





Technology | Development | History

Clamping Issues?

Resolve all your clamping issues with our unique Lenzkes Clamping Tools services. Try our products absolutely free of charge and without obligation to purchase in Europe and North America.

Make the most of Lenzkes!

Due to their unique stepless horizontal and vertical adjustability, Lenzkes products are used in the plastics industry on injection moulding machines, in metal fabrication, on drilling and milling machines as well as machining centres.

Lenzkes products are also perfect to use on metal forming and stamping presses. Pressure die casting machines also pose no problem due to their immense clamping force.

Quality through consistency and innovative developments

In 1976 Karl-Heinz Lenzkes founded the company with the goal of improving productivity and reducing setup times in manufacturing.

The first generation clamps (S10/20) were improved upon in the early 1980s (S30/40). These were further enhanced by a unique extension block system (B50) allowing greater clamping heights.

In the late 1980s Karl-Heinz Lenzkes added a variety of side clamps (NU/FL/SK/SKO) for free surface machining.

In the 1990s Karl-Heinz patented the first stepless horizontally and vertically adjustable MQ-Series Clamps (MQ60/70), which were a revolution in mechanical clamping at that time.

Another milestone in the company's history was the invention of the integrated sliding plate (MQ100). Further innovations (MQ106/110/130/150/160/200) helped Lenzkes to become the market leader in mechanical clamping systems.

Between 1989 and 2010, in order to keep up with the ever increasing demand for Lenzkes clamps, the company opened facilities in Great Britain, Spain, USA, Switzerland, France, Austria and Poland.

The company is ISO 9001 and 14001 certified. Lenzkes represents the highest quality in clamping systems. Approximately 250 experienced employees worldwide are constantly helping over 100,000 customers with their clamping needs.

Get Lenzkes on board so you can relax!

Quality for all applications

- Designed by engineers for engineers
- Greatly adjustable clamps for many varied applications
- Assistance in your own language
- Free trial
- Shipping within 24 hours
- 6 years warranty on clamping shoe and arm

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Multi-Quick – The route to flexible clamping

MQ 60/70

MQ 60 has a clamping force up to 80 kN.
Stepless vertical and horizontal adjustment.

MQ 70 has a clamping force up to 50 kN.
Increased stepless vertical and horizontal adjustment.



- The MO Series is stepless vertically and horizontally adjustable at any angle on the machine table.
- The clamping shoes can be used as an extension to the machine table.



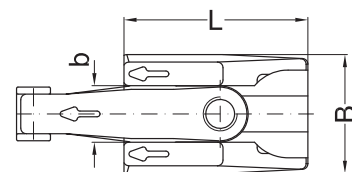
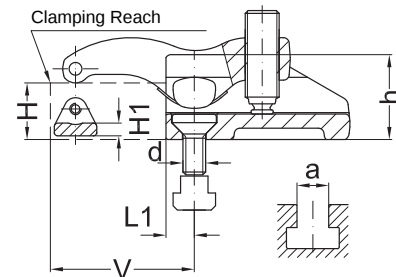
Multi-Quick MQ 60 Series 8 (complete)

Application Examples:
Injection moulding, light and
medium milling and drilling

- Patented
- Stepless vertically and horizontally adjustable

Clamping Force: **Up to 24 kN**

- **Material:** Hardened alloy steel
- **Clamping Arm / Clamping Shoe:** Drop forged



			for T-Slots		for Tapped Holes									
H	d	a	Part No.		Part No.		V	L	L1	B	b	h	H1	kN
5-25 K	–	–	060-025-09		–		15-31	48	10	42	20	30	4	24
	M06	8	060-025-0608		060-025-06									
	M08	10	060-025-0810		060-025-08									
	M08	12	060-025-0812		–									
	–	–	060-025-13		–									
	M10	12	060-025-1012		060-025-10									
	M12	14	060-025-1214		060-025-12									
5-32 L	–	–	060-032-09		–		13-39	65	10	42	20	30	4	24
	M06	8	060-032-0608		060-032-06									
	M08	10	060-032-0810		060-032-08									
	M08	12	060-032-0812		–									
	–	–	060-032-13		–									
	M10	12	060-032-1012		060-032-10									
	M12	14	060-032-1214		060-032-12									

Multi-Quick MQ 60 Series 8 (Spare Parts)



Clamping Shoe		Fixing Set		Clamping Arm		Protection Plate		Spring with Screw		Ball Pressure Screw		Allen Key 	
Part No.		Part No.		Part No.		Part No.		Part No.		Part No.		Part No.	
060-2-048-09		–		060-3-025-09		991-150-08-1		360-060-09		310-12-032		610-06	
060-2-048-0608		960-0608-24-8		K									
060-2-048-0810		960-0810-26-8											
060-2-048-0812		960-0812-26-8											
060-2-048-13		–											
060-2-048-1012		960-1012-27-8											
060-2-048-1214		960-1214-30-8											
060-2-065-09		–		060-3-032-09		991-150-08-1		360-060-09		310-12-036		610-06	
060-2-065-0608		960-0608-24-8		L									
060-2-065-0810		960-0810-26-8											
060-2-065-0812		960-0812-26-8											
060-2-065-13		–											
060-2-065-1012		960-1012-27-8											
060-2-065-1214		960-1214-30-8											

Multi-Quick MQ 60 (complete)

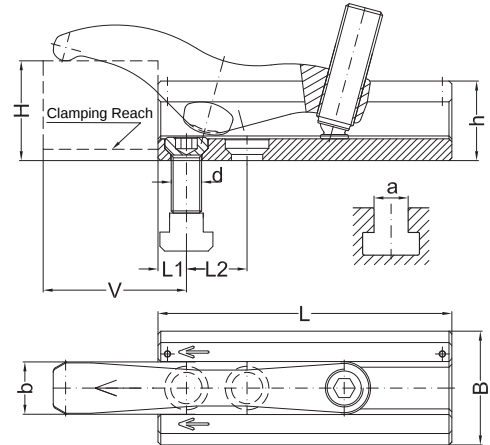
Clamping Force: **Up to 80 kN**

Application Examples:

Pressing, stamping, heavy duty milling and drilling, pressure die casting

- Patented
- Stepless vertically and horizontally adjustable

- Material: Hardened alloy steel
- Clamping Arm: Drop forged



			for T-Slots		for Tapped Holes									
H	d	a	Part No.		Part No.		V	L	L1	L2	B	b	h	kN
5–34 K	–	–	060-034-13		–		12–38	75	12	20	52	24	37	40
	M08	10	060-034-0810		060-034-08									
	M10	12	060-034-1012		060-034-10									
	M12	14	060-034-1214		060-034-12									
22–45 KG	–	–	060-045-13		–		12–34	75	12	20	52	24	37	40
	M08	10	060-045-0810		060-045-08									
	M10	12	060-045-1012		060-045-10									
	M12	14	060-045-1214		060-045-12									
5–40 LF	–	–	060-040-13		–		12–58	115	12	28	52	24	37	40
	M08	10	060-040-0810		060-040-08									
	M10	12	060-040-1012		060-040-10									
	M12	14	060-040-1214		060-040-12									
35–67 LG	–	–	060-067-13		–		12–58	115	12	28	52	24	37	40
	M08	10	060-067-0810		060-067-08									
	M10	12	060-067-1012		060-067-10									
	M12	14	060-067-1214		060-067-12									
6-38 K	–	–	060-038-17		–		25–45	85	15	25	60	28	42	55
	M14	16	060-038-1416		060-038-14									
	M16	18	060-038-1618		060-038-16									
6–58 L	–	–	060-058-17		–		30–80	130	15	32	60	28	42	55
	M14	16	060-058-1416		060-058-14									
	M16	18	060-058-1618		060-058-16									

Multi-Quick MQ 60 (Spare Parts)



Clamping Shoe		Fixing Set		Clamping Arm		Spring with Screw		Ball Pressure Screw		Allen Key	
Part No.		Part No.		Part No.		Part No.		Part No.		Part No.	
060-2-075-13		–		060-3-034-12 K		360-060-13		310-16-050		610-08	
060-2-075-0810		960-0810-25									
060-2-075-1012		960-1012-29									
060-2-075-1214		960-1214-31									
060-2-075-13		–		060-3-045-12 KG		360-060-13		310-16-050		610-08	
060-2-075-0810		960-0810-25									
060-2-075-1012		960-1012-29									
060-2-075-1214		960-1214-31									
060-2-115-13		–		060-3-040-12 LF		360-060-13		310-16-055		610-08	
060-2-115-0810		960-0810-25									
060-2-115-1012		960-1012-29									
060-2-115-1214		960-1214-31									
060-2-115-13		–		060-3-067-12 LG		360-060-13		310-16-055		610-08	
060-2-115-0810		960-0810-25									
060-2-115-1012		960-1012-29									
060-2-115-1214		960-1214-31									
060-2-085-17		–		060-3-038-16 K		360-060-17		310-20-055		610-10	
060-2-085-1416		960-1416-35									
060-2-085-1618		960-1618-40									
060-2-130-17		–		060-3-058-16 L		360-060-17		310-20-070		610-10	
060-2-130-1416		960-1416-35									
060-2-130-1618		960-1618-40									

Multi-Quick

MQ 60 (complete)

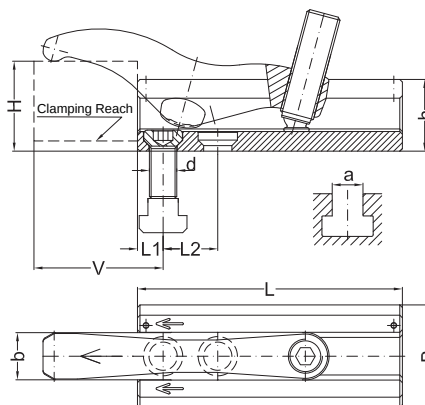
Clamping Force: **Up to 80 kN**

Application Examples:

Pressing, stamping, heavy duty milling and drilling, pressure die casting

- Patented
- Stepless vertically and horizontally adjustable

- Material: Hardened alloy steel
- Clamping Arm: Drop forged



			for T-Slots		for Tapped Holes									
H	d	a	Part No.		Part No.		V	L	L1	L2	B	b	h	kN
5–35 KF	–	–	060-035-21		–		19–49	100	19	32	75	34	48	65
	M18	20	060-035-1820		060-035-18									
	M20	22	060-035-2022		060-035-20									
28–55 KG	–	–	060-055-21		–		19–49	100	19	32	75	34	48	65
	M18	20	060-055-1820		060-055-18									
	M20	22	060-055-2022		060-055-20									
8–68 L	–	–	060-068-21		–		35–88	150	19	38	75	34	48	65
	M18	20	060-068-1820		060-068-18									
	M20	22	060-068-2022		060-068-20									
45–85 LG	–	–	060-085-21		–		19–78	150	19	38	75	34	48	65
	M18	20	060-085-1820		060-085-18									
	M20	22	060-085-2022		060-085-20									
10–46 KF	–	–	060-046-25		–		22–66	125	22	38	88	42	57	80
	M22	24	060-046-2224		060-046-22									
	M24	28	060-046-2428		060-046-24									
	–	–	060-046-31	25–69	25	–								
	M30	36	060-046-3036				060-046-30							
15–80 L	–	–	060-080-25		–		45–105	180	22	45	88	42	57	80
	M22	24	060-080-2224		060-080-22									
	M24	28	060-080-2428		060-080-24									
	M24	36	060-080-2436		–									
	–	–	060-080-31	48–108	25	45								
	M30	36	060-080-3036				060-080-30							
25–91 L	–	–	060-091-25		–		22–108	211	22	45	88	42	72	90
	M22	24	060-091-2224		060-091-22									
	M24	28	060-091-2428		060-091-24									
	M24	36	060-091-2436	–	26–112	26	–							
	–	–	060-091-31	–										
	M30	36	060-091-3036	060-091-30										
	M30	42	060-091-3042	–										

Multi-Quick MQ 60 (Spare Parts)



Clamping Shoe		Fixing Set		Clamping Arm		Spring with Screw		Ball Pressure Screw		Allen Key 	
Part No.		Part No.		Part No.		Part No.		Part No.		Part No.	
060-2-100-21		–		060-3-035-20 KF		360-060-21		310-24-060		610-12	
060-2-100-1820		960-1820-45									
060-2-100-2022		960-2022-51									
060-2-100-21		–		060-3-055-20 KG		360-060-21		310-24-060		610-12	
060-2-100-1820		960-1820-45									
060-2-100-2022		960-2022-51									
060-2-150-21		–		060-3-068-20 L		360-060-21		310-24-080		610-12	
060-2-150-1820		960-1820-45									
060-2-150-2022		960-2022-51									
060-2-150-21		–		060-3-085-20 LG		360-060-21		310-24-070		610-12	
060-2-150-1820		960-1820-45									
060-2-150-2022		960-2022-51									
060-2-125-25		–		060-3-046-24 KF		360-060-25		310-24-070		610-12	
060-2-125-2224		960-2224-55									
060-2-125-2428		960-2428-60									
060-2-125-31		–									
060-2-125-3036		960-3036-75									
060-2-180-25		–		060-3-080-24 L		360-060-25		310-24-090		610-12	
060-2-180-2224		960-2224-55									
060-2-180-2428		960-2428-60									
060-2-180-2436		960-2436-72									
060-2-180-31		–									
060-2-180-3036		960-3036-75									
060-2-211-25		–		060-3-080-24 L		360-060-25		310-24-090		610-12	
060-2-211-2224		960-2224-68									
060-2-211-2428		960-2428-74									
060-2-211-2436		960-2436-86									
060-2-211-31		–									
060-2-211-3036		960-3036-86									
060-2-211-3042		960-3042-100									

Multi-Quick MQ 65 (complete)

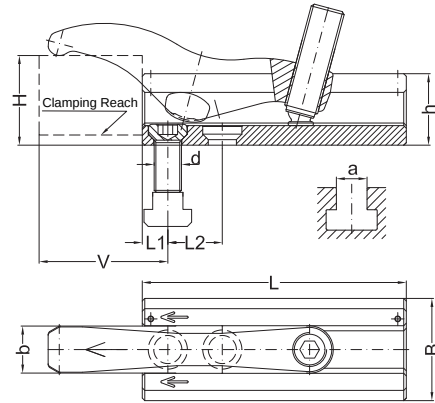
Clamping Force: **Up to 80 kN**

Application Examples:

Pressing, stamping, heavy duty milling and drilling, pressure die casting

- Patented
- Stepless vertically and horizontally adjustable
- Greater horizontal and vertical reach than MQ 60

- Material: Hardened alloy steel
- Clamping Arm: Drop forged



			for T-Slots		for Tapped Holes									
H	d	a	Part No.		Part No.		V	L	L1	L2	B	b	h	kN
6-58	–	–	065-058-17		–		15-80	155	15	28	60	28	42	55
L	M14	16	065-058-1416		065-058-14									
	M16	18	065-058-1618		065-058-16									
8-68	–	–	065-068-21		–		19-88	175	19	34	75	34	48	65
L	M18	20	065-068-1820		065-068-18									
	M20	22	065-068-2022		065-068-20									
15-80	–	–	065-080-25		–		22-105	205	22	38	88	42	57	80
L	M22	24	065-080-2224		065-080-22									
	M24	28	065-080-2428		065-080-24									
	M24	36	065-080-2436		–									
	–	–	065-080-31		–									
	M30	36	065-080-3036		065-080-30		25-108		25	–				

Multi-Quick MQ 65 (Spare Parts)



Clamping Shoe		Fixing Set		Clamping Arm		Spring with Screw		Ball Pressure Screw		Allen Key	
Part No.		Part No.		Part No.		Part No.		Part No.		Part No.	
070-2-155-17		–		060-3-058-16		360-060-17		310-20-070		610-10	
070-2-155-1416		960-1416-35		L							
070-2-155-1618		960-1618-40									
070-2-175-21		–		060-3-068-20		360-060-21		310-24-080		610-12	
070-2-175-1820		960-1820-45		L							
070-2-175-2022		960-2022-51									
070-2-205-25		–		060-3-080-24		360-060-25		310-24-090		610-12	
070-2-205-2224		960-2224-55		L							
070-2-205-2428		960-2428-60									
070-2-205-2436		960-2436-72									
070-2-205-31		–									
070-2-205-3036		960-3036-75									

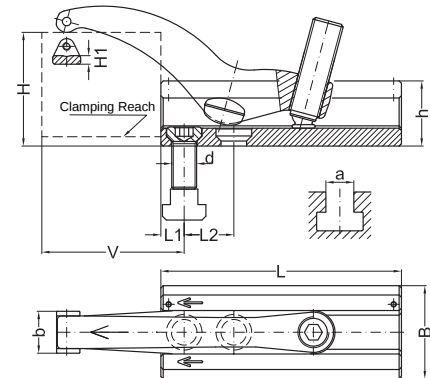
Multi-Quick MQ 70 (complete)

Clamping Force: **Up to 50 kN**

Application Examples:
Injection moulding, light and
medium milling and drilling

- Patented
- Stepless vertically and horizontally adjustable

- **Material: Hardened alloy steel**
- **Clamping Arm: Drop forged**



			for T-Slots		for Tapped Holes										
H	d	a	Part No.		Part No.		V	L	L1	L2	B	b	h	H1	kN
5-52 K	-	-	070-052-13		-		12-65	95	12	-	52	24	37	5	20
	M08	10	070-052-0810		070-052-08										
	M10	12	070-052-1012		070-052-10										
	M12	14	070-052-1214		070-052-12										
7-72 L	-	-	070-072-13		-		12-95	135	12	24	52	24	37	5	22
	M08	10	070-072-0810		070-072-08										
	M10	12	070-072-1012		070-072-10										
	M12	14	070-072-1214		070-072-12										
6-62 K	-	-	070-062-17		-		15-75	110	15	-	60	28	42	6	30
	M14	16	070-062-1416		070-062-14										
	M16	18	070-062-1618		070-062-16										
8-82 L	-	-	070-082-17		-		15-108	155	15	28	60	28	42	6	32
	M14	16	070-082-1416		070-082-14										
	M16	18	070-082-1618		070-082-16										
7-75 K	-	-	070-070-21		-		19-90	125	19	-	75	34	48	7	40
	M18	20	070-070-1820		070-070-18										
	M20	22	070-070-2022		070-070-20										
7-92 L	-	-	070-092-21		-		19-122	175	19	34	75	34	48	7	42
	M18	20	070-092-1820		070-092-18										
	M20	22	070-092-2022		070-092-20										
8-90 K	-	-	070-085-25		-		22-112	150	22	-	88	42	57	8	50
	M22	24	070-085-2224		070-085-22										
	M24	28	070-085-2428		070-085-24										
	M24	36	070-085-2436		-										
	-	-	070-085-31		-		25-115		25	-					
	M30	36	070-085-3036		070-085-30										
8-108 L	-	-	070-108-25		-		22-145	205	22	38	88	42	57	8	50
	M22	24	070-108-2224		070-108-22										
	M24	28	070-108-2428		070-108-24										
	M24	36	070-108-2436		-										
	-	-	070-108-31		-		25-148		25	-					
	M30	36	070-108-3036		070-108-30										

Multi-Quick MO 70 (Spare Parts)



Clamping Shoe		Fixing Set		Clamping Arm		Protection Plate		Spring with Screw		Ball Pressure Screw		Allen Key	
Part No.		Part No.		Part No.		Part No.		Part No.		Part No.		Part No.	
070-2-095-13		–		070-3-052-13 K		991-150-12-1		360-070-013		310-16-050		610-08	
070-2-095-0810		960-0810-25											
070-2-095-1012		960-1012-29											
070-2-095-1214		960-1214-31											
070-2-135-13		–		070-3-072-13 L		991-150-12-1		360-070-013		310-16-055		610-08	
070-2-135-0810		960-0810-25											
070-2-135-1012		960-1012-29											
070-2-135-1214		960-1214-31											
070-2-110-17		–		070-3-062-17 K		991-150-16-1		360-070-017		310-20-055		610-10	
070-2-110-1416		960-1416-35											
070-2-110-1618		960-1618-40											
070-2-155-17		–		070-3-082-17 L		991-150-16-1		360-070-017		310-20-060		610-10	
070-2-155-1416		960-1416-35											
070-2-155-1618		960-1618-40											
070-2-125-21		–		070-3-070-21 K		991-7020-1		360-070-021		310-24-070		610-12	
070-2-125-1820		960-1820-45											
070-2-125-2022		960-2022-51											
070-2-175-21		–		070-3-092-21 L		991-150-20-1		360-070-021		310-24-080		610-12	
070-2-175-1820		960-1820-45											
070-2-175-2022		960-2022-51											
070-2-150-25		–		070-3-085-25 K		991-7024-1		360-070-025		310-24-080		610-12	
070-2-150-2224		960-2224-55											
070-2-150-2428		960-2428-60											
070-2-150-2436		960-2436-72											
070-2-150-31		–											
070-2-150-3036		960-3036-75											
070-2-205-25		–		070-3-108-25 L		991-150-24-1		360-070-025		310-24-090		610-12	
070-2-205-2224		960-2224-55											
070-2-205-2428		960-2428-60											
070-2-205-2436		960-2436-72											
070-2-205-31		–											
070-2-205-3036		960-3036-75											

Multi-Quick – Flexible clamping solutions

MQ 100 – 134

MQ 100 has a clamping force up to 60 kN. These clamps offer a greater stepless adjustment, both vertically and horizontally. This is in part due to the integrated sliding plate.

Safety Instructions:

When used on vertical machine tables (injection moulding machines, tilt and turn tables) please note the Friction Force $F_r = \mu \times F_{sp}$.

F_{sp} = Clamping Force, μ = Friction-Force (steel on steel $\mu = 0,2$).

MQ 106 has a clamping force up to 60 kN. Even greater stepless horizontal adjustment due to elongated slot in clamping shoe.

Example:

Clamping Force $F_{sp} = 50 \text{ kN}$, Friction-Force $= 0,2 \times 50 \text{ kN} = 10 \text{ kN}$ per Clamp. A workpiece of $10 \text{ kN} = 1 \text{ ton}$ can be clamped on a vertical machine table with a Clamping Force F_{sp} of 50 kN.





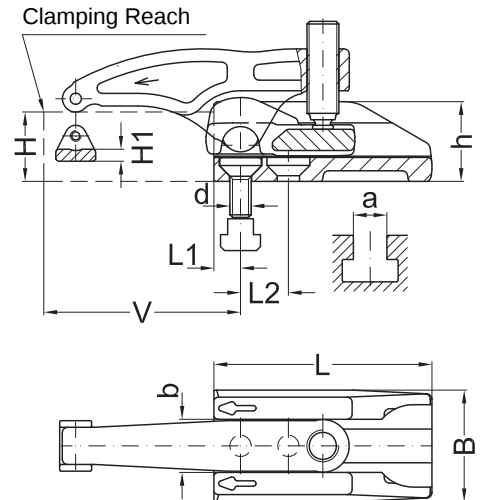
Multi-Quick MQ 100 Series 8 (complete)

Clamping Force: **Up to 22 kN**

Application Examples:
Injection moulding, light and
medium milling and drilling

- Patented
- Stepless vertically and horizontally adjustable

- **Material: Hardened alloy steel**
- **Clamping Arm / Clamping Shoe: Drop forged**



			for T-Slots		for Tapped Holes										
H	d	a	Part No.		Part No.		V	L	L1	L2	B	b	h	H1	kN
5-38 K	-	-	100-038-09		-		15-50	65	10	-	42	20	30	4	22
	M06	8	100-038-0608		100-038-06										
	M08	10	100-038-0810		100-038-08										
	M08	12	100-038-0812		-										
	-	-	100-038-13		-										
	M10	12	100-038-1012		100-038-10										
	M12	14	100-038-1214		100-038-12										
5-45 L	-	-	100-045-09		-		15-62	82	10	18	42	20	30	4	22
	M06	8	100-045-0608		100-045-06										
	M08	10	100-045-0810		100-045-08										
	M08	12	100-045-0812		-										
	-	-	100-045-13		-										
	M10	12	100-045-1012		100-045-10										
	M12	14	100-045-1214		100-045-12										

Multi-Quick MQ 100 Series 8 (Spare Parts)



Clamping Shoe		Fixing Set		Clamping Arm with Sliding Plate		Protection Plate		Spring with Screw		Ball Pressure Screw		Allen Key	
Part No.		Part No.		Part No.		Part No.		Part No.		Part No.		Part No.	
100-2-065-09		–		106-5-033-09		991-150-08-1		360-100-09		310-12-036		610-06	
100-2-065-0608		960-0608-24-8		K									
100-2-065-0810		960-0810-26-8											
100-2-065-0812		960-0812-26-8											
100-2-065-13		–											
100-2-065-1012		960-1012-27-8											
100-2-065-1214		960-1214-30-8											
100-2-082-09		–		106-5-040-09		991-150-08-1		360-100-09		310-12-040		610-06	
100-2-082-0608		960-0608-24-8		L									
100-2-082-0810		960-0810-26-8											
100-2-082-0812		960-0812-26-8											
100-2-082-13		–											
100-2-082-1012		960-1012-27-8											
100-2-082-1214		960-1214-30-8											

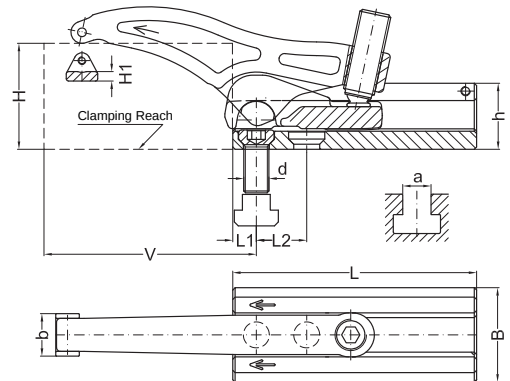
Multi-Quick MQ 100 (complete)

Clamping Force: **Up to 60 kN**

Application Examples:
Injection moulding, pressing, stamping and metal cutting

- Patented
- Stepless vertically and horizontally adjustable
- Greater stepless adjustment due to the integrated sliding plate

- **Material:** Hardened alloy steel
- **Clamping Arm:** Drop forged



			for T-Slots		for Tapped Holes										
H	d	a	Part No.		Part No.		V	L	L1	L2	B	b	h	H1	kN
0-48 K	–	–	100-048-13		–		12-82	95	12	20	52	24	37	5	32
	M08	10	100-048-0810		100-048-08										
	M10	12	100-048-1012		100-048-10										
	M12	14	100-048-1214		100-048-12										
5-68 L	–	–	100-067-13		–		12-112	135	12	28	52	24	37	5	30
	M08	10	100-067-0810		100-067-08										
	M10	12	100-067-1012		100-067-10										
	M12	14	100-067-1214		100-067-12										
0-55 K	–	–	100-055-17		–		15-95	110	15	25	60	28	42	6	40
	M14	16	100-055-1416		100-055-14										
	M16	18	100-055-1618		100-055-16										
6-80 L	–	–	100-078-17		–		15-135	155	15	32	60	28	42	6	43
	M14	16	100-078-1416		100-078-14										
	M16	18	100-078-1618		100-078-16										
0-62 K	–	–	100-062-21		–		19-110	125	19	32	75	34	48	7	45
	M18	20	100-062-1820		100-062-18										
	M20	22	100-062-2022		100-062-20										
7-90 L	–	–	100-088-21		–		19-159	175	19	38	75	34	48	7	49
	M18	20	100-088-1820		100-088-18										
	M20	22	100-088-2022		100-088-20										
8-80 K	–	–	100-077-25		–		22-125	150	22	38	88	42	57	8	55
	M22	24	100-077-2224		100-077-22										
	M24	28	100-077-2428		100-077-24										
	M24	36	100-077-2436		–										
	–	–	100-077-31		–										
	M30	36	100-077-3036		100-077-30										
8-105 L	–	–	100-102-25		–		22-182	205	22	45	88	42	57	8	60
	M22	24	100-102-2224		100-100-22										
	M24	28	100-102-2428		100-100-24										
	M24	36	100-102-2436		–										
	–	–	100-102-31		–										
	M30	36	100-102-3036		100-100-30										
							25-185	205	25	45	88	42	57	8	60

Multi-Quick MO 100 (Spare Parts)



Clamping Shoe		Fixing Set		Clamping Arm with Sliding Plate		Protection Plate		Spring with Screw		Ball Pressure Screw		Allen Key	
Part No.		Part No.		Part No.		Part No.		Part No.		Part No.		Part No.	
100-2-095-13		–		220-5-038-13		991-150-12-1		360-100-113		310-16-055		610-08	
100-2-095-0810		960-0810-25		K									
100-2-095-1012		960-1012-29											
100-2-095-1214		960-1214-31											
100-2-135-13		–		220-5-057-13		991-150-12-1		360-100-113		310-16-060		610-08	
100-2-135-0810		960-0810-25		L									
100-2-135-1012		960-1012-29											
100-2-135-1214		960-1214-31											
100-2-110-17		–		220-5-043-17		991-150-16-1		360-100-117		310-20-060		610-10	
100-2-110-1416		960-1416-35		K									
100-2-110-1618		960-1618-40											
100-2-155-17		–		220-5-068-17		991-150-16-1		360-100-117		310-20-070		610-10	
100-2-155-1416		960-1416-35		L									
100-2-155-1618		960-1618-40											
100-2-125-21		–		220-5-062-21		991-150-20-1		360-100-121		310-24-070		610-12	
100-2-125-1820		960-1820-45		K									
100-2-125-2022		960-2022-51											
100-2-175-21		–		220-5-078-21		991-150-20-1		360-100-121		310-24-090		610-12	
100-2-175-1820		960-1820-45		L									
100-2-175-2022		960-2022-51											
100-2-150-25		–		200-5-070-25		991-7024-1		360-100-125		310-24-070		610-12	
100-2-150-2224		960-2224-55		K									
100-2-150-2428		960-2428-60											
100-2-150-2436		960-2436-72											
100-2-150-31		–											
100-2-150-3036		960-3036-75											
100-2-205-25		–		220-5-085-25		991-150-24-1		360-100-125		310-24-090		610-12	
100-2-205-2224		960-2224-55		L									
100-2-205-2428		960-2428-60											
100-2-205-2436		960-2436-72											
100-2-205-31		–											
100-2-205-3036		960-3036-75											

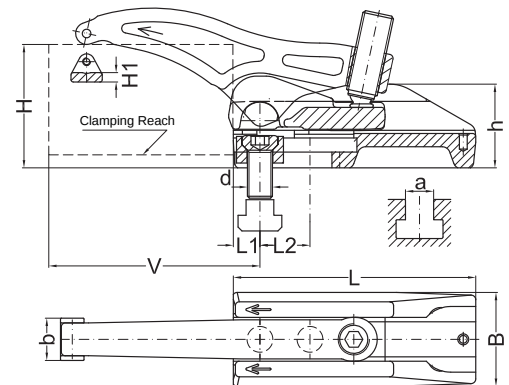
Multi-Quick MQ 106 (complete)

Clamping Force: **Up to 60 kN**

Application Examples:
Injection moulding, pressing, stamping and metal cutting

- Patented
- Stepless vertically and horizontally adjustable
- Greater horizontal adjustment due to the integrated sliding plate

- **Material: Hardened alloy steel**
- **Clamping Arm / Clamping Shoe: Drop forged**



			for T-Slots		for Tapped Holes										
H	d	a	Part No.		Part No.		V	L	L1	L2	B	b	h	H1	kN
10-58 K	-	-	106-058-13		-		14-84	96	14	16	50	24	47	5	30
	M08	10	106-058-0810		106-058-08										
	M10	12	106-058-1012		106-058-10										
	M12	14	106-058-1214		106-058-12										
15-75 L	-	-	106-075-13		-		14-114	136	14	26	50	24	47	5	32
	M08	10	106-075-0810		106-075-08										
	M10	12	106-075-1012		106-075-10										
	M12	14	106-075-1214		106-075-12										
12-65 K	-	-	106-065-17		-		17-97	111	17	18	60	28	54	6	40
	M14	16	106-065-1416		106-065-14										
	M16	18	106-065-1618		106-065-16										
16-92 L	-	-	106-090-17		-		17-137	156	17	28	60	28	54	6	43
	M14	16	106-090-1416		106-090-14										
	M16	18	106-090-1618		106-090-16										
18-105 L	-	-	106-102-21		-		21-160	181	21	36	72	34	62	7	50
	M18	20	106-102-1820		106-102-18										
	M20	22	106-102-2022		106-102-20										
15-115 L	-	-	106-115-25		-		24-184	211	24	43	88	42	72	8	60
	M22	24	106-115-2224		106-115-22										
	M24	28	106-115-2428		106-115-24										
	M24	36	106-115-2436		-										
	-	-	106-115-31		-										
	M30	36	106-115-3036		106-115-30										
							29-189	211	25	40	88	42	72	8	60

Multi-Quick MO 106 (Spare Parts)



Clamping Shoe		Fixing Set		Profile Nut		Clamping Arm with Sliding Plate		Protection Plate		Spring with Screw		Ball Pressure Screw		Allen Key	
Part No.		Part No.		Part No.		Part No.		Part No.		Part No.		Part No.		Part No.	
106-2-096-13		—		200-6-024-13		106-5-038-13		991-150-12-1		360-100-113		310-16-055		610-08	
106-2-096-0810		960-0810-33				K									
106-2-096-1012		960-1012-35													
106-2-096-1214		960-1214-42													
106-2-136-13		—		200-6-024-13		106-5-057-13		991-150-12-1		360-100-113		310-16-060		610-08	
106-2-136-0810		960-0810-33				L									
106-2-136-1012		960-1012-35													
106-2-136-1214		960-1214-42													
106-2-111-17		—		220-6-030-17		106-5-043-17		991-150-16-1		360-100-117		310-20-060		610-10	
106-2-111-1416		960-1416-41				K									
106-2-111-1618		960-1618-48													
106-2-156-17		—		220-6-030-17		106-5-068-17		991-150-16-1		360-100-117		310-20-070		610-10	
106-2-156-1416		960-1416-41				L									
106-2-156-1618		960-1618-48													
106-2-181-21		—		220-6-038-21		106-5-078-21		991-150-20-1		360-100-121		310-24-090		610-12	
106-2-181-1820		960-1820-55				L									
106-2-181-2022		960-2022-60													
106-2-211-25		—		220-6-044-25		106-5-085-25		991-150-24-1		360-100-125		310-24-090		610-12	
106-2-211-2224		960-2224-68				L									
106-2-211-2428		960-2428-72													
106-2-211-2436		960-2436-86													
106-2-211-31		—		220-6-050-31											
106-2-211-3036		960-3036-86													

Multi-Quick MQ 110 (complete)

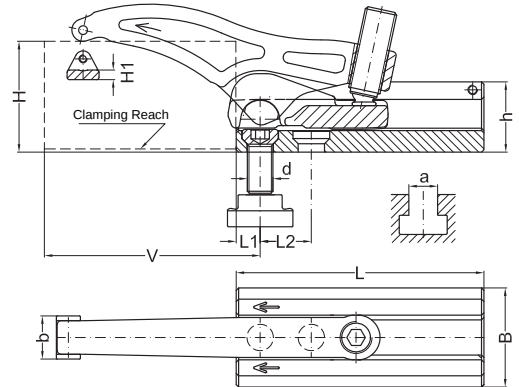
Clamping Force: **Up to 40 kN**



Application Example: Metal cutting

- Patented
- Stepless vertically and horizontally adjustable
- Greater horizontal adjustment due to the integrated sliding plate

- **Material: Hardened alloy steel**
- **Clamping Arm: Drop forged**
- **Clamping Shoe: Aluminium alloy, helps to protect the machine table**



			for T-Slots		for Tapped Holes										
H	d	a	Part No.		Part No.		V	L	L1	L2	B	b	h	H1	kN
5-53	-	-	110-053-13		-		12-80	95	12	20	54	24	44	5	25
K	M08	10	110-053-0810		110-053-08										
	M10	12	110-053-1012		110-053-10										
	M12	14	110-053-1214		110-053-12										
10-73	-	-	110-073-13		-		12-110	135	12	28	54	24	44	5	25
L	M08	10	110-073-0810		110-073-08										
	M10	12	110-073-1012		110-073-10										
	M12	14	110-073-1214		110-073-12										
5-60	-	-	110-060-17		-		15-92	110	15	25	64	28	50	6	35
K	M14	16	110-060-1416		110-060-14										
	M16	18	110-060-1618		110-060-16										
11-85	-	-	110-083-17		-		15-132	155	15	32	64	28	50	6	35
L	M14	16	110-083-1416		110-083-14										
	M16	18	110-083-1618		110-083-16										
5-65	-	-	110-065-21		-		19-105	125	19	30	80	34	55	7	40
K	M18	20	110-065-1820		110-065-18										
	M20	22	110-065-2022		110-065-20										
	M20	28	110-065-2028		-										
12-95	-	-	110-093-21		-		19-151	175	19	38	80	34	55	7	40
L	M18	20	110-093-1820		110-093-18										
	M20	22	110-093-2022		110-093-20										
	M20	28	110-093-2028		-										

Multi-Quick MQ 110 (Spare Parts)



Clamping Shoe		Fixing Set		Clamping Arm with Sliding Plate		Protection Plate		Spring with Screw		Ball Pressure Screw		Allen Key	
Part No.		Part No.		Part No.		Part No.		Part No.		Part No.		Part No.	
110-2-095-13		–		220-5-038-13		991-150-12-1		360-100-113		310-16-055		610-08	
110-2-095-0810		969-0810-29		K									
110-2-095-1012		969-1012-35											
110-2-095-1214		969-1214-35											
110-2-135-13		–		220-5-057-13		991-150-12-1		360-100-113		310-16-060		610-08	
110-2-135-0810		969-0810-29		L									
110-2-135-1012		969-1012-35											
110-2-135-1214		969-1214-35											
110-2-110-17		–		220-5-043-17		991-150-16-1		360-100-117		310-20-060		610-10	
110-2-110-1416		969-1416-41		K									
110-2-110-1618		969-1618-45											
110-2-155-17		–		220-5-068-17		991-150-16-1		360-100-117		310-20-070		610-10	
110-2-155-1416		969-1416-41		L									
110-2-155-1618		969-1618-45											
110-2-125-21		–		220-5-062-21		991-150-20-1		360-100-121		310-24-080		610-12	
110-2-125-1820		969-1820-51		K									
110-2-125-2022		969-2022-51											
110-2-125-2028		969-2028-60											
110-2-175-21		–		220-5-078-21		991-150-20-1		360-100-121		310-24-090		610-12	
110-2-175-1820		969-1820-51		L									
110-2-175-2022		969-2022-51											
110-2-175-2028		969-2028-60											

Multi-Quick MQ 130 (complete)

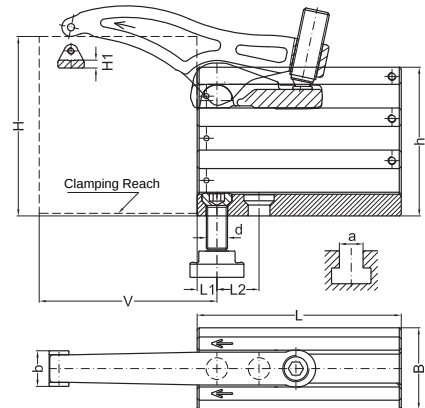
Clamping Force: **Up to 35 kN**



Application Examples: Light milling and drilling

- Patented
- Stepless vertically and horizontally adjustable
- Greater horizontal adjustment due to the integrated sliding plate
- Increased clamping heights due to the three level clamping shoe

- **Material: Hardened alloy steel**
- **Clamping Arm: Drop forged**
- **Clamping Shoe: Aluminium alloy, helps to protect the machine table**



			for T-Slots		for Tapped Holes										
H	d	a	Part No.		Part No.		V	L	L1	L2	B	b	h	H1	kN
5-109 K	-	-	130-109-13		-		12-80	95	12	20	54	24	100	5	20
	M08	10	130-109-0810		130-109-08										
	M10	12	130-109-1012		130-109-10										
	M12	14	130-109-1214		130-109-12										
10-128 L	-	-	130-128-13		-		12-110	135	12	28	54	24	100	5	20
	M08	10	130-128-0810		130-128-08										
	M10	12	130-128-1012		130-128-10										
	M12	14	130-128-1214		130-128-12										
5-124 K	-	-	130-124-17		-		15-92	110	15	25	64	28	114	6	30
	M14	16	130-124-1416		130-124-14										
	M16	18	130-124-1618		130-124-16										
11-148 L	-	-	130-146-17		-		15-132	155	15	32	64	28	114	6	30
	M14	16	130-146-1416		130-146-14										
	M16	18	130-146-1618		130-146-16										
5-142 K	-	-	130-142-21		-		19-106	125	19	32	80	34	134	7	35
	M18	20	130-142-1820		130-142-18										
	M20	22	130-142-2022		130-142-20										
	M20	28	130-142-2028		-										
12-170 L	-	-	130-169-21		-		19-151	175	19	38	80	34	134	7	35
	M18	20	130-169-1820		130-169-18										
	M20	22	130-169-2022		130-169-20										
	M20	28	130-169-2028		-										

Multi-Quick MO 130 (Spare Parts)



Clamping Shoe		Fixing Set		Clamping Arm with Sliding Plate		Protection Plate		Spring with Screw		Ball Pressure Screw		Allen Key	
Part No.		Part No.		Part No.		Part No.		Part No.		Part No.		Part No.	
130-2-095-13		–		220-5-038-13		991-150-12-1		360-100-113		310-16-055		610-08	
130-2-095-0810		969-0810-29		K									
130-2-095-1012		969-1012-35											
130-2-095-1214		969-1214-35											
130-2-135-13		–		220-5-057-13		991-150-12-1		360-100-113		310-16-060		610-08	
130-2-135-0810		969-0810-29		L									
130-2-135-1012		969-1012-35											
130-2-135-1214		969-1214-35											
130-2-110-17		–		220-5-043-17		991-150-16-1		360-100-117		310-20-060		610-10	
130-2-110-1416		969-1416-41		K									
130-2-110-1618		969-1618-45											
130-2-155-17		–		220-5-068-17		991-150-16-1		360-100-117		310-20-070		610-10	
130-2-155-1416		969-1416-41		L									
130-2-155-1618		969-1618-45											
130-2-125-21		–		220-5-062-21		991-150-20-1		360-100-121		310-24-070		610-12	
130-2-125-1820		969-1820-51		K									
130-2-125-2022		969-2022-51											
130-2-125-2028		969-2028-60											
130-2-175-21		–		220-5-078-21		991-150-20-1		360-100-121		310-24-090		610-12	
130-2-175-1820		969-1820-51		L									
130-2-175-2022		969-2022-51											
130-2-175-2028		969-2028-60											

Multi-Quick MQ 134 (complete)

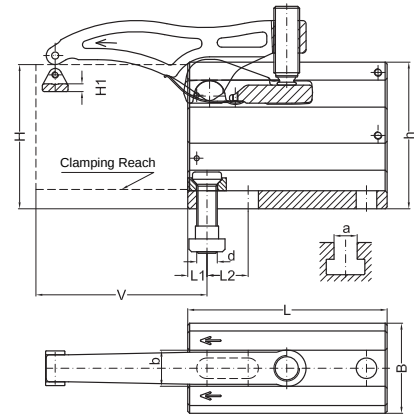
Clamping Force: **Up to 40 kN**



Application Examples: Medium milling and drilling

- Patented
- Stepless vertically and horizontally adjustable
- Greater horizontal adjustment due to the integrated sliding plate
- Greater vertical adjustment due to the two level clamping shoe

- **Material: Hardened alloy steel**
- **Clamping Arm: Drop forged**
- **Clamping Shoe: Aluminium alloy, helps to protect the machine table**



			for T-Slots		for Tapped Holes										
H	d	a	Part No.		Part No.		V	L	L1	L2	B	b	h	H1	kN
15-128	–	–	134-128-13		–		12-111	135	12	28	58	24	99	5	25
L	M08	10	134-128-0810		134-128-08										
	M10	12	134-128-1012		134-128-10										
	M12	14	134-128-1214		134-128-12										
20-150	–	–	134-146-17		–		15-134	155	15	32	70	28	114	6	35
L	M14	16	134-146-1416		134-146-14										
	M16	18	134-146-1618		134-146-16										
20-170	–	–	134-169-21		–		19-156	180	19	38	82	34	134	7	40
L	M18	20	134-169-1820		134-169-18										
	M20	22	134-169-2022		134-169-20										
	M20	28	134-169-2028		–										
	–	–	134-169-25		–		22-159	180	22	32	82	34	134	7	40
	M24	28	134-169-2428		134-169-24										

Multi-Quick MO 134 (Spare Parts)



Clamping Shoe		Fixing Set		Profile Nut	Clamping Arm with Sliding Plate	Protection Plate	Spring with Screw	Ball Pressure Screw	Allen Key
Part No.		Part No.		Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
134-2-135-13		–		220-6-024-13	220-5-057-13	991-150-12-1	360-100-113	310-16-060	610-08
134-2-135-0810		960-0810-40			L				
134-2-135-1012		960-1012-38							
134-2-135-1214		960-1214-42							
134-2-155-17		–		134-6-030-17	220-5-068-17	991-150-16-1	360-100-117	310-20-070	610-10
134-2-155-1416		960-1416-55			L				
134-2-155-1618		960-1618-55							
134-2-180-21		–		134-6-038-21	220-5-078-21	991-150-20-1	360-100-121	310-24-090	610-12
134-2-180-1820		960-1820-60			L				
134-2-180-2022		960-2022-68							
134-2-180-2028		960-2028-75							
134-2-180-25		–		134-6-044-25					
134-2-180-2428		960-2428-74							

Multi-Quick – Flexible clamping solutions

MQ 150 – 200

MQ 150/160 has a clamping force up to 40 kN.

These clamps offer exceptional stepless, vertical and horizontal, adjustment. The horizontal Profile Nut (only MQ 160) increases the stepless horizontal adjustment.

MQ 200 has a clamping force up to 60 kN.

These clamps offer, due to the integrated sliding plate and the two level clamping shoe, even more vertical and horizontal adjustment. The horizontal Profile Nut increases the stepless horizontal adjustment.





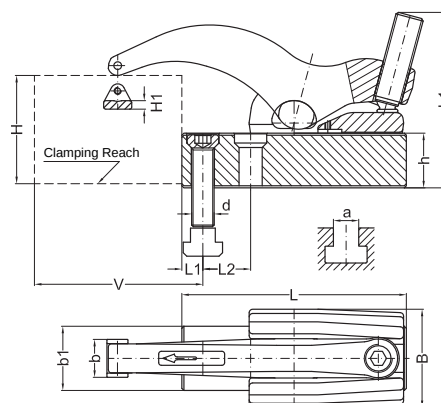
Multi-Quick MQ 150 (complete)

Clamping Force: **Up to 40 kN**

Application Example: Metal cutting

- Patented
- Double stepless adjustment
- Great stepless vertical and horizontal adjustment

- Material: Hardened alloy steel
- Clamping Arm: Drop forged



			for T-Slots	for Tapped Holes													
H	d	a	Part No.		Part No.		V	L	L1	L2	B	b	b1	h	h1	H1	kN
5-80 L	–	–	150-080-13		–		10-126	140	12	28	56	24	38	31	105	5	30
	M10	12	150-080-1012		150-080-10												
	M12	14	150-080-1214		150-080-12												
	M12	16	150-080-1216		–												
	M12	18	150-080-1218		–												
6-92 L	–	–	150-092-17		–		10-150	160	15	34	70	28	46	39	126	6	40
	M14	16	150-092-1416		150-092-14												
	M16	18	150-092-1618		150-092-16												
	M16	20	150-092-1620		–												
	M16	22	150-092-1622		–												

Multi-Quick MQ 150 (Spare Parts)



Clamping Rail		Fixing Set		Clamping Arm with sliding shoe		Protection Plate		Spring with Screw		Ball Pressure Screw		Allen Key	
Part No.		Part No.		Part No.		Part No.		Part No.		Part No.		Part No.	
150-2-140-13		–		150-5-080-13		991-150-12-1		360-100-113		310-16-060		610-08	
150-2-140-1012		960-1012-48		L									
150-2-140-1214		960-1214-50											
150-2-140-1216		960-1216-50											
150-2-140-1218		960-1218-58											
150-2-160-17		–		150-5-092-17		991-150-16-1		360-100-117		310-20-070		610-10	
150-2-160-1416		960-1416-62		L									
150-2-160-1618		960-1618-65											
150-2-160-1620		960-1620-65											
150-2-160-1622		960-1622-70											

Multi-Quick MQ 160 (complete)

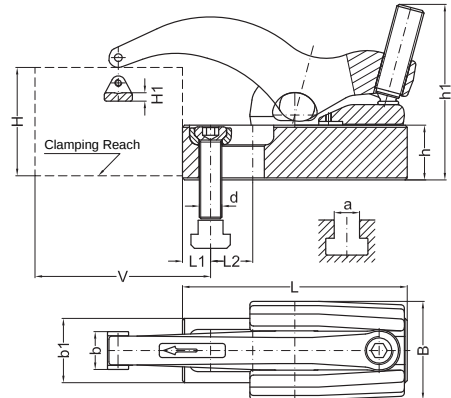
Clamping Force: **Up to 40 kN**



Application Example: Metal cutting

- Patented
- Double stepless adjustment
- Great stepless vertical and horizontal adjustment

- **Material: Hardened alloy steel**
- **Clamping Arm: Drop forged**
- **Clamping Rail: Hardened alloy steel, with elongated slot**



			for T-Slots		for Tapped Holes												
H	d	a	Part No.		Part No.		V	L	L1	L2	B	b	b1	h	h1	H1	kN
5-80	-	-	160-080-13		-		16-130	140	16	25	56	24	38	31	105	5	30
L	M10	12	160-080-1012		160-080-10												
	M12	14	160-080-1214		160-080-12												
	M12	16	160-080-1216		-												
	M12	18	160-080-1218		-												
6-92	-	-	160-092-17		-		20-155	160	30	30	70	28	46	39	126	6	40
L	M14	16	160-092-1416		160-092-14												
	M16	18	160-092-1618		160-092-16												
	M16	20	160-092-1620		-												
	M16	22	160-092-1622		-												

Multi-Quick MO 160 (Spare Parts)



Clamping Rail		Fixing Set		Profile Nut		Clamping Arm with sliding shoe		Protection Plate		Spring with Screw		Ball Pressure Screw		Allen Key	
Part No.		Part No.		Part No.		Part No.		Part No.		Part No.		Part No.		Part No.	
160-2-140-13		–		160-6-025-13		160-5-080-13		991-150-12-1		360-100-113		310-16-060		610-08	
160-2-140-1012		964-1012-48				L									
160-2-140-1214		964-1214-50													
160-2-140-1216		964-1216-50													
160-2-140-1218		964-1218-58													
160-2-160-17		–		160-6-030-17		160-5-092-17		991-150-16-1		360-100-117		310-20-070		610-10	
160-2-160-1416		964-1416-62				L									
160-2-160-1618		964-1618-65													
160-2-160-1620		964-1620-65													
160-2-160-1622		964-1622-70													

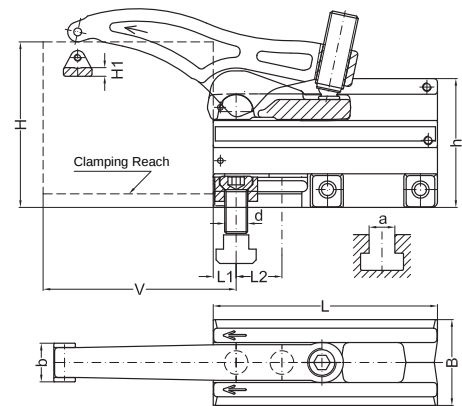
Multi-Quick MQ 200 (complete)

Application Examples:
Injection moulding, pressing, stamping and metal cutting

- Patented
- Stepless vertically and horizontally adjustable
- Greater horizontal adjustment due to the integrated sliding plate

Clamping Force: **Up to 60 kN**

- **Material: Hardened alloy steel**
- **Clamping Arm / Clamping Shoe: Drop forged**



			for T-Slots		for Tapped Holes										
H	d	a	Part No.		Part No.		V	L	L1	L2	B	b	h	H1	kN
10-90 K	-	-	200-090-13		-		14-84	95	14	20	54	24	82	5	30
	M08	10	200-090-0810		200-090-08										
	M10	12	200-090-1012		200-090-10										
	M12	14	200-090-1214		200-090-12										
15-110 L	-	-	200-110-13		-		14-112	135	14	30	54	24	82	5	32
	M08	10	200-110-0810		200-110-08										
	M10	12	200-110-1012		200-110-10										
	M12	14	200-110-1214		200-110-12										
12-100 K	-	-	200-100-17		-		17-97	110	17	20	62	28	90	6	40
	M14	16	200-100-1416		200-100-14										
	M16	18	200-100-1618		200-100-16										
16-127 L	-	-	200-125-17		-		17-135	155	17	30	62	28	90	6	43
	M14	16	200-125-1416		200-125-14										
	M16	18	200-125-1618		200-125-16										
20-125 K	-	-	200-120-21		-		21-110	125	21	25	74	34	106	7	50
	M18	20	200-120-1820		200-120-18										
	M20	22	200-120-2022		200-120-20										
20-145 L	-	-	200-140-21		-		21-156	180	21	40	74	34	106	7	50
	M18	20	200-140-1820		200-140-18										
	M20	22	200-140-2022		200-140-20										
18-135 K	-	-	200-135-25		-		24-130	150	24	28	86	42	122	8	60
	M22	24	200-135-2224		200-135-22										
	M24	28	200-135-2428		200-135-24										
	M24	36	200-135-2436		-										
	-	-	200-135-31		-		29-135	150	27	20	86	42	122	8	60
20-160 L	-	-	200-160-25		-		24-184	210	24	44	86	42	122	8	60
	M22	24	200-160-2224		200-160-22										
	M24	28	200-160-2428		200-160-24										
	M24	36	200-160-2436		-										
	-	-	200-160-31		-		29-189	210	37	38	86	42	122	8	60
	M30	36	200-160-3036		200-160-30										

Multi-Quick MO 200 (Spare Parts)



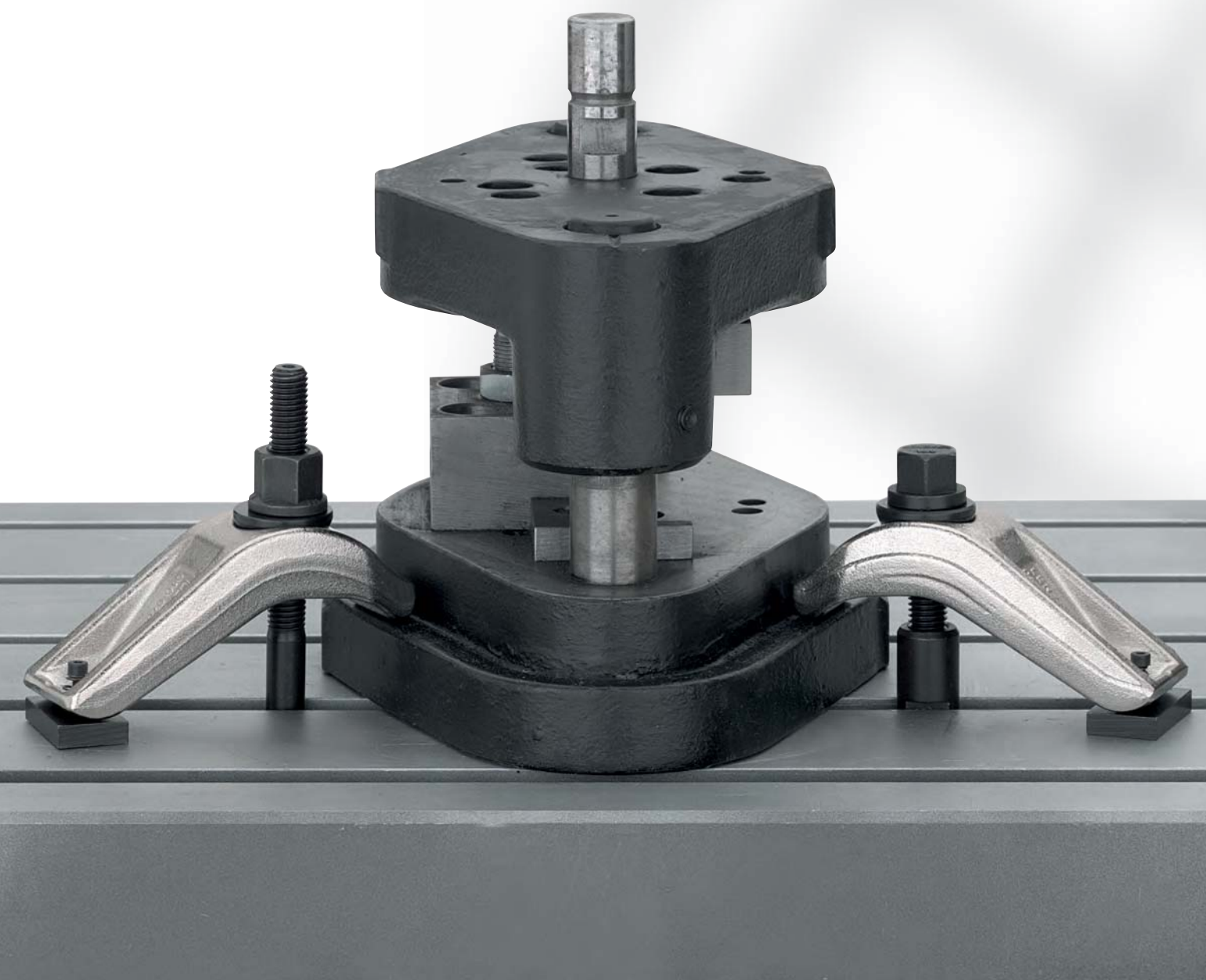
Clamping Shoe		Fixing Set		Profile Nut		Clamping Arm with Sliding Plate		Protection Plate		Spring with Screw		Ball Pressure Screw		Allen Key	
Part No.		Part No.		Part No.		Part No.		Part No.		Part No.		Part No.		Part No.	
200-2-095-13		–		220-6-024-13		220-5-038-13		991-150-12-1		360-100-113		310-16-055		610-08	
200-2-095-0810		960-0810-29				K									
200-2-095-1012		960-1012-35													
200-2-095-1214		960-1214-42													
200-2-135-13		–		220-6-024-13		220-5-057-13		991-150-12-1		360-100-113		310-16-060		610-08	
200-2-135-0810		960-0810-29				L									
200-2-135-1012		960-1012-35													
200-2-135-1214		960-1214-42													
200-2-110-17		–		220-6-030-17		220-5-043-17		991-150-16-1		360-100-117		310-20-060		610-10	
200-2-110-1416		960-1416-41				K									
200-2-110-1618		960-1618-48													
200-2-155-17		–		220-6-030-17		220-5-068-17		991-150-16-1		360-100-117		310-20-070		610-10	
200-2-155-1416		960-1416-41				L									
200-2-155-1618		960-1618-48													
200-2-125-21		–		220-6-038-21		220-5-062-21		991-150-20-1		360-100-121		310-24-070		610-12	
200-2-125-1820		960-1820-60				K									
200-2-125-2022		960-2022-60													
200-2-180-21		–		220-6-038-21		220-5-078-21		991-150-20-1		360-100-121		310-24-090		610-12	
200-2-180-1820		960-1820-60				L									
200-2-180-2022		960-2022-60													
200-2-150-25		–		220-6-044-25		220-5-072-25		991-150-24-1		360-100-125		310-24-080		610-12	
200-2-150-2224		960-2224-68				K									
200-2-150-2428		960-2428-78													
200-2-150-2436		960-2436-86													
200-2-150-31		–		220-6-050-31											
200-2-150-3036		960-3036-86													
200-2-210-25		–		220-6-044-25		220-5-085-25		991-150-24-1		360-100-125		310-24-090		610-12	
200-2-210-2224		960-2224-68				L									
200-2-210-2428		960-2428-78													
200-2-210-2436		960-2436-86													
200-2-210-31		–		220-6-050-31											
200-2-210-3036		960-3036-86													

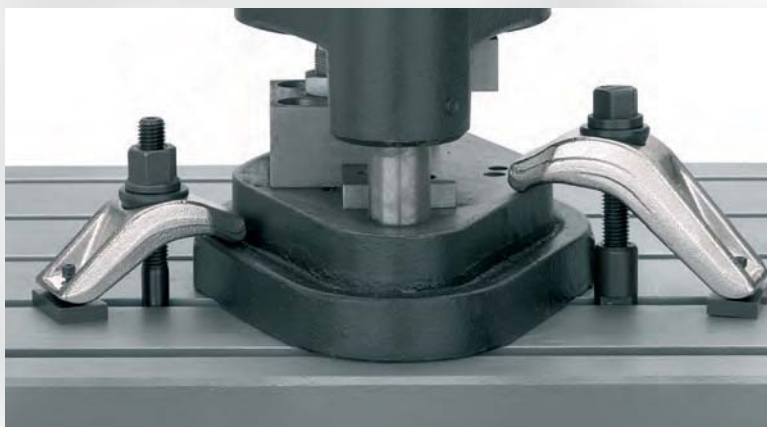
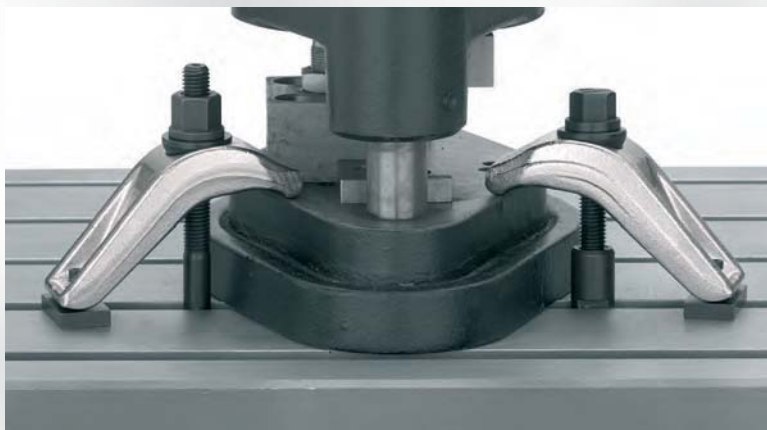
Clamping Frames – Flexible clamping solutions

S 10/S 30

S 10 and S 20 have a clamping force up to 70 kN. These clamps offer great stepless vertical adjustment. The S 20's are used when protruding bolts are obstructive.

S 30 and S 40 have a clamping force up to 70 kN. These clamps are adjustable both vertically and horizontally due to the unique grooved frame design and can clamp up to 260 mm high. The S 40's are used when protruding bolts are obstructive.





Clamping Frames S10 – S20 (complete)

Application Examples:
Pressure die casting, pressing, stamping,
heavy duty milling and drilling

- Stepless vertically adjustable
- S20: No protruding bolts
- Very high clamping forces

Clamping Force: **Up to 70 kN**

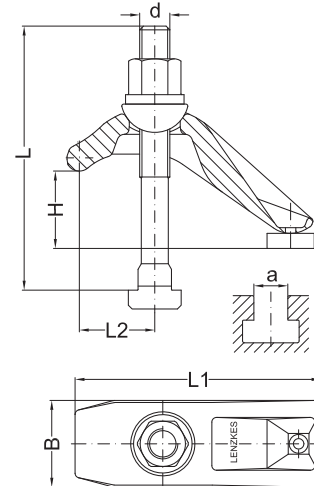
- Material: Tempered steel
- Clamping Frame: Drop forged



for T-Slots

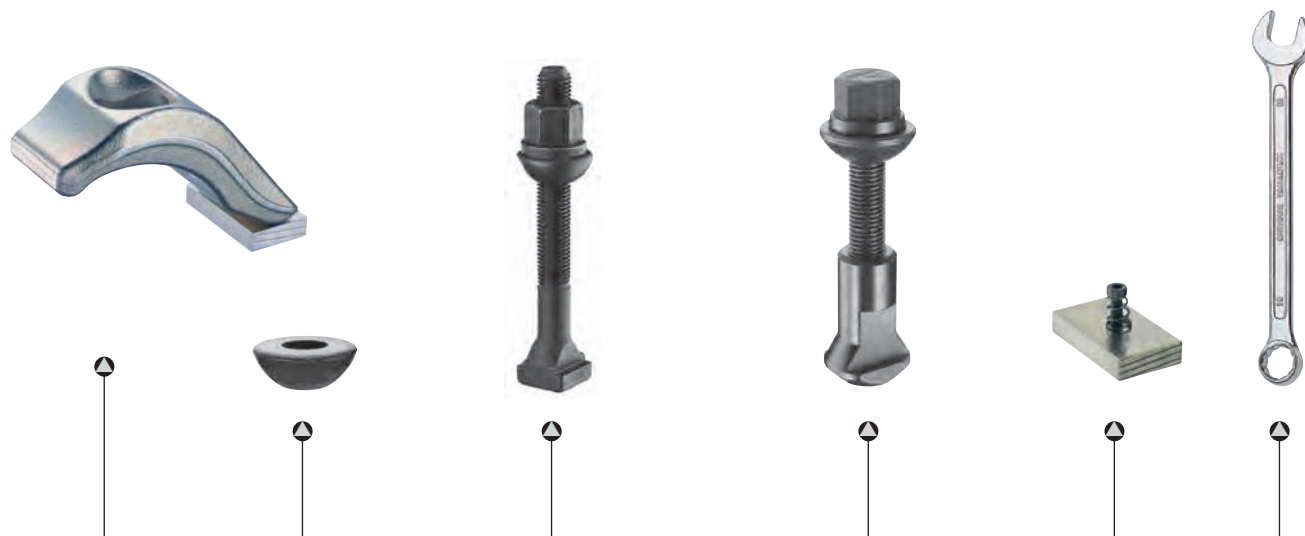


for T-Slots
(no protruding bolts)



			for T-Slots		for T-Slots (no protruding bolts)					
H	d	a	Part No.		Part No.		B	L1	L2	kN
0–45	M 8	10	–		020-045-0810		46	95	28–44	12
	M10	10	010-045-1010		–					18
	M10	12	–		020-045-1012					
	M12	12	010-045-1212		–					
	M12	14	010-045-1214		020-045-1214					20
	M14	16	010-045-1416		020-045-1416					30
	M16	16	010-045-1616		–					
	M16	18	010-045-1618		020-045-1618					
	M16	20	010-045-1620		020-045-1620					
	M16	22	010-045-1622		020-045-1622					
10–70	M10	12	010-070-1012		020-070-1012		46	125	34–35	18
	M12	12	010-070-1212		–					20
	M12	14	010-070-1214		020-070-1214					
	M14	16	010-070-1416		020-070-1416					32
	M16	16	010-070-1616		–					
	M16	18	010-070-1618		020-070-1618					
10–70	M18	20	010-070-1820		020-070-1820		52	125	39–58	45
	M20	20	010-070-2020		–					
	M20	22	010-070-2022		020-070-2022					
	M20	24	010-070-2024		020-070-2024					
	M20	28	010-070-2028		020-070-2028					

Clamping Frames S 10 – S 20 (Spare Parts)



Clamping Frame		Spherical Seat Washer		Fixing Set for T-Slot			Fixing Set for 020			Pressure Plate Assembly		Wrench	
Part No.		Part No.		Part No.	L		Part No.	L		Part No.		Part No.	
010-045-17		019-3510		–	–		920-045-0810	65		991-010		620-13	
				910-045-1010	100		–	–				620-16	
		019-3512		–	–		920-045-1012	65				620-18	
				910-045-1212	100		–	–					
				910-045-1214	112		920-045-1214	65					
		019-3516		910-045-1416	112		920-045-1416	70				620-21	
				910-045-1616	125		–	–				620-24	
				910-045-1618	125		920-045-1618	75					
				910-045-1620	150		920-045-1620	75					
				910-045-1622	150		920-045-1622	80					
010-070-17		019-3512		910-070-1012	125		920-070-1012	75		991-010		620-16	
				910-070-1212	125		–	–				620-18	
				910-070-1214	125		920-070-1214	80					
		019-3516		910-070-1416	140		920-070-1416	85				620-21	
				910-070-1616	160		–	–				620-24	
				910-070-1618	150		920-070-1618	85					
010-070-21		019-4020		910-070-1820	160		920-070-1820	95		991-030		620-27	
				910-070-2020	160		–	–				620-30	
				910-070-2022	160		920-070-2022	95					
				910-070-2024	170		920-070-2024	95					
				910-070-2028	180		920-070-2028	105					

Clamping Frames S10 – S20 (complete)

Application Examples:
Pressure die casting, pressing, stamping,
heavy duty milling and drilling

- Stepless vertically adjustable
- S20 No protruding bolts
- Very high clamping forces

Clamping Force: **Up to 70 kN**

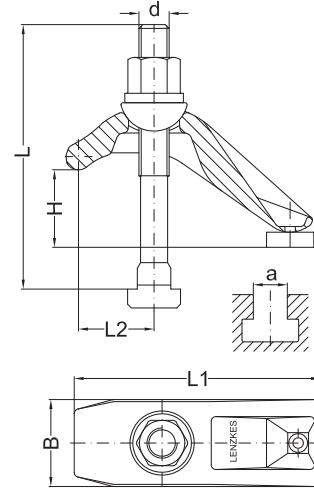
- **Material:** Tempered steel
- **Clamping Frame:** Drop forged



for T-Slots

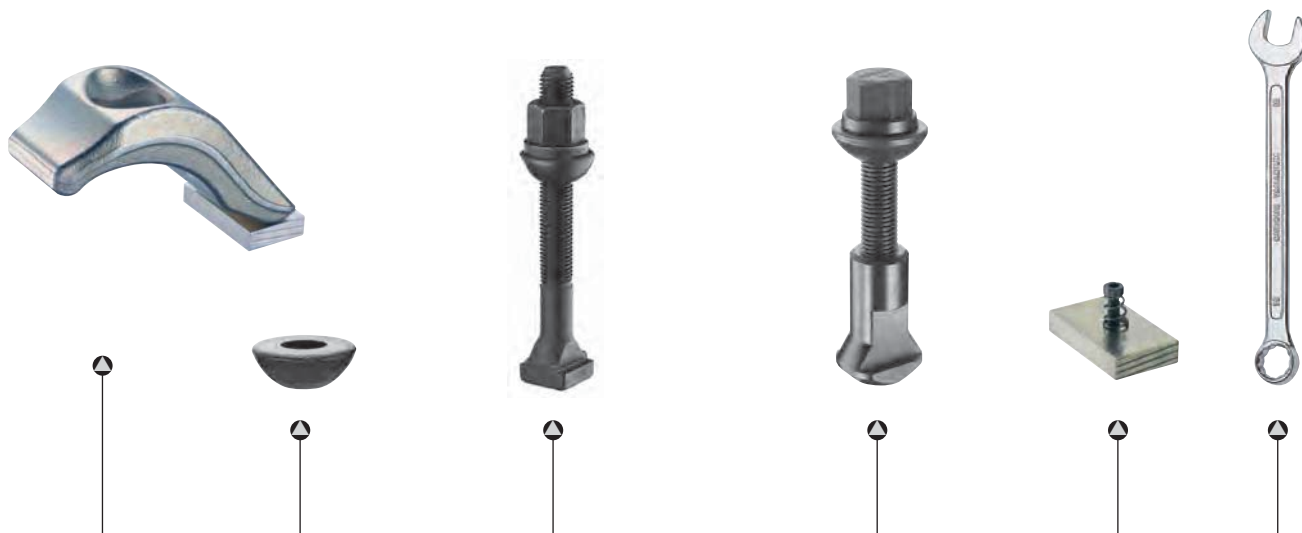


for T-Slots
(no protruding bolts)



			for T-Slots		for T-Slots (no protruding bolts)					
H	d	a	Part No.		Part No.		B	L1	L2	kN
30–110	M10	12	010-110-1012		020-110-1012		61	162	40–65	18
	M12	12	010-110-1212		–					
	M12	14	010-110-1214		020-110-1214					22
	M14	16	010-110-1416		020-110-1416					35
	M16	16	010-110-1616		–				50	
	M16	18	010-110-1618		020-110-1618					
	M18	20	010-110-1820		020-110-1820					
	M20	20	010-110-2020		–					
	M20	22	010-110-2022		020-110-2022				60	
	M22	24	010-110-2224		020-110-2224					
	M24	24	010-110-2424		–					
	M24	28	010-110-2428		020-110-2428					
90–180	M24	36	010-110-2436		020-110-2436		62	200	45–70	25
	M12	14	010-180-1214		020-180-1214					
	M14	16	010-180-1416		020-180-1416					35
	M16	16	010-180-1616		–					
	M16	18	010-180-1618		020-180-1618				50	40
	M18	20	010-180-1820		020-180-1820					
	M20	20	010-180-2020		–					
	M20	22	010-180-2022		020-180-2022				60	
	M20	24	–		020-180-2024					
	M22	24	010-180-2224		020-180-2224					
	M24	24	010-180-2424		–				70	
	M24	28	010-180-2428		020-180-2428					
	M24	36	010-180-2436		020-180-2436					

Clamping Frames S 10 – S 20 (Spare Parts)



Clamping Frame		Spherical Seat Washer		Fixing Set for T-Slot			Fixing Set for 020			Pressure Plate Assembly		Wrench	
Part No.		Part No.		Part No.	L		Part No.	L		Part No.		Part No.	
010-110-25		019-4512		910-110-1012	180		920-110-1012	100		991-060		620-16	
				910-110-1212	180		–	–				620-18	
				910-110-1214	180		920-110-1214	105				620-21	
		019-4516		910-110-1416	190		920-110-1416	110				620-24	
				910-110-1616	200		–	–				620-27	
				910-110-1618	200		920-110-1618	110				620-30	
		019-4520		910-110-1820	200		920-110-1820	115				620-34	
				910-110-2020	200		–	–				620-36	
				910-110-2022	200		920-110-2022	120					
		019-4524		910-110-2224	200		920-110-2224	130					
				910-110-2424	200		–	–					
				910-110-2428	200		920-110-2428	130					
010-180-25		019-4512		910-180-1214	250		920-180-1214	170		991-060		620-18	
				910-180-1416	250		920-180-1416	175				620-21	
				910-180-1616	250		–	–				620-24	
		019-4516		910-180-1618	250		920-180-1618	175				620-27	
				910-180-1820	265		920-180-1820	180				620-30	
				910-180-2020	265		–	–					
		019-4520		910-180-2022	280		920-180-2022	185					
				–	–		920-180-2024	185					
				910-180-2224	280		920-180-2224	190				620-34	
		019-4524		910-180-2424	290		–	–				620-36	
				910-180-2428	290		920-180-2428	190					
				910-180-2436	315		920-180-2436	190					

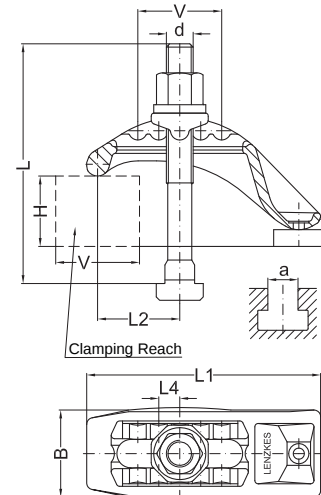
Clamping Frames S 30 – S 40 (complete)

Clamping Force: **Up to 30 kN**

Application Examples:
Injection moulding, pressing, stamping,
metal cutting

- Adjustable both vertically and horizontally
due to the unique grooved frame design
- S 40: No protruding bolts

- **Material:** Tempered steel
- **Clamping Frame:** Drop forged



			for T-Slots	for Tapped Holes	for T-Slots (no protruding bolts)						
H	d	a	Part No.	Part No.	Part No.	V	B	L1	L2	L4	kN
0-45	M08	10	–	–	040-045-0810	36	48	105	20-65	12	12
	M10	10	030-045-1010	–	–						15
	M10	12	–	030-045-10	040-045-1012						
	M12	12	030-045-1212	–	–						
	M12	14	030-045-1214	030-045-12	040-045-1214						
0-45	M14	16	030-045-1416	030-045-14	040-045-1416	36	53	110	20-65	12	25
	M16	16	030-045-1616	–	–						
	M16	18	030-045-1618	030-045-16	040-045-1618						
	M16	20	030-045-1620	–	040-045-1620						
	M16	22	030-045-1622	–	040-045-1622						
10-70	M10	12	030-070-1012	030-070-10	040-070-1012	50	53	140	22-72	13	18
	M12	12	030-070-1212	–	–						25
	M12	14	030-070-1214	030-070-12	040-070-1214						
	M14	16	030-070-1416	030-070-14	040-070-1416						
	M16	16	030-070-1616	–	–						
	M16	18	030-070-1618	030-070-16	040-070-1618						
30-110	M10	12	030-110-1012	–	040-110-1012	75	53	190	25-95	15	18
	M12	12	030-110-1212	–	–						20
	M12	14	030-110-1214	030-110-12	040-110-1214						
	M14	16	030-110-1416	030-110-14	040-110-1416						
	M16	16	030-110-1616	–	–						
	M16	18	030-110-1618	030-110-16	040-110-1618						30

Clamping Frames S 30 – S 40 (Spare Parts)



Clamping Frame		Pressure Piece		Fixing Set for T-Slot		Fixing Set for Tapped Holes		Fixing Set for 040		Pressure Plate Assembly		Wrench	
Part No.		Part No.		Part No.	L	Part No.	L	Part No.	L	Part No.		Part No.	
030-045-13		039-2812		–	–	–	–	940-045-0810	65	991-010		620-13	
				930-045-1010	100	–	–	–	–			620-16	
				–	–	930-045-10	112	940-045-1012	65			620-18	
				930-045-1212	100	–	–	–	–				
				930-045-1214	112	930-045-12	112	940-045-1214	65				
030-045-17		039-3216		930-045-1416	112	930-045-14	125	940-045-1416	70	991-020		620-21	
				930-045-1616	125	–	–	–	–			620-24	
				930-045-1618	125	930-045-16	125	940-045-1618	75				
				930-045-1620	125	–	–	940-045-1620	80				
				930-045-1622	125	–	–	940-045-1622	80				
030-070-17	039-3212			930-070-1012	132	930-070-10	140	940-070-1012	75	991-030		620-16	
				930-070-1212	132	–	–	–	–			620-18	
				930-070-1214	132	930-070-12	140	940-070-1214	80				
	039-3216			930-070-1416	140	930-070-14	150	940-070-1416	85			620-21	
				930-070-1616	160	–	–	–	–			620-24	
				930-070-1618	150	930-070-16	160	940-070-1618	85				
030-110-17	039-3212			930-110-1012	170	–	–	940-110-1012	100	991-030		620-16	
				930-110-1212	180	–	–	–	–			620-18	
				930-110-1214	180	930-110-12	200	940-110-1214	105				
	039-3216			930-110-1416	190	930-110-14	200	940-110-1416	110			620-21	
				930-110-1616	200	–	–	–	–			620-24	
				930-110-1618	200	930-110-16	200	940-110-1618	110				

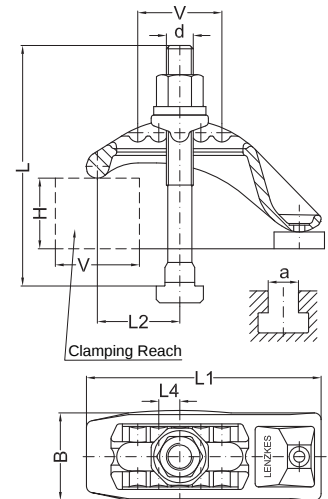
Clamping Frames S33 – S45 (complete)

Clamping Force: **Up to 70 kN**

Application Examples:
Injection moulding, pressing, stamping,
metal cutting

- Adjustable both vertically and horizontally due to the unique grooved frame design
- Greater clamping force than S30 or S40
- S45: No protruding bolts

- **Material: Hardened alloy steel**
- **Clamping Frame: Drop forged**



			for T-Slots	for Tapped Holes	for T-Slots (no protruding bolts)						
H	d	a	Part No.	Part No.	Part No.	V	B	L1	L2	L4	kN
10–70	M18	20	033-070-1820	033-070-18	045-070-1820	50	60	152	28–78	13	35
	M20	20	033-070-2020	–	–						45
	M20	22	033-070-2022	033-070-20	045-070-2022						
	M20	24	033-070-2024	–	045-070-2024						
	M20	28	033-070-2028	–	045-070-2028						
10–80	M16	18	033-080-1618	033-080-16	–	60	68	170	30–90	15	35
	M18	20	033-080-1820	–	–						50
	M20	20	033-080-2020	–	–						
	M20	22	033-080-2022	033-080-20	045-080-2022						
	M20	24	–	–	045-080-2024						
	M20	28	–	–	045-080-2028						
	M22	24	033-080-2224	–	–						55
	M24	24	033-080-2424	–	–						
	M24	28	033-080-2428	033-080-24	045-080-2428						
30–110	M24	36	033-080-2436	–	–						
	M18	20	033-110-1820	033-110-18	045-110-1820	75	60	194	30–110	15	50
	M20	20	033-110-2020	–	–						
	M20	22	033-110-2022	033-110-20	045-110-2022						
	M20	24	033-110-2024	–	045-110-2024						
30–110	M22	24	033-110-2224	033-110-22	045-110-2224	75	68	200	30–110	15	50
	M24	24	033-110-2424	–	–						60
	M24	28	033-110-2428	033-110-24	045-110-2428						
	M24	36	033-110-2436	–	045-110-2436						
	M30	–	–	033-110-2430	–						

Clamping Frames S33 – S45 (Spare Parts)



Clamping Frame		Pressure Piece		Fixing Set for T-Slot		Fixing Set for Tapped Holes		Fixing Set for 045		Pressure Plate Assembly		Wrench	
Part No.		Part No.		Part No.	L	Part No.	L	Part No.	L	Part No.		Part No.	
033-070-21	039-4020			930-070-1820	160	930-070-18	160	940-070-1820	95	991-030		620-27	
				930-070-2020	160	–	–	–	–			620-30	
				930-070-2022	160	930-070-20	160	940-070-2022	95				
				930-070-2024	170	–	–	940-070-2024	105				
				930-070-2028	180	–	–	940-070-2028	105				
033-080-25	039-4516			930-080-1618	160	930-080-16	160	–	–	991-070		620-24	
				930-080-1820	160	–	–	–	–			620-27	
	039-4520			930-080-2020	160	–	–	–	–			620-30	
				930-080-2022	180	930-080-20	180	940-080-2022	112				
				–	–	–	–	940-080-2024	120				
				–	–	–	–	940-080-2028	120				
	039-4524			930-080-2224	200	–	–	–	–			620-34	
				930-080-2424	200	–	–	–	–			620-36	
				930-080-2428	200	930-080-24	200	940-080-2428	115				
				930-080-2436	224	–	–	–	–				
033-110-21	039-4020			930-110-1820	200	930-110-18	212	940-110-1820	115	991-060		620-27	
				930-110-2020	200	–	–	–	–			620-30	
				930-110-2022	212	930-110-20	224	940-110-2022	120				
				930-110-2024	224	–	–	940-110-2024	130				
033-110-25	039-4524			930-110-2224	224	930-110-22	224	940-110-2224	130	991-070		620-34	
				930-110-2424	224	–	–	–	–			620-36	
				930-110-2428	224	930-110-24	250	940-110-2428	130				
				930-110-2436	230	–	–	940-110-2436	145				
				–	–	930-110-24-30	250	–	–				

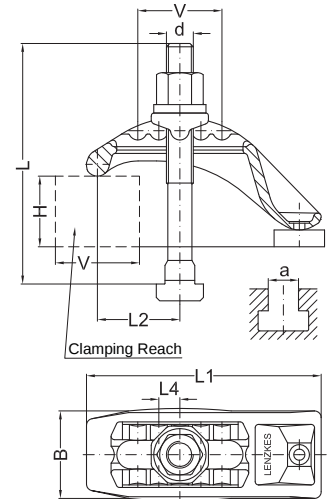
Clamping Frames S33 – S45 (complete)

Application Examples:
Injection moulding, pressing, stamping,
metal cutting

- Adjustable both vertically and horizontally due to the unique grooved frame design
- Greater clamping force than S30 or S40
- S45: No protruding bolts

Clamping Force: **Up to 70 kN**

- Material: Tempered steel
- Clamping Frame: Drop forged



			for T-Slots	for Tapped Holes	for T-Slots (no protruding bolts)						
H	d	a	Part No.	Part No.	Part No.	V	B	L1	L2	L4	kN
60–160	M20	20	033-160-2020	–	–	80	85	250	45–125	16	50
	M20	22	033-160-2022	033-160-20	045-160-2022						60
	M24	24	033-160-2424	–	–						
	M24	28	033-160-2428	033-160-24	045-160-2428						70
	M30	36	033-160-3036	033-160-30	–						
	M30	42	033-160-3042	–	–						
90–180	M16	18	033-180-1618	033-180-16	045-180-1618	90	70	240	35–125	15	35
	M18	20	033-180-1820	033-180-18	045-180-1820						50
	M20	20	033-180-2020	–	–						
	M20	22	033-180-2022	033-180-20	045-180-2022						60
	M20	24	–	–	045-180-2024						
	M22	24	033-180-2224	–	045-180-2224						
	M24	24	033-180-2424	–	–						
	M24	28	033-180-2428	033-180-24	045-180-2428						
	M24	36	033-180-2436	–	045-180-2436						
130–260	M16	18	033-260-1618	–	–	90	70	280	40–130	15	35
	M18	20	033-260-1820	–	–						50
	M20	22	033-260-2022	033-260-20	045-260-2022						
	M20	24	–	–	045-260-2024						60
	M22	24	033-260-2224	–	–						
	M24	28	033-260-2428	033-260-24	045-260-2428						
	M24	36	033-260-2436	–	–						
	M30	–	–	033-260-24-30	–						

Clamping Frames S 33 – S 45 (Spare Parts)



Clamping Frame		Pressure Piece		Fixing Set for T-Slot		Fixing Set for Tapped Holes		Fixing Set for 045		Pressure Plate Assembly		Wrench	
Part No.		Part No.		Part No.	L	Part No.	L	Part No.	L	Part No.		Part No.	
033-160-31		038-6220		930-160-2020	265	–	–	–	–	991-070		620-30	
				930-160-2022	280	930-160-20	300	940-160-2022	165			620-36	
		038-6224		930-160-2424	290	–	–	–	–			620-36	
				930-160-2428	290	930-160-24	315	940-160-2428	170			620-46	
		038-6230		930-160-3036	315	930-160-30	315	–	–			620-46	
				930-160-3042	315	–	–	–	–			620-46	
033-180-25		039-4516		930-180-1618	265	930-180-16	280	940-180-1618	175	991-070		620-24	
		039-4520		930-180-1820	265	930-180-18	280	940-180-1820	180			620-27	
				930-180-2020	265	–	–	–	–			620-30	
				930-180-2022	280	930-180-20	300	940-180-2022	185			620-30	
				–	–	–	–	940-180-2024	185			620-34	
		039-4524		930-180-2224	280	–	–	–	–			620-34	
				930-180-2424	290	–	–	–	–			620-36	
				930-180-2428	290	930-180-24	315	940-180-2428	190			620-36	
				930-180-2436	290	–	–	940-180-2436	190			620-36	
				–	–	930-180-24-30	315	–	–			620-36	
033-260-25		039-4516		930-260-1618	360	–	–	–	–	991-070		620-24	
		039-4520		930-260-1820	360	–	–	–	–			620-27	
				930-260-2022	365	930-260-20	385	940-260-2022	225			620-30	
				–	–	–	–	940-260-2024	225			620-30	
		039-4524		930-260-2224	370	–	–	–	–			620-34	
				930-260-2428	380	930-260-24	400	940-260-2428	230			620-36	
				930-260-2436	380	–	–	–	–			620-36	
				–	–	930-260-24-30	400	–	–			620-36	

Extension Blocks – Overcoming various clamping heights B 50/A 58

B 50 has a clamping force up to 60 kN.

The Extension Blocks made from extra strong aluminium alloy are an ideal addition to the MQ-Series clamps. They are generally used for pressing, stamping, milling and drilling.

A 58 has a clamping force up to 80 kN.

The Extension Blocks made from steel are a versatile addition to the MQ-Series clamps. They are generally used for injection moulding, pressing, stamping, milling and drilling up to 1,000 mm.



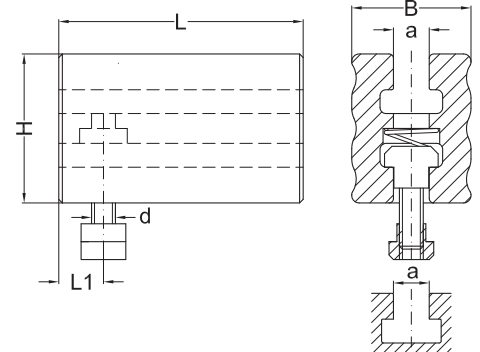


Extension Blocks B 50 (complete)

■ An ideal addition to the MQ-Series clamps for increased clamping heights

Clamping Force: **Up to 60 kN**

■ Material: Aluminium alloy



			for T-Slots		for Tapped Holes						Fixing Set with Spring			Allen Key 	
H	d	a	Part No.		Part No.		L	B	L1	kN	Part No.	L		Part No.	
50	M08	10	053-050-0810-8		053-050-08-8		82	40	15	15	950-0810-8	30		610-06	
	M10	12	053-050-1012-8		053-050-10-8					20	950-1012-8	35			
	M08	10	053-050-0810		053-050-08		135		20	15	950-050-0810	30			
	M10	12	053-050-1012		053-050-10					25	950-050-1012	35			
110	M08	10	053-110-0810-8		053-110-08-8		82	40	15	15	950-0810-8	30		610-06	
	M10	12	053-110-1012-8		053-110-10-8					20	950-1012-8	35			
	M08	10	053-110-0810		053-110-08					15	950-050-0810	30			
	M10	12	053-110-1012		053-110-10					25	950-050-1012	35			
55	M12	14	053-055-1214-8		053-055-12-8		82	45	20	30	950-1214-8	36		610-06	
			053-055-1214		053-055-12		135				950-050-1214	38		610-08	
120				053-120-1214		053-120-12									
65	M14	16	053-065-1416		053-065-14		155	55	25	35	950-050-1416	48		610-10	
125				053-125-1416		053-125-14									
70	M16	18	053-070-1618		053-070-16		155	60	25	40	950-050-1618	52		610-10	
130				053-130-1618		053-130-16									
85	M18	20	053-085-1820		053-085-18		175	66	25	50	950-050-1820	60		610-12	
175				053-175-1820		053-175-18									
90	M20	22	053-090-2022		053-090-20		175	70	25	50	950-050-2022	68		610-12	
180				053-180-2022		053-180-20									
100	M22	24	053-100-2224		053-100-22		205	84	30	60	950-050-2224	80		610-12	
190				053-190-2224		053-190-22									
110	M24	28	053-110-2428		053-110-24		205	90	30	60	950-050-2428	86		610-12	
200				053-200-2428		053-200-24									

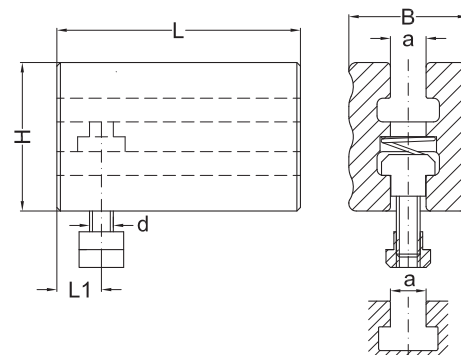
Extension Blocks B 50 (complete)

- An ideal addition to the MQ-Series clamps for increased clamping heights

- Material: Aluminium alloy

- Short style

Clamping Force: **Up to 60 kN**



			for T-Slots	for Tapped Holes					Fixing Set with Spring	Allen Key
H	d	a	Part No.	Part No.	L	B	L1	kN	Part No.	Part No.
50	M08	10	054-050-0810-8	054-050-08-8	65	40	15	15	950-0810-8	610-06
	M10	12	054-050-1012-8	054-050-10-8				20	950-1012-8	
	M08	10	054-050-0810	054-050-08				15	950-050-0810	
	M10	12	054-050-1012	054-050-10				25	950-050-1012	
110	M08	10	054-110-0810-8	054-110-08-8	65		15	15	950-0810-8	610-06
	M10	12	054-110-1012-8	054-110-10-8				20	950-1012-8	
	M08	10	054-110-0810	054-110-08				15	950-050-0810	
	M10	12	054-110-1012	054-110-10				25	950-050-1012	
-	-	-	-	-	-	-	-	-	-	-
55	M12	14	054-055-1214	054-055-12	95	45	20	30	950-050-1214	610-08
120			054-120-1214	054-120-12						
65	M14	16	054-065-1416	054-065-14	110	55	25	35	950-050-1416	610-10
125			054-125-1416	054-125-14						
70	M16	18	054-070-1618	054-070-16	110	60	25	40	950-050-1618	610-10
130			054-130-1618	054-130-16						
85	M18	20	054-085-1820	054-085-18	125	66	25	50	950-050-1820	610-12
175			054-175-1820	054-175-18						
90	M20	22	054-090-2022	054-090-20	125	70	25	50	950-050-2022	610-12
180			054-180-2022	054-180-20						
100	M22	24	054-100-2224	054-100-22	150	84	30	60	950-050-2224	610-12
190			054-190-2224	054-190-22						
110	M24	28	054-110-2428	054-110-24	150	90	30	60	950-050-2428	610-12
200			054-200-2428	054-200-24						

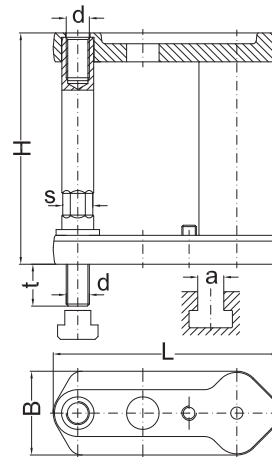


Extension Blocks A 58 (complete)

Clamping Force: **Up to 80 kN**

- An ideal addition to the MO-Series clamps for great clamping heights
- Safer working heights achievable by securing directly into the machine table due to unique design of the block

- **Material:** Alloy steel
- **Connecting Element:** Drop forged, tempered steel
- **Clamping Rod:** Hardness class 10.9



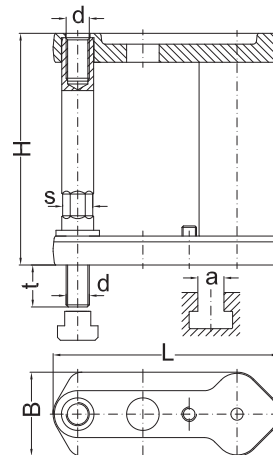
			for T-Slots		for Tapped Holes							Wrench 	
H	d	a	Part No.		Part No.		B	L	t	s	kN	Part No.	
80	M08	10	058-080-0810		058-080-08		48	135	16	16	16	622-1618	
125			058-125-0810		058-125-08								
160			058-160-0810		058-160-08								
80	M10	12	058-080-1012		058-080-10		48	135	19	16	25	622-1618	
125			058-125-1012		058-125-10								
160			058-160-1012		058-160-10								
200			058-200-1012		058-200-10								
250			058-250-1012		058-250-10								
80	M12	14	058-080-1214		058-080-12		48	135	22	16	35	622-1618	
125			058-125-1214		058-125-12								
160			058-160-1214		058-160-12								
200			058-200-1214		058-200-12								
250			058-250-1214		058-250-12								
315			058-315-1214		058-315-12								
400			058-400-1214		058-400-12								
80	M14	16	058-080-1416		058-080-14		58	155	25	18	50	622-1618	
125			058-125-1416		058-125-14								
160			058-160-1416		058-160-14								
200			058-200-1416		058-200-14								
250			058-250-1416		058-250-14								
80	M16	18	058-080-1618		058-080-16		58	155	29	18	70	622-1618	
125			058-125-1618		058-125-16								
160			058-160-1618		058-160-16								
200			058-200-1618		058-200-16								
250			058-250-1618		058-250-16								
315			058-315-1618		058-315-16								
400			058-400-1618		058-400-16								

- An ideal addition to the MQ-Series clamps for great clamping heights
- Safer working heights achievable by securing directly into the machine table due to unique design of the block

Extension Blocks A 58 (complete)

- **Material:** Hardened alloy steel
- **Connecting Element:** Drop forged, tempered steel
- **Clamping Rod:** Hardness class 10.9

Clamping Force: **Up to 80 kN**



			for T-Slots		for Tapped Holes							Wrench 	
H	d	a	Part No.		Part No.		B	L	t	s	kN	Part No.	
100	M18	20	058-100-1820		058-100-18		68	180	33	24	90	622-2427	
160			058-160-1820		058-160-18								
200			058-200-1820		058-200-18								
250			058-250-1820		058-250-18								
315			058-315-1820		058-315-18								
400			058-400-1820		058-400-18								
500			058-500-1820		058-500-18								
100	M20	22	058-100-2022		058-100-20		68	180	37	24	110	622-2427	
160			058-160-2022		058-160-20								
200			058-200-2022		058-200-20								
250			058-250-2022		058-250-20								
315			058-315-2022		058-315-20								
400			058-400-2022		058-400-20								
500			058-500-2022		058-500-20								
100	M22	24	058-100-2224		058-100-22		80	210	42	27	140	622-2427	
160			058-160-2224		058-160-22								
200			058-200-2224		058-200-22								
250			058-250-2224		058-250-22								
315			058-315-2224		058-315-22								
400			058-400-2224		058-400-22								
500			058-500-2224		058-500-22								
100	M24	28	058-100-2428		058-100-24		80	210	47	30	160	622-2730	
160			058-160-2428		058-160-24					27			
200			058-200-2428		058-200-24								
250			058-250-2428		058-250-24								
315			058-315-2428		058-315-24								
400			058-400-2428		058-400-24								
500			058-500-2428		058-500-24								



Side Clamps NU/FL/SK/SKO

NU has a clamping force up to 18 kN.

These side clamps are perfect for low profile free surface machining. They are generally used on milling machines in metal cutting.



FL has a clamping force up to 40 kN.

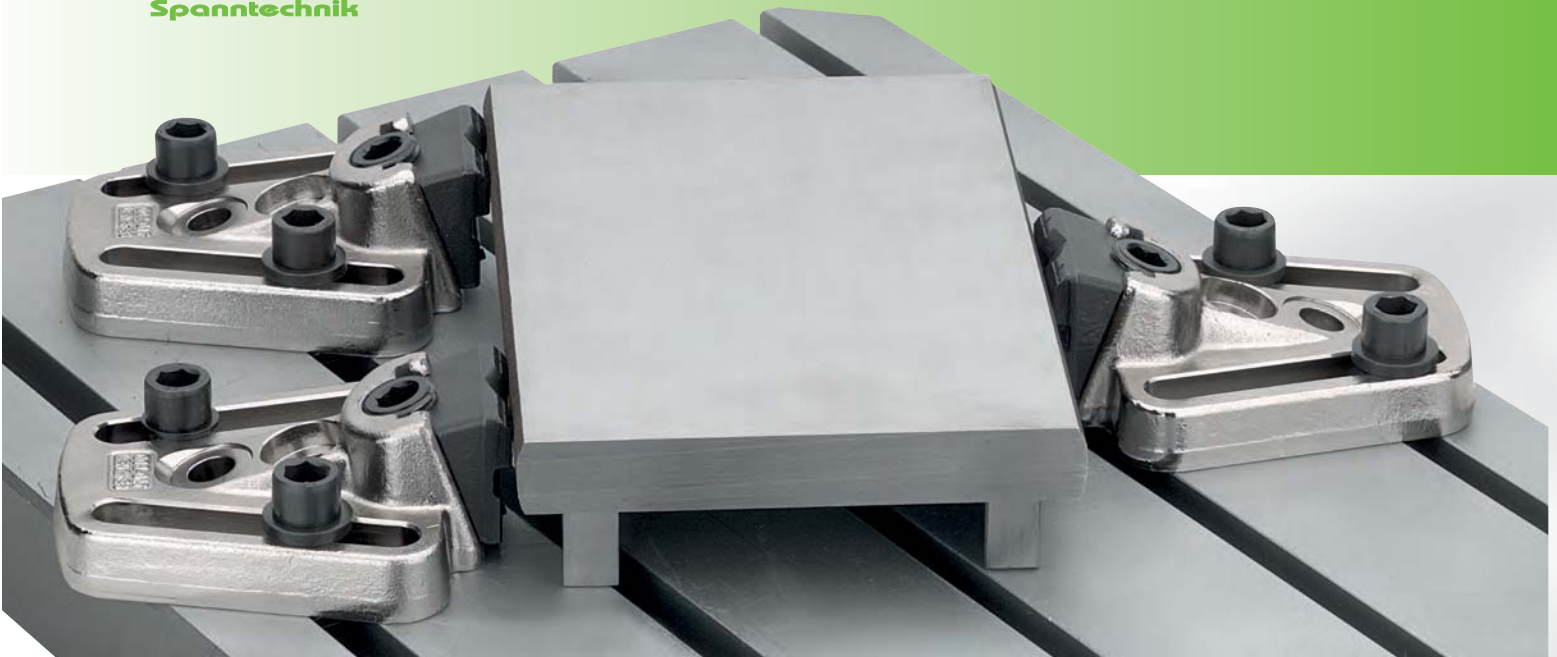
These side clamps are perfect for low profile free surface machining. They are generally used on milling machines in metal cutting.



SK/SKO has a clamping force up to 65 kN.

These side clamps are ideal for free surface machining and generate great clamping force. The SKO can be used at an angle to the T-Slot or parallel to the T-Slot. They are generally used on milling machines in metal cutting.





Self Centering Clamp has a clamping force up to 25 kN.
These self centering clamps are stepless adjustable.
Base plate with centered tapped hole.



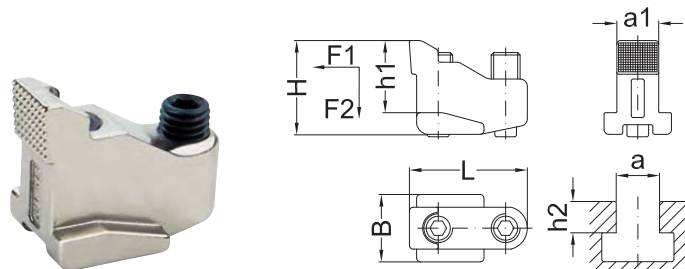
Application Example:
Metal cutting

- For free surface machining
- For low profile workpieces

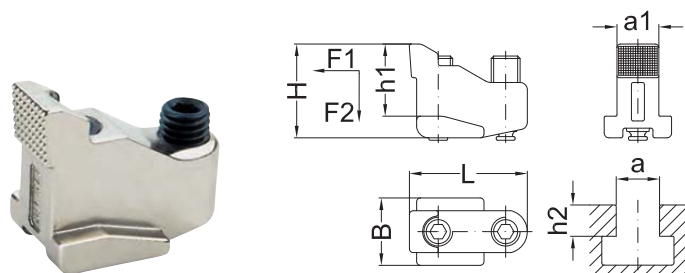
Side Clamps
NU10 (complete)

■ **Material: Hardened alloy steel**

Clamping Force: **Up to 20 kN**



									kN	kN	Fixing Screw			Allen Key	
H	a	Part No.		B	L	a1	h1	h2	F1	F2	Part No.		L	Part No.	
25	10	002-0810		15	27	9,7	20	10-14	5,0	2,5	913-06-020		20	612-03	
27	12	002-1012		18	33	11,6	21	12-17	6,0	3,0	913-08-020		20	612-04	
31	14	002-1214		22	40	13,6	24	14-19	7,0	3,5	913-10-025		25	612-05	
35	16	002-1416		25	46	15,5	27	16-22	8,0	4,0	913-12-030		30	610-06	
39	18	002-1618		28	49	17,4	30	18-24	10,0	5,0	913-12-030		30	610-06	
50	22	002-2022		35	63	21,5	37	22-30	16,0	8,0	913-16-040		40	610-08	
62	28	002-2428		44	79	27,4	46	28-36	18,0	9,0	913-20-050		50	610-10	

NU Side Clamp with Ball Pressure Screw
 (helps to protect the T-Slots)


									kN	kN	Ball Pressure Screw			Allen Key	
H	a	Part No.		B	L	a1	h1	h2	F1	F2	Part No.		L	Part No.	
27	12	002-1012-1		18	33	11,6	21	12-17	6,0	3,0	309-08-020		20	612-04	
31	14	002-1214-1		22	40	13,6	24	14-19	7,0	3,5	309-10-025		25	612-05	
35	16	002-1416-1		25	46	15,5	27	16-22	8,0	4,0	309-12-030		30	610-06	
39	18	002-1618-1		28	49	17,4	30	18-24	10,0	5,0	309-12-030		30	610-06	
50	22	002-2022-1		35	63	21,5	37	22-30	16,0	8,0	309-16-040		40	610-08	
62	28	002-2428-1		44	79	27,4	46	28-36	18,0	9,0	309-20-050		50	610-10	

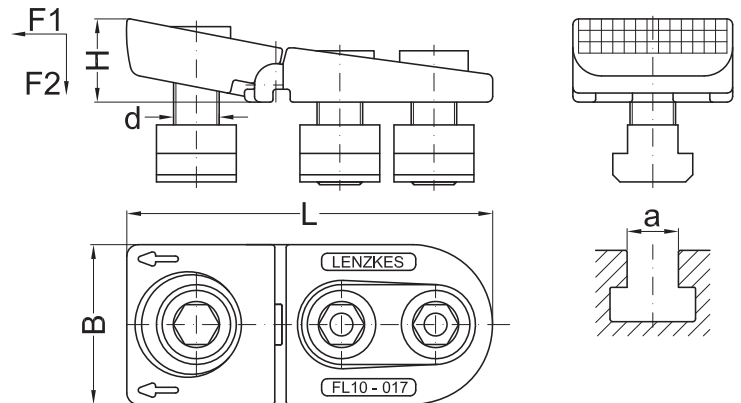
Side Clamps FL10 (complete)

Application Example: Metal cutting

- For free surface machining
- Low profile side clamp
- Drop forged alloy steel increases life span of the clamp

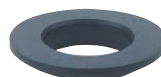
Clamping Force: **Up to 40 kN**

■ **Material: Hardened alloy steel**



							kN	kN
H	d	a	Part No.		B	L	F1	F2
22-14	–	–	004-09		34	90	–	–
	M06	8	004-09-0608				4,0	2,0
	M08	10	004-09-0810				7,0	3,5
	M08	12	004-09-0812				7,0	3,5
25-17	–	–	004-13		44	112	–	–
	M08	10	004-13-0810				7,0	3,5
	M10	12	004-13-1012				10,0	5,0
	M12	14	004-13-1214				15,0	7,5
	M12	16	004-13-1216				15,0	7,5
30-20	–	–	004-17		56	132	–	–
	M12	14	004-17-1214				15,0	7,5
	M14	16	004-17-1416				20,0	10,0
	M16	18	004-17-1618				25,0	12,5
	M16	20	004-17-1620				25,0	12,5
	M16	22	004-17-1622				25,0	12,5
35-24	–	–	004-21		62	155	–	–
	M16	18	004-21-1618				25,0	12,5
	M18	20	004-21-1820				30,0	15,0
	M20	22	004-21-2022				36,0	18,0
	M20	24	004-21-2024				36,0	18,0
	M20	28	004-21-2028				36,0	18,0

Side Clamps FL10 (Spare Parts)



Fixing Set front with Spherical Seat Washer			Fixing Set rear complete (2 pcs with Washer)				Spherical Seat Washer		Spring with Screw		Allen Key 	
Part No.		L	Part No.		L	S	Part No.		Part No.		Part No.	
–		–	–		–	–	–		360-004-09		–	
904-109-0608		22	904-409-0608		20	5	319-108				612-05	
904-109-0810		25	904-409-0810		22	6					611-06	
904-109-0812		30	904-409-0812		25							
–		–	–		–	–	–		360-004-13		–	
904-113-0810		30	904-413-0810		25	6	319-004-12				611-06	
904-113-1012		30	904-413-1012		25	8					611-08	
904-113-1214		35	904-413-1214		30	10					611-10	
904-113-1216		40	904-413-1216		35							
–		–	–		–	–	–		360-004-17		–	
904-117-1214		35	904-417-1214		30	10	319-004-16				611-10	
904-117-1416		40	904-417-1416		35	12					611-12	
904-117-1618		45	904-417-1618		40	14					611-14	
904-117-1620		45	904-417-1620		40							
904-117-1622		50	904-417-1622		45							
–		–	–		–	–	–		360-004-21		–	
904-121-1618		45	904-421-1618		40	14	319-004-20				611-14	
904-121-1820		50	904-421-1820		45							
904-121-2022		55	904-421-2022		50	17					611-17	
904-121-2024		60	904-421-2024		55							
904-121-2028		65	904-421-2028		60							



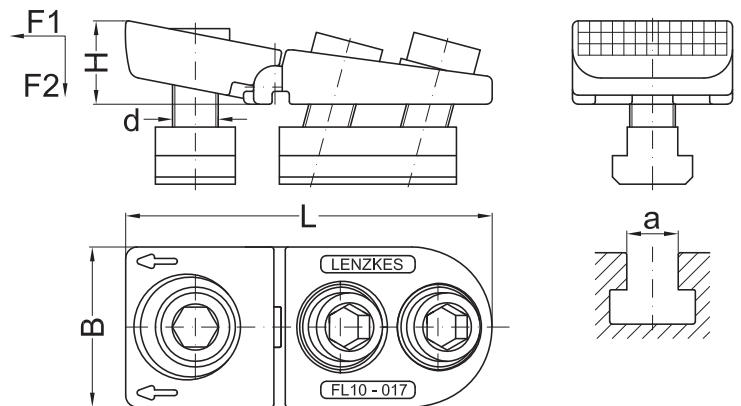
Side Clamps FL10 (complete)

Application Example: Metal cutting

- For free surface machining
- Low profile side clamp
- Drop forged alloy steel increases life span of the clamp

Clamping Force: **Up to 40 kN**

- **Material: Hardened alloy steel**
- **Set-up time is considerably reduced due to long T-Nut**
- **New design generates increased clamping force**



							kN	kN
H	d	a	Part No.		B	L	F1	F2
22-14	–	–	004-09		34	90	10,0	5,0
	M06	8	004-09-0608-2					
	M08	10	004-09-0810-2					
	M08	12	004-09-0812-2					
25-17	–	–	004-013		44	112	20,0	10,0
	M08	10	004-013-0810					
	M10	12	004-013-1012					
	M12	14	004-013-1214					
	M12	16	004-013-1216					
30-20	–	–	004-017		56	132	28,0	14,0
	M12	14	004-017-1214					
	M14	16	004-017-1416					
	M16	18	004-017-1618					
	M16	20	004-017-1620					
	M16	22	004-017-1622					
35-24	–	–	004-021		62	155	40,0	20,0
	M16	18	004-021-1618					
	M18	20	004-021-1820					
	M20	22	004-021-2022					
	M20	24	004-021-2024					
	M20	28	004-021-2028					

Side Clamps FL10 (Spare Parts)



Fixing Set front with Spherical Seat Washer			Fixing Set rear				Spherical Seat Washer		Spring with Screw		Allen Key 	
Part No.		L	Part No.		L	S	Part No.		Part No.		Part No.	
–		–	–		–	–	–		360-004-09		–	
904-109-0608		22	904-309-0608		20	5	319-108				612-05	
904-109-0810		25	904-309-0810		22	6					611-06	
904-109-0812		30	904-309-0812		25							
–		–	–		–	–	–		360-004-13		–	
904-113-0810		30	904-213-0810		25	6	319-004-12				611-06	
904-113-1012		30	904-213-1012		25	8					611-08	
904-113-1214		35	904-213-1214		30	10					611-10	
904-113-1216		40	904-213-1216		35							
–		–	–		–	–	–		360-004-17		–	
904-117-1214		35	904-217-1214		30	10	319-004-16				611-10	
904-117-1416		40	904-217-1416		35	12					611-12	
904-117-1618		45	904-217-1618		40	14					611-14	
904-117-1620		45	904-217-1620		40							
904-117-1622		50	904-217-1622		45		–		360-004-21		–	
–		–	–		–	–	–				611-14	
904-121-1618		45	904-221-1618		40	14	319-004-20				611-17	
904-121-1820		50	904-221-1820		45							
904-121-2022		55	904-221-2022		50	17						
904-121-2024		60	904-221-2024		55							
904-121-2028		65	904-221-2028		60							

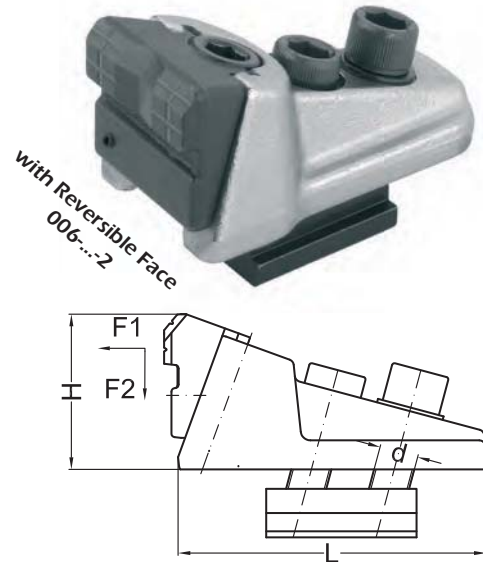
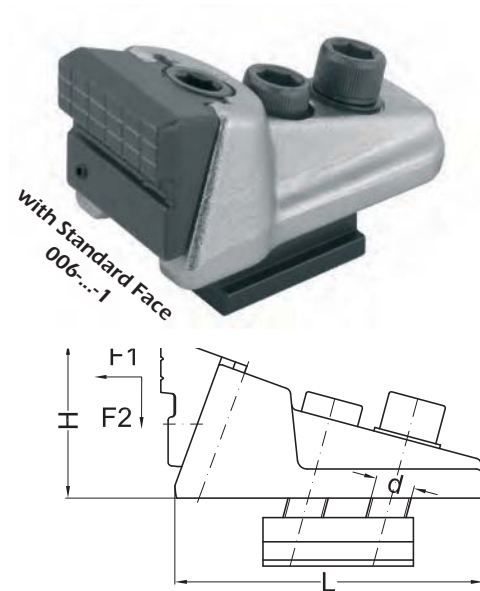


Side Clamps SK10 (complete)

Application Example: Metal cutting

- For free surface machining, can be used parallel to the T-Slot
- Drop forged alloy steel increases life span of the clamp

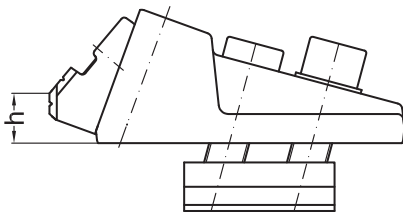
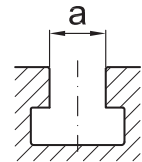
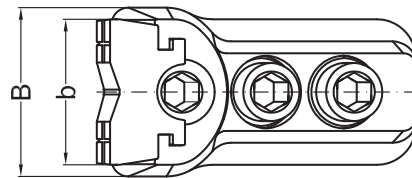
Clamping Force: **Up to 65 kN**



- Material: Drop forged alloy steel
- Set-up time is considerably reduced due to long T-Nut design
- New design generates increased clamping force

				with Standard Face		with Reversible Face					kN	kN
H	h	d	a	Part No.		Part No.		b	B	L	F1	F2
40-50	17-27	-	-	006-013-1		006-013-2		50	58	100	20	10
		M08	10	006-013-1-0810		006-013-2-0810						
		M10	12	006-013-1-1012		006-013-2-1012						
		M12	14	006-013-1-1214		006-013-2-1214						
		M12	16	006-013-1-1216		006-013-2-1216						
51-64	20-33	-	-	006-017-1		006-017-2		60	70	127	25	12
		M12	14	006-017-1-1214		006-017-2-1214						
		M14	16	006-017-1-1416		006-017-2-1416						
		M16	18	006-017-1-1618		006-017-2-1618						
		M16	20	006-017-1-1620		006-017-2-1620						
		M16	22	006-017-1-1622		006-017-2-1622						
76-93	28-45	-	-	006-021-1		006-021-2		80	95	167	40	20
		M16	18	006-021-1-1618		006-021-2-1618						
		M18	20	006-021-1-1820		006-021-2-1820						
		M20	22	006-021-1-2022		006-021-2-2022						
		M20	24	006-021-1-2024		006-021-2-2024						
		M20	28	006-021-1-2028		006-021-2-2028						
110-128	37-55	-	-	006-025-1		006-025-2		92	113	210	65	32
		M20	22	006-025-1-2022		006-025-2-2022						
		M22	24	006-025-1-2224		006-025-2-2224						
		M24	28	006-025-1-2428		006-025-2-2428						
		M24	36	006-025-1-2436		006-025-2-2436						

Side Clamps SK 10 (Spare Parts)



Fixing Set long			Driving Ring			Retaining Ring		Allen Key 	
Part No.		L	Part No.		s	Part No.		Part No.	
–		–	009-013-1-10		8	009-13-2		610-08	
907-213-0810		35	009-013-1-08		6			610-06	
907-213-1012		35	009-013-1-10		8			610-08	
907-213-1214		40	009-013-1-12		10			610-10	
907-213-1216		45							
–		–	009-017-1-14		12	009-17-2		610-12	
907-217-1214		45	009-017-1-12		10			610-10	
907-217-1416		50	009-017-1-14		12			610-12	
907-217-1618		50	009-017-1-16		14			610-14	
907-217-1620		55							
907-217-1622		60							
–		–	009-021-1-18		14	009-21-2		610-14	
907-221-1618		60							
907-221-1820		60							
907-221-2022		65	009-021-1-20		17			610-17	
907-221-2024		70							
907-221-2028		75							
–		–	009-025-1-22		17	009-25-2		610-17	
907-225-2022		80							
907-225-2224		85							
907-225-2428		90	009-025-1-24		19			612-19	
907-225-2436		100							



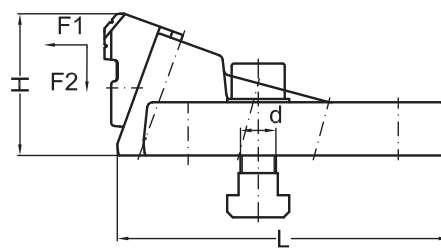
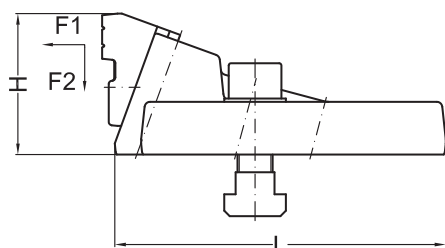
Side Clamps SKQ 10 (complete)

Application Example: Metal cutting

- For free surface machining
- Can be used parallel or at an angle to the T-Slot
- Drop forged alloy steel increases life span of the clamp

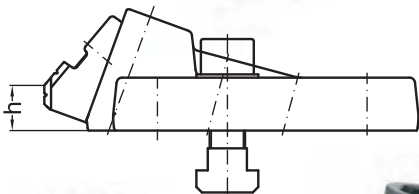
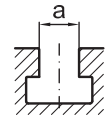
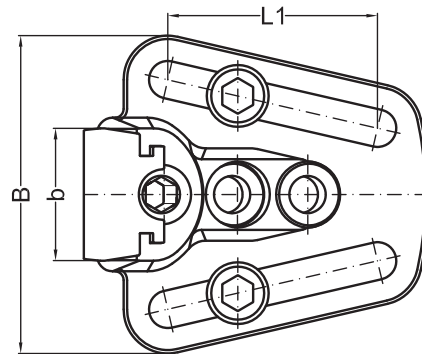
Clamping Force: **Up to 65 kN**

- **Material:** Drop forged alloy steel
- The unique design of the clamp allows work-pieces to be clamped at any angle to the T-Slot
- New design generates increased clamping force



				with Standard Face		with Reversible Face						kN	kN
H	h	d	a	Part No.		Part No.		b	B	L	L1	F1	F2
40–50	17–27	–	–	008-013-1		008-013-2		50	126	132	82	20	10
		M08	10	008-013-1-0810		008-013-2-0810							
		M10	12	008-013-1-1012		008-013-2-1012							
		M12	14	008-013-1-1214		008-013-2-1214							
		M12	16	008-013-1-1216		008-013-2-1216							
51–64	20–33	–	–	008-017-1		008-017-2		60	144	150	95	25	12
		M12	14	008-017-1-1214		008-017-2-1214							
		M14	16	008-017-1-1416		008-017-2-1416							
		M16	18	008-017-1-1618		008-017-2-1618							
		M16	20	008-017-1-1620		008-017-2-1620							
		M16	22	008-017-1-1622		008-017-2-1622							
76–93	28–45	–	–	008-021-1		008-021-2		80	182	194	120	40	20
		M16	18	008-021-1-1618		008-021-2-1618							
		M18	20	008-021-1-1820		008-021-2-1820							
		M20	22	008-021-1-2022		008-021-2-2022							
		M20	24	008-021-1-2024		008-021-2-2024							
		M20	28	008-021-1-2028		008-021-2-2028							
110–128	37–55	–	–	008-025-1		008-025-2		92	248	257	160	65	32
		M20	22	008-025-1-2022		008-025-2-2022							
		M22	24	008-025-1-2224		008-025-2-2224							
		M24	28	008-025-1-2428		008-025-2-2428							
		M24	36	008-025-1-2436		008-025-2-2436							

Side Clamps SKQ 10 (Spare Parts)



Fixing Set for SKQ			Fixing Set long T-Nut for SK/SKQ			Driving Ring			Retaining Ring		Allen Key	
Part No.		L	Part No.		L	Part No.		s	Part No.		Part No.	
–		–	–		–	009-013-1-10		8	009-013-2		610-08	
907-113-0810		35	907-213-0810		35	009-013-1-08		6			610-06	
907-113-1012		35	907-213-1012		35	009-013-1-10		8			610-08	
907-113-1214		40	907-213-1214		40	009-013-1-12		10			610-10	
907-113-1216		45	907-213-1216		45							
–		–	–		–	009-017-1-14		12	009-017-2		610-12	
907-117-1214		45	907-217-1214		45	009-017-1-12		10			610-10	
907-117-1416		50	907-217-1416		50	009-017-1-14		12			610-12	
907-117-1618		50	907-217-1618		50	009-017-1-16		14			610-14	
907-117-1620		55	907-217-1620		55							
907-117-1622		60	907-217-1622		60							
–		–	–		–	009-021-1-18		14	009-021-2		610-14	
907-121-1618		55	907-221-1618		55							
907-121-1820		60	907-221-1820		60							
907-121-2022		65	907-221-2022		65	009-021-1-20		17			610-17	
907-121-2024		70	907-221-2024		70							
907-121-2028		75	907-221-2028		75							
–		–	–		–	009-025-1-22		17	009-025-2		610-17	
907-125-2022		80	907-225-2022		80							
907-125-2224		85	907-225-2224		85							
907-125-2428		90	907-225-2428		90	009-025-1-24		19			612-19	
907-125-2436		100	907-225-2436		100							



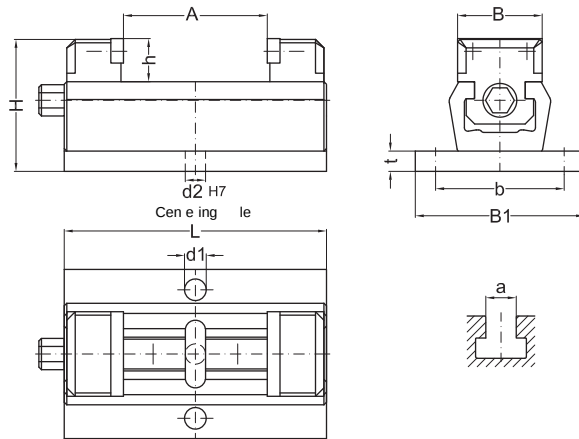
Self Centering Clamps (complete)

Application Example: Metal cutting

- Self centering
- Centering accuracy is 0.04 mm
- Interchangeable jaws
- Base Plate with centered tapped hole

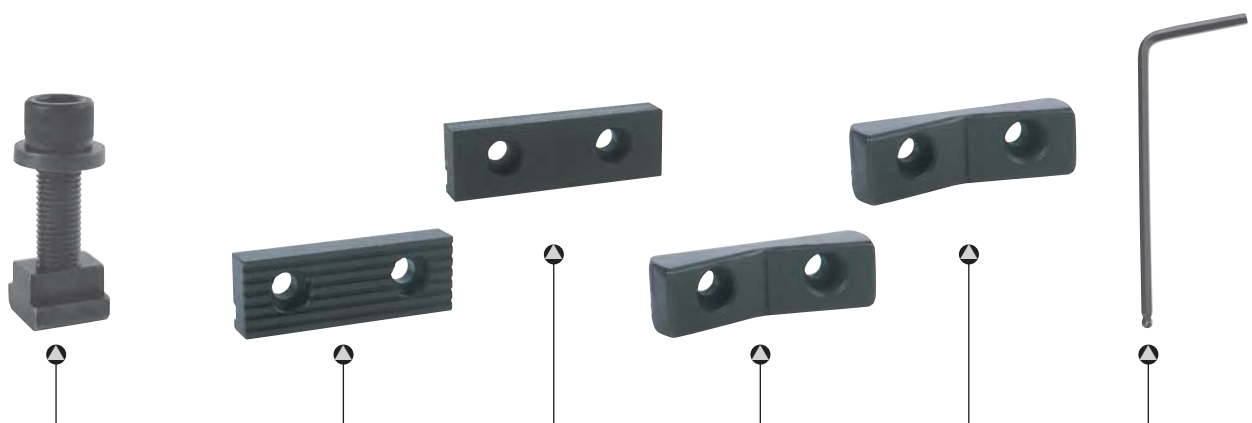
Clamping Force: **Up to 25 kN**

■ **Material: Hardened alloy steel**



														Wrench		
A	d	a	Part No.		B	B1	L	H	h	t	b	d1	d2	kN	Part No.	
10-55	—	—	860-050-125-00		50	100	125	78	25	12	80	13	12	20	623-14	
	M10	12	860-050-125-1012													
	M12	14	860-050-125-1214													
	M12	16	860-050-125-1216													
10-85	—	—	860-050-155-00		50	100	155	78	25	12	80	13	12	20	623-14	
	M10	12	860-050-155-1012													
	M12	14	860-050-155-1214													
	M12	16	860-050-155-1216													
10-90	—	—	860-080-180-00		80	150	180	110	40	15	110	17	16	25	623-17	
	M12	14	860-080-180-1214													
	M14	16	860-080-180-1416													
	M16	18	860-080-180-1618													
	M16	20	860-080-180-1620													
10-130	—	—	860-080-220-00		80	150	220	110	40	15	110	17	16	25	623-17	
	M12	14	860-080-220-1214													
	M14	16	860-080-220-1416													
	M16	18	860-080-220-1618													
	M16	20	860-080-220-1620													
10-210	—	—	860-080-300-00		80	150	300	110	40	15	110	17	16	25	623-17	
	M12	14	860-080-300-1214													
	M14	16	860-080-300-1416													
	M16	18	860-080-300-1618													
	M16	20	860-080-300-1620													

Self Centering Clamps (Spare Parts)



Fixing Set				Steel Jaw		Plastic Jaw		Prism Steel Jaw		Prism Plastic Jaw		Allen Key ⬡	
Part No.		L	s	Part No.		Part No.		Part No.		Part No.		Part No.	
–		–	–	860-13-31		860-13-32		860-13-33		860-13-34		–	
907-50-1012		30	8									610-08	
907-50-1214		35	10									610-10	
907-50-1216		40											
–		–	–	860-13-31		860-13-32		860-13-33		860-13-34		–	
907-50-1012		30	8									610-08	
907-50-1214		35	10									610-10	
907-50-1216		40											
–		–	–	860-21-31		860-21-32		860-21-33		860-21-34		–	
907-80-1214		40	10									610-10	
907-80-1416			12									610-12	
907-80-1618		45	14									610-14	
907-80-1620		50											
–		–	–	860-21-31		860-21-32		860-21-33		860-21-34		–	
907-80-1214		40	10									610-10	
907-80-1416			12									610-12	
907-80-1618		45	14									610-14	
907-80-1620		50											
–		–	–	860-21-31		860-21-32		860-21-33		860-21-34		–	
907-80-1214		40	10									610-10	
907-80-1416			12									610-12	
907-80-1618		45	14									610-14	
907-80-1620		50											
–		–	–	860-21-31		860-21-32		860-21-33		860-21-34		–	
907-80-1214		40	10									610-10	
907-80-1416			12									610-12	
907-80-1618		45	14									610-14	
907-80-1620		50											



Standard Parts and Accessories are an ideal addition to Lenzkes Clamps

Hardness of Bolts/Screws according to DIN ISO 898			
Hardness class	8.8	10.9	12.9
Tensile Strength N/mm ²	800	1000	1200
HRC Hardness	22–32	32–39	39–44

Hardness of Nuts according to DIN ISO 898			
Hardness class	8	10	12
Tensile Strength N/mm ²	800	1000	1200
HRC Hardness	20–27	25–32	32–39



Surfaces: High-quality surface finish

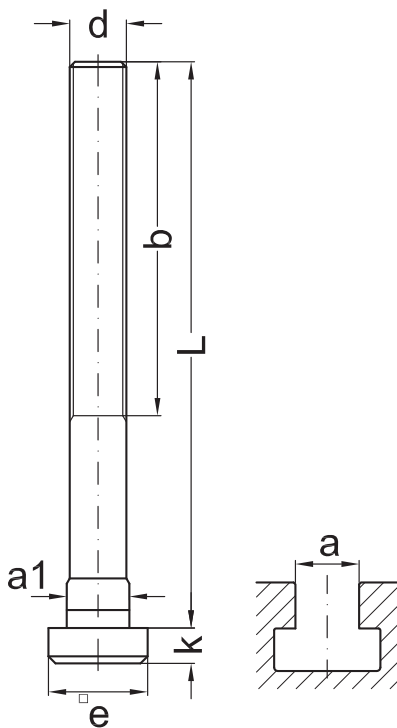
Fixing nuts and bolts that are used constantly should be regularly greased to increase life span of products.



Bolts/Screws

Product Class A DIN ISO 4759 Part 1

T-Slot Bolts DIN 787 Hardness class 10.9



d	a	L	Part No.		e	k	b	a1
M06	6	25	787-0606-025		10	4	15	5,7
		40	787-0606-040				28	
		63	787-0606-063				40	
M08	8	32	787-0808-032		13	6	22	7,7
		50	787-0808-050				35	
		80	787-0808-080				50	
M10	10	40	787-1010-040		15	6	30	9,7
		63	787-1010-063				45	
		100	787-1010-100				60	
M10	12	125	787-1012-125		18	7	75	11,7
		132	787-1012-132				80	
		170	787-1012-170				110	
		180	787-1012-180				110	
M12	12	50	787-1212-050		18	7	35	11,7
		63	787-1212-063				40	
		80	787-1212-080				55	
		100	787-1212-100				63	
		125	787-1212-125				75	
		132	787-1212-132				80	
		180	787-1212-180				100	
		200	787-1212-200				120	
M12	14	50	787-1214-050		22	8	35	13,7
		55	787-1214-055				40	
		63	787-1214-063				40	
		80	787-1214-080				55	
		100	787-1214-100				65	
		112	787-1214-112				70	
		125	787-1214-125				75	
		132	787-1214-132				80	
		180	787-1214-180				110	
		200	787-1214-200				120	
M14	16	63	787-1416-063		25	9	45	15,7
		80	787-1416-080				55	
		100	787-1416-100				63	
		112	787-1416-112				70	
		140	787-1416-140				90	
		160	787-1416-160				100	
		190	787-1416-190				110	
		250	787-1416-250				150	
M16	16	63	787-1616-063		25	9	45	15,7
		100	787-1616-100				63	
		125	787-1616-125				85	
		160	787-1616-160				100	
		200	787-1616-200				125	
		250	787-1616-250				150	

Bolts/Screws

Product Class A DIN ISO 4759 Part 1

d	a	L	Part No.	e	k	b	a1
M16	18	63	787-1618-063	28	10	45	17,7
		80	787-1618-080			55	
		100	787-1618-100			63	
		125	787-1618-125			85	
		150	787-1618-150			90	
		160	787-1618-160			100	
		200	787-1618-200			125	
		250	787-1618-250			150	
		265	787-1618-265			160	
		360	786-1618-360			250	
M18	20	100	787-1820-100	32	12	63	19,7
		160	787-1820-160			100	
		200	787-1820-200			125	
		265	787-1820-265			160	
		315	787-1820-315			200	
		360	787-1820-360			250	
M20	20	80	787-2020-080	32	12	55	19,7
		100	787-2020-100			65	
		125	787-2020-125			85	
		160	787-2020-160			110	
		200	787-2020-200			125	
		265	787-2020-265			160	
		315	787-2020-315			190	
M20	22	80	787-2022-080	35	14	55	21,7
		100	787-2022-100			63	
		125	787-2022-125			85	
		160	787-2022-160			100	
		180	787-2022-180			120	
		200	787-2022-200			125	
		212	787-2022-212			130	
		250	787-2022-250			150	
		280	787-2022-280			170	
		315	787-2022-315			190	
		365	787-2022-365			250	
M22	24	125	787-2224-125	40	16	85	23,7
		200	787-2224-200			125	
		224	787-2224-224			135	
		280	787-2224-280			170	
		370	786-2224-370			250	
M24	24	100	787-2424-100	40	16	70	23,7
		125	787-2424-125			85	
		160	787-2424-160			110	
		200	787-2424-200			125	
		224	787-2424-224			135	
		290	787-2424-290			180	

M24	28	100	787-2428-100	44	18	70	27,7
		125	787-2428-125			85	
		140	787-2428-140			90	
		160	787-2428-160			110	
		200	787-2428-200			125	
		224	787-2428-224			135	
		250	787-2428-250			150	
		290	787-2428-290			180	
		315	787-2428-315			190	
		380	787-2428-380			240	
M24	36	230	786-2436-230	54	22	160	35,6
		290	786-2436-290			200	
		380	786-2436-380			250	
M27	32	200	787-2732-200	50	20	125	31,6
M30	36	125	787-3036-125	54	22	80	35,6
		160	787-3036-160			110	
		200	787-3036-200			135	
		250	787-3036-250			150	
		315	787-3036-315			200	

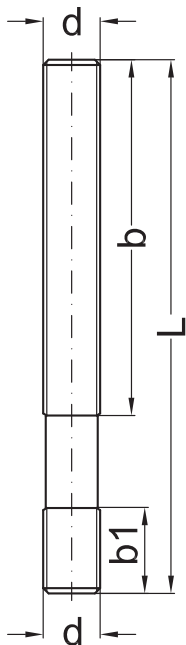


Bolts/Screws

Product Class A DIN ISO 4759 Part 1

Stud Bolts DIN 6379

Thread rolled
Hardness class 10.9



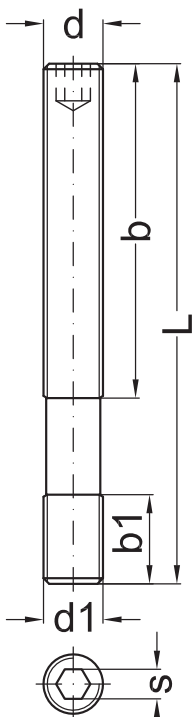
d	L	Part No.	b	b1
M06	32	379-06-032	16	9
	50	379-06-050	30	
	80	379-06-080	50	
M08	40	379-08-040	20	11
	63	379-08-063	40	
	100	379-08-100	63	
	160	379-08-160	100	
	1000	379-08-1000	500	
M10	50	379-10-050	25	13
	63	379-10-063	32	
	80	379-10-080	50	
	100	379-10-100	75	
	125	379-10-125	75	
	140	379-10-140	90	
	200	379-10-200	125	
	1000	379-10-1000	500	
M12	63	379-12-063	32	15
	80	379-12-080	50	
	100	379-12-100	63	
	125	379-12-125	75	
	150	379-12-150	90	
	200	379-12-200	125	
	265	379-12-265	160	
	1000	379-12-1000	500	
M14	63	379-14-063	32	17
	80	379-14-080	50	
	100	379-14-100	63	
	125	379-14-125	75	
	160	379-14-160	100	
	200	379-14-200	125	
	250	379-14-250	160	
	265	379-14-265	160	
M16	360	379-14-360	230	19
	80	379-16-080	50	
	100	379-16-100	63	
	125	379-16-125	75	
	160	379-16-160	100	
	200	379-16-200	125	
	250	379-16-250	160	
	280	379-16-280	160	
	315	379-16-315	180	
	370	379-16-370	250	
	400	379-16-400	250	
	500	379-16-500	315	
	1000	379-16-1000	500	

d	L	Part No.	b	b1
M18	80	379-18-080	50	23
	125	379-18-125	75	
	140	379-18-140	80	
	170	379-18-170	100	
	200	379-18-200	125	
	212	379-18-212	125	
	280	379-18-280	160	
	315	379-18-315	180	
M20	80	379-20-080	32	27
	125	379-20-125	70	
	160	379-20-160	100	
	180	379-20-180	110	
	200	379-20-200	125	
	224	379-20-224	130	
	250	379-20-250	160	
	280	379-20-280	160	
	315	379-20-315	200	
	385	379-20-385	250	
	400	379-20-400	250	
	500	379-20-500	315	
M22	1000	379-20-1000	500	31
	100	379-22-100	45	
	160	379-22-160	100	
	224	379-22-224	130	
	250	379-22-250	160	
M24	315	379-22-315	180	35
	400	379-22-400	250	
	100	379-24-100	45	
	160	379-24-160	100	
	200	379-24-200	125	
M30	224	379-24-224	130	43
	250	379-24-250	160	
	315	379-24-315	200	
	400	379-24-400	250	
	500	379-24-500	315	
	630	379-24-630	315	
	800	379-24-800	400	
	1000	379-24-1000	500	
	125	379-30-125	55	
	200	379-30-200	125	
	315	379-30-315	200	
	500	379-30-500	315	
	700	379-30-700	400	
	1000	379-30-1000	400	

Stud Bolts with Hexagon Insert

Thread rolled

Hardness class 10.9



d	d1	L	Part No.		b	b1	s
M10	M10	112	380-10-112		75	15	5
		140	380-10-140		90		
M12	M12	112	380-12-112		75	18	6
		140	380-12-140		90		
		200	380-12-200		125		
M14	M14	125	380-14-125		75	21	8
		150	380-14-150		95		
		200	380-14-200		125		
M16	M16	125	380-16-125		75	24	8
		160	380-16-160		105		
		200	380-16-200		125		
		280	380-16-280		160		
M18	M18	160	380-18-160		100	27	10
		212	380-18-212		125		
		280	380-18-280		160		
M20	M20	160	380-20-160		100	30	10
		180	380-20-180		110		
		224	380-20-224		125		
		300	380-20-300		160		
		385	380-20-385		250		
M22	M22	224	380-22-224		125	33	12
		315	380-22-315		180		
M24	M24	200	380-24-200		110	36	12
		250	380-24-250		150		
		315	380-24-315		200		
		400	380-24-400		250		
M24	M30	250	380-24-250-30		150	43	12
		315	380-24-315-30		200		
		400	380-24-400-30		250		
M30	M30	315	380-30-315		200	43	12

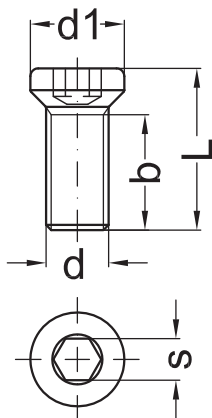
Inch							
d	d1	L	Part No.		b	b1	s
M16	5/8	125	381-16-160-58		75	24	8
		200	381-16-200-58		125		
		280	381-16-280-58		160		
M20	3/4	160	381-20-160-34		100	30	10
		224	381-20-224-34		125		
		300	381-20-300-34		160		



Bolts/Screws

Product Class A DIN ISO 4759 Part 1

Countersunk Screws with Hexagon Insert Hardness class 12.9

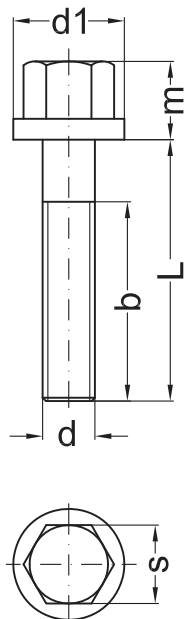


d	L	Part No.	b	d1	s
M06	19	390-06-019	10	15,5	6
	24	390-06-024	15		
	31	390-06-031	18		
M08	26	390-08-026	18	15,5	6
	30	390-08-030	20		
	40	390-08-040	30		
M10	29	390-10-029	19	18,0	8
	35	390-10-035	23		
	38	390-10-038	23		
	48	390-10-048	28		
M12	27	390-12-027	17	18,0	8
	31	390-12-031	21		
	35	390-12-035	25		
	38	390-12-038	28		
	42	390-12-042	30		
	50	390-12-050	30		
	58	390-12-058	35		
M14	35	390-14-035	24	22,5	10
	41	390-14-041	30		
	48	390-14-048	36		
	55	390-14-055	36		
	62	390-14-062	40		
M16	35	390-16-035	24	22,5	10
	40	390-16-040	28		
	45	390-16-045	33		
	48	390-16-048	33		
	52	390-16-052	40		
	55	390-16-055	40		
	58	390-16-058	40		
	65	390-16-065	45		
	70	390-16-070	45		
M18	45	390-18-045	32	29,0	12
	51	390-18-051	38		
	60	390-18-060	45		
	70	390-18-070	48		
M20	42	390-20-042	29	29,0	12
	51	390-20-051	37		
	55	390-20-055	40		
	60	390-20-060	42		
	65	390-20-065	47		
	68	390-20-068	50		
	75	390-20-075	50		
M22	55	390-22-055	40	35,0	12
	68	390-22-068	50		
	80	390-22-080	60		

d	L	Part No.	b	d1	s
M24	50	390-24-050	35	35,0	12
	60	390-24-060	45		
	72	390-24-072	52		
	78	390-24-078	60		
	86	390-24-086	60		
	100	390-24-100	70		
M27	60	390-27-060	45	41,0	12
	80	390-27-080	55		
M30	60	390-30-060	46	41,0	12
	75	390-30-075	60		
	86	390-30-086	70		
M36	66	390-36-066	52	47,0	12
	100	390-36-100			

Custom Parts					
d	L	Part No.	b	d1	s
M08	25	390-12-025-08	15	18,0	8
	29	390-12-029-08	18		
	33	390-12-033-08			
M10	27	390-08-027-10	19	15,5	6
	29	390-08-029-10	23		
	35	390-08-035-10			
M12	30	390-08-030-12	22	15,5	6
	36	390-08-036-12	26		
	45	390-08-045-12	35		
	50	390-08-050-12	40		
	35	390-16-035-12	24	22,6	10
	40	390-16-040-12			
M16	42	390-20-042-16	29	29,0	12
	51	390-20-051-16	38		
M20	50	390-24-050-20	36	35,0	12
	60	390-24-060-20			

Inch					
d	L	Part No.	b	d1	s
1/2	28	395-012-028	17	18,0	8
	38	395-012-038			
	35	395-16-035-012	24	22,6	10
5/8	37	395-058-037	26	22,6	10
	42	395-058-042			
	50	395-058-050	39		
	60	395-058-060			
	75	395-058-075			
3/4	45	395-034-045	32	29,0	12
	60	395-034-060			
1	60	395-100-060	46	35,0	12
	75	395-100-075			

Hexagon High Head Bolts
 Hardness class 10.9


d	L	Part No.		b	d1	m	s
M08	65	385-08-065		40	18	11	13
M10	65	385-10-065		45	22	13	16
	75	385-10-075		60			
	100	385-10-100		80			
M12	65	385-12-065		45	25	16	18
	80	385-12-080		60			
	105	385-12-105		90			
	170	385-12-170		90			
M14	70	385-14-070		50	28	19	21
	85	385-14-085		65			
	110	385-14-110		90			
	175	385-14-175		90			
M16	75	385-16-075		60	31	21	24
	80	385-16-080		70			
	85	385-16-085		70			
	110	385-16-110		95			
	175	385-16-175		95			
	215	385-16-215		165			
M18	95	385-18-095		70	34	24	27
	115	385-18-115		100			
	180	385-18-180		100			
M20	95	385-20-095		75	37	26	30
	105	385-20-105		85			
	112	385-20-112		90			
	120	385-20-120		100			
	130	385-20-130		100			
	165	385-20-165		130			
	185	385-20-185		140			
	225	385-20-225		175			
M22	130	385-22-130		90	40	28	34
	190	385-22-190		110			
M24	115	385-24-115		95	45	30	36
	130	385-24-130		110			
	145	385-24-145		120			
	170	385-24-170		140			
	190	385-24-190		150			
	230	385-24-230		190			



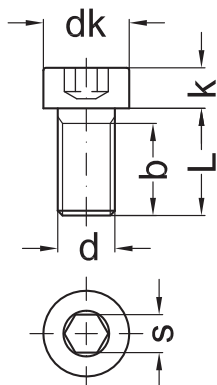
Bolts/Screws

Product Class A DIN ISO 4759 Part 1

Socket Head Bolts DIN 912

for Fixing Set SK / SKQ

Hardness class 10.9

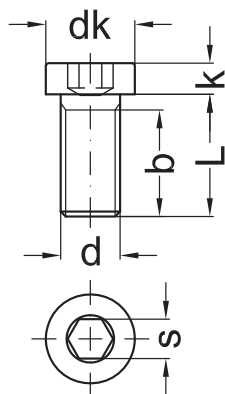


d	L	Part No.		b	k	dk	s
M04	16	908-04-016		14	4	7	3
M05	16	908-05-016		14	5	8,5	5
M06	12	908-06-012		10	6	10	5
	20	908-06-020		18			
	25	908-06-025		23			
M08	16	908-08-016		14	8	13	6
	25	908-08-025		23			
	35	908-08-035					
M10	30	908-10-030		28	10	16	8
	35	908-10-035					
	40	908-10-040					
	50	908-10-050					
M12	30	908-12-030		28	12	18	10
	35	908-12-035					
	40	908-12-040		36			
	45	908-12-045					
	50	908-12-050					
	55	908-12-055					
M14	40	908-14-040		36	14	21	12
	50	908-14-050					
	55	908-14-055		40			
M16	45	908-16-045		43	16	24	14
	50	908-16-050		44			
	55	908-16-055					
	60	908-16-060					
	70	908-16-070					
	95	908-16-095					
M18	40	908-18-040		38	18	27	14
	50	908-18-050		48			
	60	908-18-060					
	75	908-18-075					
	100	908-18-100					
M20	65	908-20-065		52	20	30	17
	70	908-20-070					
	75	908-20-075					
	80	908-20-080					
	90	908-20-090					
	100	908-20-100					
M22	85	908-22-085		52	22	33	17
	110	908-22-110					
M24	90	908-24-090		60	24	36	19
	100	908-24-100					
	120	908-24-120					

Socket Head Bolts DIN 6912

for Fixing Set FL 10

Hardness class 8.8



d	L	Part No.		b	k	dk	s
M04	6	909-04-006		5	2,8	7,0	3
	8	909-04-008		7			
M05	16	909-05-016		15	3,5	8,5	4
	18	909-05-018		17			
M06	10	909-06-010		9	4,0	10,0	5
	20	909-06-020		18			
	22	909-06-022					
M08	16	909-08-016		14	5,0	13,0	6
	20	909-08-020		18			
	22	909-08-022		20			
	25	909-08-025		23			
	30	909-08-030					
M10	20	909-10-020		18	6,5	16,0	7
	25	909-10-025		23			
	30	909-10-030		26			
M12	30	909-12-030		28	7,5	18,0	10
	35	909-12-035		30			
	40	909-12-040					
M14	35	909-14-035		33	8,5	21,0	12
	40	909-14-040		36			
M16	35	909-16-035		33	10,0	24,0	14
	40	909-16-040		38			
	45	909-16-045					
	50	909-16-050					
M18	40	909-18-040		33	11,0	27,0	14
	45	909-18-045		38			
	50	909-18-050					
M20	45	909-20-045		43	12,0	30,0	17
	50	909-20-050					
	55	909-20-055		46			
	60	909-20-060					
	65	909-20-065					

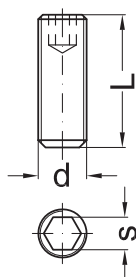


Bolts/Screws

Product Class A DIN ISO 4759 Part 1

Threaded Pins DIN 913

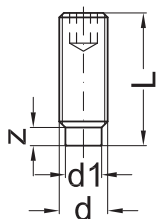
Hardness class 45H



d	L	Part No.		s
M05	8	913-05-008		2,5
M06	18	913-06-018		3
	20	913-06-020		
M08	20	913-08-020		4
M10	25	913-10-025		5
M12	30	913-12-030		6
M16	40	913-16-040		8
	45	913-16-045		
M20	50	913-20-050		10

Threaded Pins DIN 915

Hardness class 45H

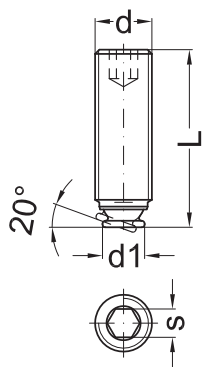


d	L	Part No.		d1	z	s
M04	4	915-04-004		2,5	1,3	2
M05	5	915-05-005		3,5	1,5	2,5
	12	915-05-010				
M06	8	915-06-008		4	1,8	3
	12	915-06-012				
M08	14	915-08-014		5,5	2,3	4
M10	16	915-10-016		7	2,8	5



**Ball Pressure Screws
with Hexagon Insert**

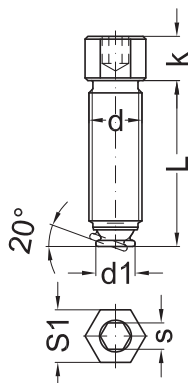
Hardness class 12.9



d	L	Part No.		d1	s
M10	25	310-10-025		6	5
M12	30	310-12-030		7	6
	32	310-12-032			
	36	310-12-036			
	40	310-12-040			
M16	40	310-16-040		12	8
	50	310-16-050			
	55	310-16-055			
	60	310-16-060			
	80	310-16-080			
M20	50	310-20-050		15	10
	55	310-20-055			
	60	310-20-060			
	70	310-20-070			
M24	60	310-24-060		18	12
	70	310-24-070			
	80	310-24-080			
	90	310-24-090			

**Ball Pressure Screws
with Hexagon Head and Insert**

Hardness class 12.9



d	L	Part No.		d1	s	s1	k
M12	36	311-12-036		8	6	13	12
	40	311-12-040					
M16	50	311-16-050		12	8	16	15
	60	311-16-060					
M20	70	311-20-070		15	10	19	17
M24	70	311-24-070		18	12	24	20
	80	311-24-080					
	90	311-24-090					



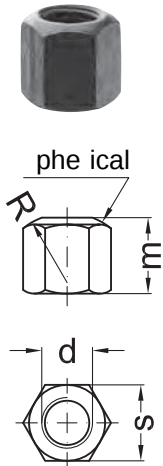
Hexagonal Nuts

Product Class A DIN ISO 4759 Part 1
*old DIN-class

Hexagonal Nuts DIN 6330 B

1,5 d high

Hardness class 10

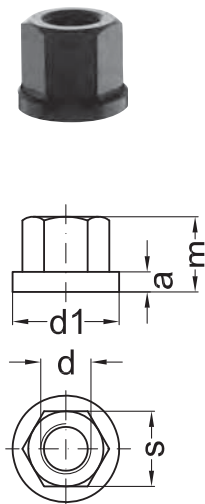


d	Part No.	s	m	r
M06	330-06	10	9	9
M08	330-08	13	13	12
M10	330-10	16	15	15
M10	330-10-17	17*	15	15
M12	330-12	18	18	17
M12	330-12-19	19*	18	17
M14	330-14	21	21	20
M14	330-14-22	22*	21	20
M16	330-16	24	24	22
M18	330-18	27	27	24
M20	330-20	30	30	27
M22	330-22	34	33	30
M22	330-22-32	32*	33	30
M24	330-24	36	36	32
M27	330-27	41	40	36
M30	330-30	46	45	41

Hexagonal Collar Nuts DIN 6331

1,5 d high

Hardness class 10



d	Part No.	s	m	a	d1
M06	331-06	10	9	3	14
M08	331-08	13	12	3,5	18
M10	331-10	16	15	4	22
M10	331-10-17	17*	15	4	22
M12	331-12	18	18	4	25
M12	331-12-19	19*	18	4	25
M14	331-14	21	21	4,5	28
M14	331-14-22	22*	21	4,5	28
M16	331-16	24	24	5	31
M18	331-18	27	27	5	34
M20	331-20	30	30	6	37
M22	331-22	34	33	6	40
M22	331-22-32	32*	33	6	40
M24	331-24	36	36	6	45
M27	331-27	41	40	8	50
M30	331-30	46	45	8	58



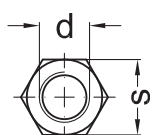
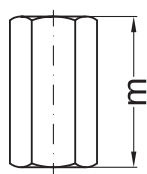
Hexagonal Nuts

Product Class A DIN ISO 4759 Part 1
 *old DIN-class

Extension Nuts DIN 6334

3,0 d high

Hardness class 10



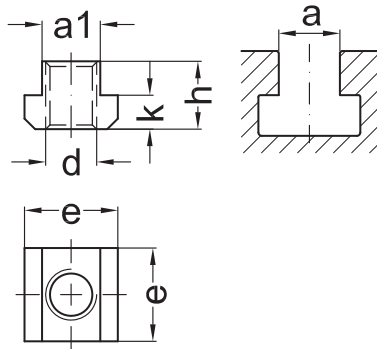
d	Part No.		s	m
M06	334-06		10	18
M08	334-08		13	24
M10	334-10		16	30
M10	334-10-17		17*	30
M12	334-12		18	36
M12	334-12-19		19*	36
M14	334-14		21	42
M14	334-14-22		22*	42
M16	334-16		24	48
M18	334-18		27	54
M20	334-20		30	60
M22	334-22		34	66
M22	334-22-32		32*	66
M24	334-24		36	72
M30	334-30		46	90



T-Nuts

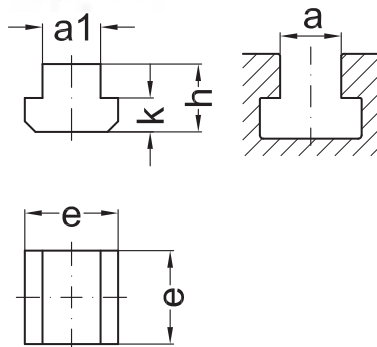
Product Class A DIN ISO 4759 Part 1

T-Nuts DIN 508 Hardness class 10



d	a	Part No.		a1	e	h	k
M05	6	508-0506		5,7	10	8	4
M06	8	508-0608		7,7	13	10	6
M08	10	508-0810		9,7	15	12	6
	12	508-0812		11,7	18	14	7
M10	12	508-1012		11,7	18	14	7
	14	508-1014		13,7	22	16	8
	16	508-1016		15,7	25	18	9
M12	14	508-1214		13,7	22	16	8
	16	508-1216		15,7	25	18	9
	18	508-1218		17,7	28	20	10
M14	16	508-1416		15,7	25	18	9
	18	508-1418		17,7	28	20	10
M16	18	508-1618		17,7	28	20	10
	20	508-1620		19,7	32	24	12
	22	508-1622		21,7	35	28	14
	24	508-1624		23,7	40	32	16
	28	508-1628		27,7	44	36	18
M18	20	508-1820		19,7	32	24	12
M20	22	508-2022		21,7	35	28	14
	24	508-2024		23,7	40	32	16
	28	508-2028		27,7	44	36	18
M22	24	508-2224		23,7	40	32	16
M24	28	508-2428		27,7	44	36	18
	32	508-2432		31,6	50	40	20
	36	508-2436		35,6	54	44	22
M30	36	508-3036		35,6	54	44	22

T-Nuts DIN 508 Blank Hardness class 10

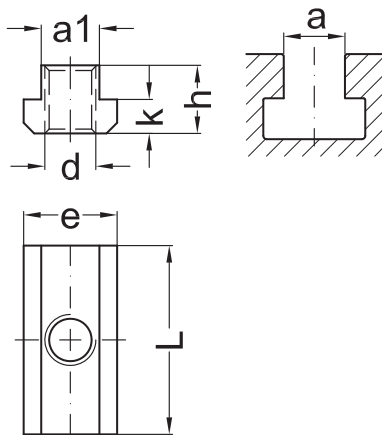


a	Part No.		a1	e	h	k
6	508-0006		5,7	10	8	4
8	508-0008		7,7	13	10	6
10	508-0010		9,7	15	12	6
12	508-0012		11,7	18	14	7
14	508-0014		13,7	22	16	8
16	508-0016		15,7	25	18	9
18	508-0018		17,7	28	20	10
20	508-0020		19,7	32	24	12
22	508-0022		21,7	35	28	14
24	508-0024		23,7	40	32	16
28	508-0028		27,7	44	36	18
32	508-0032		31,6	50	40	20
36	508-0036		35,6	54	44	22

T-Nuts

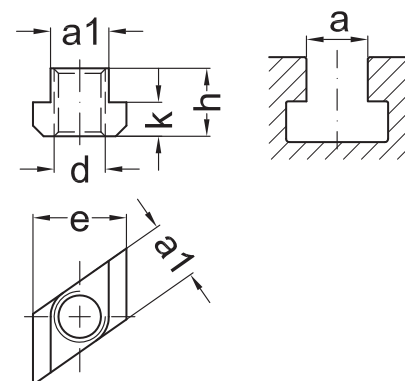
Product Class A DIN ISO 4759 Part 1

T-Nuts DIN 508 L Long Hardness class 10



d	a	Part No.		a1	e	h	k	L
M06	8	503-0608		7,7	13	10	6	26
M08	10	503-0810		9,7	15	12	6	30
	12	503-0812		11,7	18	14	7	36
M10	12	503-1012		11,7	18	14	7	36
	18	503-1018		17,7	28	20	10	56
M12	14	503-1214		13,7	22	16	8	44
	16	503-1216		15,7	25	18	9	50
M14	16	503-1416		15,7	25	18	9	50
M16	18	503-1618		17,7	28	20	10	56
	20	503-1620		19,7	32	24	12	64
	22	503-1622		21,7	35	28	14	70
M18	20	503-1820		19,7	32	24	12	64
M20	22	503-2022		21,7	35	28	14	70
	24	503-2024		23,7	40	32	16	80
	28	503-2028		27,7	44	36	18	88
M22	24	503-2224		23,7	40	32	16	80
M24	28	503-2428		27,7	44	36	18	88
	36	503-2436		35,6	54	44	22	108
M30	36	503-3036		35,6	54	44	22	108

T-Nuts DIN 508 R Rhombus Hardness class 10



d	a	Part No.		a1	e	h	k
M06	8	504-0608		7,7	13	10	6
M08	10	504-0810		9,7	15	12	6
M10	12	504-1012		11,7	18	14	7
M12	14	504-1214		13,7	22	16	8
	16	504-1216		15,7	25	18	9
	18	504-1218		17,7	28	20	10
M14	16	504-1416		15,7	25	18	9
M16	18	504-1618		17,7	28	20	10
	20	504-1620		19,7	32	24	12
	22	504-1622		21,7	35	28	14
	28	504-1628		27,7	44	36	18
M18	20	504-1820		19,7	32	24	12
M20	22	504-2022		21,7	35	28	14
	24	504-2024		23,7	40	32	16
	28	504-2028		27,7	44	36	18
M22	24	504-2224		23,7	40	32	16
M24	28	504-2428		27,7	44	36	18
	36	504-2436		35,6	54	44	22
M30	36	504-3036		35,6	54	44	22

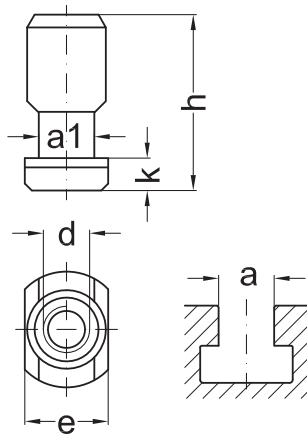


T-Nuts

Product Class A DIN ISO 4759 Part 1

T-Nuts high for Clamping Frames

Hardness class 10



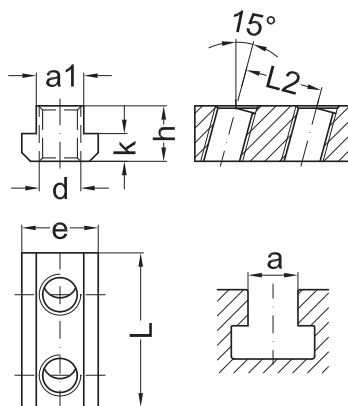
d	a	Part No.	a1	e	h	k
M08	10	505-045-0810	9,7	15	35	6
M10	12	505-045-1012	11,7	18	38	7
		505-070-1012			50	
		505-110-1012			70	
M12	14	505-045-1214	13,7	22	40	8
		505-070-1214			52	
		505-110-1214			80	
M14	16	505-045-1416	15,7	25	44	9
		505-070-1416			56	
		505-110-1416			84	
M16	18	505-045-1618	17,7	28	47	10
		505-070-1618			55	
		505-110-1618			87	
		505-180-1618			120	
		505-260-1618			160	
M16	20	505-045-1620	19,7	32	50	12
		505-110-1620			90	
		505-180-1620			123	
		505-260-1620			163	
M16	22	505-045-1622	21,7	35	54	14
M18	20	505-070-1820	19,7	32	61	12
		505-110-1820			90	
		505-180-1820			122	
M20	22	505-070-2022	21,7	35	65	14
		505-110-2022			90	
		505-180-2022			126	
		505-260-2022			166	
M20	24	505-070-2024	23,7	40	68	16
		505-110-2024			90	
		505-180-2024			130	
		505-260-2024			170	
M20	28	505-070-2028	27,7	44	73	18
M22	24	505-110-2224	23,7	40	90	16
M24	28	505-080-2428	27,7	44	80	18
		505-110-2428			100	
		505-180-2428			135	
		505-260-2428			175	
M24	36	505-110-2436	35,6	54	116	22
		505-180-2436			150	



T-Nuts · Special Design

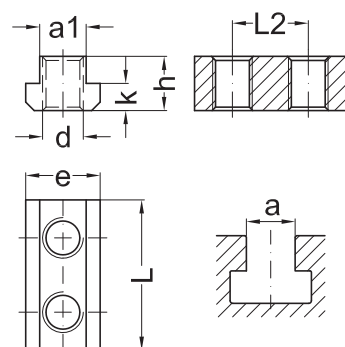
Product Class A DIN ISO 4759 Part 1

T-Nuts with two holes, 15°
for FL and SK/SKO
Hardness class 10



d	a	Part No.	a1	e	h	k	L	L2
M08	10	503-0810-2-15-13	9,7	15	12	6	42	25
M10	12	503-1012-2-15	11,7	18	14	7	48	25
M12	14	503-1214-2-15	13,7	22	16	8	48	25
		503-1214-2-15-17					56	33
	16	503-1216-2-15	15,7	25	18	9	50	25
M14	16	503-1416-2-15	15,7	28	19	9	59	33
M16	18	503-1618-2-15	17,7	28	20	10	61	33
		503-1618-2-15-21					68	40
	20	503-1620-2-15	19,7	32	24	12	64	33
	22	503-1622-2-15	21,7	35	28	14	64	33
M18	20	503-1820-2-15	19,7	32	24	12	72	40
M20	22	503-2022-2-15	21,7	35	28	14	75	40
		503-2022-2-15-25					83	48
	24	503-2024-2-15	23,7	40	32	16	76	40
	28	503-2028-2-15	27,7	44	36	18	77	40
M22	24	503-2224-2-15	23,7	40	32	16	88	48
M24	28	503-2428-2-15	27,7	44	36	18	92	48
	36	503-2436-2-15	35,6	54	44	22	94	48

T-Nuts with two holes
for FL, first version
Hardness class 10



d	a	Part No.	a1	e	h	k	L	L2
M06	8	503-0608-09-2	7,7	12	10	6	32	19
M08	10	503-0810-09-2	9,7	15	12	6	33	19
	12	503-0812-09-2	11,7	18	14	7	39	19
M12	14	503-1214-13-2	13,7	22	16	8	48	26
M16	18	503-1618-17-2	17,7	28	20	10	61	33
M20	22	503-2022-21-2	21,7	35	28	14	75	41
	22	503-2022-32-2					70	32
	22	503-2022-38-2					70	38
	28	503-2028-21-2	27,7	44	36	18	77	41

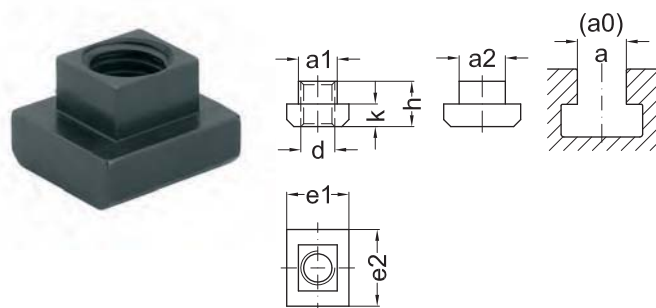


T-Nuts · Special Design

Product Class A DIN ISO 4759 Part 1

Double T-Nuts for two T-Slots

Hardness class 10

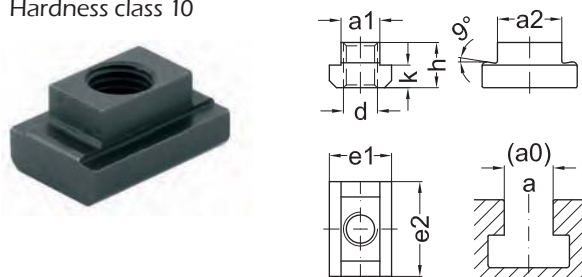


d	a	Part No.		a0	a1	a2	e1	e2	h	k
M10	12	502-1012-14		14	11,7	13,7	18	22	14	7
M12	14	502-1214-16		16	13,7	15,7	22	25	16	8
		502-1214-18		18		17,7		28		
		502-1214-20		20		19,7		32		
		502-1214-22		22		21,7		35		
M14	16	502-1416-18		18	15,7	17,7	22	28	18	9
M16	18	502-1618-20		20	17,7	19,7	28	32	20	10
		502-1618-22		22		21,7		35		
		502-1618-24		24		23,7		40		
		502-1618-28		28		27,7		44		
M18	20	502-1820-22		22	19,7	21,7	32	35	24	12
M20	22	502-2022-24		24	21,7	23,7	35	40	28	14
		502-2022-28		28		27,7		44		
M24	28	502-2428-32		32	27,7	31,6	44	50	36	18
		502-2428-36		36		35,6		54		

Riser T-Nuts 9° for MQ-Clamps

for Aluminium Clamping Shoes

Hardness class 10

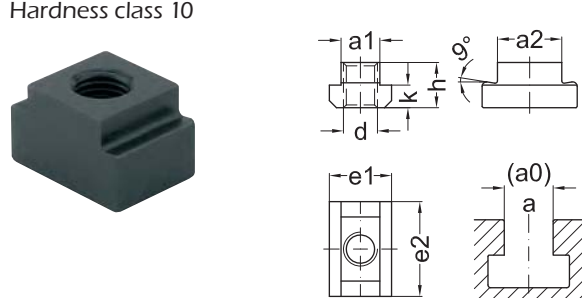


d	a	Part No.		a0	a1	a2	e1	e2	h	k
M10	12	509-1012-24		24	11,7	23,6	18	35	14	7
M12	14	509-1214-24		24	13,7	23,6	22	35	16	8
M14	16	509-1416-28		28	15,7	27,6	25	41	18	9
M16	18	509-1618-28		28	17,7	27,6	28	41	20	10
M18	20	509-1820-34		34	19,7	33,6	32	49	24	12
M20	22	509-2022-34		34	21,7	33,6	35	49	25	14
M20	28	509-2028-34		34	27,7	33,6	44	49	31	18
M24	28	509-2428-34		34	27,7	33,6	44	49	31	18
M24	28	509-2428-42		42	27,7	41,6	44	61	31	18

Riser T-Nuts 9° for MQ-Clamps

for Steel Clamping Shoes

Hardness class 10



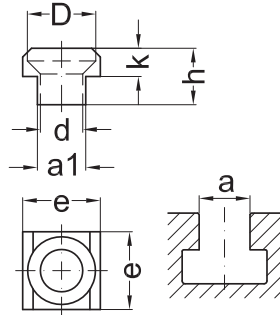
d	a	Part No.		a0	a1	a2	e1	e2	h	k
M12	–	509-1224		24	22,0	23,6	22	35	20	13
M16	–	509-1628		28	28,0	27,6	28	41	25	16
M20	–	509-2034		34	35,0	33,6	35	49	30	19
M24	–	509-2442		42	44,0	41,6	44	61	31	18

T-Nuts

Product Class A DIN ISO 4759 Part 1

B50 Nuts for Countersunk Screw

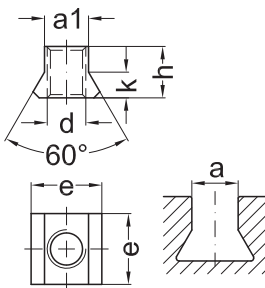
Hardness class 10



d	a	Part No.		a1	e	h	k	D
M10	12	501-1012		11,7	18	14	7	16
M12	14	501-1214		13,7	22	16	8	19
M14	16	501-1416		15,7	25	18	9	23
M16	18	501-1618		17,7	28	20	10	23
M18	20	501-1820		19,7	32	24	12	30
M20	22	501-2022		21,7	35	28	14	30
M22	24	501-2224		23,7	40	32	16	36
M24	28	501-2428		27,7	44	36	18	36

V-Nuts

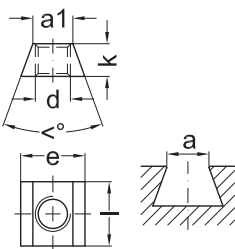
Hardness class 10



d	a	Part No.		a1	e	h	k	α
M12	14	506-1214		13,7	22	16	8	60
	16	506-1216		15,7	25	18	9	
M14	16	506-1416		15,7	25	18	9	60
M16	18	506-1618		17,7	28	20	10	60
	20	506-1620		19,7	32	24	12	
M18	20	506-1820		19,7	32	24	12	60
M20	22	506-2022		21,7	35	28	14	60
	24	506-2024		23,7	40	32	16	
M24	28	506-2428		27,7	44	36	18	60

V-Nuts

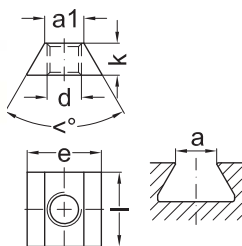
Hardness class 10



d	a	Part No.		a1	e	l	k	α
M12	15	500-1215.4		15,4	25	25	15	40
	18	500-1218.4		18,4				
M16	18	500-1618.4		18,4	29	35	15	40
M20	22	500-2022.4		22,4	35	40	20	40

V-Nuts

Hardness class 10



d	a	Part No.		a1	e	l	k	α
M12	14	507-1214		14,4	30	25	15	60
M14	16	507-1416		16,4	30	30	15	60
M16	18	507-1618		18,4	40	40	20	60
M20	22	507-2022		22,4	50	40	25	60
M24	28	507-2428		28,4	60	45	30	60

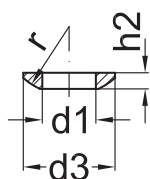


Washers

Product Class A DIN ISO 4759 Part 1

Spherical Seat Washers DIN 6319 Shape C

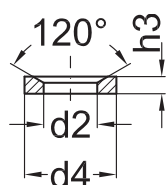
Hardened, 550 + 100 HV10



d	Part No.		d1	d3	h2	r
M08	319-108		8,4	17	3,2	12
M10	319-110		10,5	21	4,0	15
M12	319-112		13,0	24	4,6	17
M14	319-114		15,0	28	5,0	22
M16	319-116		17,0	30	5,3	22
M20	319-120		21,0	36	6,3	27
M24	319-124		25,0	44	8,2	32
M30	319-130		31,0	56	11,2	41

Dished Washers DIN 6319 Shape D

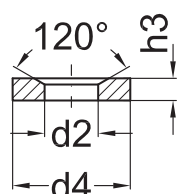
Hardened, 550 + 100 HV10



d	Part No.		d2	d4	h3
M08	319-208		9,6	17	3,5
M10	319-210		12,0	21	4,2
M12	319-212		14,2	24	5,0
M14	319-214		16,5	28	5,6
M16	319-216		19,0	30	6,2
M20	319-220		23,2	36	7,5
M24	319-224		28,0	44	9,5
M30	319-230		35,0	56	12,0

Dished Washers DIN 6319 Shape G

Tempered, 350 + 80 HV30

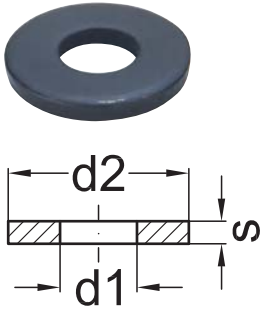


d	Part No.		d2	d4	h3
M08	319-308		9,6	24	5,0
M10	319-310		12,0	30	5,0
M12	319-312		14,2	36	6,0
M14	319-314		16,5	40	6,0
M16	319-316		19,0	44	7,0
M20	319-320		23,2	50	8,0
M24	319-324		28,0	60	10,0
M30	319-330		35,0	68	12,0

Washers

Product Class A DIN ISO 4759 Part 1

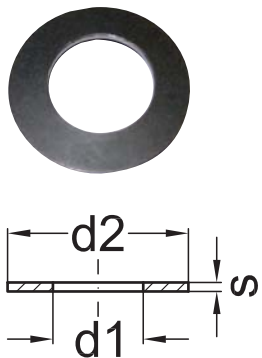
Washers DIN 6340

 Product Class A, DIN 522
 Tempered, 350 + 80 HV30


d	Part No.		d1	d2	s
M06	340-06		6,4	17	3
M08	340-08		8,4	23	4
	340-081			18	3
M10	340-10		10,5	28	4
M12	340-12		13,0	35	5
	340-121			30	
M14	340-14		15,0	40	5
	340-141			32	
M16	340-16		17,0	45	6
	340-161			32	5
	340-162			40	
M18	340-18		19,0	45	6
	340-181			40	
M20	340-20		21,0	50	6
	340-201			40	5
M22	340-22		23,0	50	8
M24	340-24		25,0	60	8
M27	340-27		28,0	68	10
M30	340-30		31,0	68	10

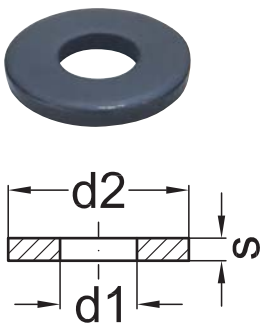
Washers

Hardness class 14.9



d	Part No.		d1	d2	s
M12	342-12		14,0	28,0	1,0
M14	342-14		16,0	31,5	1,2
M16	342-16		18,0	31,5	1,2
M18	342-18		20,0	40,0	1,5
M20	342-20		22,0	40,0	1,5
M22	342-22		24,0	45,0	1,7
M24	342-24		26,0	45,0	1,7

Washers



d	Part No.		d1	d2	s
M10	344-10		10,5	18,0	1,6
M12	344-12		13,0	20,0	2,0
M14	344-14		15,0	24,0	2,5
M16	344-16		17,0	28,0	2,5
M20	344-20		21,0	34,0	3,0
M20	344-201		22,0	32,0	2,0
M24	344-24		25,0	39,0	4,0



Bolt Sets

Bolt Sets for T-Slots In wooden box



Part No.		391-1214	391-1416	391-1618	391-1820	391-2022	391-2428
Thread / T-Slot width (d x a)		M12 a 14	M14 a 16	M16 a 18	M18 a 20	M20 a 22	M24 a 28
Pcs x Length		Pcs x L	Pcs x L	Pcs x L	Pcs x L	Pcs x L	Pcs x L
T-Slot Bolts	DIN 787	4 x 050	4 x 063	4 x 080	4 x 125	4 x 100	4 x 100
		4 x 080	4 x 100	4 x 125	4 x 160	4 x 160	4 x 160
		4 x 125	4 x 160	4 x 160	4 x 200	4 x 200	4 x 290
		4 x 180	4 x 190	4 x 200	4 x 265	4 x 280	–
Stud Bolts	DIN 6379	4 x 100	4 x 100	4 x 100	4 x 125	4 x 125	4 x 160
		4 x 150	4 x 160	4 x 160	4 x 170	4 x 180	4 x 224
		4 x 200	4 x 200	4 x 200	4 x 212	4 x 224	4 x 315
		4 x 265	4 x 265	4 x 280	4 x 280	4 x 280	4 x 400
Washers	DIN 6340	4	4	4	4	4	4
Collar Nuts	DIN 6331	4	4	4	4	4	4
Extension Nuts	DIN 6334	4	4	4	4	4	4
T-Nuts	DIN 508	4	4	4	4	4	4
T-Nuts Long	DIN 508L	2	2	2	2	2	2
Spherical Seat Washers C with Dished Washers G	DIN 6319	2	2	2	2	2	2
Bolt Grease		1	1	1	1	1	1
Set							

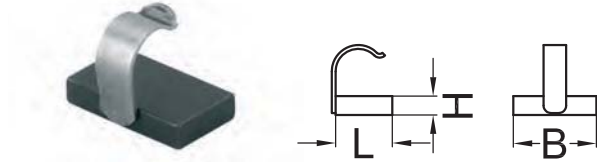


Used with MQ-Clamps, helps to protect the work piece surface, especially soft materials

■ Material: Quality Steel

Workpiece Protection Plate

Flat



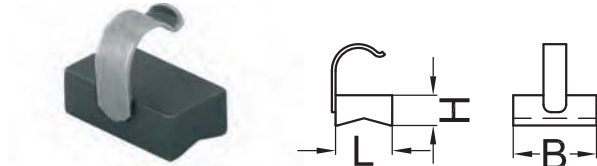
Sz.	Part No.		L	B	H
12	991-7012-1		15	22	5
16	991-7016-1		15	26	6
20	991-7020-1		20	32	7
24	991-7024-1		20	40	8

Prism-Longitudinal



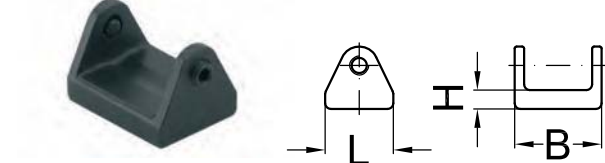
Sz.	Part No.		L	B	H
12	991-7012-2		15	20	12
16	991-7016-2		15	25	12
20	991-7020-2		20	30	16
24	991-7024-2		20	40	16

Prism-Crosswise



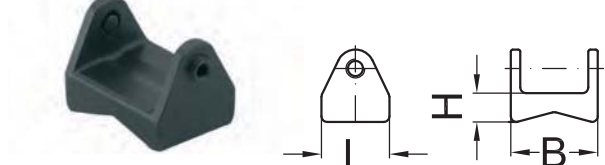
Sz.	Part No.		L	B	H
12	991-7012-3		15	22	12
16	991-7016-3		15	26	12
20	991-7020-3		20	32	16
24	991-7024-3		20	40	16

Flat



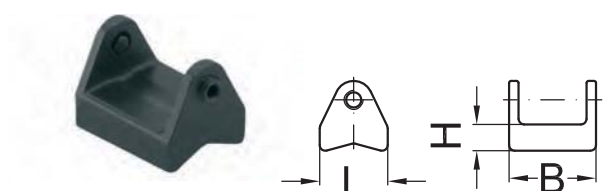
Sz.	Part No.		L	B	H
8	991-150-08-1		15	19	5
12	991-150-12-1		18	23	5
16	991-150-16-1		20	27	6
20	991-150-20-1		22	32	7
24	991-150-24-1		24	40	8

Prism-Longitudinal



Sz.	Part No.		L	B	H
12	991-150-12-2		18	23	7
16	991-150-16-2		20	27	8
20	991-150-20-2		22	32	10
24	991-150-24-2		24	40	12

Prism-Crosswise



Sz.	Part No.		L	B	H
12	991-150-12-3		18	23	7
16	991-150-16-3		20	27	8
20	991-150-20-3		22	32	10
24	991-150-24-3		24	40	12



Wrenches/ Allen Keys

Ball end Hexagonal Allen Key Chrome-Vanadium Steel, hardened



s	Part No.		L1	L2
6	610-06		160	60
8	610-08		200	70
10	610-10		230	80
12	610-12		260	90
14	610-14		280	95
17	610-17		300	100

Hexagonal Allen Key with Cone Chrome-Vanadium Steel, hardened



s	Part No.		L1	L2	d
4	611-04		140	25	2,5
5	611-05		160	28	3
6	611-06		180	32	4
8	611-08		200	36	5
10	611-10		224	40	6
12	611-12		250	45	7
14	611-14		280	55	8
17	611-17		320	63	10

Hexagonal Allen Key w/o Cone Chrome-Vanadium Steel, hardened



s	Part No.		L1	L2
2	612-02		52	18
2,5	612-025		58	20
3	612-03		66	23
4	612-04		74	29
5	612-05		85	33
19	612-19		330	100

Torque Wrench ½ inch



Nm	Part No.		L
10-060	605-060		380
30-130	605-130		470
40-210	605-210		460
70-350	605-350		630

Torque Wrench ½ inch Accuracy ± 4% ISO 6789 certified Automatic reset wrench



Capacity Nm	Part No.		L
40-200	605-200-f		479
60-340	605-340-f		632

Adapter ½ inch
 For torque wrench


s	Part No.		L
8	606-08		25
10	606-10		25
12	606-12		25

Combination Wrench
 Chrome-plated, hardened steel


s	Part No.		L
13	620-13		160
14	620-14		170
16	620-16		180
17	620-17		190
18	620-18		200
19	620-19		210
21	620-21		260
22	620-22		260
24	620-24		280
27	620-27		300
30	620-30		330
32	620-32		400
34	620-34		450
36	620-36		460

Double Open-Ended Wrench
 Hardened steel


s	Part No.		s1	L
16	622-1618		18	160
18	622-1821		21	190
19	622-1924		24	215
24	622-2427		27	245
27	622-2730		30	270

Ratchet Combination Wrench
 Chrome-plated, hardened steel


s	Part No.		L
13	623-13		185
14	623-14		190
16	623-16		210
17	623-17		225
18	623-18		235
19	623-19		250



Machine Tables

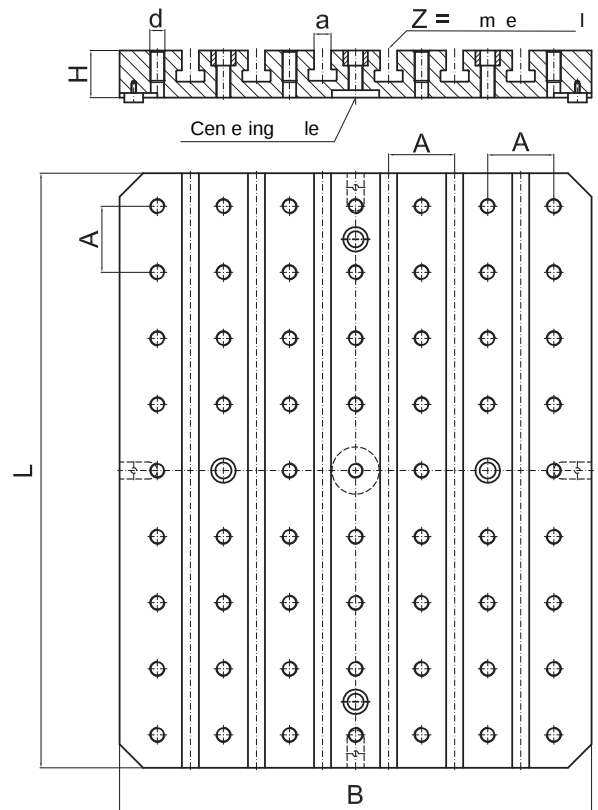
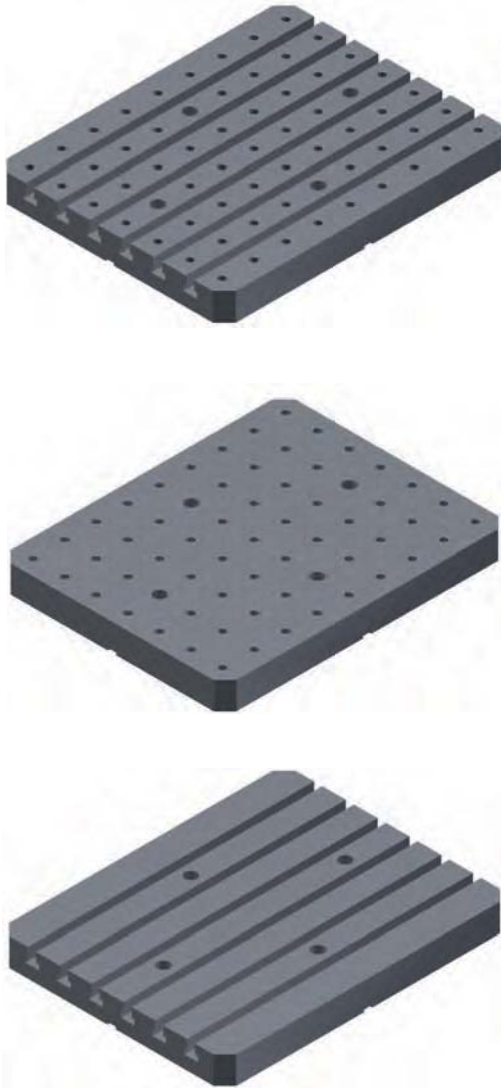
Universal Machine Table for all Machines

Designs:

- With T-Slots DIN 650 and Tapped Holes
- With Tapped Holes
- With T-Slots

All Machine Tables come with:

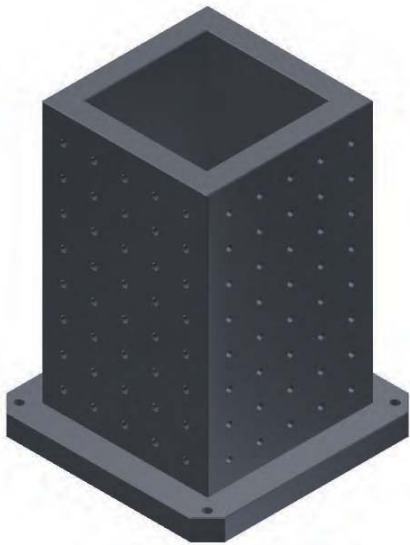
- Centering Hole
- Centered T-Slot
- Mounting Tapped Holes



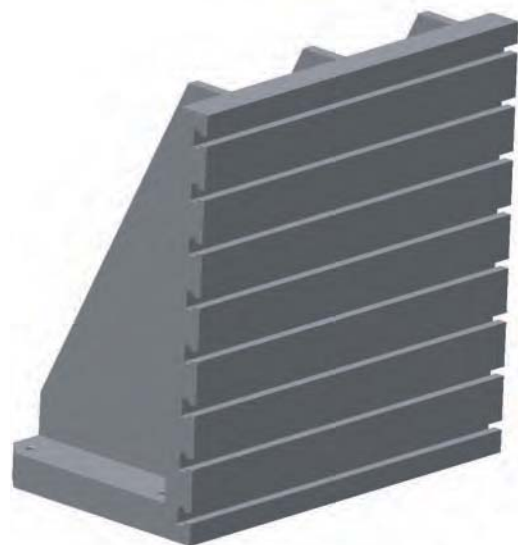
			Steel		Cast Iron		Aluminium						
Size	d	a	Part No.		Part No.		Part No.		B	L	H	A	Z
250-250	M12	14	850-250-250-1214		851-250-250-1214		852-250-250-1214		250	250	40	50	4
250-320	M12	14	850-250-320-1214		851-250-320-1214		852-250-320-1214			320			
320-320	M12	14	850-320-320-1214		851-320-320-1214		852-320-320-1214		320				
	M16	18	850-320-320-1618		851-320-320-1618		852-320-320-1618				50	70	
320-400	M12	14	850-320-400-1214		851-320-400-1214		852-320-400-1214			400	40	50	
	M16	18	850-320-400-1618		851-320-400-1618		852-320-400-1618				50	70	
400-400	M12	14	850-400-400-1214		851-400-400-1214		852-400-400-1214		400		40	50	6
	M16	18	850-400-400-1618		851-400-400-1618		852-400-400-1618				50	70	
400-500	M12	14	850-400-500-1214		851-400-500-1214		852-400-500-1214			500		50	
	M16	18	850-400-500-1618		851-400-500-1618		852-400-500-1618					70	
500-500	M12	14	850-500-500-1214		851-500-500-1214		852-500-500-1214		500				
	M16	18	850-500-500-1618		851-500-500-1618		852-500-500-1618						
500-630	M12	14	850-500-630-1214		851-500-630-1214		852-500-630-1214			630			
	M16	18	850-500-630-1618		851-500-630-1618		852-500-630-1618				60		
630-630	M12	14	850-630-630-1214		851-630-630-1214		852-630-630-1214		630				8
	M16	18	850-630-630-1618		851-630-630-1618		852-630-630-1618						

Custom Parts

We manufacture custom made square, angled or plain tombstones with T-Slots DIN 650, Tapped Holes or a combination of both as well as chain clamps.



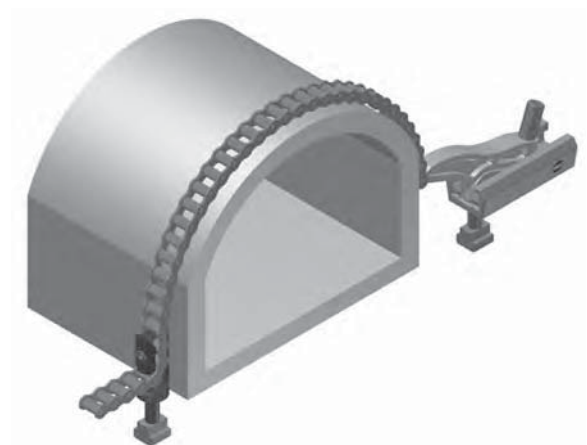
Square Tombstone



Angled Tombstone



Plain Tombstone



Chain Clamp



Technical Data for mechanical Clamps

Multi-Quick MQ 60 – MQ 200

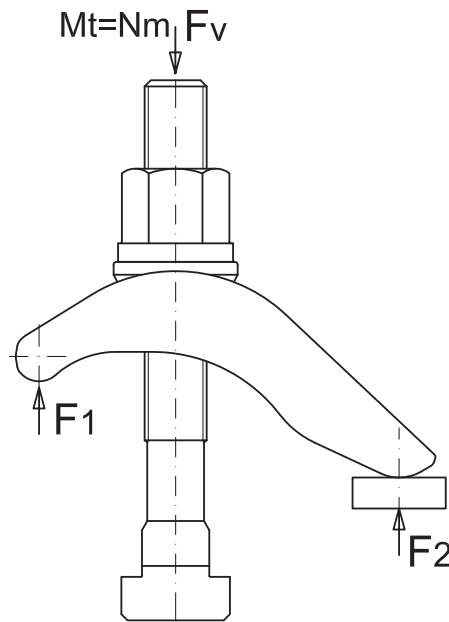


Numbers are based on average clamping heights
Recommended Torques (friction = 0.14)

Series			MQ 60–65		MQ 70		MQ 100		MQ 106		MQ 110		MQ 130		MQ 134		MQ 150		MQ 160		MQ 200	
	Countersunk Screw	Torque Countersunk Screw	Torque Ball Pressure Screw	Holding Force max. F2	Torque Ball Pressure Screw	Holding Force max. F2	Torque Ball Pressure Screw	Holding Force max. F2	Torque Ball Pressure Screw	Holding Force max. F2	Torque Ball Pressure Screw	Holding Force max. F2	Torque Ball Pressure Screw	Holding Force max. F2	Torque Ball Pressure Screw	Holding Force max. F2	Torque Ball Pressure Screw	Holding Force max. F2	Torque Ball Pressure Screw	Holding Force max. F2	Torque Ball Pressure Screw	Holding Force max. F2
Sz.	d	Mt Nm	Mt Nm	kN	Mt Nm	kN	Mt Nm	kN	Mt Nm	kN	Mt Nm	kN	Mt Nm	kN	Mt Nm	kN	Mt Nm	kN	Mt Nm	kN	Mt Nm	kN
8	M06	30	35	24	–	–	40	22	–	–	–	–	–	–	–	–	–	–	–	–	–	–
8	M08	35	45	24	–	–	50	22	–	–	–	–	–	–	–	–	–	–	–	–	–	–
8	M10	35	50	24	–	–	60	22	–	–	–	–	–	–	–	–	–	–	–	–	–	–
8	M12	40	50	24	–	–	60	22	–	–	–	–	–	–	–	–	–	–	–	–	–	–
12	M10	40	60	40	80	20	80	30	80	32	60	25	60	20	80	20	80	30	80	30	80	32
12	M12	70	70	40	100	20	100	30	100	32	70	25	70	20	100	25	100	30	100	30	100	32
16	M14	100	100	55	120	30	120	40	120	43	100	35	100	30	120	30	120	40	120	40	120	43
16	M16	150	120	55	150	30	150	40	150	43	120	35	120	30	150	35	150	40	150	40	150	43
20	M18	160	160	65	160	40	160	45	160	50	140	40	140	35	160	35	–	–	–	–	160	50
20	M20	200	180	65	200	40	200	45	200	50	180	40	180	35	200	40	–	–	–	–	200	50
24	M22	220	220	80	220	50	220	55	220	60	–	–	–	–	–	–	–	–	–	–	220	60
24	M24	280	280	80	280	50	300	60	300	60	–	–	–	–	–	–	–	–	–	–	300	60
24	M30	280	280	80	280	50	300	60	300	60	–	–	–	–	–	–	–	–	–	–	–	60

Technical Data for mechanical Clamps

Clamping Frames S10 – S45



Numbers are based on the average clamping height
and the centered position within the grooves of the frame S30–S45 only
Recommended Torques (friction = 0.14)

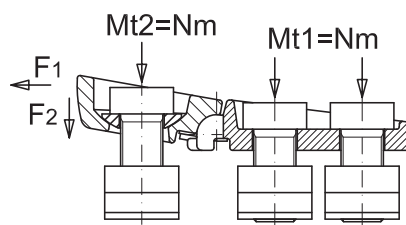
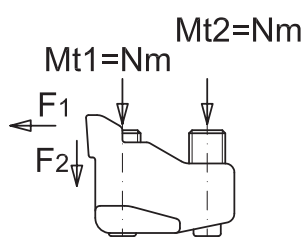
Clamping Frames S10 – S20					
Countersunk Screw	Torque Countersunk Screw	0–45	10–70	30–110	90–180
		Holding Force max. F1	Holding Force max. F1	Holding Force max. F1	Holding Force max. F1
d	Mt Nm	kN	kN	kN	kN
M08	30	12	–	–	–
M10	60	18	18	18	–
M12	100	20	20	22	25
M14	150	30	32	35	35
M16	220	30	32	35	40
M18	300	–	45	50	50
M20	400	–	45	50	50
M22	500	–	–	60	60
M24	700	–	–	60	70
M30	700	–	–	60	70

Clamping Frames S30 – S45								
Countersunk Screw	Torque Countersunk Screw	0–45	10–70	10–80	30–110	60–160	90–180	130–260
		Holding Force max. F1	Holding Force max. F1	Holding Force max. F1	Holding Force max. F1	Holding Force max. F1	Holding Force max. F1	Holding Force max. F1
d	Mt Nm	kN	kN	kN	kN	kN	kN	kN
M08	25	12	–	–	–	–	–	–
M10	50	15	18	–	18	–	–	–
M12	90	15	18	–	20	–	25	–
M14	130	25	25	–	30	–	35	35
M16	200	25	25	35	30	–	35	35
M18	300	–	35	50	50	–	50	35
M20	400	–	40	50	50	50	50	50
M22	500	–	–	55	50	60	50	50
M24	700	–	–	55	60	60	60	60
M30	700	–	–	55	60	70	60	60



Technical Data for mechanical Clamps

Side Clamps NU / FL



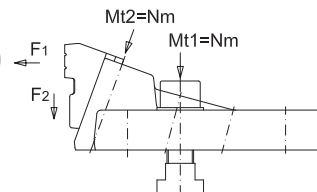
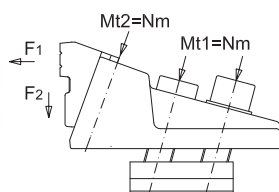
Series: Side Clamps NU10						
Recommended Torques (friction = 0.14)						
	Fixing Screw	T-Slot Width	Torque Fixing Screw	Torque Fixing Screw	Holding Force max.	Holding Force max.
Part No.	d	a	Mt1 Nm	Mt2 Nm	F1 kN	F2 kN
002-0810	M06	10,0	4,0	2,0	5,0	2,5
002-1012	M08	12,0	10,0	5,0	6,0	3,0
002-1214	M10	14,0	18,0	9,0	7,0	3,5
002-1416	M12	16,0	32,0	15,0	8,0	4,0
002-1618	M12	18,0	32,0	15,0	10,0	5,0
002-2022	M16	22,0	75,0	35,0	16,0	8,0
002-2428	M20	28,0	135,0	65,0	18,0	9,0

Series: Side Clamps FL10					
Recommended Torques (friction = 0.14)					
	Fixing Screw	Torque Fixing Screw	Torque Fixing Screw	Holding Force max.	Holding Force max.
Part No.	d	Mt1 Nm	Mt2 Nm	F1 kN	F2 kN
004-09-0608	M06	8,0	7,0	4,0	2,0
004-09-0810	M08	20,0	16,0	7,0	3,5
004-09-0812	M08	20,0	16,0	7,0	3,5
004-13-0810	M08	20,0	16,0	7,0	3,5
004-13-1012	M10	35,0	28,0	10,0	5,0
004-13-1214	M12	65,0	52,0	15,0	7,5
004-13-1216	M12	65,0	52,0	15,0	7,5
004-17-1214	M12	65,0	52,0	15,0	7,5
004-17-1416	M14	100,0	80,0	20,0	10,0
004-17-1618	M16	150,0	120,0	25,0	12,5
004-17-1620	M16	150,0	120,0	25,0	12,5
004-21-1618	M16	150,0	120,0	25,0	12,5
004-21-1820	M18	210,0	170,0	30,0	15,0
004-21-2022	M20	300,0	240,0	36,0	18,0
004-21-2024	M20	300,0	240,0	36,0	18,0
004-21-2028	M20	300,0	240,0	36,0	18,0



Technical Data for mechanical Clamps

Side Clamps SK / SKO



Series: Side Clamps SK10 / SKO10
Recommended Torques (friction = 0.14)

	Fixing Screw	Torque Fixing Screw	Torque Driving Ring	Holding Force max.	Holding Force max.
Part No.	d	Mt1 Nm	Mt2 Nm	F1 kN	F2 kN
...-013--0810	M08	30	80	20	10
...-013--1012	M10	45	80	20	10
...-013--1214	M12	80	80	20	10
...-013--1216	M12	80	80	20	10
...-017--1214	M12	80	80	25	12
...-017--1416	M14	125	120	25	12
...-017--1618	M16	160	120	25	12
...-017--1620	M16	160	120	25	12
...-017--1622	M16	160	120	25	12

	Fixing Screw	Torque Fixing Screw	Torque Driving Ring	Holding Force max.	Holding Force max.
Part No.	d	Mt1 Nm	Mt2 Nm	F1 kN	F2 kN
...-021--1618	M16	160	120	40	20
...-021--1820	M18	250	200	40	20
...-021--2022	M20	340	200	40	20
...-021--2024	M20	340	200	40	20
...-021--2028	M20	340	200	40	20
...-025--2022	M20	340	200	65	32
...-025--2224	M22	420	300	65	32
...-025--2428	M24	540	300	65	32
...-025--2436	M24	540	300	65	32

Self Centering Clamp



Series: Self Centering Clamps
Recommended Torques (friction = 0.14)

	Fixing Screw	Torque Fixing Screw	Torque Driving Ring	Holding Force max.
Part No.	d	Mt1 Nm	Mt2 Nm	F1 kN
860-050-...-1012	M10	45,0	100,0	20,0
860-050-...-1214	M12	80,0	100,0	20,0
860-050-...-1216	M12	80,0	100,0	20,0
860-080-...-1214	M12	80,0	140,0	25,0
860-080-...-1416	M14	125,0	140,0	25,0
860-080-...-1618	M16	160,0	140,0	25,0
860-080-...-1620	M16	160,0	140,0	25,0



Service

T-Slot Refurbishment

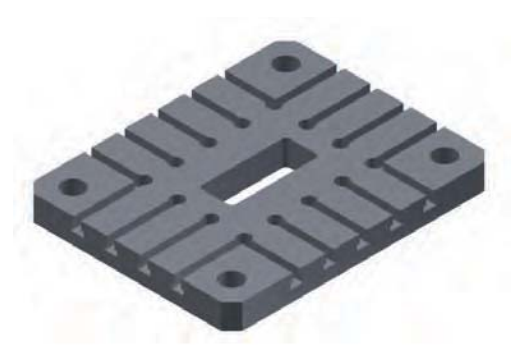
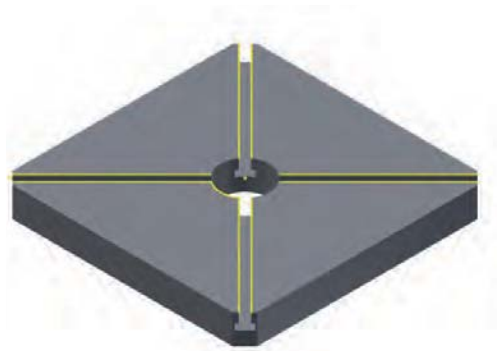
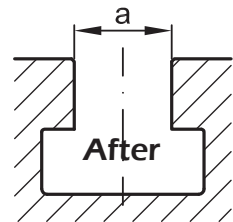
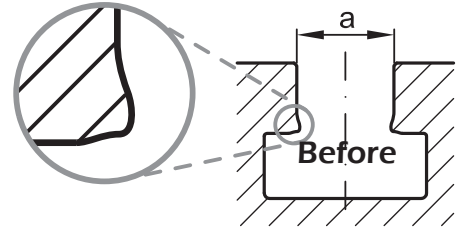
You know this Problem!

The T-Nuts or T-Slot bolts don't fit the T-Slots anymore.
They got damaged from years of use.

Undamaged T-Slots are a must for safe and efficient clamping.
Our experienced staff can repair your machine tables on site.

We hope that we have your attention and are looking forward
to your comments.

Please complete and return this form for a free quote.



Type of machine: ☐ Press ☐ Stamping Machine ☐ Mill

Size of table: _____
Length x Width

T-Slot Width a: _____

T-Slot Length: _____

T-Slot Qty.: _____

Continuous T-Slot ☐ yes/☐ no: _____

Company: _____

Customer No.: _____

Address: _____

Telephone: _____

Fax: _____

Contact Person: _____ Ext.: _____

Department: _____

Date / Signature

Stamp



☐ **Quotation**
☐ **Sample on a free trial basis**
☐ **Order**

Company: _____ Customer No.: _____
 Address: _____
 Telephone: _____ Fax: _____
 Contact Person: _____ Department: _____
 Order number: _____

Pos.	Qty.	Part Number	Description	Price
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Clamps can also be used in

Contact Person

- ☐ Machine Shop _____
☐ Stamping/ Pressing _____
☐ Pressure Die Casting _____
☐ Injection Moulding _____
☐ Training Centre _____

Visit us online at www.lenzkes.com

We appreciate you taking the time to complete this form.

Date / Signature

Stamp



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