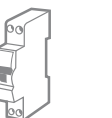
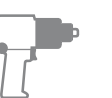
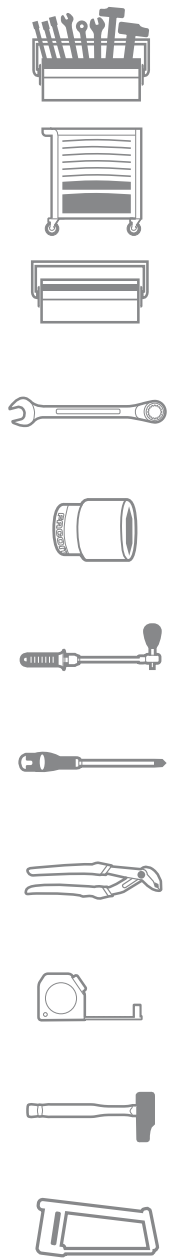
	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	Screw Size	d [mm]	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Tie-rods	ΔΔ [kg]
U.23K1A	25 - 95	100	1	10	U.23K1A-02	M10	8	110	155	20	20	U.23K1A-03	0,400
U.53K1	40 - 110	180	3	30	U.51K1-07	M16	11	135	215	25	25	U.53R1L	0,900
U.53K2	70 - 200	240	3	30	U.53K2-07	M16	11	220	280	30	30	U.53R2L	2,300
U.53K3	75 - 280	300	4	40	U.53S3-07	M27	21	320	340	45	35	U.53R3L	5,300
U.53K4	145 - 400	350	5	50	U.53S4-07	M33	25	450	420	50	50	U.53R4LA	10,700

U.53KL - Non-tapped beams

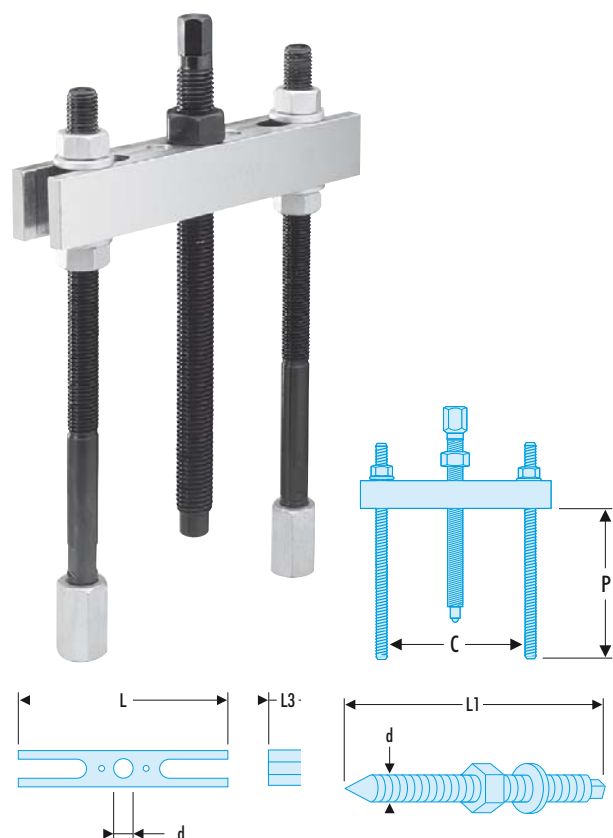


- Non tapped beams allow to use clamps U.49P1 to U.49P9 to extract bearings by inside grip.
- U.53KL0: for clamps U.49P1 to U.49P4.
- U.53KL2: for clamps U.49P5 to U.49P9 with adaptor tip U.49BR1.

	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	Screw Size	d [mm]	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Tie-rods	ΔΔ [kg]
U.53KL0	25 - 100	125	1	10	U.53KL0-02	M8	6	110	155	20	20	U.53KL0-02	0,400
U.53KL2	70 - 200	240	3	30	U.53K2-07	M16	11	220	280	30	30	U.53R2L	2,400



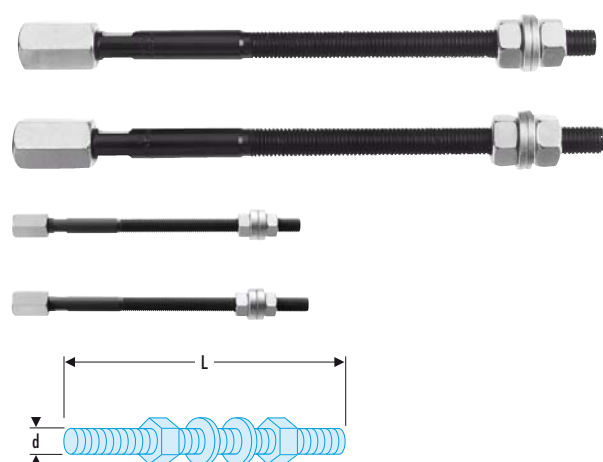
U.53S - Jack beams



- These 2 non tapped beams with mechanical specifications exceeding U.53K (dimensions, steel and thermal treatment) are designed to withstand the high loads generated by the power of jacks used.

⇒	C mini - maxi [mm]	P maxi [mm]	Ton [t]	T [kN]	Screw Size	d [mm]	d1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Tie-rods	ΔΔ [kg]
U.53S2A	120 - 200	235	10	100	U.53S2A07	280	M20	220	280	35	35	U.53R2L	3,000
U.53S4A	170 - 400	340	30	300	U.53S4-07	420	M33	450	420	60	60	U.53R4LA	15,500

U.23K-U.53RL - Spare tie rods for beam

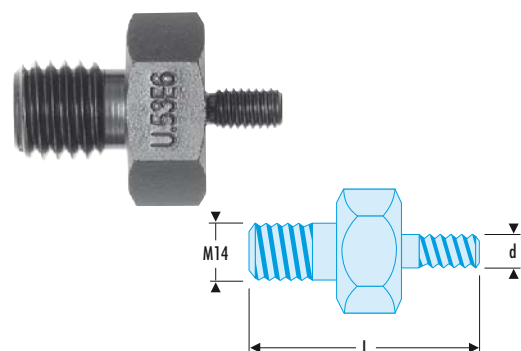


- Tie rods supplied by 2 with chrome-plated tips, nuts and washers.

⇒	d [mm]	L [mm]	Beams	ΔΔ [kg]
U.23K1A-03	M8 x 1,25	95	U.23K1A	0,050
U.53KL0-02	M8 x 1,25	155	U.53KL0	0,050
U.53R1L	M10 x 1,50	205	U.53K1	0,200
U.53R2L	M16 x 2,00	275	U.53K2 - U.53KL2 - U.53S2A	0,500
U.53R3L	M20 x 2,50	350	U.53K3	1,200
U.53R4LA	M22 x 2,50	420	U.53K4 - U.53S4A	1,700

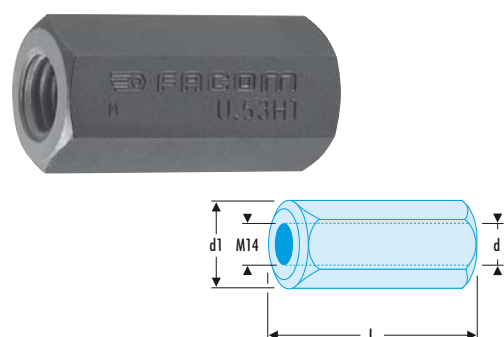
Accessories for beam pullers

U.53E - Threaded tips



⇒	d [mm]	L [mm]	ΔΔ [kg]
U.53E4	4	33,5	0,050
U.53E5	5	33,5	0,050
U.53E6	6	36,5	0,050
U.53E8	8	39,5	0,050
U.53E10	10	42,5	0,055
U.53E12	12	46,6	0,060
U.53E14	14	48,5	0,070

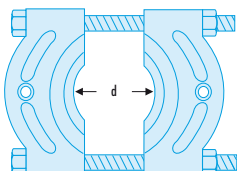
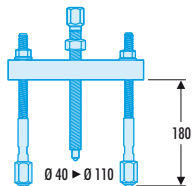
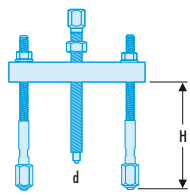
U.53H - Adaptors for threaded tips



⇒	d [mm]	d1 [mm]	L [mm]	ΔΔ [kg]
U.53H1	M10 x 1,5	23	50	0,130
U.53H2	M16 x 2,0	23	50	0,110
U.53H3	1/2" - 20 UNF	23	50	0,120

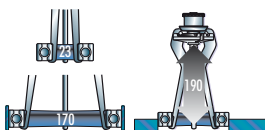
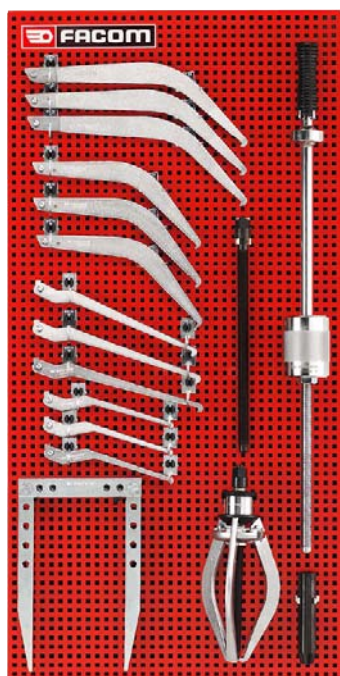
Workshop boards

U.JA1 Light engineering puller kit



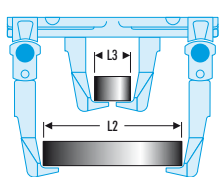
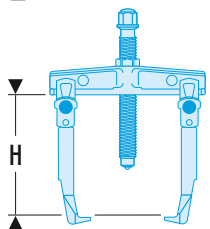
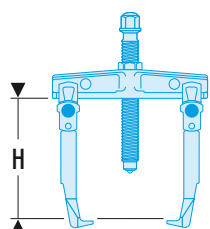
- Comprising:
 - 2 slim leg pullers for outside grip = U.301 and U.302 (spread 10 to 80 mm).
 - 4 clamps for inside grip = U.49P1 to U.49P4 (spread 6.5 to 18 mm).
 - 1 slide hammer U.49L.
 - 1 separator for difficult outside grip = U.53T1 (spread 5 to 60 mm) and its beam U.53K1.
- Presented on the PK.2 panel.
- Dimensions: 444 x 444 mm.
- Weight: 4.300 kg.

U.J2 4-Tonne kit

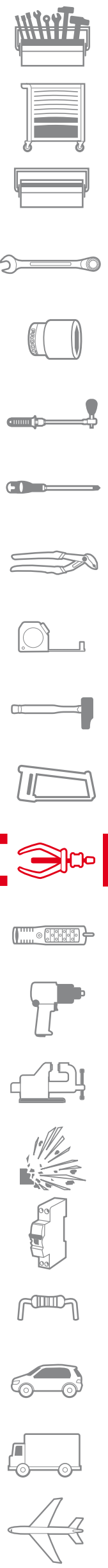


- Comprising:
 - 1 clamp puller for outside grip = U.306A140 (spread 7 to 140 mm).
 - 2 sets of 3 long legs for outside grip = U.306G10 (spread 10 to 180 mm) and U.306G15 (spread 20 to 260 mm).
 - 2 sets of 3 legs for inside grip = U.306G2 (spread 23 to 130 mm) and U.306G20 (spread 60 to 170 mm).
 - 1 long screw with tip U.306-3.
 - 1 beam U.40 (attached using ring and nut U.306A1, supplied with the kit).
 - 1 slide hammer U.306M.
- Presented on the PK.1 panel.
- Dimensions: 444 x 888 mm.
- Weight: 12.400 kg.

U.JA3 General engineering puller kit



- Comprising:
 - 1 sliding leg puller = U.32T6-20 outside grip (spread 20 to 200 mm) / inside grip (spread 130 to 290 mm).
 - 1 separator U.53T2 (spread 15 to 110 mm) and the beam U.53K2.
 - 4 clamps U.49P5 to U.49P8 (spread 18 to 50 mm).
 - 1 slide hammer U.306M with adaptor tip U.49BR1.
 - 1 jack U.33A (capacity 30 tonnes).
- Presented on the PK.1 panel.
- Dimensions: 444 x 888 mm.
- Weight: 15.500 kg.



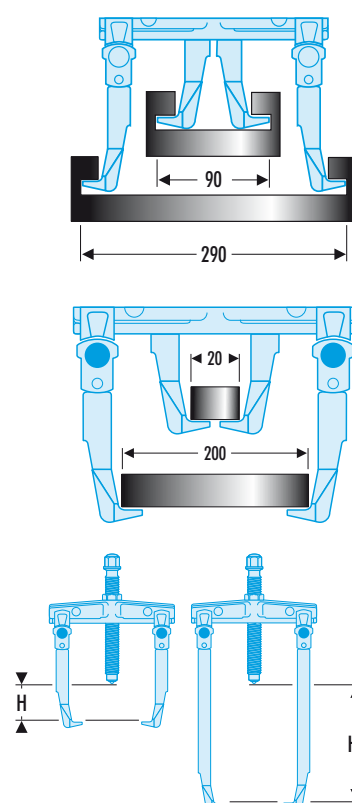
Case kits

U.301BJ1 Light engineering puller kit



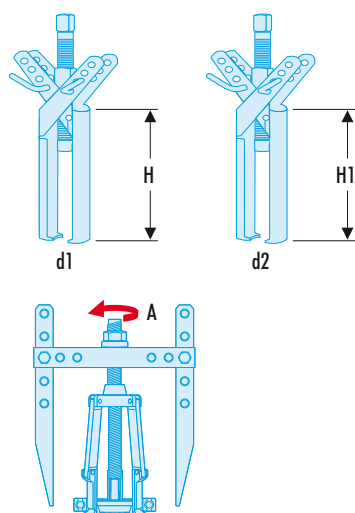
- Comprising:
 - 1 leg puller U.301 for outside grip pulling (spread 10 to 80 mm).
 - 4 clamps U.49P1 to U.49P4 (spread 6.5 to 18 mm).
 - 1 beam U.53 KLO.
- Supplied in plastic case BP.112 with tray PL.182B.
- Dimensions: 389 x 164 x 66 mm.
- Weight: 2.100 kg.

U.102T General engineering puller kit



- Comprising:
 - U.32T2-8: 2-tonne sliding-leg puller and set of long legs; reach P1: 105 mm, P2: 185 mm.
 - U.32T6-20: 6-tonne sliding-leg puller and set of long legs; reach P1: 150 mm, P2: 280 mm.
 - U.53T2: separator (spread 15 to 110 mm).
 - U.33A: 30 tonne jack.
- Supplied in metal case. BT.108 with tray PL.287 (removable tray) and PL.288 (box bottom tray).
- Dimensions: 450 x 270 x 110 mm.
- Weight: 14.500 kg.

U.103A Medium power engineering puller kit



- This complete set offering normal pulling power for all general engineering applications.
- Comprising:
 - U.35L (spread 15 to 75 mm) and U.34 (spread 40 to 180 mm): wide leg pullers for outside grip pulling.
 - U.51B: bearing inside puller (spread: 32 to 70 mm).
 - U.40: beam.
 - U.33A: 30 tonne jack.
- Supplied in a steel case BT.108 with tray PL.195A.
- Dimensions: 452 x 286 x 111 mm.
- Weight: 13.300 kg.

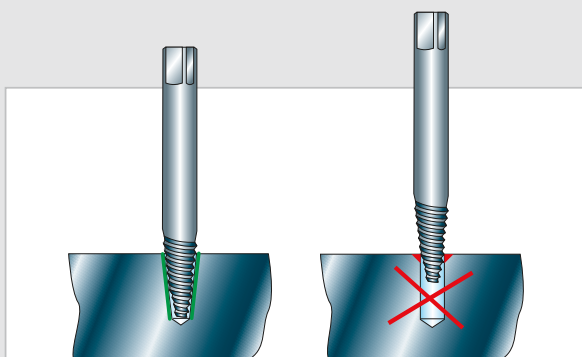
Stud pullers

285

STUD EXTRACTORS

FOR REMOVING SHEARED RIGHT-HAND THREAD STUDS

- 285 stud extractors are designed exclusively for use on right-hand thread struts (99% of cases).
- The extractors' tapered shape requires the use of cone bits. Using traditional cylindrical bits reduces the contact surface between the extractor and the stud, greatly increasing the risk of extractor breaking in the stud.



- Choose the extractor and corresponding drill bit according to the diameter of the stud to be removed.



- Push in then unscrew using the corresponding stud extractor.



- Drill with a 285.F cone bit.



- The stud is removed

285.J - Set of stud pullers, right-hand pitch



285.J10



285.JS10

285.J5

- 285.J10: Set of 5 stud pullers + 5 appropriate tapered and tap wrench 831.1 (use with the 4 small pullers only). Tray PL.464.
- 285.JS10: Set of 5 stud pullers and 5 adapted tapered drill-bits, supplied on stand.
- 285.JS5: Set of 5 stud pullers, supplied on stand.
- Supplied in plastic case BP.104
- Dimensions: 204 x 122 x 52 mm.

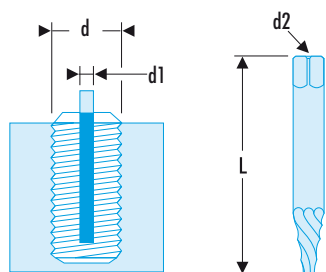
Icon	L x l x H [mm]	d mini - maxi [mm]	Drill Bits	Conditioning	ΔΔ [kg]
	204 x 122 x 52	3 - 18	285.4-5-6-8-11 - 285.F1-F2-F3-F4-F5	BP.102 + PL.464	0,470
	100 x 90 x 25	3 - 18	285.4-5-6-8-11 - 285.F1-F2-F3-F4-F5	CKS.25A x 2	0,290
	100 x 90 x 25	3 - 18	285.4-5-6-8-11	CKS.25A	0,150

285 - Unit stud pullers, right-hand pitch



- These helical pullers allow pulling after drilling a pre-hole using specific tapered drill-bits 285.F.

Icon	A mini - maxi [mm]	B mini - maxi [mm]	L [mm]	Drill Bits	Square	ΔΔ [kg]
	3 - 6	2,2 - 3,4	55	285.F1	3,0	0,005
	6 - 8	3,7 - 4,3	60	285.F2	4,0	0,010
	8 - 11	4,5 - 5,3	65	285.F3	4,5	0,015
	11 - 14	6,2 - 7,1	75	285.F4	6,0	0,025
	14 - 18	8,6 - 9,8	85	285.F5	8,5	0,050
	18 - 24	11,0 - 12,5	90	-	10,0	0,085
	24 - 33	14,5 - 16,0	105	-	14,0	0,165
	33 - 50	20,0 - 22,5	120	-	18,0	0,350



285.F - Single tapered drill bits for pullers 285



- These tapered drill-bits allow for drilling suited to tapered stud pullers 285.

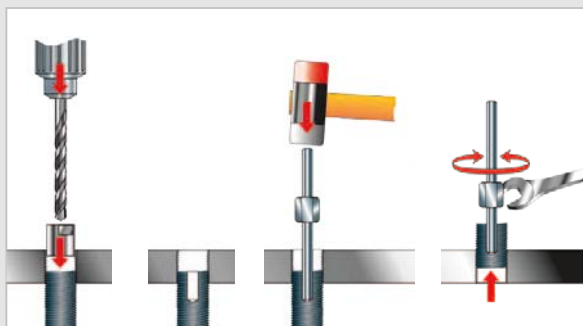
➤	d [mm]	L [mm]	Puller [mm]	ΔΔ [kg]
285.F1	3,5	57	285.4	0,005
285.F2	4,0	63	285.5	0,010
285.F3	5,5	67	285.6	0,010
285.F4	7,5	80	285.8	0,025
285.F5	10,0	86	285.11	0,045

885

STUD EXTRACTORS

FOR REMOVING SHEARED RIGHT-HAND, OR LEFT-HAND THREAD STUDS

- 885 stud extractors are designed exclusively for use on right-hand thread.
- The splined rod has a cylindrical shape and can be drilled using standard (cylindrical) drill bits.



- Choose the extractor and corresponding drill bit according to the diameter of the stud to be removed.



- Drill with a standard 222A.T bit. Insert the splined bit using a mallet 216.40.



- Install the hexagonal shoulder. Loosen with a wrench.



- The stud is removed

885 Set of stud pullers, right or left-hand pitch



- Pulling by drilling and inserting a fluted rod driven by a 6-point.
 - Spread: studs Ø 6 to 14 mm.
 - Right or left-hand pitch.
 - Supplied in case 165 x 130 x 25 mm.
- Weight: 0.540 kg.

885 - Drill bits and pullers for stud pulling



885.F: Drill bits.
885.EH: Pullers.

➤	d [mm]	d ["]	L [mm]	ΔΔ [kg]
885.F1	3,2	1/8	65	0,005
885.F2	4,8	3/16	85	0,010
885.F3	6,3	1/4	100	0,020
885.F4	7,9	5/16	115	0,030
885.F5	8,7	11/32	120	0,040
885.EH1	6,3	1/4	-	0,015
885.EH2	7,9	5/16	-	0,020
885.EH3	9,5	3/8	-	0,035
885.EH4	11,1	7/16	-	0,045
885.EH5	12,7	1/2	-	0,060

Stud pullers

286A - Roller-type stud drivers - Multi-diameter



- Choose the hole suited to the stud diameter.
- Tighten or untighten: thanks to its eccentric shaft, the knob grips the stud, for tightening or untightening.

➤	C mini - maxi [mm]	Square ["]	Dimension [mm]	ΔΔ [kg]
286A	5 - 20	1/2	52 x 54	0,400
286A.PL	15 - 27	3/4	72 x 66	0,950

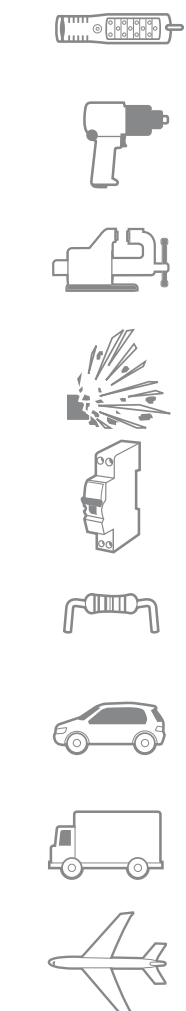
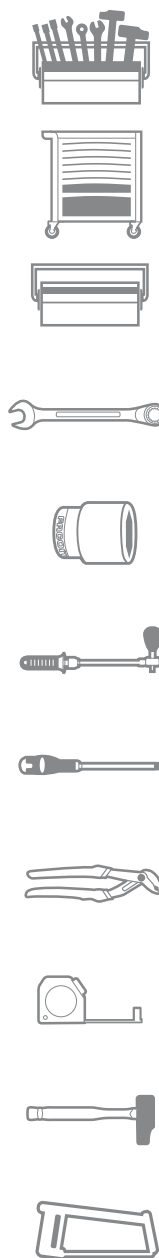
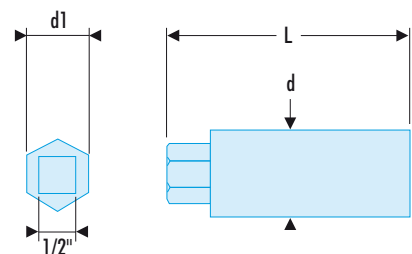


287B - Roller-type stud drivers - Single-diameter



- Capacity: Ø 6 to 16 mm.
- Turned by means of the hexagonal drive or a 1/2" - 12.7 mm ratchet. Except model 287B.16, which has a through-hole for a bar.
- Allows to tighten or untighten the studs.

➤	A maxi [mm]	d [mm]	d1 [mm]	L [mm]	ΔΔ [kg]
287B.6	6	25	22	65	0,165
287B.7	7	25	22	65	0,170
287B.8	8	25	22	65	0,170
287B.9	9	29	22	75	0,245
287B.10	10	29	22	75	0,240
287B.12	12	29	22	75	0,240
287B.14	14	34	27	75	0,310
287B.16	16	34	27	75	0,340



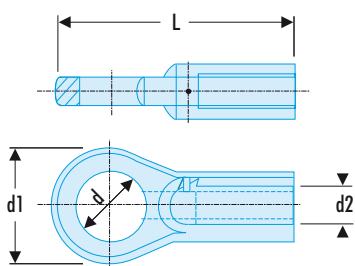
287B.JS5 Set of roller-type stud drivers



- Set of 5 stud drivers to screw and unscrew the M6, M7, M8, M9 and M10 studs (287B.6 to 287B.10).
- Presentation on stand (CKS.73A).
- Dimensions (L x W x H): 155 x 175 x 35 mm.
- Weight: 1.100 kg.

Nut splitter

289 - Nut splitters



- For splitting a worn or jammed nut without damaging the screw thread.
- 289.V1: spare screws for puller 289.19 and 289.30.
- 289.V2: spare screw for 289.36.
- 289.V3: spare screw for 289.54.

FACOM	Screw Size[mm]	d [mm]	d1 [mm]	d2 [mm]	d mini - maxi [mm]	L [mm]	ΔΔ [kg]
289.19	4 - 13	19	31	14 x 150	M2 - M8	92	0,200
289.30	17 - 22	30	50	14 x 150	M10 - M16	104	0,300
289.36	24 - 30	36	62	20 x 150	M18 - M20	156	1,200
289.54	30 - 46	50	90	27 x 300	M20 - M30	198	2,000

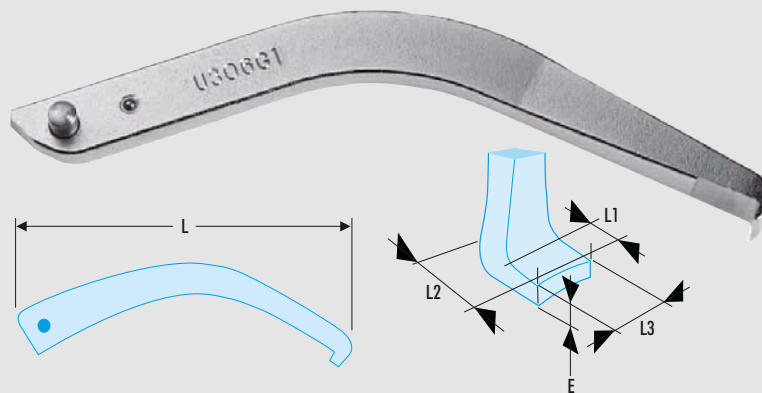
289 Set of 2 nut-splitters for sizes M2 to M8 and M10 to M16



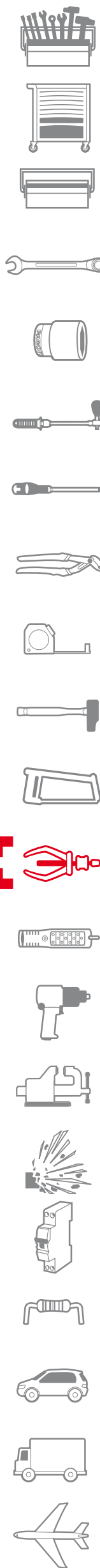
- Comprising:
 - Body 289.19.
 - Body 289.30.
 - Screw 289.V1.
- Supplied on plastic tray PL.173 = 155 x 75 x 35 mm.
- Weight: 0.900 kg.

SPARE LEGS

SPARE PARTS

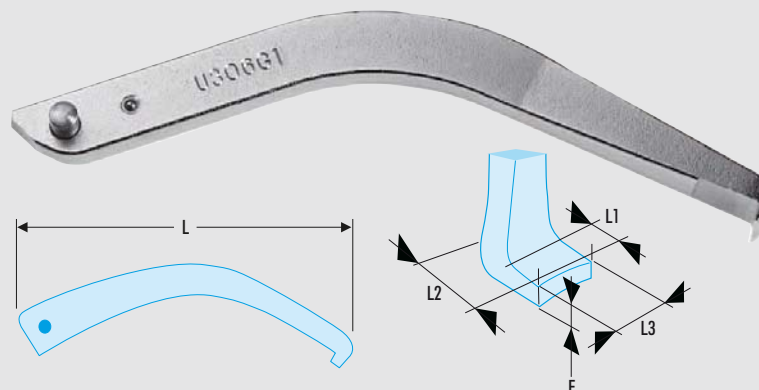


Puller	Leg reference (to be ordered by 2*)	Leg pin	L mm	E mm	L3 mm	L1 mm	L2 mm	kg	For the puller go to page
U.14A	-	-	74	2,5	8	7	16	0,040	645
U.14L	-	-	96	3,5	8	7	17	0,050	645
U.20	U.20SE4	U.20SE3 (set of 6 pins + 12 shear pins)	200	8,5	25	6	19	0,425	635
U.20B	U.20BSE4	U.20SE3 (set of 6 pins + 12 shear pins)	249	6,5	25	6	19	0,590	635
U.27AS3	U.27S (standard leg)	U.27SE2 (set of 12 pins + 12 shear pins)	220	12	26	8	29	0,850	636
U.27AS3	U.27D (long leg)	U.27SE2 (set of 12 pins + 12 shear pins)	330	10	30	7	16	1,520	636
U.27AS3	U.27BS (standard rod + counter-rod)	U.27SE2 (set of 12 pins + 12 shear pins)	275	-	-	-	-	1,800	636
U.27AS3	U.27B (long rod)	U.27SE2 (set of 12 pins + 12 shear pins)	520	-	-	-	-	3,300	636
U.32T2-8	U.32T2GA10	U.32T2DG (complete flasks + screws)	130	3	18	10	19	0,090	643
U.32T2-8	U.32T2GA20	U.32T2DG (complete flasks + screws)	225	3	18	10	19	0,180	643
U.32T2-8	U.32T2GA25	U.32T2DG (complete flasks + screws)	275	3	18	10	19	0,230	643
U.32T2-12	U.32T2GA10	U.32T2DG (complete flasks + screws)	130	3	18	10	19	0,090	643
U.32T2-12	U.32T2GA20	U.32T2DG (complete flasks + screws)	225	3	18	10	19	0,180	643
U.32T2-12	U.32T2GA25	U.32T2DG (complete flasks + screws)	275	3	18	10	19	0,230	643
U.32T6-16	U.32T6GA15	U.32T6DG (complete flasks + screws)	180	5	24,5	14	31	0,280	643
U.32T6-16	U.32T6GA30	U.32T6DG (complete flasks + screws)	335	5	24,5	14	31	0,600	643
U.32T6-20	U.32T6GA15	U.32T6DG (complete flasks + screws)	180	5	24,5	14	31	0,280	643
U.32T6-20	U.32T6GA30	U.32T6DG (complete flasks + screws)	335	5	24,5	14	31	0,600	643
U.32T15-25	U.32T15GA20	U.32T15DG (complete flasks + screws)	250	10	30	20	38	0,660	643
U.32T15-25	U.32T15GA30	U.32T15DG (complete flasks + screws)	345	10	32	20	43	0,990	643
U.32T15-25	U.32T15GA40	U.32T15DG (complete flasks + screws)	445	10	32	20	43	1,590	643
U.32T15-25	U.32T15GA50	U.32T15DG (complete flasks + screws)	545	10	32	20	43	1,800	643
U.32T15-35	U.32T15GA20	U.32T15DG (complete flasks + screws)	250	10	30	20	38	0,660	643
U.32T15-35	U.32T15GA30	U.32T15DG (complete flasks + screws)	345	10	32	20	43	0,990	643
U.32T15-35	U.32T15GA40	U.32T15DG (complete flasks + screws)	445	10	32	20	43	1,590	643
U.32T15-35	U.32T15GA50	U.32T15DG (complete flasks + screws)	545	10	32	20	43	1,800	643
U.32T15-50	U.32T15GA20	U.32T15DG (complete flasks + screws)	250	10	30	20	38	0,660	643
U.32T15-50	U.32T15GA30	U.32T15DG (complete flasks + screws)	345	10	32	20	43	0,990	643
U.32T15-50	U.32T15GA40	U.32T15DG (complete flasks + screws)	445	10	32	20	43	1,590	643
U.32T15-50	U.32T15GA50	U.32T15DG (complete flasks + screws)	545	10	32	20	43	1,800	643



SPARE LEGS

SPARE PARTS



Puller	Leg reference (to be ordered by 2*)	Leg pin	Lmm	Tmm	L3mm	L1mm	L2mm	kg	For the puller go to page
U.34	U.34G (set of 2 legs)	M10 screw x 1.5 x 75 mm head H 17 mm, class 8.8	300	5,5	36	6	15,5	1,750	647
U.35	U.35C (set of 2 legs)	U.35-5J2 (set of 2 shear pins)	155	4	22	3,5	14,5	0,545	647
U.35L	U.35B (set of 2 legs)	U.35-5J2 (set of 2 shear pins)	188	4	22	3,5	14,5	0,705	647
U.35P	U.35D (set of 2 legs)	U.42-5J2 (set of 2 shear pins)	110	2,5	15	3	8,5	0,200	647
U.42	U.42-3	U.42-5J2 (set of 2 shear pins)	145	3	24	3	8	0,220	648
U.42B	U.42B3	U.42-5J2 (set of 2 shear pins)	194	3	24	3	8	0,290	648
U.52	U.52-3	U.35-5J2 (set of 2 shear pins)	198	4,5	25	4	21	0,380	648
U.232-65	U.232G1	-	100	4	8,5	10	16	0,080	645
U.232-90	U.232G2	-	155	5	10	15	24	0,190	645
U.232-130	U.232G2	-	155	5	10	15	24	0,190	645
U.232-160	U.232G3	-	225	8	15	22	33	0,580	645
U.232-210	U.232G3	-	225	8	15	22	33	0,580	645
U.232-270	U.232G4	-	303	11	17,5	25	43	1,550	645
U.232-340	U.232G4	-	303	11	17,5	25	43	1,550	645
U.301	U.301G	-	130	5	8	7	16	0,100	645
U.301-150	-	-	205	6	8	7	17	0,170	645
U.301-200	-	-	270	6	8	7	18	0,280	645
U.301L	-	-	180	4,5	21	7	18	0,220	647
U.301M	-	-	145	4	21	7	18,5	0,160	647
U.301P	-	-	120	4	17	5	12,5	0,120	647
U.302	U.301G	-	130	5	8	7	16	0,100	634
U.302-150	-	-	205	6	8	7	17	0,170	634
U.302-200	-	-	270	6	8	7	18	0,280	634
U.306-170N	U.306G20	-	230	6,5	8	4	12	0,190	632
U.306-180	U.306G10	-	250	5	14	4	13	0,320	632
U.306-260	U.306G15	-	310	6,5	14	4	13	0,450	632
U.306A130N	U.306G2	-	170	4,5	8	3,5	9,5	0,120	632
U.306A140	U.306G1	-	185	4,5	14	4	13	0,210	632
U.310-170	U.310G1	-	230	6	26	5	19	0,560	633
U.310-230N	U.310G3	-	260	10	15	5,5	15	0,360	634
U.310-250	U.310G2	-	310	7	26	5,5	19	0,760	633
U.312H	U.312G110	U.312-04-02 (set of 3 screws + nuts)	150	7	25	15	33	0,400	639
U.312H	U.312G160	U.312-04-02 (set of 3 screws + nuts)	190	7	25	15	36	0,540	639
U.312H	U.312G210	U.312-04-02 (set of 3 screws + nuts)	240	7	25	12	36	0,720	639
U.312H	U.312G260	U.312-04-02 (set of 3 screws + nuts)	285	7	25	12	38	0,980	639
U.320	U.320-13A	U.320GP1 (set of 3 shear pins)	505	5	35,6	16	45	3,100	640
U.320H	U.320-13A	U.320GP1 (set of 3 shear pins)	505	5	35,6	16	45	3,100	640
U.330	U.330-08	U.320GP1 (set of 3 shear pins)	690	8,5	37,5	15,5	45	6,300	640
U.330H	U.330-08	U.320GP1 (set of 3 shear pins)	690	8,5	37,5	15,5	45	6,300	640

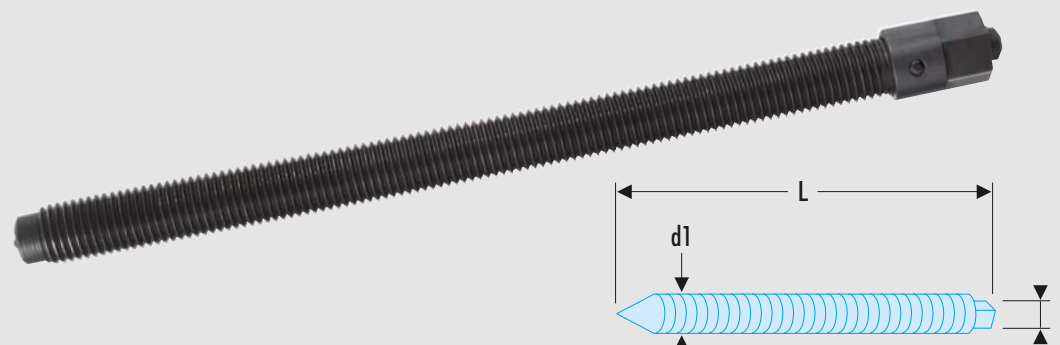
* except U.35B, U.35C, U.35D and U.34: set containing the inside leg and outside leg.



- For your safety, we recommend that all the legs are replaced in the event of a problem.
- Do not modify nor grind the puller legs. Modifications can be very dangerous for the user and invalidates the guarantee.
- Wherever possible, select a 3-leg puller for optimum load distribution.

SPARE SCREWS

SPARE PARTS



Puller	Individual screw reference	Screw extension	L length screw mm	d1 mm	d mm	Shear pin	Shear pin strength	kg	For the puller go to page
U.14A	U.14A04	-	105	M10 x 1,5	Spindle	-	-	0,070	645
U.14L	U.14A04	-	105	M10 x 1,5	Spindle	-	-	0,070	645
U.20	U.20-1S	-	290	M22 x 2,5	24	U.306-24J3	7T	0,750	635
U.20B	U.20B1S	-	355	M22 x 2,5	24	U.306-24J3	7T	0,940	635
U.27AS3	U.27-6	-	525	M32 X 2,5	35	-	-	2,985	636
U.28	U.28-1*	*	300	M22 x 2,0	24	-	-	0,480	651
U.32T2-8	U.32T2-1	-	167	M16 x 2,0	13	-	-	0,190	643
U.32T2-12	U.32T2-1	-	167	M16 x 2,0	13	-	-	0,190	643
U.32T6-16	U.32T6-1	-	255	M22 x 2,0	24	-	-	0,650	643
U.32T6-20	U.32T6-1	-	255	M22 x 2,0	24	-	-	0,650	643
U.32T15-25	U.32T15-1	-	330	M32 X 2,5	35	-	-	1,850	643
U.32T15-35	U.32T15-2	-	430	M32 X 2,5	35	-	-	2,400	643
U.32T15-50	U.32T15-2	-	430	M32 X 2,5	35	-	-	2,400	643
U.34	U.20B1	-	360	M22 x 2,0	24	-	-	0,95	647
U.35	U.35SE1	-	183	M16 x 2,0	17	-	-	0,200	647
U.35L	U.35SE1	U.35SE3	183	M16 x 2,0	17	-	-	0,200	647
U.35P	U.35P01	-	135	M12 x 1,75	13	-	-	0,100	647
U.42	U.42-1	-	215	M16 x 2,0	13	-	-	0,250	648
U.42B	U.42-1	-	215	M16 x 2,0	13	-	-	0,250	648
U.51B	U.51B2**	**	290	M18 x 2,5	19	-	-	0,460	650
U.52	U.52-1	-	240	M18 x 2,5	17	-	-	0,390	648
U.232-65	U.35P01	-	132	M12 x 1,75	13	-	-	0,100	645
U.232-90	U.35SE1	-	183	M16 x 2,0	17	-	-	0,200	645
U.232-130	U.35SE1	-	183	M16 x 2,0	17	-	-	0,200	645
U.232-160	U.53S2A07	-	283	M20 x 2,5	17	-	-	0,470	645
U.232-210	U.53S2A07	-	283	M20 x 2,5	17	-	-	0,470	645
U.232-270	U.53S3-07	-	345	M27 x 3,0	21	-	-	1,280	645
U.232-340	U.53S3-07	-	345	M27 x 3,0	21	-	-	1,280	645
U.301	U.301-04	-	142	M12 x 1,75	10	-	-	0,090	645
U.301-150	U.301-04-150	-	212	M12 x 1,75	10	-	-	0,150	645
U.301-200	U.301-04-200	-	286	M16 x 2,0	13	-	-	0,350	645
U.301L	U.301L04	-	210	M12 x 1,75	10	-	-	0,170	647
U.301M	U.301M04	-	167	M12 x 1,75	10	-	-	0,130	647
U.301P	U.301P04	-	144	M12 x 1,75	10	-	-	0,120	647
U.302	U.301-04	-	142	M12 x 1,75	10	-	-	0,090	634
U.302-150	U.301-04-150	-	212	M12 x 1,75	10	-	-	0,150	634
U.302-200	U.301-04-200	-	286	M16 x 2,0	13	-	-	0,350	634
U.306-170N	U.306-2	-	310	M16 x 2,0	18	U.306-244J3 (set of 3 shear pins)	4T	0,310	632
U.306-180	U.306-2	-	310	M16 x 2,0	18	U.306-244J3 (set of 3 shear pins)	4T	0,310	632
U.306-260	U.306-3***	***	370	M16 x 2,0	18	U.306-24J3 (set of 3 shear pins)	7T	0,370	632
U.306A130N	U.306-4	-	250	M16 x 2,0	18	U.306-243J3 (set of 3 shear pins)	3T	0,250	632
U.306A140	U.306-4	-	250	M16 x 2,0	18	U.306-243J3 (set of 3 shear pins)	3T	0,250	632
U.310-170	U.20B1	-	360	M22 x 2,0	24	-	-	0,95	633
U.310-230N	U.20B1	-	360	M22 x 2,0	24	-	-	0,95	634
U.310-250	U.310-250-10	-	400	M22 x 2,0	24	-	-	0,950	633
U.320	U.320-01	U.320-14	500	M30 x 3,0	36	-	-	2,500	637
U.320H	UWG.320H01	-	590	M27 x 3,0	21	-	-	2,255	640
U.330	U.330-02	U.330-14	650	M36 x 3,0	41	-	-	4,700	637
U.330H	UWG.330H01	-	780	M33 x 3,5	24	-	-	4,400	640

* the U.28-1 screw is supplied with the ring and nut.

** the U.51B2 screw is supplied with the ring and nut.

*** the U.306-3 screw is supplied with its extension.

