



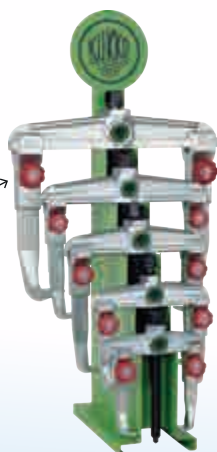
Extratores de 2 braços series 20



CÓDIGO	MODELO	 mm	 mm	 mm	 mm	max. t	max. Nm
45009433	20 - 1	90	100	70 - 140	17	4,5	80
45009921	20 - 10	120	100	70 - 180	17	4,5	80
45009501	20 - 2	160	150	100 - 220	22	6,0	150
45010088	20 - 20	200	150	100 - 260	22	6,0	150
45009686	20 - 3	250	200	180 - 340	27	8,5	300
45010163	20 - 30	350	200	180 - 440	27	8,5	300
45009761	20 - 4	520	200	200 - 590	36	12,0	400

Expositor p/ extratores de 2 braços series 20-ST+

Ajuste rápido
(não precisa de chaves)



Cod. 45668944

Jogo de extratores universais de 2 e 3 braços K-2030-10

Setores:



Cod. 45974748

Extratores universais de 3 braços series 30



CÓDIGO	MODELO	 mm	 mm	 mm	 mm	max. t	max. Nm
45013393	30 - 1	90	100	70 - 140	17	6	80
45013621	30 - 10	130	100	70 - 180	17	6	80
45013478	30 - 2	160	150	100 - 220	22	7	150
45013706	30 - 20	200	150	100 - 260	22	7	150
45013546	30 - 3	250	200	180 - 340	27	10	250
45303005	30 - 30	350	200	180 - 440	27	10	250
45303302	30 - 4	375	200	200 - 500	36	15	500



Extratores universais de 2 braços c/ ganchos giratórios series 41



CÓDIGO	MODELO	mm	mm	mm	max. t	max. Nm
45362859	41 - 0	60	40	13	1,0	25
45015038	41 - 1	65	65	-	1,0	25
45015113	41 - 2	80	80	-	1,5	25
45787829	41 - 3	90	120	13	3,0	40
45836268	41 - 4	130	160	17	5,0	85
45836343	41 - 5	180	200	22	7,0	150

Extratores universais de 3 braços c/ ganchos giratórios series 42



CÓDIGO	MODELO	mm	mm	mm	max. t	max. Nm
45362026	42 - 0	60	40	13	1,5	25
45015298	42 - 1	65	65	-	1,5	25
45015373	42 - 2	80	80	-	1,5	25
45787904	42 - 3	90	120	13	3,0	40
45836428	42 - 4	130	160	17	5,0	85
45836596	42 - 5	180	200	22	7,0	150

Extratores p/ peças pequenas series 43-001



Setores:



CÓDIGO	MODELO	mm	mm	mm	mm	mm
45913518	43 - 001	60	50	1,5	10	4,5

Extratores p/ peças pequenas de 3 braços c/ ganchos autocentrantes series 43-011



Setores:



CÓDIGO	MODELO	mm	mm	mm	mm	mm
45913501	43 - 011	60	50	1,5	10	4,5



Extratores universais de 2 braços c/ ganchos autocentrantes series 43



CÓDIGO	MODELO	mm	mm	max. t	max. Nm
45015458	43 - 1	60	50	1	25
45015861	43 - 2	70	70	1	25
45015946	43 - 3	80	80	1	25

Extratores universais de 3 braços c/ ganchos autocentrantes series 43



CÓDIGO	MODELO	mm	mm	max. t	max. Nm
45015526	43 - 11	60	50	1,5	25
45015601	43 - 12	70	70	1,5	25
45015786	43 - 13	80	80	1,5	25

Extratores universais de 2 braços c/ ganchos autocentrantes series 44



CÓDIGO	MODELO	mm	mm	mm	max. t	max. Nm
45016028	44 - 1	100	100	13	3	50
45016103	44 - 2	120	120	17	5	85
45016288	44 - 3	160	160	19	6	140
45016363	44 - 4	250	200	24	7	190
45815133	44 - 5	300	250	24	9,5	200
45815218	44 - 6	375	275	24	9,5	200

Extratores universais de 3 braços c/ ganchos autocentrantes series 45



CÓDIGO	MODELO	mm	mm	max. t	max. Nm
45016448	45 - 1	100	100	4	50
45016516	45 - 2	120	120	6	120
45016691	45 - 3	160	160	8	180
45016776	45 - 4	250	200	9,5	200
45815393	45 - 5	300	250	9,5	200
45815478	45 - 6	375	275	9,5	200
45821646	45 - 7	600	350	9,5	200



Extratores universais de 2 braços c/ ganchos reversíveis series 201



CÓDIGO	MODELO	mm	mm	mm	mm	max. t	max. Nm
45026423	201-0	100	75	1	14	1,5	25
45026591	201-1	150	85	1	17	5	75
45026676	201-2	220	130	1	22	7	150
45026751	201-3	300	260	2	27	10	250
45026836	201-4	380	300	2	27	10	250

Extratores de 3 braços c/ ganchos reversíveis series 202



CÓDIGO	MODELO	mm	mm	mm	mm	max. t	max. Nm
45027093	202-0	100	75	1	14	1,5	25
45027178	202-1	150	85	1	17	5	75
45027253	202-2	220	130	1	22	7	150
45027338	202-3	300	260	2	27	10	250
45027413	202-4	380	300	2	27	10	250

Extratores combinados de 3 braços c/ ganchos reversíveis series 203



CÓDIGO	MODELO	mm	mm	mm	mm	max. t	max. Nm
45027666	203-0	120	75	1	14	1,5	25
45027741	203-1	180	85	1	17	5	75
45027826	203-2	280	130	1	22	7	150
45027901	203-3	350	260	2	27	10	250
45027083	203-4	400	300	2	27	10	250

Extratores c/ rolamentos de 2 braços c/ parafuso de fixação lateral series 204-0



204 - 0

204 - 02

CÓDIGO	MODELO	mm	mm	mm	max. t	max. Nm
45028168	204-0	50	70	-	1	10
45339516	204-02	90	100	22	4	75



Extratores interiores series 21



CÓDIGO	MODELO	mm	mm	mm	
45010408	21 - 0	5 - 8	14	73	2
45010576	21 - 00	6 - 10	14	73	2
45016651	21 - 01	8 - 12	14	73	2
45010736	21 - 02	10 - 14	14	73	2
45010811	21 - 1	12 - 16	25	72	2
45010996	21 - 2	14 - 19	27	72	2
45011153	21 - 3	18 - 23	35	89	2
45011238	21 - 4	20 - 30	40	92	2
45011498	21 - 5	28 - 40	23	101	2
45011566	21 - 6	35 - 46	50	113	2
45011641	21 - 7	45 - 58	85	135	2
45011726	21 - 8	56 - 70	85	133	2
45011986	21 - 9	70 - 100	95	166	2
45011801	21 - 89	56 - 110	120	187	2
45012068	21 - 90	100 - 200	175	220	2

Martelos de correia series 22



CÓDIGO	MODELO	mm	mm	mm
45012143	22 - 0	240	M10	M7 / M10
45555558	22 - 0 - 1	320	M16 x 1,5	M10; 15 x 16 Gang; G1/2"
45111204	22 - 0 - 2	700	G1/2"	G1/2"; G3/4"

Jogo de extractores interiores c/ rolamentos e martelo de correia series 26



CÓDIGO	MODELO	mm	mm	mm	nº peças	
45781629	26 - A	6 - 19	290	M12	8	i-Boxx
45781704	26 - B	12 - 40	320	M16 x 1,5	7	i-Boxx



The 2- and 3-arm puller set , K-2030-1+S now with two different pulling hooks types and Quick Adjust technology **45201677**



8- in-1 set

The newly assembled K-2030-1+S set can combine various pulling hooks and extensions to create 8 different puller models from just one set.

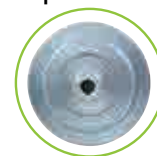
Standard



S-hooks



three pressure pieces



Product features:

- This set contains the basic equipment for the 2- and 3-arm pullers needed in every workshop. Additionally the set is now equipped with two pulling hook variants.
- The extensions included can increase the pullers' clamping depth up to **200 mm**.
- Two arm version for space-saving work. Three arms ensure even load distribution for an especially secure hold on the part to be pulled.
- In any position it is used, this model's design allows parallel pulling hooks, even under a full load.
- The part to be pulled lies only on the support surfaces of the pulling hooks and is pulled off gently.
- The cross-bars have a hexagonal profile, allowing use of a wrench for counterholding, when needed.
- The spindle heads have a band that prevents the wrench (which is provided with the set) from slipping during the extracting process. The spindle is lasered with the part number.
- The pressure pieces are used when the shaft is hollow and there is no support possibility for the pressure spindle as a result.

Application:

- For universal use when pulling off transmission gears, bearings, pinions and synchronizer bodies.
- By turning the pulling hooks, the pullers can be used both externally and internally.
- Also suitable for pulling asymmetrical workpieces.

Technologies:

- The Quick Adjust technology ensures fast, trouble-free conversion. The knurled manual adjustment knobs allow the pulling hooks to be loosened and slid easily on the crossbar without a wrench.
- The cross-hooks guarantee maximum stability due to the mounting of the puller arms in the sliding part. (**ArmLock technology**).





POSSIBLE COMBINATIONS					
		mm	mm	mm	mm
S-hooks					
		90	100		
		90	200		
Standard-hooks					
		90	100		
		90	200		

HOOK TYPES INCLUDED IN THE SET					
Puller hook claw dimensions			Puller hook claw dimensions		
Standard		A= 3,0 mm B= 20 mm C= 15 mm D= 31 mm E= 10 mm	S-hooks		A= 2,6 mm B= 30 mm C= 7 mm D= 14 mm



Expositor
Sector indústria
c/ 49 unidades

45487842

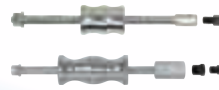


Composto por:

9-1 e 8-01



22-0 e 22-0-1



44-1 e 44-3



12-1 e 12-2



22-1 e 22-2



55-0, 55-1, 55-2
55-3, 55-4



14-3



30-1+S e 30-2+S



56-2



17-0 e 17-1



41-0, 41-2 e 41-3



70-A



18-0 e 18-1



42-0, 42-2 e 42-3



204-0 e 204-02



20-10+ e 20-20+



43-1 e 43-3



210-1



20-1+S-T



43-11



219-1



21-0, 21-01, 21-1, 21-2, 21-3, 21-4, 21-5 e 21-6



K-2030-10+S+T





Expositor Sector automóvel c/ 40 unidades

45487873



Composto por:

9-1 e 8-01



48



129-0-25 e 129-1



9-2



128-F-SW



129-3 e 129-5



20-10+, 20-20+
e 20-3+



54-2 e 54-3



204-0 e 204-V



20-1+S+T



17-1 e 18-1



22-0 e 22-0-1



210-1 e 210-2



128-2 e 128-3



22-1 e 22-2



43-3 e 43-13



128-4 e 128-5



K-204-V-210-1



21-1, 21-2, 21-3, 21-4, 21-5, 21-6, e 21-7




K-2030-10+S+T




Grampo em ferro fundido c/ punho em madeira series 503



CÓDIGO	MODELO	F' mm	mm	
45T520274	503 - 016	150 x 80	22 x 6	6
45T520359	503 - 020	200 x 80	22 x 6	6
45T520434	503 - 025	250 x 80	22 x 6	6
45T520502	503 - 030	300 x 80	22 x 6	6
45T520687	503 - 040	400 x 80	22 x 6	6
45T009519	503 - 120	200 x 100	27 x 7	6
45T225421	503 - 125	250 x 100	27 x 7	6
45T000240	503 - 130	300 x 100	27 x 7	6
45T000257	503 - 140	400 x 100	27 x 7	6


Grampo em ferro fundido c/ punho em madeira series 504



CÓDIGO	MODELO	F' mm	mm	
45T502294	504 - 020	200 x 120	30 x 8	10
45T502379	504 - 025	250 x 120	30 x 8	10
45T502454	504 - 030	300 x 120	30 x 8	10
45T502522	504 - 040	400 x 120	30 x 8	10
45T502607	504 - 050	500 x 120	30 x 8	10
45T502782	504 - 060	600 x 120	30 x 8	6
45T502867	504 - 080	800 x 120	30 x 8	6
45T502942	504 - 100	1000 x 120	30 x 8	6
45T503024	504 - 125	1250 x 120	30 x 8	6
45T503043	504 - 150	1500 x 120	30 x 8	6
45T009564	504 - 303	300 x 140	32 x 10	6
45T225544	504 - 304	400 x 140	32 x 10	6
45T225551	504 - 305	500 x 140	32 x 10	6
45T225575	504 - 306	600 x 140	32 x 10	6
45T225582	504 - 308	800 x 140	32 x 10	6
45T225599	504 - 310	1000 x 140	32 x 10	6
45T009625	504 - 404	400 x 175	32 x 10	6
45T009632	504 - 405	500 x 175	32 x 10	6
45T009649	504 - 406	600 x 175	32 x 10	6
45T009656	504 - 408	800 x 175	32 x 10	6
45T009663	504 - 410	1000 x 175	32 x 10	6

Grampo em aço c/ punho em tricomponente series 490+



CÓDIGO	MODELO	F' mm	mm	
45034498	490+0100-050	100 x 50	15 x 5	10
45034566	490+0120-065	120 x 65	22 x 6	10
45034702	490+0160-080	160 x 80	22 x 6	10
45035174	490+0200-100	200 x 100	30 x 8	10
45035310	490+0250-120	250 x 120	30 x 8	10
45035617	490+0300-140	300 x 140	35 x 9	10
45036232	490+0400-175	400 x 175	35 x 9	5