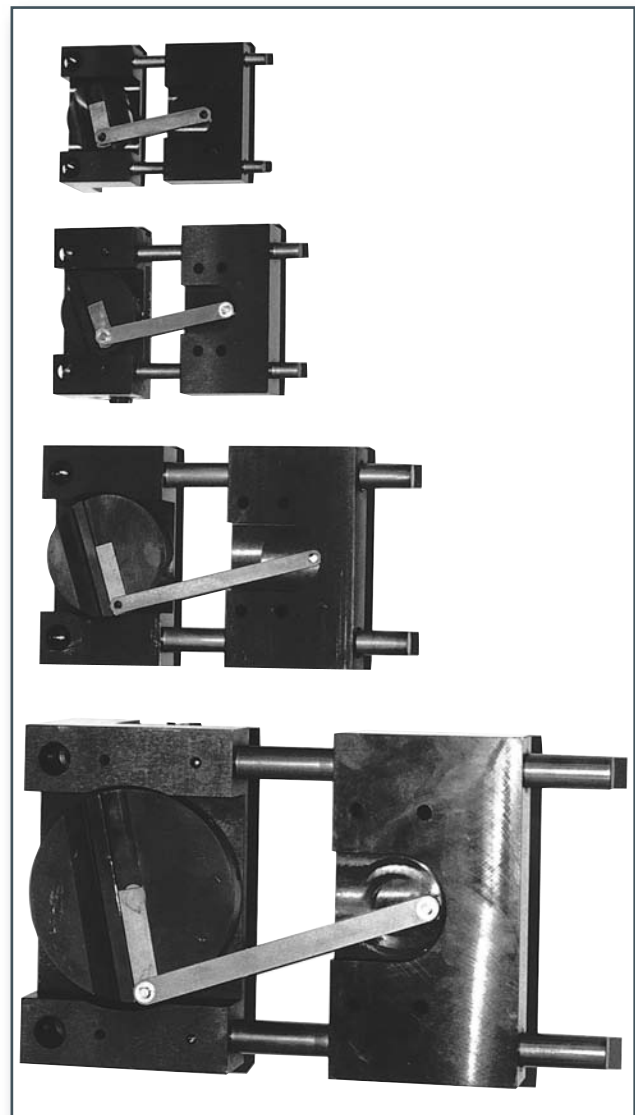


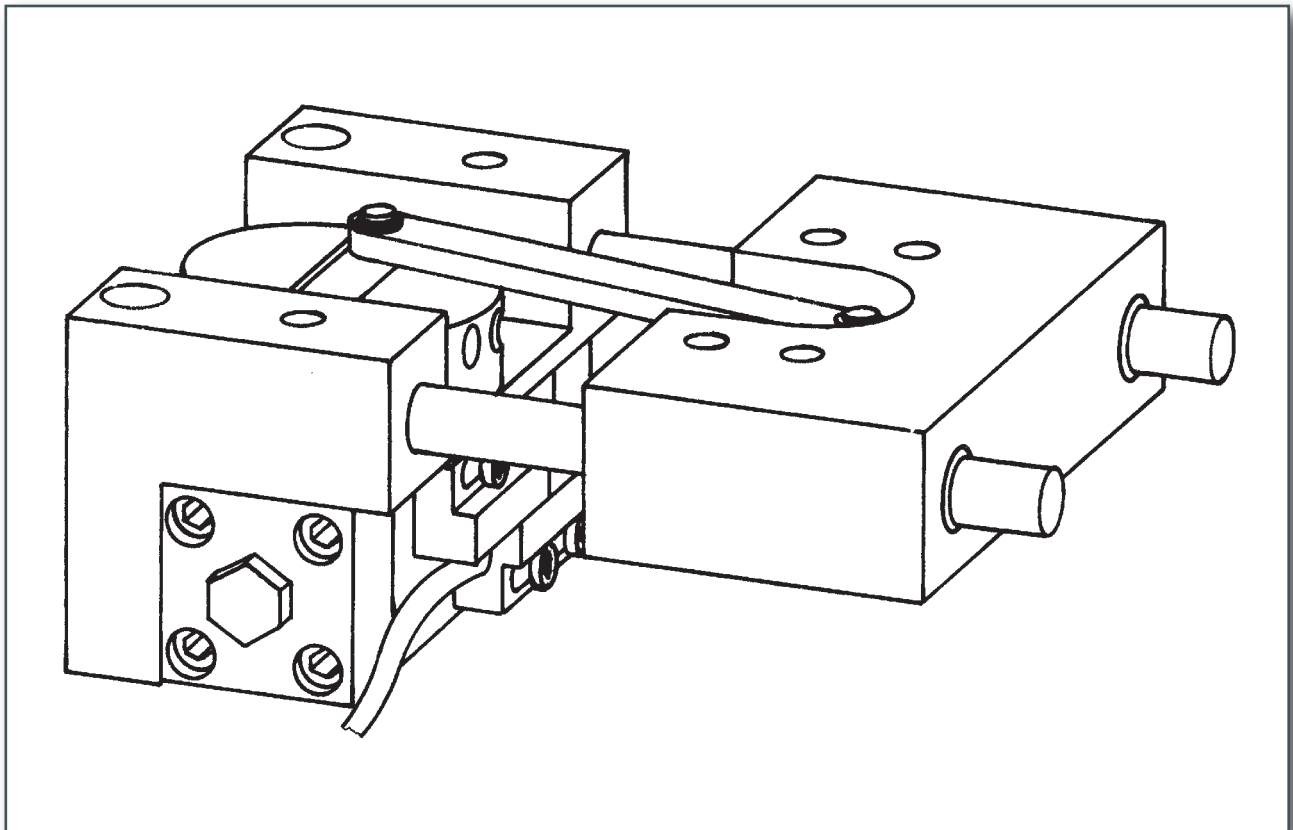
**The PTM-Linear Modules – LM** – work with our PTM-Actuators. In contrast to the normal linear units, the PTM-Linear Modules use a crank. Therefore there are many advantages. This causes a sinucidal move of the slide with high positioning accuracy and smooth end positioning. The reduced end speed is supported by the end position damping of the PTM-Actuators – DA –. The movements of the slide will be shock-free.

The slide strokes are continuous adjustable between 0 and 25, 30, 52 or 90 mm.

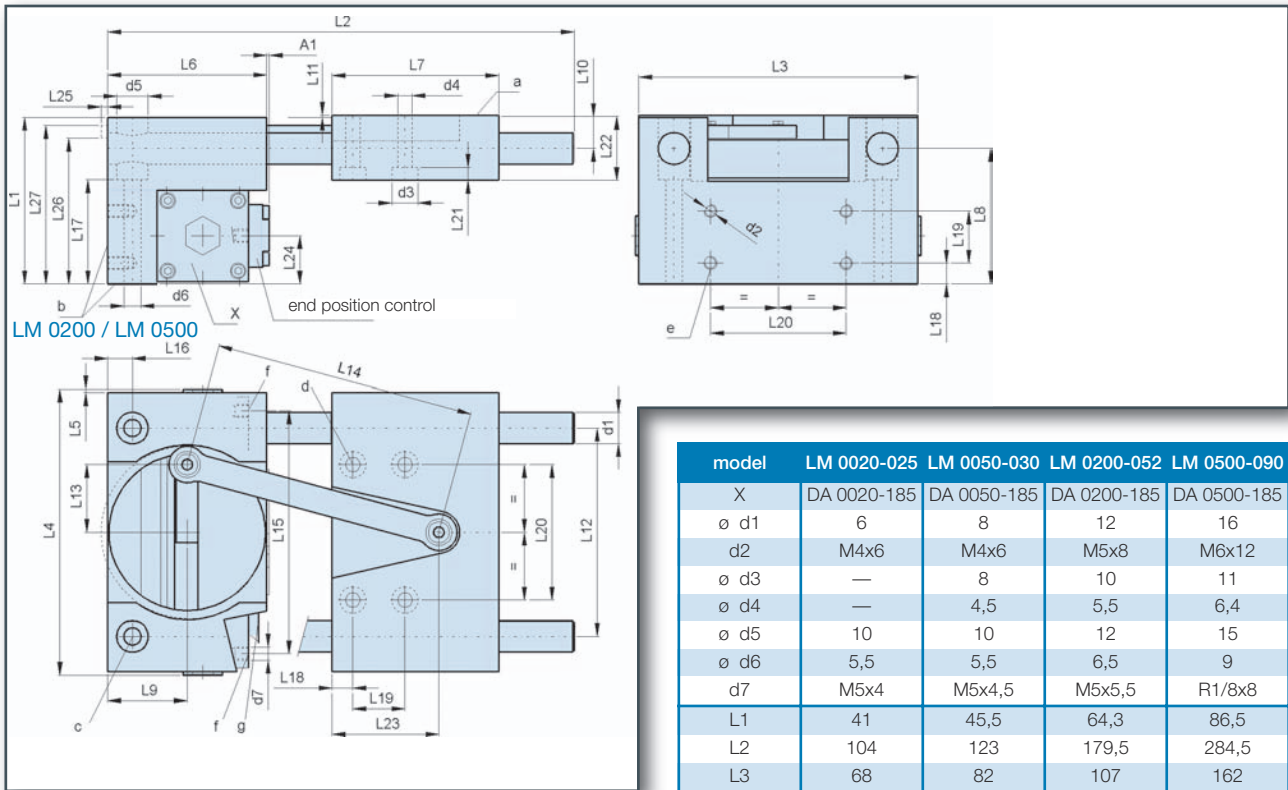
**The PTM-Tilting Module – SM** – in connection with a fix mounted Parallel Gripper – PSM – is able to tilt a workpiece by 90° from a horizontal position to a vertical position and back. The position of the workpiece will not be changed.

**The PTM-Double Tilting Head – DSK** – gives the additional possibility to tilt a workpiece with a defined tilting angle of 90° or 180°. Other tilting angles on request.



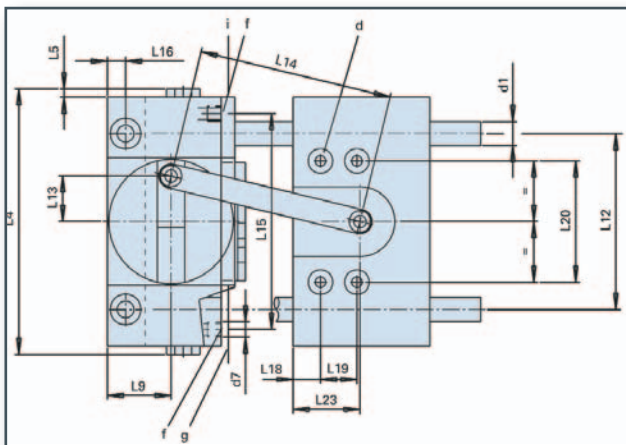


Material:	<ul style="list-style-type: none"><li>- aluminum hard or black anodized</li><li>- steel parts of stainless material or corrosion resistant</li><li>- shorttime gas nitration</li></ul>
Operating or mounting position:	<ul style="list-style-type: none"><li>- any position desired</li></ul>
Operating temperature:	<ul style="list-style-type: none"><li>- -10° to +80°C (4° to 176°F)</li></ul>
Operating media:	<ul style="list-style-type: none"><li>- filtered oiled or filtered oil-free air</li><li>- <b>Attention:</b> only oil-free air should be used at low rotation speed as interruptions could harm the smooth process</li></ul>
Operation pressure:	<ul style="list-style-type: none"><li>- maximum 6 bar (specs are based on 6 bar = 88 psi)</li></ul>
Jaw stroke:	<ul style="list-style-type: none"><li>- sinucidal movement</li><li>- stroke range adjustable via dovetail guides with clamping screw</li></ul>
Guide:	<ul style="list-style-type: none"><li>- precision grinded guides</li><li>- stainless steel shafts and ball-type bushings</li></ul>
Actuation:	<ul style="list-style-type: none"><li>- Pneumatic Mini Actuator with end position damping</li></ul>
End position control with LED:	<ul style="list-style-type: none"><li>- please consult our sheet „End position control“ (Page 44).</li></ul>
Installation recommendation:	<ul style="list-style-type: none"><li>- to ensure long life of our devices the use of throttle valves is highly recommended.</li></ul>



LM 0200 / LM 0500

LM 0020 / LM 0050

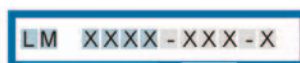


model	LM 0020-025	LM 0050-030	LM 0200-052	LM 0500-090
X	DA 0020-185	DA 0050-185	DA 0200-185	DA 0500-185
∅ d1	6	8	12	16
d2	M4x6	M4x6	M5x8	M6x12
∅ d3	—	8	10	11
∅ d4	—	4,5	5,5	6,4
∅ d5	10	10	12	15
∅ d6	5,5	5,5	6,5	9
d7	M5x4	M5x4,5	M5x5,5	R1/8x8
L1	41	45,5	64,3	86,5
L2	104	123	179,5	284,5
L3	68	82	107	162
L4	73,6 +0,6 -0,8	87,6 +0,6 -0,8	109,6 +0,6 -0,8	162,6 +0,6 -0,8
L5	2,8	2,8	1,3	0,3
L6	37	42	61	103
L7	40	45	64	90
L8	33,5	34,5	52	71
L9	18,5	21	30,5	51,5
L10	7,5	11	12,3	15,5
L11	0,3	0,5	0,3	0,5
L12	53	58	80	130
L13 max.	12,5	15	26	45
L14	53	64	100	143
L15	56,8 ±0,4	71,2 ±0,4	93,2 ±0,4	141,2 ±0,4
L16	6	6	9,5	15
L17	27	27	40	53
L18	6	9	8	12
L19	12	12	20	32
L20	35	40	52	90
L21	—	4	5	8
L22	15	22	24,5	31
L23	20	22	41	45
L24	10	13	18,5	26
L25	—	—	2,5	1,9
L26	—	—	55,9	76,4
L27	—	—	60,8	81,4
A1	2	3,5	1	—
stroke in mm	25	30	52	90
weight in kg	0,3	0,6	1,5	4,7

- a, b mounting surface
- c, d, e mounting alternatives
- f 2 threaded holes for air connection
- g connection cable for end position control

- A model with end position control
- X model of actuator DA

**Ordering Code**



model code      max. stroke

- 0 = basic model
- 1 = with end position control (sheet "end position control")

**Ordering Example**

you order :  
LM 0050-030-1

we deliver :  
Linear Module model LM 0050,  
max. stroke 30 mm,  
with end position control