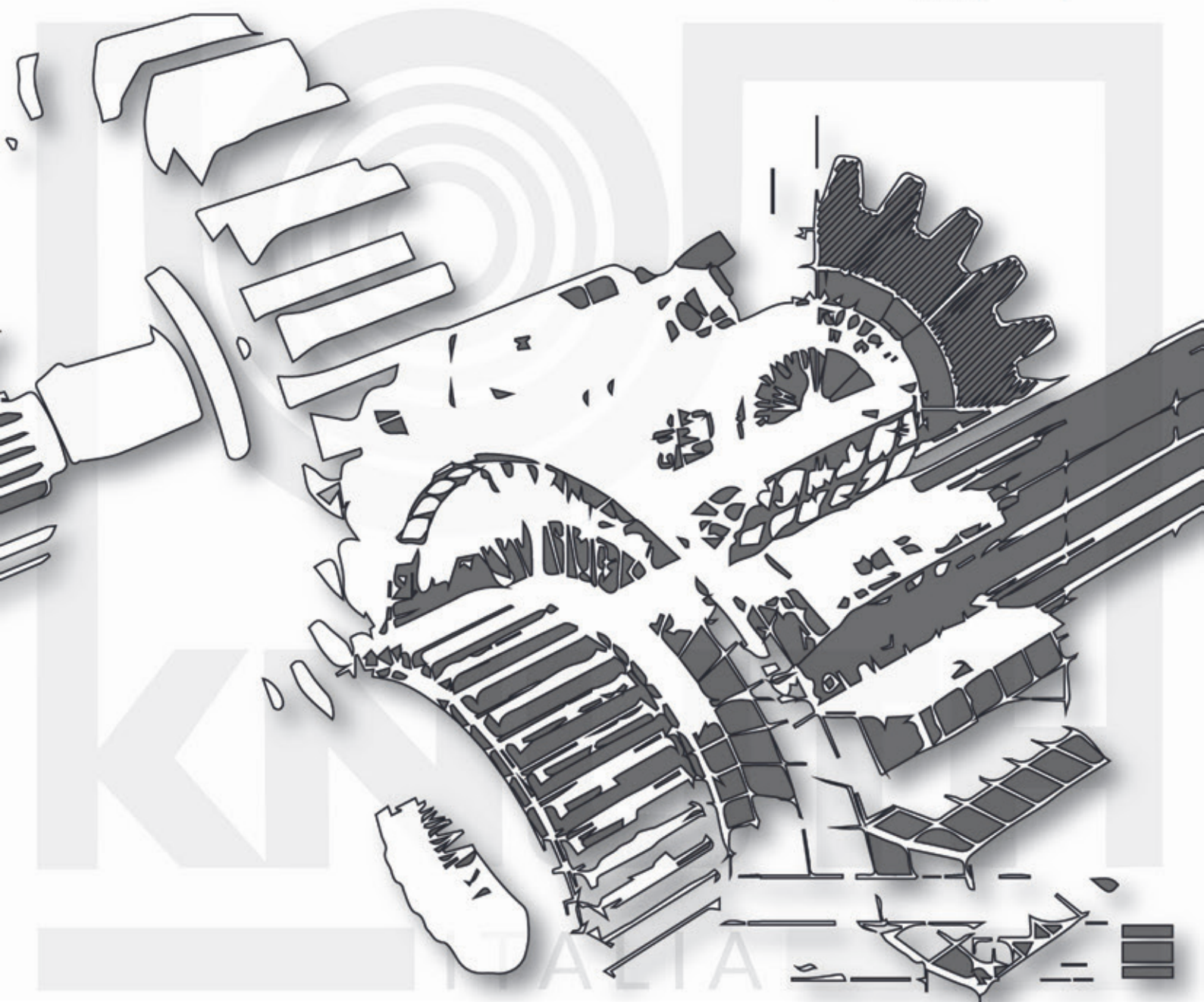




**VENDITA, ASSISTENZA
E MANUTENZIONE**

Load Guidance		L 6	L 12
load capacity	t	6	12
number of rollers	pcs.	8	8
roller material		plastic	steel
dimensions	mm	630 x 400 x 115	630 x 410 x 100
intrinsic weight	kg	50	66
Part No.		140 206	140 212

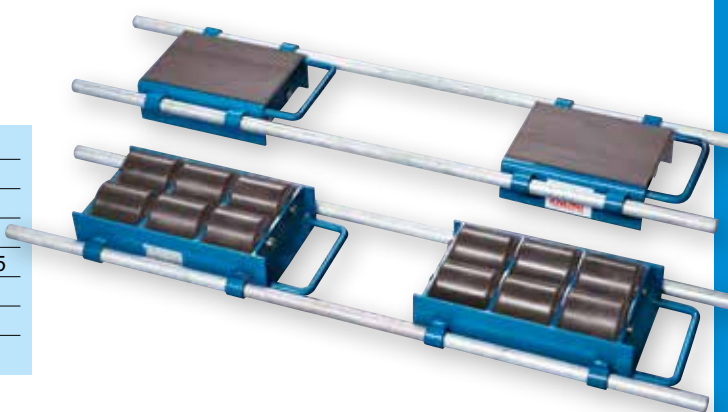


Load Rollers, adjustable

R 6 • R 12

For machine transportation, at least one load control and one adjustable load roller will be required. For example: L6 and R6 (total load capacity 12 t)

Adjustable Load Rollers		R 6	R 12
load capacity	t	6	12
number of rollers	pcs.	8	12
roller material		plastic	plastic
dimensions	mm	250 x 200 x 115	350 x 200 x 115
intrinsic weight	kg	30	38
Part No.		140 106	140 112



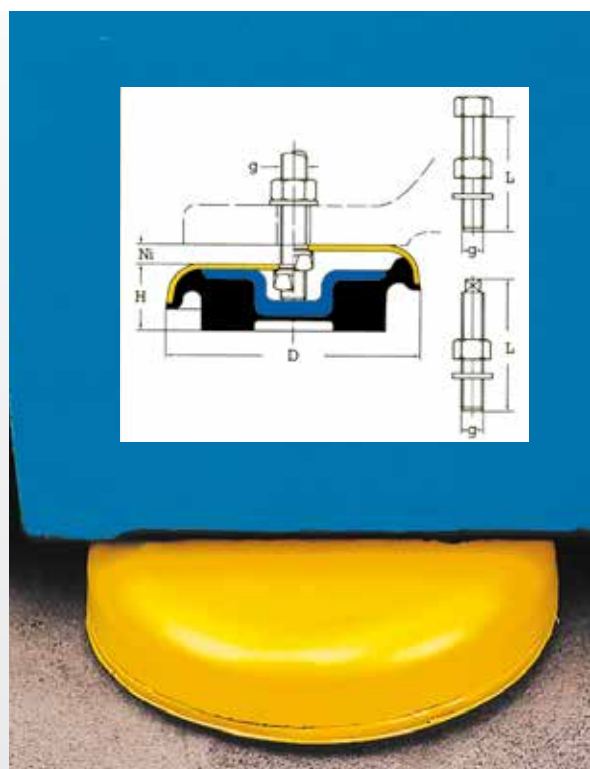
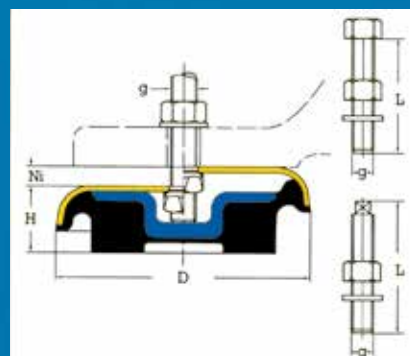
Pivoted Mounts

LK

- damper elements absorb shock and vibration
- vibration-free machine operation
- set screws allow for easy machine alignment

	NI	D	H	L	g
LK 3	12	120	32	100	M 12
LK 5	12	160	35	120	M 16
LK 6	12	180	39	160	M 20

Specifications load capacity per element (kg)	LK 3	LK 5	LK 6
Lathes	270	380	900
Milling machines	370	500	1,600
Surface grinders	500	900	2,400
Punch press / strokes 100	420	800	2,000
Punch press / strokes 150	260	400	1,000
Punch press / strokes 200	180	200	450
Part No.	103 330	103 331	103 332



Excellent illumination with low energy consumption and long service life

- a true advancement in lighting technology – perfect for any production situation, where good lighting is needed
- the high-power LED module generates light with a color temperature corresponding to natural light; it is vibration and shock resistant and provides a mean service life of 50.000 hours – ideal for harsh operating conditions
- LED lights provide virtually the same light intensity as conventional halogen lights, but they save energy and cost
- the lamp enclosures are very rugged and protected against ingress of water, oil and dust (IP 65)



LED - Strip Lights and Ring Lights

- strong magnets on the back ensure quick mounting and reliable hold even in areas that are difficult to access, like angles and corners
- 12 / 24 Volt supply directly from the control cabinet via included mains transformer and cable

Specifications		LED rings			LED strips			
dimensions	mm	85	100	200	270	570	870	1120
Part No.		670 600	670 601	670 602	670 603	670 604	670 605	670 606



Specifications		LED flex	LED 100	LED 280	LED 400
arm length	mm	500	-	320 + 280	320 + 400
light source		HI POWER LED 3 W / 3 bulbs	HI POWER LED 1 W / 8 bulbs	HI POWER LED 1 W / 8 bulbs	HI POWER LED 1 W / 8 bulbs
service life	hours	50000	50000	50000	50000
light angle		30°	70°	70°	70°
color temperature	K	6000-7000	6000-7000	6000-7000	6000-7000
light intensity		>1100 LUX (700)	>1100 LUX (700)	>1100 LUX (700)	>1100 LUX (700)
surface temperature		<50°	<50°	<50°	<50°
voltage	V	AC/DC24	AC/DC24	AC/DC24	AC/DC24
current	mA	700	700	700	700
power	W	9	8	8	8
IP		IP 65	IP 65	IP 65	IP 65
cable length	m	1.2	1.2	1.2	1.2
Part No.		110 030	110 031	110 032	110 033



- As new addition or for retrofitting machine tools like milling machines and lathes, including measuring machines
- The new generation of displays is more powerful, robust, and reliable
- High-resolution 7" color display and powerful CPU for instant display of all functions and values
- The new generation of displays uses system-on-chip technology to integrate all functions on a chip for a more compact and reliable design
- Easy mounting and maintenance-free operation
- Increased accuracy
- Reduced error rate
- Higher operator safety
- Significant time savings
- Increased productivity
- User-specific functions
- Resolution 0.005 mm
- Default coordinates
- Pocket calculator function
- Conversion mm/inch

Milling Machine Functions:

- Calculation of hole circle pattern
- Calculation of hole line pattern
- Coordinate storage
- Skew coordinate function
- Arc coordinate function
- Radius machining function, simple

Lathe Functions:

- Display of top slide (Z0) and bed slide (Z1) either individually or as differentiation/summation circuit for lathes
- Storage for 9 tools
- Taper function
- Radius / diameter toggle
- Fully compatible with older X.pos scales - upgrade now! X.pos - Increase your productivity, quality, and comfort, available in many languages (English, German, Spanish, Italian, French, Czech, Portuguese, Russian, Turkish, Swedish, Romanian, Japanese, Korean, Arabic, Hindi, and many more)

Art.-Nr. 123461

Mini precision gauges (including metal jacket)

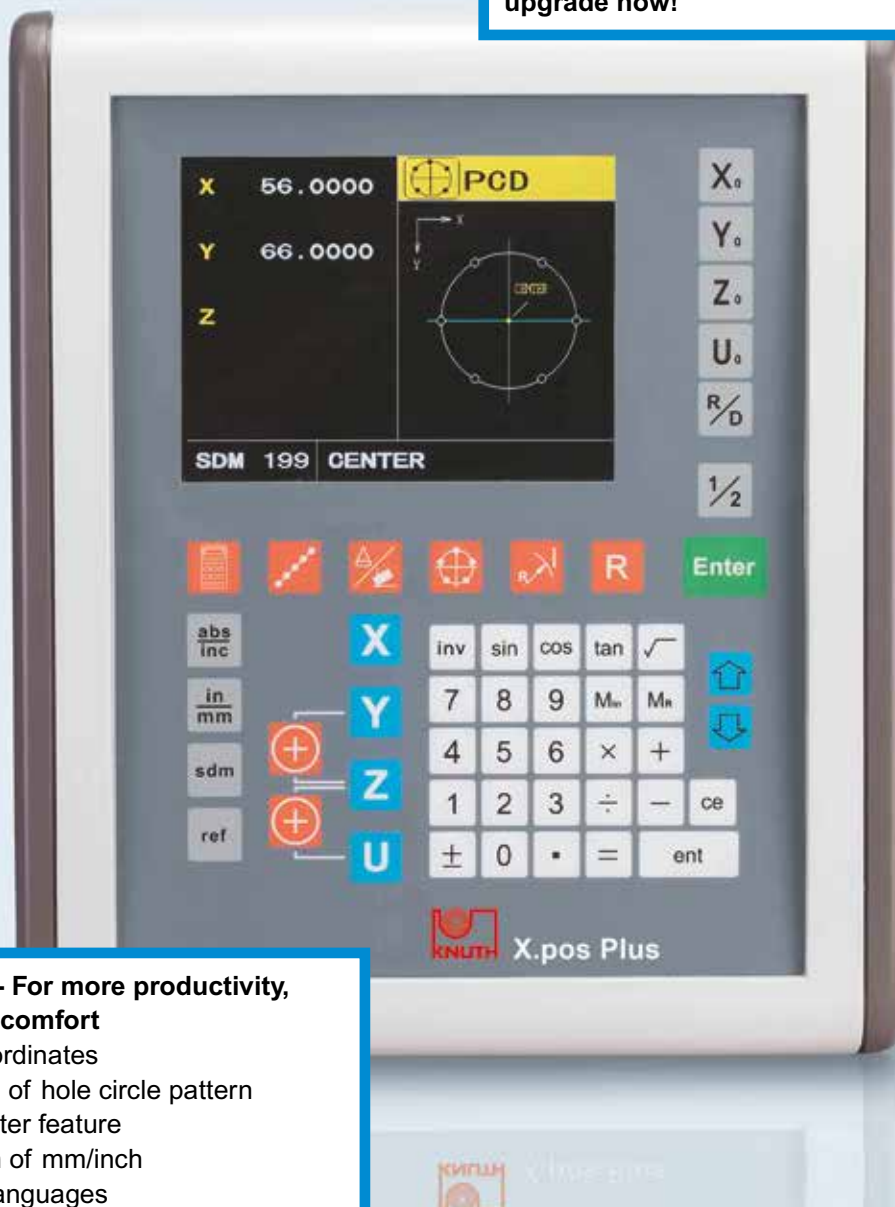
Measuring length*	Part No.
100 mm	111 501
150 mm	111 502
200 mm	111 503
250 mm	111 504
300 mm	111 505
350 mm	111 506
400 mm	111 507
450 mm	111 508
500 mm	111 509
550 mm	111 510
600 mm	111 511
650 mm	111 512
700 mm	111 513
750 mm	111 514
800 mm	111 515
850 mm	111 516
900 mm	111 517
950 mm	111 518
1000 mm	111 519
1100 mm	111 521
1200 mm	111 523
1300 mm	111 525
1400 mm	111 527
1500 mm	111 529
1600 mm	111 531
1700 mm	111 533
1800 mm	111 535
1900 mm	111 537
2000 mm	111 539
3000 mm	111 559

* Minimum length = max. mechanical travel
Longer measuring lengths upon request

X.pos Plus

For new installations or for retrofitting existing milling machines, drill presses, grinders or even measuring machines

Fully compatible with older X.pos scales - upgrade now!



X.pos Plus - For more productivity, quality and comfort

- Default coordinates
- Calculation of hole circle pattern
- Vibration filter feature
- Conversion of mm/inch
- 8 Display languages
- Pocket calculator function

- high-resolution display with excellent legibility
- state-of-the art electronics and a very robust, completely sealed enclosure ensure maximum safety and optimum production conditions
- a major focus during the development and selection of electronic components was the achievement of maximum resistance against external interferences and maintaining low temperature levels
- background colors of the display can be changed as required or desired
- the keyboard membrane is highly resistant and yet very comfortable to touch
- when using for lathes, the values for top slide (Z0) and bed slide (Z1) can be displayed either individually or as differentiation/summation circuit for lathes

- the display also provides a key to toggle between radius and diameter
- the axis position is maintained when the display is turned off
- graphical support with residual path display and sketch drawing
- linear and non-linear length correction is possible
- easy mounting, easy electric connection, and maintenance-free operation

Part No. 123455

Lathe headstock

- Incl. chrome-plated fastening rod and safety micro-switches
- Easy mounting via screws at the headstock

Inside Ø	Part No.
400 mm	103 030
500 mm	103 031
600 mm	103 032

Lathe support

- Incl. safety micro-switch
- Rigid steel construction, swivels to both sides
- Polycarbonate viewing window

Dimensions (HXW)	Part No.
1500 x 150 mm	103 033
1500 x 200 mm	103 034

H



Lead screw and feed shaft guards

- Resistant against oil, heat and acid, meets safety class M2
- High-strength aramide belt with strong polyurethane connection for high loads
- Individually mountable at machine

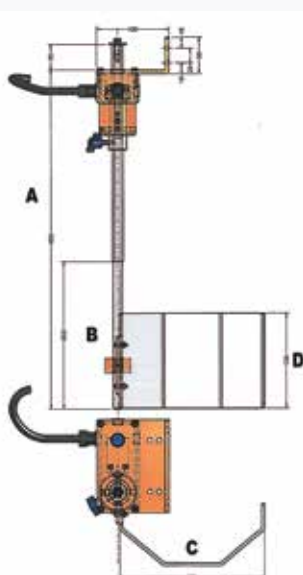
Dimensions (LxH)	Part No.
1500 x 150 mm	103 035
1500 x 200 mm	103 036
2000 x 200 mm	103 037
3000 x 250 mm	103 038



Drill Press Quill

- Incl. safety micro-switch
- Adjustable to boring depth
- Polycarbonate viewing window

Model	Part No.
BP 1	103 043
BP 2	103 044



A	465 mm
B	202 mm
C	200 (BP 1) / 300 mm (BP 2)
D	130 (BP 1) / 200 mm (BP 2)



Milling machine - cutter spindle

- Strong construction with robust connectors
- Individually adjustable arms
- Easy mounting via screws
- 2 electric safety switches
- Can be mounted left or right

Disk diameter	Part No. right side	Part No. left side
400 mm	103 039	103 041
500 mm	103 040	103 042

III.
Part no. 108 770

- 5 turning tools for steel working
- 5 forms (left, right, centered)

III.
Part no. 108 680

III. Part no. 108 670

Clamped Turning Tool Set: Part no. 108 670
P25 indexable insert for forged, rolled and tempered steel. All tools with indexable inserts, 1 indexable insert set (s.above), tools, specifications, shank height 25 mm

Indexable insert set: 30 pc. Part no. 108 675

Clamped turning tool set: Part no. 108 778
shank height 20 and 25 mm, shanks 20 mm, 9 tools

Indexable insert set: 30 pc. Part no. 108 779

Clamped turning tool set: Part no. 108 780
5 tools cutting height 16 mm, shanks 20 mm
3 tools cutting height 20 mm, shanks 20 mm
1 tool cutting height 24 mm, shanks 20 mm

Indexable insert set: 30 pc. Part no. 108 782

Clamped Turning Tool Set

H

Shank	Part No.	5 replacem.
10 mm	108 770	108 774
12 mm	108 771	108 775
16 mm	108 772	108 775
20 mm	108 773	108 775

Turning Tool Set

with soldered-on carbide plates for steel, 8 pieces

shank 12 mm, Part no. 108 680

shank 16 mm, Part no. 108 690

shank 20 mm, Part no. 108 700

Knurl Holder

- shank H20, B14, total 140 mm

- incl. 2 knurl sets, angled 1 mm

Part no. 108 520

knurl set, angles

Part no. 108 521



Clamped Turning Tool Set

Includes 8 different clamped turning tools, listed in the sequence shown (Part no. 108 670):

1. necking turning tool, clamping system C, workpiece Ø 60 mm

size	cutting point height	V	f	a
25x25x140 mm	-	100 m/min.	0,4-0,5 mm	4 mm

2. tapping turning tool 60°, clamping system C

size	cutting point height	V	f	a
18x18x180 mm	25 mm	-	-	-

3. stepped, right-hand turning tool, plate form S, clamping system M, cutting length 16 mm, incl. chip chute

size	cutting point height	V	f	a
25x20x125 mm	-	80 m/min.	0,6-0,7 mm	6 mm

4. curved, right-hand turning tool, plate form S, clamping system M, cutting length 16 mm, incl. chip chute

size	cutting point height	V	f	a
25x20x125 mm	-	80 m/min.	0,4-0,5 mm	4 mm

5. stepped, right-hand inside turning tool, clamping system C

size	cutting point height	V	f	a
18x18x180 mm	14 mm	60 m/min.	0,2 mm	4 mm

6. curved, right-hand turning tool, plate form S, clamping system C, cutting length 16 mm, incl. chip chute

size	cutting point height	V	f	a
18x18x180 mm	14 mm	60 m/min.	0,2 mm	4 mm

7. stepped, right-hand turning tool, plate form S, clamping system M, cutting length 20 mm, incl. chip chute

size	cutting point height	V	f	a
20x20x125 mm	-	100 m/min.	0,4-0,5 mm	4 mm

8. female thread turning tool, clamping system C

size	cutting point height	V	f	a
18x18x180 mm	25 mm	-	-	-

Model	D	D1	L1	Part No.
BT30-ER25	42	31,75	70	104 200
BT30-ER32	50	31,75	70	104 201
BT40-ER32	50	44,45	100	104 202
BT40-ER40	63	44,45	80	104 206
BT50-ER32	50	69,85	100	104 204
BT50-ER40	63	69,85	100	104 205



ER Collet Set

DIN 6499

Form B

		Part No.
ER 25, 16-pieces	1 - 16 mm	106 050
ER 32, 6-pieces	6, 8, 10, 12, 16, 20 mm	106 052
ER 40, 15-pieces	3, 4, 5, 6, 8, 10, 12, 14, 15, 16, 18, 20, 22, 24, 25 mm	106 075

For other chucks for MT 3 / MT 4, visit www.knuth-machinetools.com



ER Collet Chucks

ER 32

Mount	MT 3	MT 4	ISO 30	ISO 40
Part No.	106 057	106 058	106 055	106 056

ER 40

Part No.	106 063	106 064	106 061	106 062
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Draw Bolts DIN 69872

Model	Part No.	Part No.
	A	B
SK 30 (A) (B)	103 600	103 604
SK 40 (A) (B)	103 601	103 605
SK 50 (A) (B)	103 603	103 607





- integrated quick-return acts promptly upon feed direction change
- slip coupling torque adjustable to 4 levels
- including MT 2 and MT 3 shank or MT 3 and MT 4 shank
- for thread cutter

- M 2 - M 7 (MT 2 + MT 3)
Part No. 106 033

- M 5 - M 12 (MT 3 + MT 4)
Part No. 106 035

- M 8 - M 20 (MT 3 + MT 4)
Part No. 106 037

Thread-Cutting Chuck

Compact design featuring high stability and safety features

- Wide setup range - in addition to metric, British, and US standards, it also accommodates custom sizes
- Applications: Thread cutters, drill presses, high-speed lathes, and CNC machining centers



Specifications GSF		M2-13/B16	M5-20/B18	M6-24/MK4
Diameter	mm	48	54	60
Length	mm	73	85	205
Part No.		104 710	104 712	104 713

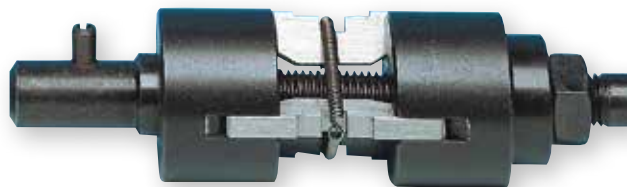
Accessories for Drill Presses

- includes quick-action drill chuck and bits
- packed in a wooden case



Contents / Set:	MT 2 (6-piece)	MT 3 (7-piece)	MT 4 (8-piece)	ISO 30 (4-piece)	ISO 40 (5-piece)
Reducing Sleeve	MT 2 / MT 1	MT 3 / MT 2	MT 4 / MT 3	ISO 30 / MT 2	ISO 40 / MT 2
Reducing Sleeve	-	MT 3 / MT 1	MT 4 / MT 2	ISO 30 / MT 3	ISO 40 / MT 3
Reducing Sleeve	-	-	MT 4 / MT 1	-	ISO 40 / MT 4
Extension Sleeve	MT 2 / MT 3	MT 3 / MT 4	MT 4 / MT 5	-	-
Tool-Holder Bits	MT 2 / B 16	MT 3 / B 18	MT 4 / B 18	ISO 30 / B 18	ISO 40 / B 18
Tool-Holder Bits	MT 2 / B 18	MT 3 / B 16	MT 4 / B 16	-	-
Quick-action Chuck	3 - 16 mm / B 18	3 - 16 mm / B 18	3 - 16 mm / B 18	3 - 16 mm / B 18	3 - 16 mm / B 18
Quick-action Chuck	1 - 13 mm / 16	1 - 13 mm / B 16	1 - 13 mm / B 16	-	-
Part No.	104 592	104 593	104 594	104 595	104 596

Quick-Set Spindle Bore Stop



- for lathes
- quick and easy adjustment to any hollow-spindle point
- easy adjustment - just tightening with a safety wrench

Size	Range	Wrench length	Part no.
1	19-23	540	103 010
2	22-26	540	103 012
3	25-31	540	103 014
4	30-38	640	103 016
5	38-48	640	103 018
6	46-58	740	103 020
7	56-66	740	103 022
8	64-81	940	103 024
9	79-91	940	103 025
10	90-110	940	103 026
11	110-130	940	103 027



Radius Cutting Head

Clamps into the turning tool just like a tool-holder.

- For inside and outside machining of convex and concave forms.
- For turning of 90°, 180° radius. Radius from 0 to 25 mm.
- Machining depth up to 7 mm in ST50.

Part no. 103 350

Live centers

- Precision needle bearings
- Center is hardened and ground, 60°



Morse taper	Center Ø	Body	Length	Part No.
MT 2	22	38	125	106 745
MT 3	26	50	165	106 750
MT 4	30	59	200	106 755
MT 5	45	70	240	106 760

- gear ratio 1:90, disengages for direct division, manual 360° rotation of chuck
- hand wheel with scale ring
- Nonius division 10"
- 6 masks for direct division of 2, 3, 4, 6, 8, 12, 24 parts
- hardened and ground teeth with 3-jaw chuck, 160 or 200 mm



Optional accessory set for ST 130 & ST 155:

dividing plate A 26, 28, 30, 32, 34, 37, 38, 39, 41, 43, 44, 46, 47, 49, 51, 53, 57, 59
dividing plate B 61, 63, 67, 69, 71, 73, 77, 79, 81, 83, 87, 89, 91, 93, 97, 99

Tailstock

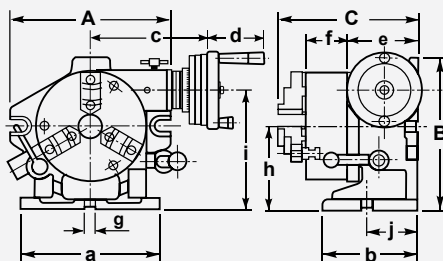
ST 130 Part No. 110 970

ST 155 Part No. 110 971



ST 130 Part No. 110 960

ST 155 Part No. 110 965



Typ	A	B	C	a	b
ST 130	250	235	221	220	150
ST 155	310	285	243	225	160
Typ	c	d	e	f	g
ST 130	184	82	112	66	16
ST 155	201	82	125	75	16
Typ	h	i	j	Weight	
ST 130	130	186	80	48 kg	
ST 155	155	232	90	76 kg	

Direct indexing head

S 200

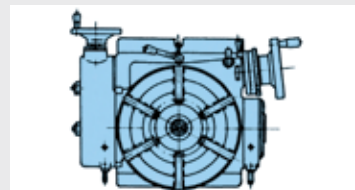
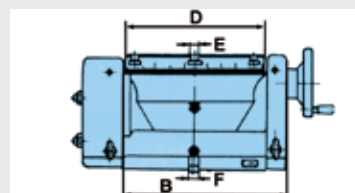
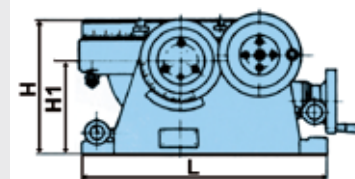
The S 200 Direct Indexing Head can be used in a horizontal or vertical setup. The indexing unit is enclosed in the resistant cast-iron body of the divider, where it is protected from contamination to ensure precise and constant divisions of 2, 3, 4, 6, 8, 12, and 24. An easy-to-read circumferentially mounted Nonius scale provides exact divisions up to 360°. A sturdy clamping lever is provided for the torsion-proof fixture of the chuck at any set position.

Specifications		S 200
Center height	mm	150
Manual 3-jaw-chuck diameter	mm	210
Divisions		2, 3, 4, 6, 8, 12, 24
Spindle concentricity radial	mm	0,01
Indexing accuracy	"	25
Weight	kg	59
Part No.		110966



Standard Equipment

5 indexing masks, chuck, operating tools



Options

- INDEX-feature / RT 160-320
- Tailstock / RT 200/250

Part No.

125805
125820

Type	D	H	H1	B	L	F	E	d	MT	Ratio	Weight	Part No.
RTS 250	250	205	140	252	310	14	12	30	Nr.3	1:90	78 kg	125 810
RTS 320	320	255	175	322	380	18	14	40	Nr.4	1:90	133 kg	125 815

Rotary Table

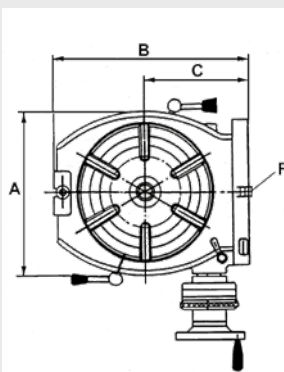
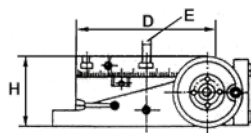
RT 100 • 160 • 200 • 250 • 320

Options

- INDEX-feature / RT 160-320
- Tailstock / RT 320
- 3-jaw-chuck 250mm with flange for RT 320

Part No.

125805
125825
125846



Type	D	H	A	B	C	E	F	MT	d	Ratio	Weight	Setup	Part No.
RT 100	110	85	118	150	90	10	10	2	25	1:90	7,25	hor. + vert.	125 800
RT 160	160	75	196	260	125	10	12	2	25	1:90	16,5 kg	horizontal	125 830
RT 200	200	100	236	285	150	12	14	3	30	1:90	30,5 kg	hor. + vert.	125 835
RT 250	250	110	286	328	170	12	14	3	30	1:90	44 kg	hor. + vert.	125 840
RT 320	320	120	360	410	210	14	18	4	40	1:90	75 kg	hor. + vert.	125 845

- 1 scale gradation direct read-out at the table
- cast-iron frame, ground table surface and guideways

Specifications		ST 250	ST 300	ST 380
number of T-slots		3	3	3
T-slot spacing	mm	55	60	90
T-slot width	mm	12	12	16
swivel angle		± 50°	± 50°	± 50°
weight	kg	20	37	45
dimensions (LxWxH)	mm	254x178 x127	300x240 x165	381x254 x165
Part No.		129 335	129 340	129 345

Swivelable Rotary Table

For small cutting operations on the bench or floor drill press

- dovetail guideways
- cast-iron construction

table size		235x145	320x145	510x240
height	mm	154	154	197
cross travel	mm	120	120	190
longitud. travel	mm	160	260	350
T-slots	mm	10	10	13
max. table load capacity	kg	85	100	140
swivel range		360°	360°	360°
handwheel incr.	mm	0,025	0,025	0,05
weight	kg	25	30	86
Part no.		106 001	106 003	106 006

Compound Sliding Tables

Rigid and precise compound sliding table for coordinate drilling on radial, column, and bench drill presses

- cast-iron construction
- T-slot, coolant groove
- dovetail guides, adjustable

Specifications				hand-wheel scale divisions	0.05	0.05	
table setup area	mm	730x210	855x295	dimensions	mm	1065x625	1267x621
table height	mm	196	160	weight	kg	98	130
X / Y axis travel	mm	500x210	620x240	Part No.		106 009	106 017
T-slot width	mm	14	12x22				

Part No. 106 017 is shown

- hardened and ground surfaces ensure high-precision clamping, even when working with in-series connected vises
- 4 work surfaces
- pull-down system for maximum secure clamping
- spindle safety guard protects from chips
- face parallelism 0.02 mm



HNCS		100V	130V	160V	200V
jaw width	mm	100	130	160	200
clear opening	mm	0-125	0-180	0-240	0-280
jaw height	mm	48	55	58	63
overall height	mm	133	150	163	173
holding force	kN	36	46	56	71
weight	kg	25	38	57	78
Part No.		104 930	104 932	104 934	104 936



Optional Equipment:

Dial for HNCS		100V	130V	160V	200V
dial diam.	mm	248	296	312	378
dial height	mm	27	30	34	44
Part No.		104 931	104 933	104 935	104 937

Hydraulic Machine Vise

HS

- hardened and precision-ground jaws and body
- clamping pressure is up to ten times as high as with conventional machine vises



HS 100 is shown

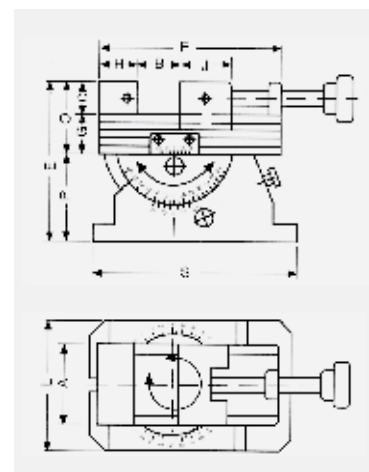
Specifications		HS 100	HS 125	HS 150	HS 200
width	mm	110	135	150	210
jaw height	mm	36	48	51	65
throat	mm	180	220	293	300
weight	kg	26	42,5	75	125
Part No.		105 096	125 024	125 028	125 029

- swivel-base mounted vise body, 360° swivel
- constant clamping pressure, unaffected by vibration and shock
- hydraulic power booster

Precision Grinding and Control Vise

PSS 70

- swivels on 2 levels, 360° horizontal, ± 45° vertical
- scale for precise minute readout
- screw for upward and downward swing
- for grinding, boring, milling, eroding
- weight: 12 kg

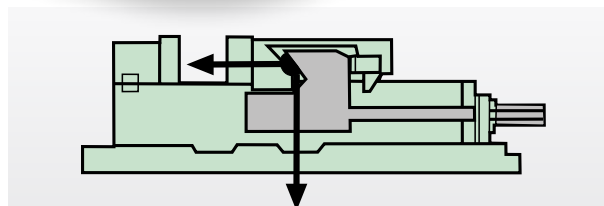
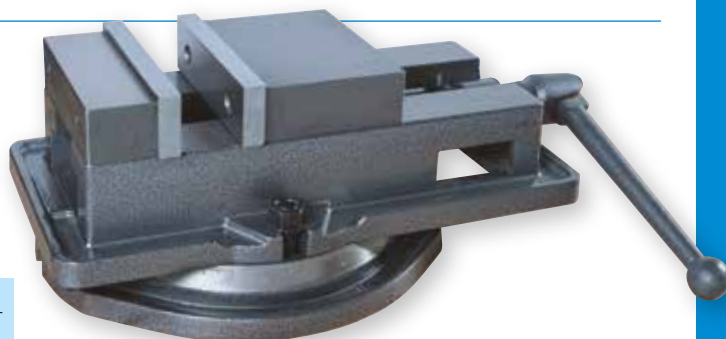


	A	B	C	E	F	G	H	J	L	O	P	S	N.W.	Part no.
PSS 70	70	80	30	137	160	32	33	45	110	62	75	180	12 kg	128 815

NZM

Made of high-quality cast-iron

- pull-down system: absolutely secure workpiece hold even during cutting of heavy parts
- hardened and precision-ground steel jaws
- dial turns 360° and has 1° scale division
- parallelism $\pm 0,03$ mm / 100 mm
- precise, hardened jaw guides



Specifications		NZM100	NZM125	NZM160	NZM200
jaw width	mm	100	125	160	200
jaw height	mm	32	40	45	50
opening capacity	mm	100	125	170	230
height	mm	118	136	157	179
dial diameter	mm	160	187	230	268
weight	kg	16	24	49	56
Part No.		104 916	104 918	104 920	104 922

Precision Machine Vise

PMS

- swivels on 2 axes
- high precision vise for accurate and exact precisionmechanics work (also suitable for watch making, jewellery industries)
- swivels from horizontal (180°) to vertical (90°)
- turns 360° on a dial
- jaws are made of hardened and precision-ground tool steel



III. PMS 50

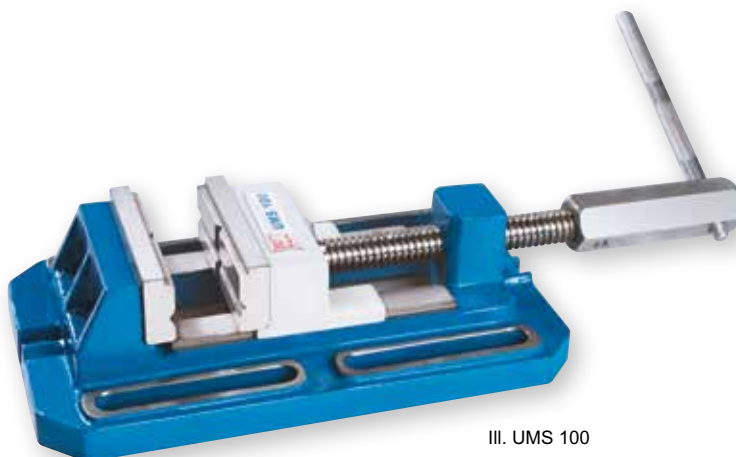
Specifications		PMS 50	PMS 75	PMS 100
width	mm	50	75	104
jaw height	mm	23	34	42
throat	mm	50	75	102
weight	kg	3,8	9,6	17,3
Part No.		125 010	125 011	125 012

Universal Machine Vise

UMS

- solid vise, ideal for drill presses
- deep hole bores for flexible clamping
- low height for cost-effective use of machine

Specifications		UMS 100	UMS 140	UMS 200
jaw width	mm	100	144	205
opening	mm	105	147	222
jaw depth	mm	42	50	63
assembly width	mm	170	189	250
height	mm	72	89	114
length	mm	460	610	788
deep hole dim.	mm	88 x 12	105 x 14	163 x 14
weight	kg	13	18	32
Part No.		125 030	125 031	125 032



III. UMS 100

KNUTH Lathe Chuck

Excellent clamping force, high concentricity, and long life

- Manually operated lathe chucks with spiral ring and centric clamping action for DIN 55029 spindle heads with Camlock stud bolts
- Lathe chucks are available with diameters up to 500 mm and short tapers up to size 11
- Precision-machined lathe chuck bodies are available in cast-iron and steel



3-Jaw Lathe Chuck



3-jaw chuck / steel

Ø mm	Camlock mount	Speed rpm	Bore mm	Weight kg	Part No.
160	D1-4	4500	42	9	146 378
200	D1-4	4000	55	19	116 501
200	D1-6	4000	55	19	146 372
250	D1-6	3500	76	32	146 377
250	D1-8	3500	76	32	146 373
315	D1-6	2800	103	51	146 374
315	D1-8	2800	103	51	146 383
315	D1-11	2800	103	51	116 505
400	D1-8	2000	136	150	116 506
400	D1-11	2000	136	150	116 507

Soft Jaw Pads for 3-jaw chuck (cast-iron / steel)

Ø mm	Length mm	Width mm	Height mm	Part No.
160	78	25	41,5	116 550
200	90	27	43,0	116 551
250	103	32,5	51,5	116 552
315	120	37	55,0	116 553
400	140	42	64,5	116 554
500	140	42	74,5	116 555

4-Jaw Lathe Chuck



4-jaw chuck / steel

Ø mm	Camlock mount	Speed rpm	Bore mm	Weight kg	Part No.
160	D1-4	4500	41	9	116 600
200	D1-4	4000	55	19	116 601
200	D1-6	4000	55	19	146 472
250	D1-6	3500	76	32	146 477
250	D1-8	3500	76	32	146 473
315	D1-6	2800	103	51	116 604
315	D1-8	2800	103	51	146 483
315	D1-11	2800	103	51	116 605
400	D1-8	2000	136	101	116 606
400	D1-11	2000	136	101	116 607

Soft Jaw Pads for 4-jaw chuck (cast-iron / steel)

Ø mm	Length mm	Width mm	Height mm	Part No.
160	78	25	41,5	116 650
200	90	27	40,0	116 651
250	103	32,5	51,5	116 652
315	120	37	55,0	116 653
400	140	42	64,5	116 654
500	145	60	82,0	116 655

Quick-Change Tool Holder

5-piece Sets

Set WA:

1 ea head A
3 ea WAD 20x90
1 ea WAH 20x90
Part No. 103 193

Set WB:

1 ea head B
3 ea WBD 25x120
1 ea WBH 32x120
Part No. 103 195

Set WD1:

1 ea head D1
3 ea WD1D 63x180
1 ea WD1H 63x180
Part No. 103 197

Set WE:

1 ea head E
3 ea WED 20x100
1 ea WEH 30x100
Part No. 103 194

Set WC:

1 ea head C
3 ea WCD 32x150
1 ea WCH 40x160
Part No. 103 196

Set WD2:

1 ea head D2
3 ea WD2D 63x220
1 ea WD2H 70x220
Part No. 103 198



- fits all standard german quick-change tool holder
- tool holder head and tool holder feature profileground gearing
- tool holders are clamped against the central body's gears by means of 2 chuck halves and an eccentric bolt
- repeat accuracy 0,01 mm
- tool holders can be adjusted to 40 different angles on the central body
- angle scale provided on head
- holder height adjustment with a thumb screw

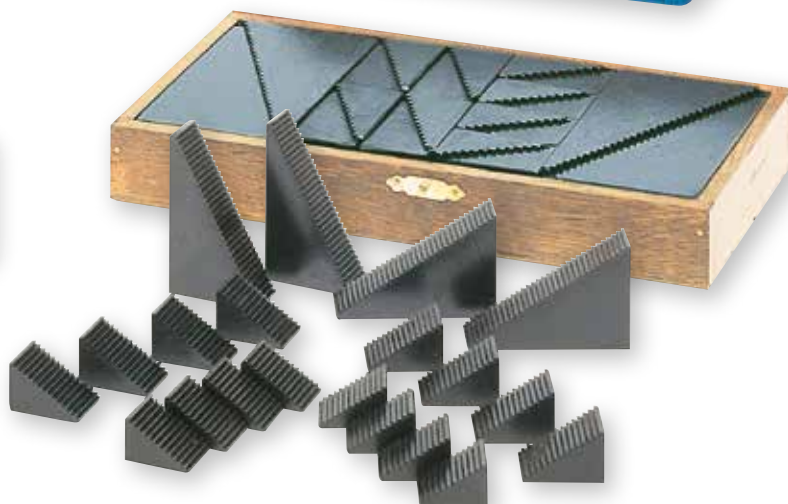
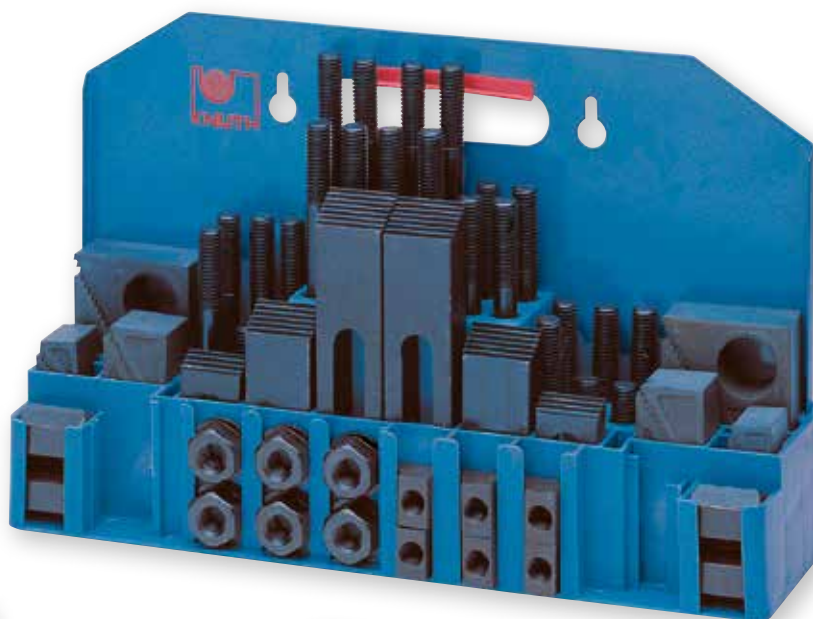
fits onto machine (Part No. 270 021)

Selection of tool holder head according to the respective table

size	W	A	E	B	C	D1	D2
Tool changer size	D	16 20	20 25	25 32	32 40	40 45	50 63
Machine:							
- Drive power, max.	kW	2.2	4.4	6.6	13.2	20	28
- Turning diameter	mm	150-300	200-400	300-500	400-700	500-1000	600-1100
Slide width, max.	z mm	100	120	150	180	200	250
Cutting edge height							
- min.	x mm	h + y	h + y	h + y	h + y	h + y	h + y
- max.	mm	x + hv	x + hv	x + hv	x + hv	x + hv	x + hv
Height adjustability	mm	11	17 15	20 11	40 35	30 35	20 30
Tool support	y mm	9	10 11	12.5 14	15 16	17 20	20 25
Height of tool							
max.	h mm	16 20	20 25	25 32	32 40	45 40	50 63
Overall width, max.	v mm	100	125	150	192 202	202 230	234 242
Overall height	s mm	54	68	75	105	122	135
Throat, max.	u mm	48	60	71	92 102	102 112	116 124
Bore, max.	t mm	31	31	51	70	40	80



				
WA 103 189	WAD a 16 l 75 103 271 WAD 16 90 103 272 WAD 20 75 103 273 WAD 20 90 103 274	WAH d 20 l 85 103 275	WAJ d 30 l 80 103 276	WAA-AO 103 277
WE 103 190	WED 20 100 103 281 WED 25 100 103 282	WEH 30 100 103 283	WEJ 30 100 103 284 WEJ 40 100 103 285	WEA-A2a 103 286
WB 103 191	WBD 25 120 103 291 WBD 25 140 103 292 WBD 32 120 103 293 WBD 32 140 103 294	WBH 34 130 103 295 WBH 18 120 103 298	WBJ 40 120 103 296	WBA-A2a 103 297
WC 103 192	WCD 32 150 103 301 WCD 32 170 103 302 WCD 40 150 103 303 WCD 40 170 103 304 WCD 45 170 103 305	WCH 40 160 103 306 WCH 50 160 103 307	WCJ 40 160 103 308 WCJ 50 160 103 309	WCA-A3a 103 310
WD1 103 360	WD1D 40 180 103 364 WD1D 50 180 103 365 WD1D 65 180 103 361	WD1H 63 180 103 362	WD1J 63 180 103 363	



De Luxe Clamping Tool Set

- in a convenient, sturdy steel magazine, 52 parts
- 24 stud bolts, 4 each in the lengths 75, 100, 125, 150, 175, 200 mm
- 4 extension nuts, 6 stepped clamps (3 pair), 6 T-slot nuts, 6 hexagon nuts flanged, step blocks



	Thread	Part No.
12	M 10	105 290
14	M 12	105 295
16	M 14	105 300
18	M 16	105 305

Stud Bolt Set, and T-Slot Nuts

- 38 parts
- 24 stud bolts, 4 ea in the lengths 75, 100, 125, 150, 175, 200 mm
- 6 T-slot nuts
- 4 extension nuts
- hexagon nuts flanged



	Thread	Part No.
14	M 12	105 355
16	M 14	105 360

Set of Step Blocks

- 20 each (10 pairs) in wooden box
 - black-finished steel
- Part No. 105 340



2-PC. swivel hold-down clamp sets

- high quality steel, black-finished
- available in pairs only

Length	Bore for stud bolts	Part No.
100	M 12	105 790
100	M 14	105 795
125	M 16	105 800



Dial Gauge

- accuracy acc. to DIN 878
 - matte-finish chrome-plated metal encl.
 - clamping shaft 8mm h6
 - outer race with 2 adjustable tolerance markers
 - gradation 0.01 mm
 - measuring range 10 mm
- Part No. 129 020



Precision Dial

- accuracy and design acc. to industry standard
 - measuring range 0 - 1.27 mm
 - clamping shaft 8 mm
 - smallest increment 0.002 mm
- Part No. 129 022



Precision Dial Gauge

- accuracy acc. to DIN 2270
 - automatically reversing tracer arm
 - rotating outer race for zeroing
 - stainless steel precision bearing for friction-free adjustment of tracing point
 - gradation 0.01 mm
 - measuring range 0.8 mm (0-40-0)
 - including wooden case
- Part No. 129 065

Magnetic micrometer Holders

3-in-1 Clamping

- Just turn the clamping knob for a quick and secure fixation of all 3 motion points
- foot dimensions 63 x 50 x 55 mm
 - holding power 60 kg
- Part No. 108 796



shown with optional equipment

Hydraulic high-precision magnetic measuring tripod

- central clamping with 1 rotating knob
 - high clamping force via hydraulics
 - foot dim. 65x50x55mm
 - holding power 50 kg
- Part No. 108 810



Individual clamping

- measuring column 12 mm Ø x 181 mm
 - transverse arm 10 mm Ø x 150 mm
 - foot dimensions 63 x 50 x 55 mm
 - holding power 60 kg
 - plus fine adjustments
- Part No. 108 800



External Micrometer Set

6-pcs. 150 - 300 mm

- measuring range 25 mm each
 - accuracy in acc. with DIN 863
 - readout 0.01 mm
 - satin chrome-plated scales
 - micrometer screw diam. 8 mm
 - C-frame with hand protection
 - thimble diam. 17 mm
 - including ratchet
 - spindle pitch 0.5 mm
 - with adjustment gauge
 - including wooden case
 - measuring range 150-175, 175-200, 200-225, 225-250, 250-275, 275-300 mm
- Part No. 129 012



External Micrometer Set 6 pcs. 0 - 150 mm

- accuracy acc. to DIN 863
 - readout 0.01 mm
 - satin chrome-plated scales
 - micrometer screw diam. 6.35 mm
 - tungsten carbide tipped measuring surfaces
 - C-frame with hand protection
 - thimble diam. 17 mm
 - including ratchet
 - spindle pitch 0.5 mm
 - measuring range 25 mm a. up with adjustm. gauge
 - including wooden box
 - measuring range 0-25, 25-50, 50-75, 75-100, 100-125, 125-150 mm
- Part No. 129 010



La MEKHAN srl si propone come primo obiettivo quello di dare un servizio multiforme e attento alle esigenze di utilizzatori e acquirenti di macchine utensili.

Distribuisce in esclusiva sul territorio italiano prodotti di alto livello tecnologico caratterizzati da una elevata qualità, produttività e affidabilità.

La nostra azienda mira a soddisfare i diversi bisogni dei clienti garantendo:

- **Supporto e affiancamento durante la vendita**

La nostra rete commerciale è formata da personale qualificato e con lunga esperienza del settore, in grado di supportare il cliente nella scelta ottimale dei prodotti per ogni tipo di esigenza.

- **Fornitura pezzi di ricambio**

- **Assistenza tecnica**

Lo staff MEKHAN è specializzato a garantire un supporto tecnico rapido ed efficiente nella risoluzione di eventuali problemi.

Forniamo in special modo:

- Assistenza per avviamento e settaggio macchina
- Corsi di formazione e aggiornamento
- Assistenza continua
- Interventi di manutenzione preventiva

Fra le varie opportunità vi è anche la possibilità di scegliere diversi pacchetti di assistenza.

Sarà dunque possibile stabilire con il cliente le modalità e la frequenza degli interventi da effettuare presso le proprie officine, al fine di garantire un perfetto e continuo funzionamento dei macchinari acquistati.

Distributore esclusivo per l'Italia:



Nata nel 1923 a Königsberg come azienda familiare, con la sua presenza in oltre 30 paesi KNUTH è sinonimo di affidabilità in tutti i mercati emergenti del mondo.

Elevata consapevolezza sulla propria qualità, innovazione tecnica, esperienza decennale ed un ottimo rapporto prezzo-prestazioni hanno reso KNUTH famosa in tutto il settore.



Premium line della tecnologia CNC del marchio KNUTH.



Progetta e produce smussatrici autoalimentate per lamiere e tubi, principalmente utilizzate nelle industrie di lavorazione dell'acciaio e nelle attività di saldatura. Pioniere nelle bisellatrici automatiche, CEVISA riesce a realizzare smussatrici ad alte prestazioni, affidabili e veloci per ottimizzare tempi e costi di produzione.

centro-sud Italia:



"Dal 1966 siamo un'azienda a conduzione familiare. La passione per la nostra professione si riflette nella qualità delle nostre macchine".

Proprio perché azienda a conduzione familiare, siamo in grado di offrirvi un'alternativa altamente motivata, flessibile e personalizzata rispetto alle grandi società. I nostri ormani passati 50 anni sono la prova della qualità, della commercialibilità e dell'affidabilità delle nostre macchine utensili, dei nostri componenti e servizi aggiuntivi.



Leader nel settore delle segatrici, l'azienda è sinonimo di qualità ed affidabilità.