

Hydraulic / Mechanical Die Lifters HLR / MLR Die Lifters HLK / MLK

Application area

- For die change in forming presses
- Available versions:
 - with balls or rollers as lifting inserts
 - hydraulically or mechanically driven
- Used in pairs (or more by using hydraulic versions) in T-slots according to DIN 650 or in rectangular slots in the machine bed

Die lifters with balls (HLK/MLK):

- The die can be moved and positioned in any direction.
- Usable for normal cast materials or steels.
- The die plates should have a minimum pressure resistance of approx.
 750 N/mm² (ideal conditions: hardened and grinded surface or ledges)

Die lifters with rollers (HLR/MLR):

• The die can be moved and positioned linearly along the T-slot lay out.

Mode of operation

- The balls and rollers are lifted over the table (bed) surface.
 This is achieved by application of hydraulic pressure (hydraulic) or by disk springs (mechanical).
- The die can be moved and positioned with low force.
- In the hydraulic versions the balls / rollers are pushed back onto the table / bed surface by the weight of the die after depressurising.
- In the mechanical versions the balls / rollers are pushed back to the table / bed surface by the clamping force of the die.

Description

The balls or rollers are lifted hydraulically (40 bar respectively 80 bar) or mechanically (by disk springs). During the die change the hydraulic pressure has to be maintained. Pressure sensing by pressure switch on the hydraulic power pack is required.





Fig.:Hydraulic die lifter type HLK (with roller inserts) No hydraulic connection required for mechanical version.

Advantages

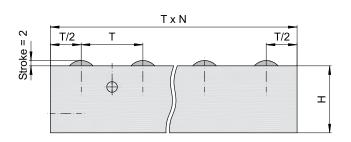
- Central operation
- Secured against displacement by expansion dowels
- Lifting function is achieved by separate lifting inserts (single inserts can be taken out from above)
- Suitable for retrofits
- Die lifters with rollers offer a high lifting force and a large contact surface.

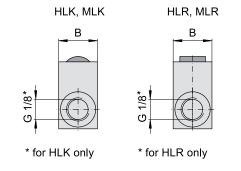
Accessories

- Fittings
- Hydraulic hoses / Hydraulic accessories
- Hydraulic power packs



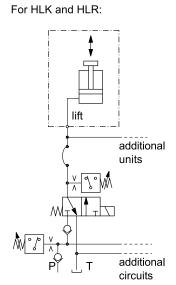
Hydraulic / Mechanical Die Lifters HLR / MLR Die Lifters HLK / MLK



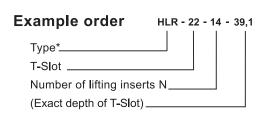


Mechanical die lifter								
T-slot DIN 650	В	Н	Т	_	orce per [daN]	N (Number of lifting inserts)		
DIN 030				Ball	Roller			
18	18	30	35	25	50			
22	22	38	40	40	80	Series A		
28	28	48	45	63	125	Series A		
36	36	61	50	100	200			

Hydraulic die lifter								
T-Slot DIN 650	В	Н	т	Lifting force per N (No T insert [daN] of li				
DIN 030				Ball	Roller	inserts)		
18	18	30	35	50	100	Series B		
22	22	38	40	80	160	Series C		
28	28	48	45	125	250	Series B		
36	36	61	50	200	400	Series C		



N (Number of lifting inserts)																				
Series A	3	4	5	6		8		10												
Series B					7		9		11	12	14	16	18	20	22	25	28	31	35	40
Series C						8		10												



*Type								
MLK	with ball inserts, mechanical							
MLR	with roller inserts, mechanical							
HLK	with ball inserts, hydraulic							
HLR	with roller inserts, hydraulic							