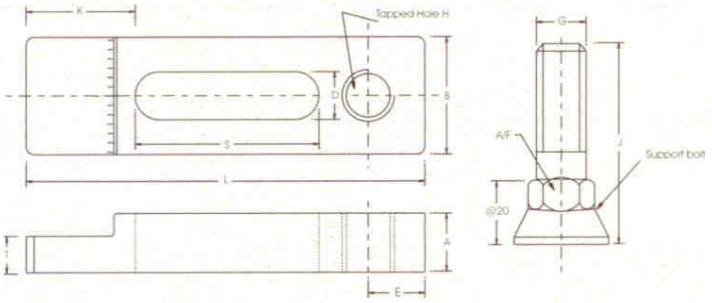
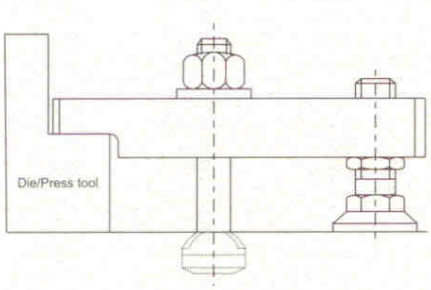
Tisa
Clamping System

Clamps & Clamping Elements
Press shop / Plastic Moulding Applications

Cat No. PPS - 1-2 / 02

MOULD CLAMP WITH HEAVY SUPPORT BOLT TYPE : T1-MCH





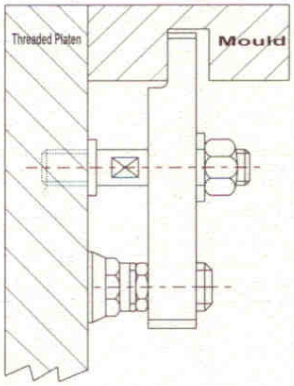
Features : Ideally suited to hold mould on Injection Moulding machines & die plates on press platen. Counter height adjustment provided by heavy duty support bolt with hex and round base and lock-nut.

Application : Presses, plastic moulding machines, Milling / Drilling machines and in the design of jigs and fixtures.

Material : Medium carbon steel. heat treated to 8.8 Grade.

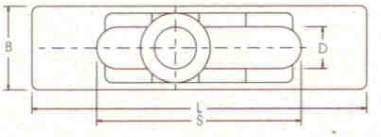
Supply : Clamp with support screw and lock-nut.

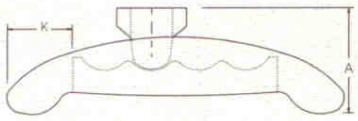
T-Bolt/Stud, Hex hi-nut, Washer optional

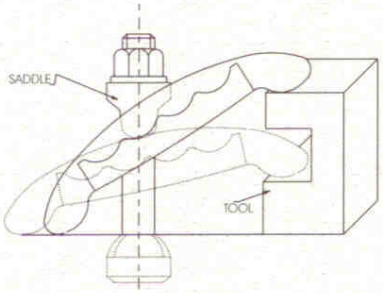


TYPE	BOLT SIZE	A	B	D X L	S	T	K	H	E	SUPPORT BOLT	
										G X J	Hex A/F X Base
T1-MCH-12115 S	M12	24	38	14 X115	65	15	20	M16	15	M16 X 55 L	19 X 35
T1-MCH-12115 L										M16 X 90 L	
T1- MCH-16130 S	M16	31	48	18 X 130	70	20	25	M20	18	M20 X 60 L	24 X 40
T1-MCH-16130 L										M20 X 90 L	
T1-MCH-16160 S	M16	31	48	18 X160	90	20	30	M20	20	M20 X 60 L	24 X 40
T1-MCH-16160 L										M20 X 90 L	
T1-MCH-20140 S	M20	38	60	22 X 140	70	25	35	M24	18	M24 X 60 L	27 X 50
T1-MCH-20140 L										M24 X 100 L	
T1-MCH-20160 S	M20	38	60	22 X 160	90	30	35	M24	20	M24 X 60 L	27 X 50
T1-MCH-20160 L		45							18	M24 X 100 L	
T1-MCH-20200	M20	45	60	22 X 200	110	30	45	M24	22	M24 X 100 L	27 X 50
T1-MCH-24200	M24	48	78	26 X 200	105	35	45	M27	25	M27 X 100 L	30 X 55

QUICK CLAMP TYPE:T1-QC







Features : Instant clamping device with self-adjusting design. Multi-locations for saddle offers variable forces. Needs negligible setting time.

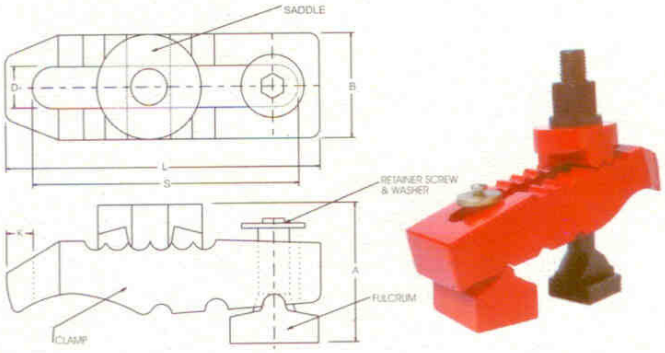
Application : Presses, plastic moulding machines, milling/drilling machines, CNC machining centers.

Materials : Clamp and saddle made of hi-tensile S G Iron, duly painted. T-Bolt and Flanged Hex Nut heat treated to 24-30 HRC and Chemically blackened.

Supply : T-bolt and Flanged Hex-nut standard, Clamping stud optional.

TYPE	SUITABLE FOR T-SLOT	D X S	L X B	A	K	CLAMPING RANGE	T-BOLT SIZE
T1- QC - 1 / 12	12	18X85	130X60	50	16	0-60	M 12 X 12 X 125 L
T1- QC - 1 / 14	14						M 12 X 14 X 125 L
T1- QC - 1 / 16	16						M 16 X 16 X 125 L
T1- QC - 2 / 18	18	22X95	160X70	57	32	0-70	M 16 X 18 X 200 L
T1- QC - 2 / 20	20						M 20 X 20 X 200 L
T1- QC - 2 / 22	22						M 20 X 22 X 200 L
T1- QC - 3 / 24	24	26X115	185X80	60	36	0-80	M 24 X 24 X 200 L
T1- QC - 3 / 28	28						M 24 X 28 X 200 L

PRESS MOULD CLAMP TYPE : T1-PMC

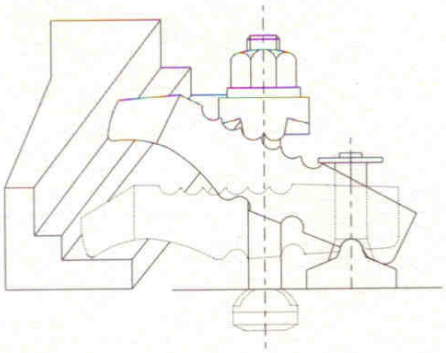


Features : Versatile device. Height and range adjustable at various points, minimum setting time.

Application : Presses, plastic moulding machines, milling / drilling machines.

Materials : Clamp, fulcrum and saddle made of hi tensile S G Iron, duly painted.T-Bolt, Flanged Hex Nut heat treated to 24-30 HRC and chemically blackened.

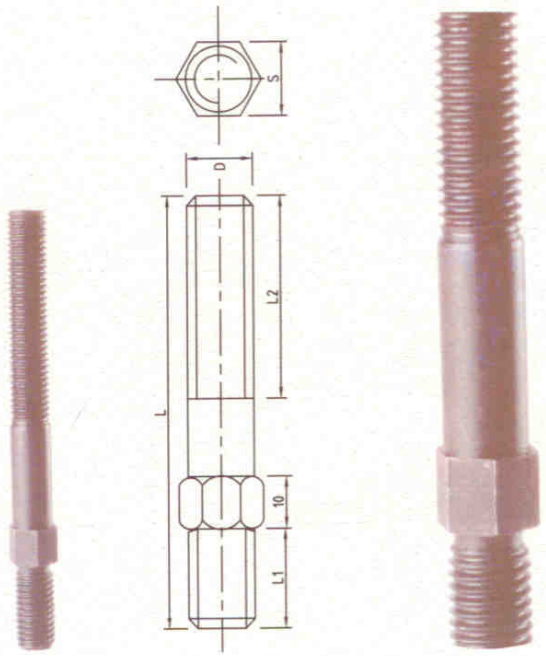
Supply : T-bolt standard. Clamping stud optional.



TYPE	SUITABLE FOR T-SLOT mm	D X S	L X B	A	K	CLAMPING RANGE	T-BOLT SIZE
T1- PMC - 1 / 12	12	18X125	150X50	80	16	0-65	M 12 X 12 X 125 L
T1- PMC - 1 / 14	14						M 12 X 14 X 125 L
T1- PMC - 1 / 16	16						M 16 X 16 X 125 L
T1- PMC - 2 / 18	18	22X145	190X60	95	25	0-90	M 16 X 18 X 200 L
T1- PMC - 2 / 20	20						M 20 X 20 X 200 L
T1- PMC - 2 / 22	22						M 20 X 22 X 200 L
T1- PMC - 3 / 24	24	26X180	240X65	105	33	0-100	M 24 X 24 X 200 L
T1- PMC - 3 / 28	28						M 24 X 28 X 200 L

CLAMPING STUD WITH HEX FOR SPANNER OPERATION [PLASTIC MOULDING APPLICATION]

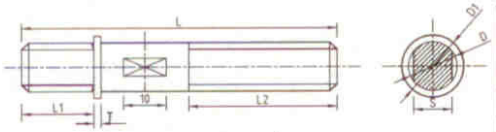
Type : T2P-CSX
Material : C-45/En-9,Heat treated to 8.8 Grade : 24-30HRC hardness, Chemically blackened

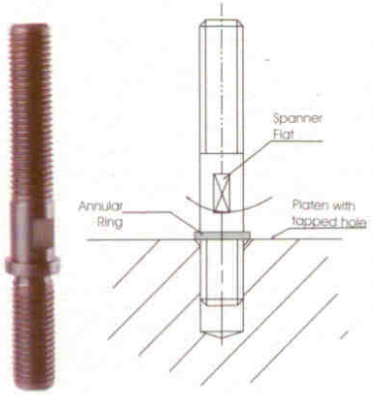


TYPE	D X L	L_1	L_2	S
T2P-CSX-12125	M12X125	25	60	13
T2P-CSX-12160	M12X160	25	90	13
T2P-CSX-14125	M14X125	25	60	15
T2P-CSX-14160	M14X160	25	90	15
T2P-CSX-16125	M16X125	35	60	17
T2P-CSX-16160	M16X160	35	80	17
T2P-CSX-16200	M16X200	35	100	17
T2P-CSX-20125	M20X125	45	60	22
T2P-CSX-20160	M20X160	45	80	22
T2P-CSX-20200	M20X200	45	110	22
T2P-CSX-24125	M24X125	45	55	28
T2P-CSX-24160	M24X160	55	70	28
T2P-CSX-24200	M24X200	55	100	28

CLAMPING STUD WITH ANNULAR RING AND SPANNER FLAT SECTION [PLASTIC MOULDING APPLICATION]

MATERIAL : FOR TYPE : T2P-C9FR : AISI-4140/En-19, Heat treated to 10.9 grade, 32-38 HRC hardness, chemically blackened
FOR TYPE : T2P-CSFR : C-45/EN-9, Heat treated to 8.8 grade 24-30 HRC hardness, chemically blackened

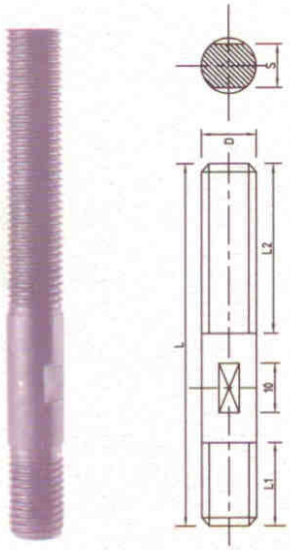




TYPE : C9FR Hardness : 32- 38 HRC	TYPE : CSFR Hardness : 24 - 30 HRC	D X L	L_1	L_2	S	D_1	T
T2P-C9FR-12125	T2P-CSFR-12125	M12X125	25	60	10	14	3
T2P-C9FR-12160	T2P-CSFR-12160	M12X160	25	90	10	14	3
T2P-C9FR-14125	T2P-CSFR-14125	M14X125	25	60	11	18	3
T2P-C9FR-14160	T2P-CSFR-14160	M14X160	25	90	11	18	3
T2P-C9FR-16125	T2P-CSFR-16125	M16X125	35	60	13	20	4
T2P-C9FR-16160	T2P-CSFR-16160	M16X160	35	80	13	20	4
T2P-C9FR-16200	T2P-CSFR-16200	M16X200	35	100	13	20	4
T2P-C9FR-20125	T2P-CSFR-20125	M20X125	45	60	17	24	5
T2P-C9FR-20160	T2P-CSFR-20160	M20X160	45	80	17	24	5
T2P-C9FR-20200	T2P-CSFR-20200	M20X200	45	100	17	24	5
T2P-C9FR-24125	T2P-CSFR-24125	M24X125	45	55	22	28	6
T2P-C9FR-24160	T2P-CSFR-24160	M24X160	55	70	22	28	6
T2P-C9FR-24200	T2P-CSFR-24200	M24X200	55	110	22	28	6

CLAMPING STUD WITH SPANNER FLAT [PLASTIC MOULDING APPLICATION]

MATERIAL : FOR TYPE : T2P-C9SF : AISI-4140/En-19, Heat treated to 10.9 grade,32-38HRC hardness, **chemically blackened**
FOR TYPE : T2P-CSAF : C-45/EN-9, Heat treated to 8.8 grade, 24-30HRC hardness, **chemically blackened**



TYPE :T2-C9SF Hardness : 32-38 HRC	TYPE : T2-CSAF Hardness : 24-30 HRC	D X L	L_1	L_2	S
T2P-C9SF-12125	T2P-CSAF-12125	M12X125	25	60	10
T2P-C9SF-12160	T2P-CSAF-12160	M12X160	25	90	10
T2P-C9SF-14125	T2P-CSAF-14125	M14X125	25	60	11
T2P-C9SF-14160	T2P-CSAF-14160	M14X160	25	90	11
T2P-C9SF-16125	T2P-CSAF-16125	M16X125	35	60	13
T2P-C9SF-16160	T2P-CSAF-16160	M16X160	35	80	13
T2P-C9SF-16200	T2P-CSAF-16200	M16X200	35	100	13
T2P-C9SF-20125	T2P-CSAF-20125	M20X125	45	60	17
T2P-C9SF-20160	T2P-CSAF-20160	M20X160	45	80	17
T2P-C9SF-20200	T2P-CSAF-20200	M20X200	45	100	17
T2P-C9SF-24125	T2P-CSAF-24125	M24X125	45	55	22
T2P-C9SF-24160	T2P-CSAF-24160	M24X160	55	70	22
T2P-C9SF-24200	T2P-CSAF-24200	M24X200	55	100	22

See Cat No. CCE-123/02 for details of forged T-bolt, Heavy duty Hex hi-Nut & plain washer (thick) and other types of clamps.

Useful Suggestions :

* Studs are overstessed, twisted and broken when higher torque is applied by using additional pipe-leverage to the spanner. Avoid usage of pipe-leverage
* Use torque - wrench with pre - set torque value to achieve safe permissible pre-stress force.
* Oil / grease the threads of Nuts / Bolts frequently. This will reduce the wear and improve the clamping force

All dimensions in mm

Since improvements are made from time to time, specifications are subject to alterations without notice.

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