

# TYPE K III A

## TECHNISCHE DATEN

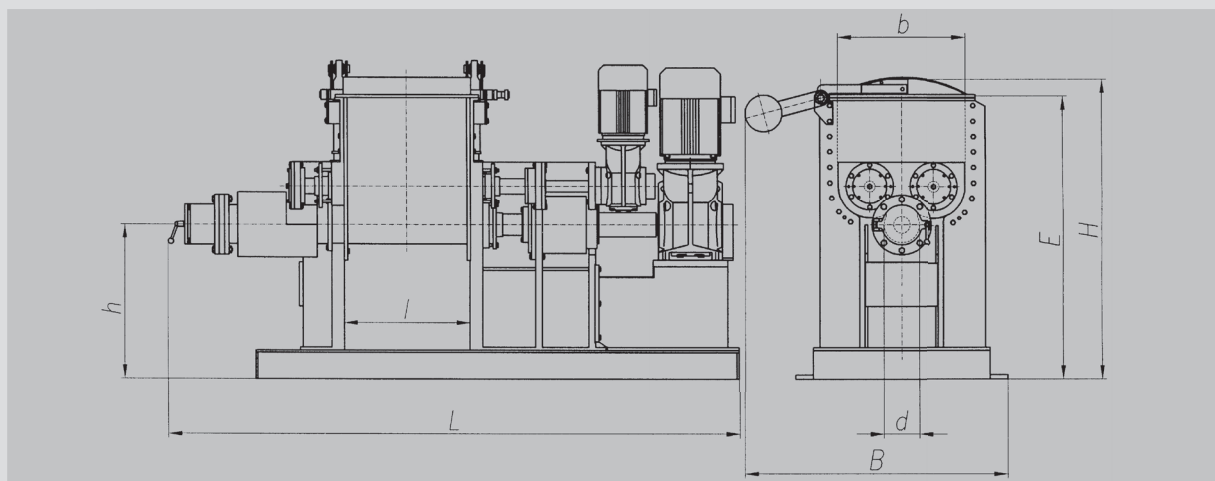
der Universal Doppelschauligen  
Misch- und Knetmaschinen mit  
Austragschnecke

## TECHNICAL DATA

of the Universal Double Arm Mixing  
and Kneading Machines with Extrusion  
Screw

## CARACTÉRISTIQUES TECHNIQUES

des Mélangeurs-Malaxeurs Universels  
à 2 Hélices avec Vis de Boudinage



| Type        | Inhalt (l)<br>Capacity (l)<br>Capacité (l) |                 | Kraftbedarf<br>(durchschnittlich) kW<br>Power Consumption<br>(normally) kW<br>Puissance Admise<br>(en moyenne) kW |         | Abmessungen in mm (unverbindlich)<br>Measurements in mm (without obligation)<br>Dimensions en mm (sans engagement) |      |      |      |      |     |     |      |
|-------------|--------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------|------|------|------|------|-----|-----|------|
|             | Nutz<br>Working<br>Utile                   | Total<br>Totale |                                                                                                                   |         | B                                                                                                                  | E    | H    | L    | b    | d   | h   | l    |
| KIII 20 A   | 20                                         | 32              | 3,0                                                                                                               | – 10,0  | 955                                                                                                                | 800  | 880  | 2030 | 360  | 90  | 570 | 350  |
| KIII 35 A   | 35                                         | 48              | 4,0                                                                                                               | – 10,0  | 1030                                                                                                               | 980  | 1060 | 2200 | 400  | 100 | 635 | 400  |
| KIII 60 A   | 60                                         | 90              | 5,5                                                                                                               | – 15,0  | 1385                                                                                                               | 1110 | 1190 | 2480 | 520  | 140 | 570 | 430  |
| KIII 100 A  | 100                                        | 135             | 5,5                                                                                                               | – 20,0  | 1385                                                                                                               | 1110 | 1190 | 2570 | 520  | 140 | 570 | 520  |
| KIII 150 A  | 150                                        | 225             | 7,5                                                                                                               | – 30,0  | 1650                                                                                                               | 1300 | 1380 | 3000 | 648  | 180 | 650 | 700  |
| KIII 200 A  | 200                                        | 300             | 7,5                                                                                                               | – 41,0  | 1700                                                                                                               | 1310 | 1390 | 3020 | 760  | 210 | 650 | 700  |
| KIII 300 A  | 300                                        | 400             | 10,0                                                                                                              | – 50,0  | 1830                                                                                                               | 1380 | 1460 | 3150 | 832  | 220 | 700 | 840  |
| KIII 450 A  | 450                                        | 650             | 15,0                                                                                                              | – 75,0  | 2000                                                                                                               | 1550 | 1650 | 3750 | 960  | 240 | 725 | 1000 |
| KIII 600 A  | 600                                        | 830             | 20,0                                                                                                              | – 75,0  | 2150                                                                                                               | 1600 | 1700 | 4100 | 1050 | 260 | 750 | 1100 |
| KIII 800 A  | 800                                        | 1100            | 25,0                                                                                                              | – 100,0 | 2350                                                                                                               | 1750 | 1850 | 4350 | 1140 | 290 | 750 | 1250 |
| KIII 1000 A | 1000                                       | 1530            | 30,0                                                                                                              | – 125,0 | 2450                                                                                                               | 1870 | 1970 | 4820 | 1260 | 320 | 800 | 1300 |
| KIII 1500 A | 1500                                       | 2250            | 40,0                                                                                                              | – 150,0 | 2700                                                                                                               | 2100 | 2200 | 5500 | 1380 | 350 | 900 | 1440 |
| KIII 2000 A | 2000                                       | 2750            | 50,0                                                                                                              | – 180,0 | 2700                                                                                                               | 2100 | 2200 | 5750 | 1380 | 350 | 900 | 1600 |

Der Kraftbedarf richtet sich nach dem Einsatzfall, dem Mischgut, dem spezifischen Gewicht, der Viskosität usw. Konstruktionsänderungen vorbehalten.

The necessary power consumption depends on application, mixing material, specific gravity, viscosity etc. The right is reserved to make changes in design without prior notice.

La puissance admise nécessaire dépendra de l'utilisation, du matériau à mélanger, du poids spécifique, de la viscosité etc. Droits de modification de construction réservés.

# TYPE K IV

## TECHNISCHE DATEN

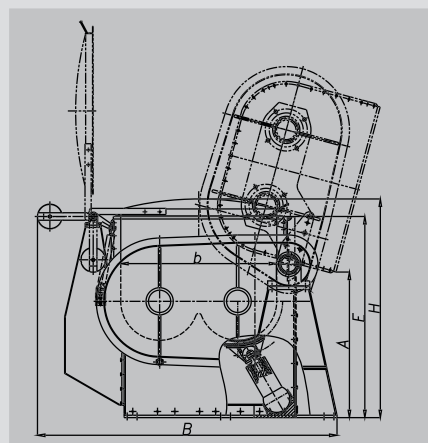
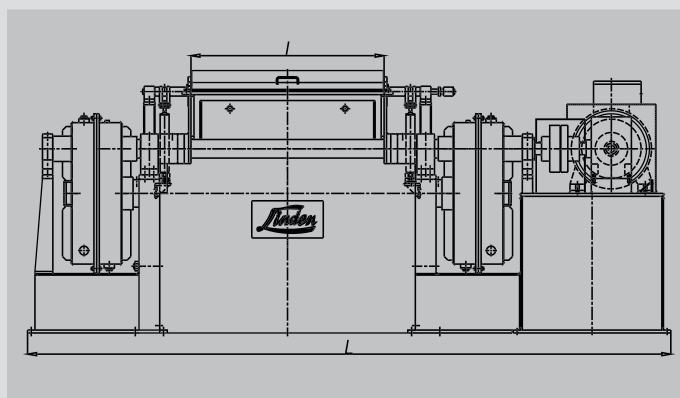
der Universal Doppelschaufligen  
Misch- und Knetmaschinen

## TECHNICAL DATA

of the Universal Double Arm Mixing  
and Kneading Machines

## CARACTÉRISTIQUES TECHNIQUES

des Mélangeurs-Malaxeurs Universels  
à 2 Hélices



| Type     | Inhalt (l)<br>Capacity (l)<br>Capacité (l) |                          | Kraftbedarf<br>(durchschnittlich) kW<br>Power Consumption<br>(normally) kW<br>Puissance Admise<br>(en moyenne) kW | Abmessungen in mm (unverbindlich)<br>Measurements in mm (without obligation)<br>Dimensions en mm (sans engagement) |      |      |      |      |      |      |
|----------|--------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|
|          | Nutz<br>Working<br>Utile                   | Total<br>Total<br>Totale |                                                                                                                   | B                                                                                                                  | B    | E    | H    | L    | b    | l    |
|          |                                            |                          |                                                                                                                   |                                                                                                                    |      |      |      |      |      |      |
| KIV 1100 | 100                                        | 165                      | 5,5 – 15,0                                                                                                        | 820                                                                                                                | 1400 | 1170 | 1270 | 2450 | 520  | 520  |
| KIV 1150 | 150                                        | 225                      | 5,5 – 22,0                                                                                                        | 900                                                                                                                | 1610 | 1195 | 1295 | 2960 | 648  | 700  |
| KIV 1200 | 200                                        | 300                      | 7,5 – 30,0                                                                                                        | 900                                                                                                                | 1720 | 1195 | 1295 | 2960 | 648  | 700  |
| KIV 1300 | 300                                        | 400                      | 7,5 – 37,0                                                                                                        | 900                                                                                                                | 1720 | 1195 | 1295 | 3260 | 832  | 840  |
| KIV 1450 | 450                                        | 650                      | 11,0 – 55,0                                                                                                       | 1020                                                                                                               | 2010 | 1415 | 1515 | 3520 | 960  | 1000 |
| KIV 1600 | 600                                        | 830                      | 15,0 – 55,0                                                                                                       | 1050                                                                                                               | 2125 | 1550 | 1650 | 3630 | 1050 | 1100 |
| KIV 1800 | 800                                        | 1100                     | 18,5 – 75,0                                                                                                       | 1100                                                                                                               | 2250 | 1605 | 1705 | 3850 | 1140 | 1250 |
| KIV 1000 | 1000                                       | 1530                     | 22,0 – 90,0                                                                                                       | 1240                                                                                                               | 2460 | 1620 | 1720 | 4200 | 1260 | 1300 |
| KIV 1500 | 1500                                       | 2250                     | 30,0 – 110,0                                                                                                      | 1400                                                                                                               | 2550 | 2000 | 2100 | 4585 | 1380 | 1440 |
| KIV 2000 | 2000                                       | 2750                     | 37,0 – 132,0                                                                                                      | 1400                                                                                                               | 2550 | 2000 | 2100 | 4745 | 1380 | 1600 |
| KIV 3000 | 3000                                       | 5000                     | 55,0 – 200,0                                                                                                      | 1800                                                                                                               | 3000 | 2400 | 2750 | 5500 | 1860 | 2000 |

Der Kraftbedarf richtet sich nach dem Einsatzfall, dem Mischgut, dem spezifischen Gewicht, der Viskosität usw. Konstruktionsänderungen vorbehalten.

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# TYPE K I I N

## TECHNISCHE DATEN

der Universal Doppelschaufligen  
Misch- und Knetmaschinen

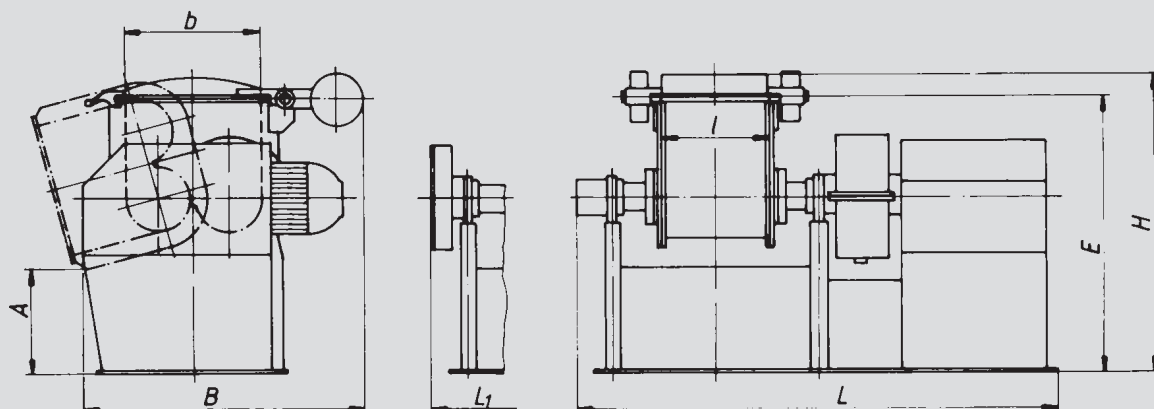
## TECHNICAL DATA

of the Universal Double Arm Mixing  
and Kneading Machines

## CARACTÉRISTIQUES

### TECHNIQUES

des Mélangeurs-Malaxeurs  
Universels à 2 Hélices



|      |      | Inhalt (l)<br>Capacity (l)<br>Capacité (l) |                          | Kraftbedarf<br>(durchschnittlich) kW<br>Power Consumption<br>(normally) kW<br>Puissance Admise<br>(en moyenne) kW |   |      | Abmessungen in mm (unverbindlich)<br>Measurements in mm (without obligation)<br>Dimensions en mm (sans engagement) |      |      |      |      |      |      |      |
|------|------|--------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------|---|------|--------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|
| Type |      | Nutz<br>Working<br>Utile                   | Total<br>Total<br>Totale |                                                                                                                   |   |      | B                                                                                                                  | E    | H    | L    | b    | d    | h    | l    |
| KIIN | 10   | 10                                         | 17                       | 1,1                                                                                                               | – | 3,0  | 735                                                                                                                | 660  | 1100 | 1180 | 1380 | 1390 | 280  | 280  |
| KIIN | 20   | 20                                         | 32                       | 1,5                                                                                                               | – | 4,0  | 715                                                                                                                | 950  | 1130 | 1210 | 1560 | 1560 | 360  | 350  |
| KIIN | 35   | 35                                         | 48                       | 2,2                                                                                                               | – | 5,5  | 705                                                                                                                | 1020 | 1130 | 1210 | 1685 | 1685 | 400  | 400  |
| KIIN | 60   | 60                                         | 90                       | 3,0                                                                                                               | – | 7,5  | 490                                                                                                                | 1165 | 1150 | 1230 | 1905 | 1905 | 520  | 430  |
| KIIN | 100  | 100                                        | 165                      | 4,0                                                                                                               | – | 11,0 | 490                                                                                                                | 1225 | 1150 | 1230 | 2055 | 2055 | 580  | 580  |
| KIIN | 110  | 110                                        | 180                      | 4,0                                                                                                               | – | 11,0 | 490                                                                                                                | 1165 | 1150 | 1230 | 2200 | 2200 | 520  | 720  |
| KIIN | 150  | 150                                        | 225                      | 5,5                                                                                                               | – | 11,0 | 570                                                                                                                | 1230 | 1270 | 1350 | 2530 | 2550 | 648  | 700  |
| KIIN | 200  | 200                                        | 300                      | 7,5                                                                                                               | – | 15,0 | 520                                                                                                                | 1410 | 1300 | 1380 | 2555 | 2605 | 756  | 700  |
| KIIN | 300  | 300                                        | 400                      | 7,5                                                                                                               | – | 18,5 | 520                                                                                                                | 1410 | 1300 | 1380 | 2855 | 2905 | 832  | 840  |
| KIIN | 450  | 450                                        | 650                      | 11,0                                                                                                              | – | 22,0 | 620                                                                                                                | 1625 | 1575 | 1675 | 3405 | 3455 | 960  | 1000 |
| KIIN | 600  | 600                                        | 830                      | 11,0                                                                                                              | – | 30,0 | 650                                                                                                                | 1715 | 1650 | 1750 | 3525 | 3575 | 1050 | 1100 |
| KIIN | 800  | 800                                        | 1100                     | 15,0                                                                                                              | – | 37,0 | 750                                                                                                                | 1820 | 1790 | 1890 | 3590 | 3640 | 1140 | 1250 |
| KIIN | 1000 | 1000                                       | 1530                     | 18,5                                                                                                              | – | 45,0 | 950                                                                                                                | 1940 | 1860 | 1960 | 3760 | 3810 | 1260 | 1300 |
| KIIN | 1500 | 1500                                       | 2250                     | 22,0                                                                                                              | – | 55,0 | 1200                                                                                                               | 2050 | 2025 | 2125 | 4100 | 4150 | 1380 | 1440 |
| KIIN | 2000 | 2000                                       | 2750                     | 30,0                                                                                                              | – | 75,0 | 1200                                                                                                               | 2050 | 2025 | 2125 | 4270 | 4320 | 1380 | 1600 |

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# TYPE D

## TECHNISCHE DATEN

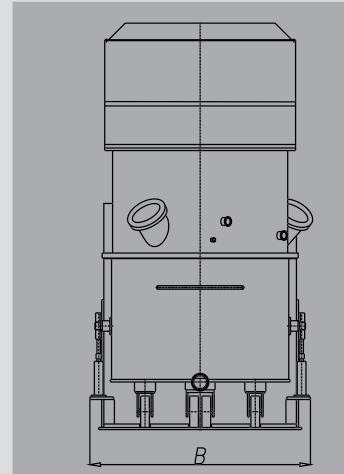
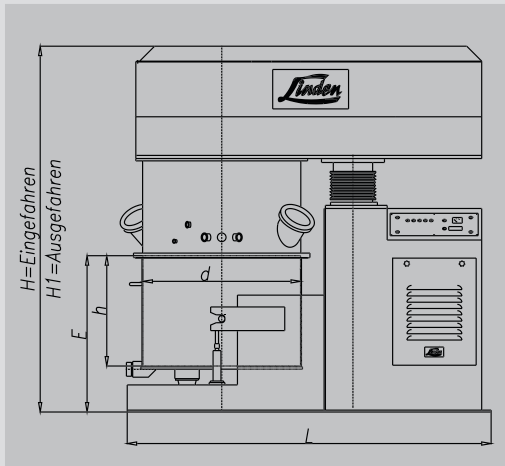
der Dissolver mit umlaufendem  
Abstreifer

## TECHNICAL DATA

of the Dissolvers with  
rotary Scraper

## CARACTÉRISTIQUES TECHNIQUES

des Dissolveurs avec Racleur tournant



|        |                                                              | Kraftbedarf<br>(durchschnittlich) kW<br>Power Consumption<br>(normally) kW<br>Puissance Admise<br>(en moyenne) kW |      | Saugleistung der<br>Vakuumpumpe mΔ/h<br>Pumping Speed<br>of the Vacuum Pump m3/h<br>Volume Aspiré de la Pompe<br>à faire le Vide m3/h |      | Abmessungen in mm (unverbindlich)<br>Measurements in mm (without obligation)<br>Dimensions en mm (sans engagement) |      |      |                |      |      |   |
|--------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------|------|------|----------------|------|------|---|
| Type   | Totalinhalt (l)<br>Total Capacity (l)<br>Capacité Totale (l) |                                                                                                                   |      |                                                                                                                                       |      | B                                                                                                                  | E    | H    | H <sub>1</sub> | L    | d    | h |
| D 25   | 27                                                           | 7,5                                                                                                               | 0,75 | 12                                                                                                                                    | 540  | 775                                                                                                                | 1815 | 2175 | 1245           | 340  | 300  |   |
| D 50   | 46                                                           | 11,0                                                                                                              | 1,1  | 30                                                                                                                                    | 650  | 610                                                                                                                | 1540 | 2090 | 1610           | 430  | 320  |   |
| D 75   | 84                                                           | 15,0                                                                                                              | 1,1  | 30                                                                                                                                    | 650  | 610                                                                                                                | 1520 | 2070 | 1610           | 490  | 450  |   |
| D 100  | 128                                                          | 22,0                                                                                                              | 1,5  | 60                                                                                                                                    | 990  | 730                                                                                                                | 1655 | 2155 | 1720           | 640  | 400  |   |
| D 150  | 167                                                          | 30,0                                                                                                              | 1,5  | 60                                                                                                                                    | 850  | 744                                                                                                                | 1820 | 2400 | 1750           | 640  | 520  |   |
| D 200  | 212                                                          | 37,0                                                                                                              | 2,2  | 60                                                                                                                                    | 1020 | 835                                                                                                                | 1840 | 2530 | 2300           | 640  | 660  |   |
| D 300  | 355                                                          | 45,0                                                                                                              | 2,2  | 60                                                                                                                                    | 1080 | 875                                                                                                                | 2245 | 2945 | 2850           | 840  | 650  |   |
| D 500  | 550                                                          | 55,0                                                                                                              | 3,0  | 75                                                                                                                                    | 1269 | 992                                                                                                                | 2750 | 3500 | 2560           | 1000 | 700  |   |
| D 800  | 816                                                          | 75,0                                                                                                              | 4,0  | 75                                                                                                                                    | 1400 | 1140                                                                                                               | 3150 | 4050 | 2830           | 1140 | 800  |   |
| D 1000 | 1026                                                         | 90,0                                                                                                              | 5,5  | 150                                                                                                                                   | 1445 | 1213                                                                                                               | 3250 | 4150 | 2880           | 1240 | 850  |   |
| D 1200 | 1268                                                         | 110,0                                                                                                             | 7,5  | 150                                                                                                                                   | 1445 | 1413                                                                                                               | 3450 | 4350 | 2880           | 1240 | 1050 |   |
| D 1500 | 1495                                                         | 132,0                                                                                                             | 15,0 | 150                                                                                                                                   | 1670 | 1135                                                                                                               | 3800 | 4850 | 3450           | 1380 | 1000 |   |

Dissolver Antrieb  
Dissolver Drive  
Commande Dissolveur

Abstreifer Antrieb  
Scraper Drive  
Commande Racleur

Der Kraftbedarf richtet sich nach dem Einsatzfall, dem Mischgut, dem spezifischen Gewicht, der Viskosität usw. Konstruktionsänderungen vorbehalten.

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# TYPE LPM

## TECHNISCHE DATEN

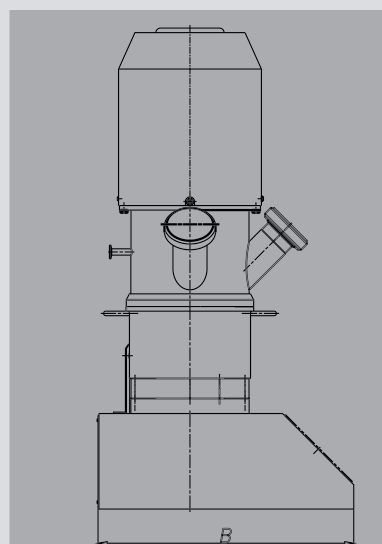
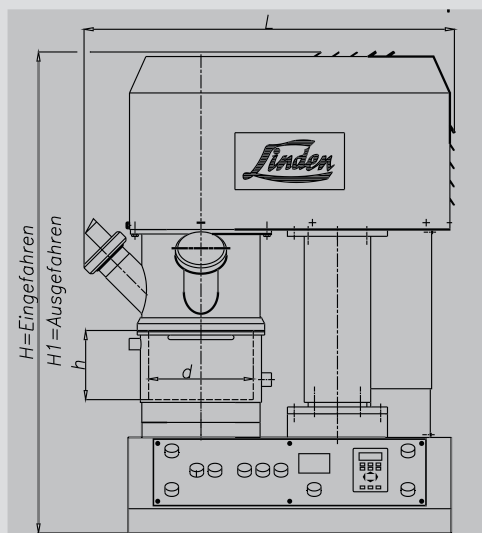
der Labor-Planeten-Misch und  
Knetmaschinen

## TECHNICAL DATA

of the Laboratory Planetary Mixing  
and Kneading Machines

## CARACTÉRISTIQUES TECHNIQUES

des Mélangeurs-Malaxeurs  
Planétaires pour Laboratoire



| Type    | Totalinhalt (l)<br><b>Total Capacity (l)</b><br>Capacité Totale (l) | Kraftbedarf<br>(durchschnittlich) kW | Saugleistung der<br>Vakuumpumpe mΔ/h              | Abmessungen in mm (unverbindlich)              |     |                |     |     |     |
|---------|---------------------------------------------------------------------|--------------------------------------|---------------------------------------------------|------------------------------------------------|-----|----------------|-----|-----|-----|
|         |                                                                     | <b>Power Consumption</b>             | <b>Pumping Speed</b>                              | <b>Measurements in mm (without obligation)</b> |     |                |     |     |     |
|         |                                                                     | <b>(normally) kW</b>                 | <b>of the Vacuum Pump m3/h</b>                    | Dimensions en mm (sans engagement)             |     |                |     |     |     |
|         |                                                                     | Puissance Admise<br>(en moyenne) kW  | Volume Aspiré de la Pompe<br>à faire le Vide m3/h | B                                              | H   | H <sub>1</sub> | L   | d   | h   |
| LPM 0,5 | 0,6                                                                 | 0,25 – 0,37                          | 2                                                 | 475                                            | 700 | 900            | 600 | 100 | 75  |
| LPM 1   | 1,1                                                                 | 0,37 – 0,55                          | 2                                                 | 475                                            | 775 | 975            | 600 | 100 | 150 |
| LPM 2   | 2,2                                                                 | 0,37 – 0,75                          | 2                                                 | 490                                            | 790 | 990            | 680 | 160 | 110 |
| LPM 5   | 6                                                                   | 0,55 – 1,1                           | 2                                                 | 400                                            | 760 | 935            | 820 | 230 | 152 |
| LPM 10  | 12                                                                  | 0,75 – 1,5                           | 4                                                 | 400                                            | 760 | 975            | 855 | 290 | 190 |

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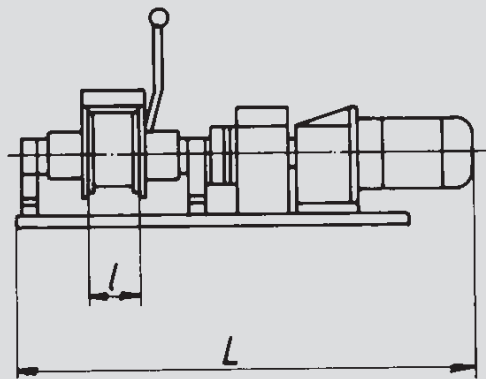
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# TYPE LK II

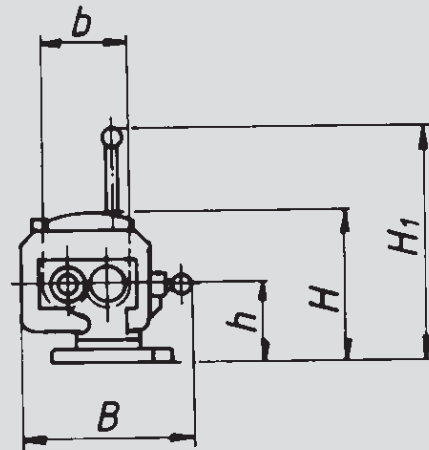
## TECHNISCHE DATEN

der Universal Doppelschaufligen  
Misch- und Knetmaschinen



## TECHNICAL DATA

of the Universal Double Arm Mixing  
and Kneading Machines



## CARACTÉRISTIQUES TECHNIQUES

des Mélangeurs-Malaxeurs  
Universels à 2 Hélices

| Type      | Inhalt (l)<br>Capacity (l)<br>Capacité (l) |                          | Kraftbedarf<br>(durchschnittlich) kW<br>Power Consumption<br>(normally) kW<br>Puissance Admise<br>(en moyenne) kW | Abmessungen in mm (unverbindlich)<br>Measurements in mm (without obligation)<br>Dimensions en mm (sans engagement) |     |                |      |     |     |     |
|-----------|--------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----|----------------|------|-----|-----|-----|
|           | Nutz<br>Working<br>Utile                   | Total<br>Total<br>Totale |                                                                                                                   | B                                                                                                                  | H   | H <sub>1</sub> | L    | h   | b   | l   |
| LKII 0,25 | 0,25                                       | 0,55                     | 0,18 – 0,25                                                                                                       | 470                                                                                                                | 370 | 640            | 750  | 190 | 120 | 50  |
| LKII 0,5  | 0,5                                        | 1,1                      | 0,25 – 0,37                                                                                                       | 470                                                                                                                | 370 | 640            | 750  | 190 | 120 | 100 |
| LKII 1    | 1                                          | 1,7                      | 0,37 – 0,55                                                                                                       | 470                                                                                                                | 370 | 640            | 750  | 190 | 120 | 140 |
| LKII 2    | 2                                          | 4                        | 0,37 – 0,75                                                                                                       | 500                                                                                                                | 370 | 640            | 1115 | 190 | 170 | 140 |
| LKII 5    | 5                                          | 8                        | 0,55 – 1,1                                                                                                        | 500                                                                                                                | 450 | 640            | 1140 | 200 | 240 | 190 |
| LKII 10   | 10                                         | 17                       | 0,75 – 1,5                                                                                                        | 500                                                                                                                | 450 | 640            | 1300 | 200 | 240 | 350 |

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# TYPE K IV

## TECHNISCHE DATEN

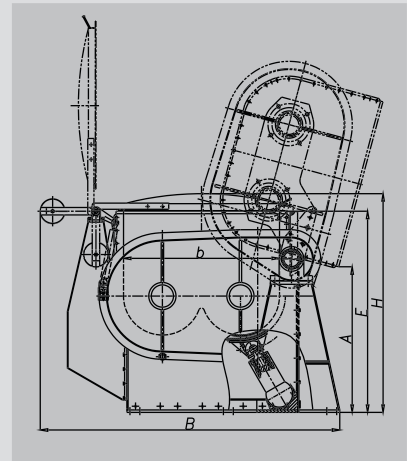
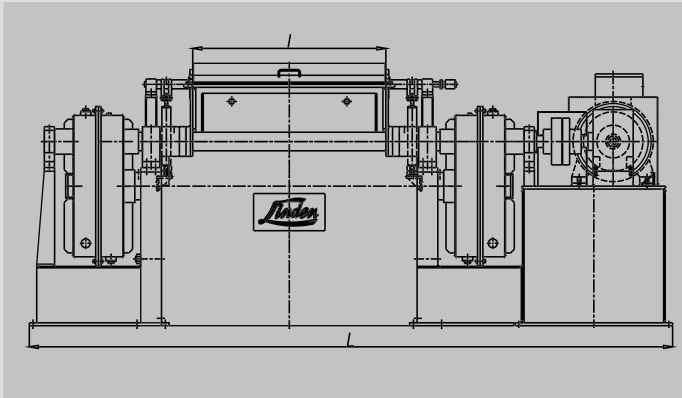
der Universal Doppelschaufligen  
Misch- und Knetmaschinen

## TECHNICAL DATA

of the Universal Double Arm Mixing  
and Kneading Machines

## CARACTÉRISTIQUES TECHNIQUES

des Mélangeurs-Malaxeurs  
Universels à 2 Hélices



| Type     | Inhalt (l)<br>Capacity (l)<br>Capacité (l) |                          | Kraftbedarf<br>(durchschnittlich) kW | Abmessungen in mm (unverbindlich)<br>Measurements in mm (without obligation)<br>Dimensions en mm (sans engagement) |      |      |      |      |      |      |
|----------|--------------------------------------------|--------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|
|          | Nutz<br>Working<br>Utile                   | Total<br>Total<br>Totale | Power Consumption<br>(normally) kW   | A                                                                                                                  | B    | E    | H    | L    | d    | l    |
|          |                                            |                          | Puissance Admise                     |                                                                                                                    |      |      |      |      |      |      |
|          |                                            |                          | (en moyenne) kW                      |                                                                                                                    |      |      |      |      |      |      |
| KIV 1100 | 100                                        | 165                      | 5,5 – 15,0                           | 820                                                                                                                | 1400 | 1170 | 1270 | 2450 | 520  | 520  |
| KIV 1150 | 150                                        | 225                      | 5,5 – 22,0                           | 900                                                                                                                | 1610 | 1195 | 1295 | 2960 | 648  | 700  |
| KIV 1200 | 200                                        | 300                      | 7,5 – 30,0                           | 900                                                                                                                | 1720 | 1195 | 1295 | 2960 | 756  | 700  |
| KIV 1300 | 300                                        | 400                      | 7,5 – 37,0                           | 900                                                                                                                | 1720 | 1195 | 1295 | 3260 | 832  | 840  |
| KIV 1450 | 450                                        | 650                      | 11,0 – 55,0                          | 1020                                                                                                               | 2010 | 1415 | 1515 | 3520 | 960  | 1000 |
| KIV 1600 | 600                                        | 830                      | 15,0 – 55,0                          | 1050                                                                                                               | 2125 | 1550 | 1650 | 3630 | 1050 | 1100 |
| KIV 1800 | 800                                        | 1100                     | 18,5 – 75,0                          | 1100                                                                                                               | 2250 | 1605 | 1705 | 3850 | 1140 | 1250 |
| KIV 1000 | 1000                                       | 1530                     | 22,0 – 90,0                          | 1240                                                                                                               | 2460 | 1620 | 1720 | 4200 | 1260 | 1300 |
| KIV 1500 | 1500                                       | 2250                     | 30,0 – 110,0                         | 1400                                                                                                               | 2550 | 2000 | 2100 | 4585 | 1380 | 1440 |
| KIV 2000 | 2000                                       | 2750                     | 37,0 – 132,0                         | 1400                                                                                                               | 2550 | 2000 | 2100 | 4745 | 1380 | 1600 |
| KIV 3000 | 3000                                       | 5000                     | 55,0 – 200,0                         | 1800                                                                                                               | 3000 | 2400 | 2750 | 5500 | 1860 | 2000 |

Der Kraftbedarf richtet sich nach dem Einsatzfall, dem Mischgut, dem spezifischen Gewicht, der Viskosität usw. Konstruktionsänderungen vorbehalten.

The necessary power consumption depends on application, mixing material, specific gravity, viscosity etc. The right is reserved to make changes in design without prior notice.

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# TYPE K IV A

## TECHNISCHE DATEN

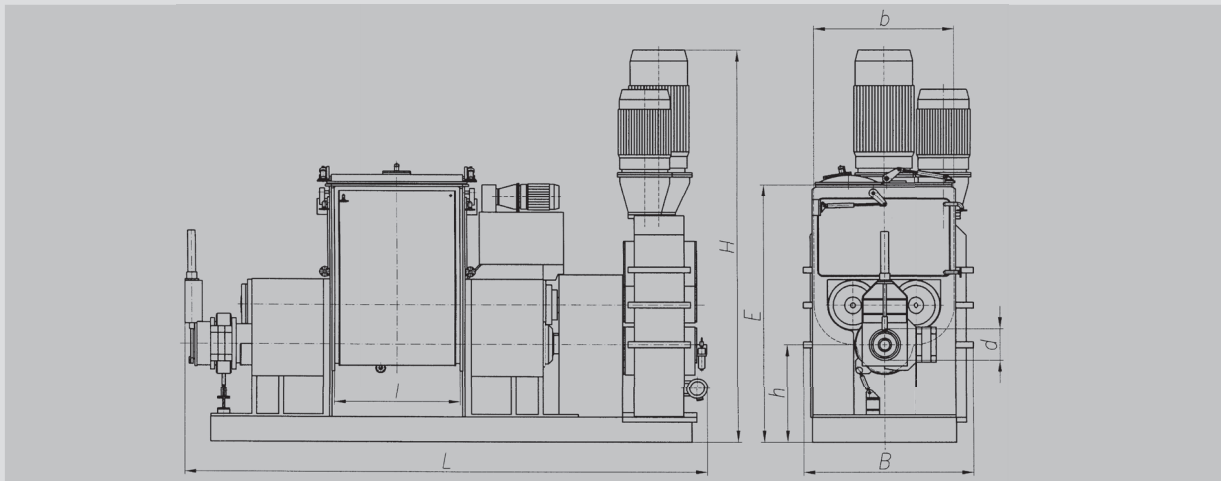
der Universal Doppelschauligen  
Misch- und Knetmaschinen mit  
Austragschnecke

## TECHNICAL DATA

of the Universal Double Arm Mixing  
and Kneading Machines with Extrusion  
Screw

## CARACTÉRISTIQUES TECHNIQUES

des Mélangeurs-Malaxeurs Universels  
à 2 Hélices avec Vis de Boudinage



| Type       | Inhalt (l)<br>Capacity (l)<br>Capacité (l) |                          | Kraftbedarf<br>(durchschnittlich) kW<br>Power Consumption<br>(normally) kW<br>Puissance Admise<br>(en moyenne) kW | Abmessungen in mm (unverbindlich)<br>Measurements in mm (without obligation)<br>Dimensions en mm (sans engagement) |      |      |      |      |     |      |      |
|------------|--------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------|------|------|------|-----|------|------|
|            | Nutz<br>Working<br>Utile                   | Total<br>Total<br>Totale |                                                                                                                   | B                                                                                                                  | E    | H    | L    | b    | d   | h    | l    |
| KIV 200 A  | 200                                        | 300                      | 15,5 – 45                                                                                                         | 1800                                                                                                               | 1360 | 1720 | 3090 | 760  | 210 | 650  | 700  |
| KIV 300 A  | 300                                        | 400                      | 18,5 – 55                                                                                                         | 2000                                                                                                               | 1410 | 1780 | 3390 | 832  | 220 | 700  | 840  |
| KIV 450 A  | 450                                        | 650                      | 30,5 – 75                                                                                                         | 2385                                                                                                               | 1550 | 1825 | 3760 | 960  | 240 | 725  | 1000 |
| KIV 600 A  | 600                                        | 830                      | 37,5 – 90                                                                                                         | 2500                                                                                                               | 1710 | 2000 | 4030 | 1050 | 260 | 750  | 1100 |
| KIV 800 A  | 800                                        | 1100                     | 45,5 – 110                                                                                                        | 2600                                                                                                               | 1710 | 2100 | 4430 | 1140 | 290 | 750  | 1250 |
| KIV 1000 A | 1000                                       | 1530                     | 55,5 – 132                                                                                                        | 2730                                                                                                               | 1620 | 2100 | 4820 | 1260 | 320 | 800  | 1300 |
| KIV 1500 A | 1500                                       | 2250                     | 75,5 – 160                                                                                                        | 3000                                                                                                               | 2100 | 2200 | 5200 | 1380 | 350 | 900  | 1440 |
| KIV 2000 A | 2000                                       | 2750                     | 90,5 – 200                                                                                                        | 3000                                                                                                               | 2100 | 2200 | 5650 | 1380 | 350 | 900  | 1600 |
| KIV 3000 A | 3000                                       | 6000                     | 160,5 – 400                                                                                                       | 3000                                                                                                               | 3120 | 3450 | 8725 | 1860 | 415 | 1200 | 2000 |

Der Kraftbedarf richtet sich nach dem Einsatzfall, dem  
Mischgut, dem spezifischen Gewicht, der Viskosität usw.  
Konstruktionsänderungen vorbehalten.

The necessary power consumption depends on appli-  
cation, mixing material, specific gravity, viscosity etc.  
The right is reserved to make changes in design without  
prior notice.

La puissance admise nécessaire dépendra de  
l'utilisation, du matériau à mélanger, du poids spécifique,  
de la viscosité etc. Droits de modification de construction  
réservés.



# TYPE LPM

## TECHNISCHE DATEN

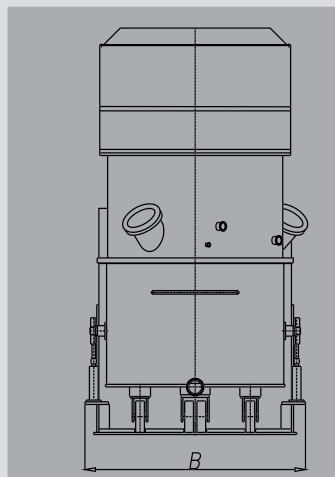
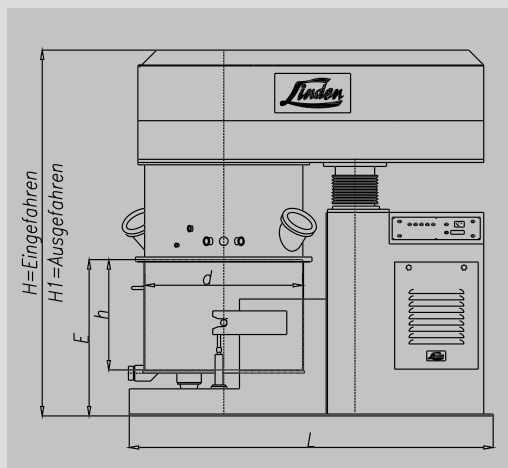
der Planeten-Misch und  
Knetmaschinen

## TECHNICAL DATA

of the Planetary Mixing and  
Kneading Machines

## CARACTÉRISTIQUES TECHNIQUES

des Mélangeurs-Malaxeurs  
Planétaires



| Type     | Kraftbedarf<br>(durchschnittlich) kW<br>Power Consumption    |                                                      | Saugleistung der<br>Vakuumpumpe mΔ/h<br>Pumping Speed                        |                                    | Abmessungen in mm (unverbindlich)<br>Measurements in mm (without obligation) |      |                |      |      |      |
|----------|--------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------------------------------|------|----------------|------|------|------|
|          | Totalinhalt (l)<br>Total Capacity (l)<br>Capacité Totale (l) | (normally) kW<br>Puissance Admise<br>(en moyenne) kW | of the Vacuum Pump m3/h<br>Volume Aspiré de la Pompe<br>à faire le Vide m3/h | Dimensions en mm (sans engagement) |                                                                              |      |                |      |      |      |
|          |                                                              |                                                      |                                                                              | B                                  | E                                                                            | H    | H <sub>1</sub> | L    | d    | h    |
|          |                                                              |                                                      |                                                                              |                                    |                                                                              |      |                |      |      |      |
| LPM 1025 | 27                                                           | 2,2 – 3,0                                            | 12                                                                           | 540                                | 736                                                                          | 1410 | 1760           | 1145 | 340  | 340  |
| LPM 1050 | 46                                                           | 3,0 – 4,0                                            | 30                                                                           | 650                                | 610                                                                          | 1520 | 2070           | 1610 | 430  | 320  |
| LPM 1075 | 84                                                           | 4,0 – 5,5                                            | 30                                                                           | 650                                | 610                                                                          | 1470 | 1950           | 1430 | 490  | 450  |
| LPM 1100 | 128                                                          | 4,0 – 7,5                                            | 60                                                                           | 990                                | 730                                                                          | 1635 | 2135           | 1720 | 640  | 400  |
| LPM 1150 | 167                                                          | 5,5 – 7,5                                            | 60                                                                           | 850                                | 744                                                                          | 1530 | 2130           | 1750 | 640  | 520  |
| LPM 1200 | 212                                                          | 7,5 – 11,0                                           | 60                                                                           | 1020                               | 835                                                                          | 1820 | 2510           | 2300 | 640  | 660  |
| LPM 1300 | 355                                                          | 11,0 – 15,0                                          | 60                                                                           | 1080                               | 875                                                                          | 2070 | 2750           | 2080 | 840  | 650  |
| LPM 1500 | 550                                                          | 18,5 – 22,0                                          | 75                                                                           | 1269                               | 992                                                                          | 2380 | 3135           | 2420 | 1000 | 700  |
| LPM 1800 | 816                                                          | 22,0 – 30,0                                          | 75                                                                           | 1400                               | 1140                                                                         | 2765 | 3665           | 2783 | 1140 | 800  |
| LPM 1000 | 1026                                                         | 30,0 – 37,0                                          | 150                                                                          | 1445                               | 1213                                                                         | 2696 | 3600           | 2890 | 1240 | 850  |
| LPM 1200 | 1268                                                         | 37,0 – 45,0                                          | 150                                                                          | 1445                               | 1413                                                                         | 2896 | 3800           | 2890 | 1240 | 1050 |
| LPM 1500 | 1495                                                         | 45,0 – 55,0                                          | 150                                                                          | 1670                               | 1135                                                                         | 3285 | 4335           | 3615 | 1380 | 1000 |

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# TYPE LPMD

## TECHNISCHE DATEN

der Planeten-Dissolver

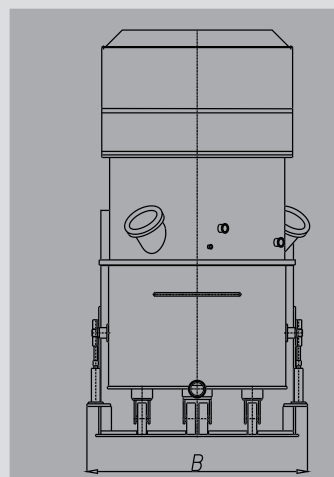
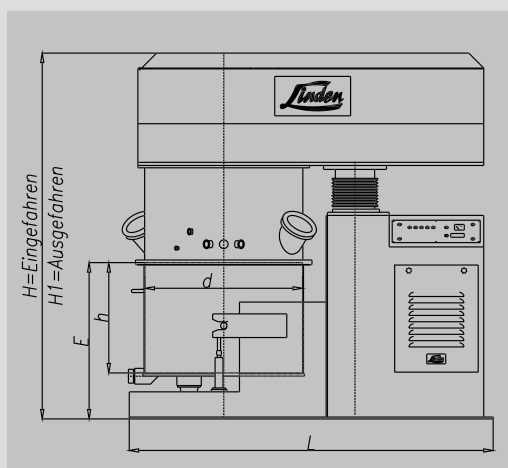
## TECHNICAL DATA

of the Planetary Dissolvers

## CARACTÉRISTIQUES

### TECHNIQUES

des Dissolveurs Planétaires



| Type     |      | Kraftbedarf<br>(durchschnittlich) kW<br>Power Consumption<br>(normally) kW<br>Puissance Admise<br>(en moyenne) kW |      |     | Saugleistung der<br>Vakuumpumpe mΔ/h<br>Pumping Speed<br>of the Vacuum Pump m3/h<br>Volume Aspiré de la Pompe<br>à faire le Vide m3/h |      | Abmessungen in mm (unverbindlich)<br>Measurements in mm (without obligation)<br>Dimensions en mm (sans engagement) |      |      |                |      |   |   |
|----------|------|-------------------------------------------------------------------------------------------------------------------|------|-----|---------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------|------|------|----------------|------|---|---|
|          |      | Totalinhalt (l)<br>Total Capacity (l)<br>Capacité Totale (l)                                                      |      |     |                                                                                                                                       |      | B                                                                                                                  | E    | H    | H <sub>1</sub> | L    | d | h |
|          |      |                                                                                                                   |      |     |                                                                                                                                       |      |                                                                                                                    |      |      |                |      |   |   |
|          |      |                                                                                                                   |      |     |                                                                                                                                       |      |                                                                                                                    |      |      |                |      |   |   |
| LPMD 25  | 27   | 7,5                                                                                                               | 3,0  | 12  | 600                                                                                                                                   | 736  | 1800                                                                                                               | 2160 | 1220 | 340            | 300  |   |   |
| LPMD 50  | 46   | 11,0                                                                                                              | 4,0  | 30  | 650                                                                                                                                   | 610  | 1740                                                                                                               | 2290 | 1610 | 430            | 320  |   |   |
| LPMD 75  | 84   | 15,0                                                                                                              | 5,5  | 30  | 880                                                                                                                                   | 610  | 1500                                                                                                               | 2000 | 1450 | 490            | 450  |   |   |
| LPMD 100 | 128  | 15,0                                                                                                              | 5,5  | 60  | 990                                                                                                                                   | 730  | 1855                                                                                                               | 2355 | 1720 | 640            | 400  |   |   |
| LPMD 150 | 167  | 22,0                                                                                                              | 7,5  | 60  | 850                                                                                                                                   | 745  | 1950                                                                                                               | 2550 | 1780 | 640            | 520  |   |   |
| LPMD 200 | 212  | 30,0                                                                                                              | 11,0 | 60  | 1020                                                                                                                                  | 835  | 2040                                                                                                               | 2730 | 2300 | 640            | 660  |   |   |
| LPMD 300 | 355  | 37,0                                                                                                              | 15,0 | 60  | 1080                                                                                                                                  | 875  | 2350                                                                                                               | 3120 | 2090 | 840            | 650  |   |   |
| LPMD 500 | 550  | 55,0                                                                                                              | 22,0 | 75  | 1260                                                                                                                                  | 992  | 2860                                                                                                               | 3610 | 2340 | 1000           | 700  |   |   |
| LPMD 800 | 816  | 75,0                                                                                                              | 37,0 | 75  | 1475                                                                                                                                  | 1140 | 3200                                                                                                               | 4100 | 3000 | 1140           | 800  |   |   |
| LPMD1000 | 1026 | 90,0                                                                                                              | 45,0 | 150 | 1625                                                                                                                                  | 1215 | 3460                                                                                                               | 4410 | 3060 | 1240           | 850  |   |   |
| LPMD1200 | 1268 | 110,0                                                                                                             | 55,0 | 150 | 1625                                                                                                                                  | 1415 | 3660                                                                                                               | 4610 | 3060 | 1240           | 1050 |   |   |
| LPMD1500 | 1495 | 132,0                                                                                                             | 75,0 | 150 | 1800                                                                                                                                  | 1135 | 3800                                                                                                               | 4850 | 3615 | 1380           | 1000 |   |   |

Dissolver Antrieb  
Dissolver Drive  
Commande Dissolveur

Planeten-Antrieb  
Planetary Drive  
Commande Planétaire

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# TYPE LPMD

## TECHNISCHE DATEN

der Labor-Planeten-Dissolver

## TECHNICAL DATA

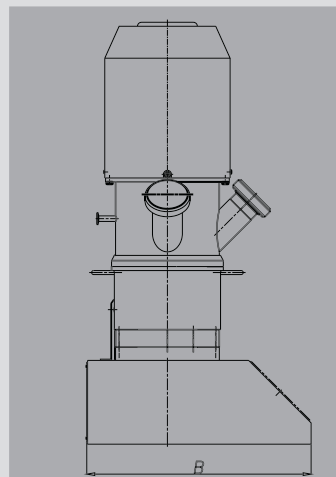
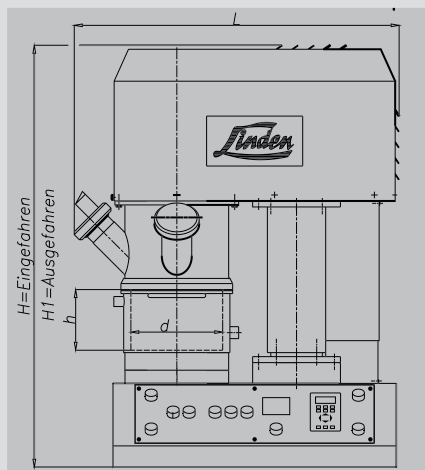
of the Laboratory Planetary Dissolvers

## CARACTÉRISTIQUES

## TECHNIQUES

des Dissolveurs Planétaires pour

Laboratoire



| Type     | Totalinhalt (l)<br>Total Capacity (l)<br>Capacité Totale (l) | Kraftbedarf<br>(durchschnittlich) kW<br>Power Consumption<br>(normally) kW<br>Puissance Admise<br>(en moyenne) kW |      | Saugleistung der<br>Vakuumpumpe m <sup>3</sup> /h<br>Pumping Speed<br>of the Vacuum Pump m <sup>3</sup> /h<br>Volume Aspiré de la Pompe<br>à faire le Vide m <sup>3</sup> /h | Abmessungen in mm (unverbindlich)<br>Measurements in mm (without obligation)<br>Dimensions en mm (sans engagement) |      |                |     |     |     |
|----------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------|----------------|-----|-----|-----|
|          |                                                              |                                                                                                                   |      |                                                                                                                                                                              | B                                                                                                                  | H    | H <sub>1</sub> | L   | d   | h   |
| LPMD 0,5 | 0,6                                                          | 0,55                                                                                                              | 0,37 | 2                                                                                                                                                                            | 475                                                                                                                | 700  | 900            | 600 | 100 | 75  |
| LPMD 1   | 1,1                                                          | 0,75                                                                                                              | 0,55 | 2                                                                                                                                                                            | 475                                                                                                                | 775  | 975            | 600 | 100 | 150 |
| LPMD 2   | 2,2                                                          | 0,37                                                                                                              | 0,75 | 2                                                                                                                                                                            | 490                                                                                                                | 790  | 990            | 680 | 160 | 110 |
| LPMD 5   | 6                                                            | 2,2                                                                                                               | 1,1  | 4                                                                                                                                                                            | 470                                                                                                                | 1575 | 1745           | 925 | 230 | 152 |
| LPMD 10  | 12                                                           | 3,0                                                                                                               | 1,5  | 8                                                                                                                                                                            | 470                                                                                                                | 1575 | 1785           | 950 | 290 | 190 |

Dissolver Antrieb  
Dissolver Drive  
Commande Dissolveur

Planeten-Antrieb  
Planetary Drive  
Commande Planétaire

Der Kraftbedarf richtet sich nach dem Einsatzfall, dem Mischgut, dem spezifischen Gewicht, der Viskosität usw. Konstruktionsänderungen vorbehalten.

**The necessary power consumption depends on application, mixing material, specific gravity, viscosity etc. The right is reserved to make changes in design without prior notice.**

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# TYPE K III A

## TECHNISCHE DATEN

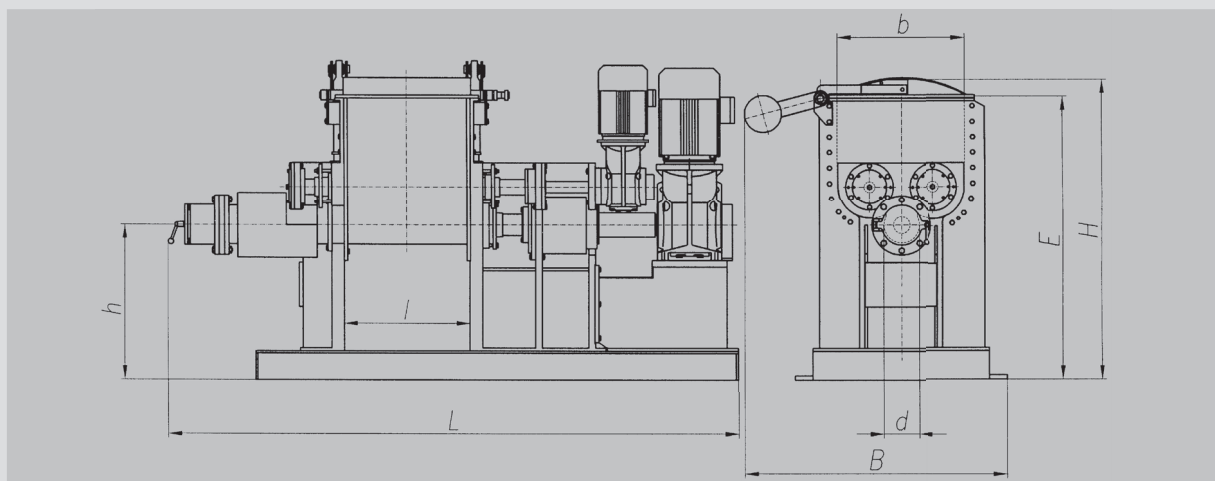
der Universal Doppelschauligen  
Misch- und Knetmaschinen mit  
Austragschnecke

## TECHNICAL DATA

of the Universal Double Arm Mixing  
and Kneading Machines with  
Extrusion Screw

## CARACTÉRISTIQUES TECHNIQUES

des Mélangeurs-Malaxeurs Universels  
à 2 Hélices avec Vis de Boudinage



| Type        | Inhalt (l)<br>Capacity (l)<br>Capacité (l) |                          | Kraftbedarf<br>(durchschnittlich) kW<br>Power Consumption<br>(normally) kW<br>Puissance Admise<br>(en moyenne) kW | Abmessungen in mm (unverbindlich)<br>Measurements in mm (without obligation)<br>Dimensions en mm (sans engagement) |      |      |      |      |     |     |      |
|-------------|--------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------|------|------|------|-----|-----|------|
|             | Nutz<br>Working<br>Utile                   | Total<br>Total<br>Totale |                                                                                                                   | B                                                                                                                  | E    | H    | L    | b    | d   | h   | l    |
| KIII 20 A   | 20                                         | 32                       | 3,0 – 10,0                                                                                                        | 955                                                                                                                | 800  | 880  | 2030 | 360  | 90  | 570 | 350  |
| KIII 35 A   | 35                                         | 48                       | 4,0 – 10,0                                                                                                        | 1030                                                                                                               | 980  | 1060 | 2200 | 400  | 100 | 635 | 400  |
| KIII 60 A   | 60                                         | 90                       | 5,5 – 15,0                                                                                                        | 1385                                                                                                               | 1110 | 1190 | 2480 | 520  | 140 | 570 | 430  |
| KIII 100 A  | 100                                        | 135                      | 5,5 – 20,0                                                                                                        | 1385                                                                                                               | 1110 | 1190 | 2570 | 520  | 140 | 570 | 520  |
| KIII 150 A  | 150                                        | 225                      | 7,5 – 30,0                                                                                                        | 1650                                                                                                               | 1300 | 1380 | 3000 | 648  | 180 | 650 | 700  |
| KIII 200 A  | 200                                        | 300                      | 7,5 – 41,0                                                                                                        | 1700                                                                                                               | 1310 | 1390 | 3020 | 760  | 210 | 650 | 700  |
| KIII 300 A  | 300                                        | 400                      | 10,0 – 50,0                                                                                                       | 1830                                                                                                               | 1380 | 1460 | 3150 | 832  | 220 | 700 | 840  |
| KIII 450 A  | 450                                        | 650                      | 15,0 – 75,0                                                                                                       | 2000                                                                                                               | 1550 | 1650 | 3750 | 960  | 240 | 725 | 1000 |
| KIII 600 A  | 600                                        | 830                      | 20,0 – 75,0                                                                                                       | 2150                                                                                                               | 1600 | 1700 | 4100 | 1050 | 260 | 750 | 1100 |
| KIII 800 A  | 800                                        | 1100                     | 25,0 – 100,0                                                                                                      | 2350                                                                                                               | 1750 | 1850 | 4350 | 1140 | 290 | 750 | 1250 |
| KIII 1000 A | 1000                                       | 1530                     | 30,0 – 125,0                                                                                                      | 2450                                                                                                               | 1870 | 1970 | 4820 | 1260 | 320 | 800 | 1300 |
| KIII 1500 A | 1500                                       | 2250                     | 40,0 – 150,0                                                                                                      | 2700                                                                                                               | 2100 | 2200 | 5500 | 1380 | 350 | 900 | 1440 |
| KIII 2000 A | 2000                                       | 2750                     | 50,0 – 180,0                                                                                                      | 2700                                                                                                               | 2100 | 2200 | 5750 | 1380 | 350 | 900 | 1600 |

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# TYPE K IV A

## TECHNISCHE DATEN

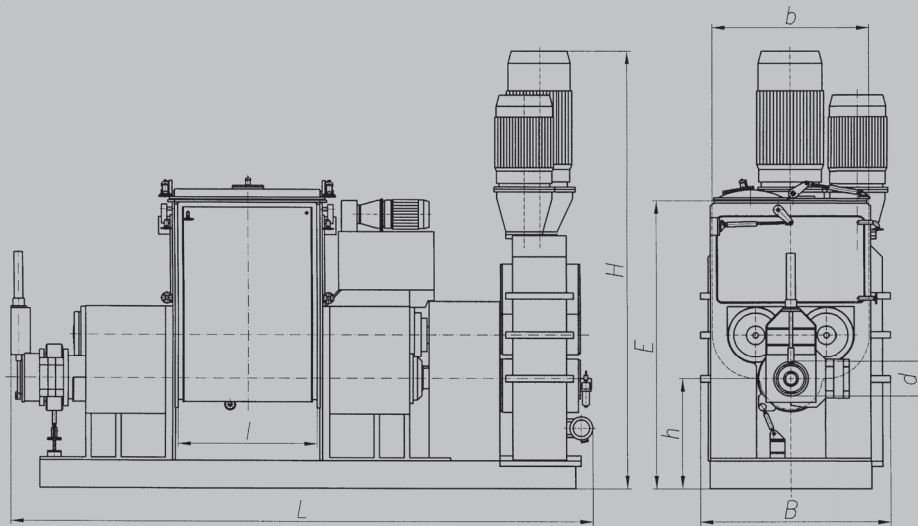
der Universal Doppelschauligen  
Misch- und Knetmaschinen mit  
Austragschnecke

## TECHNICAL DATA

of the Universal Double Arm Mixing  
and Kneading Machines with  
Extrusion Screw

## CARACTÉRISTIQUES TECHNIQUES

des Mélangeurs-Malaxeurs Universels  
à 2 Hélices avec Vis de Boudinage



| Type       | Inhalt (l)<br>Capacity (l)<br>Capacité (l) |                          | Kraftbedarf<br>(durchschnittlich) kW<br>Power Consumption<br>(normally) kW<br>Puissance Admise<br>(en moyenne) kW | Abmessungen in mm (unverbindlich)<br>Measurements in mm (without obligation)<br>Dimensions en mm (sans engagement) |      |      |      |      |     |      |      |
|------------|--------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------|------|------|------|-----|------|------|
|            | Nutz<br>Working<br>Utile                   | Total<br>Total<br>Totale |                                                                                                                   | B                                                                                                                  | E    | H    | L    | b    | d   | h    | l    |
| KIV 200 A  | 200                                        | 300                      | 15,5 – 45                                                                                                         | 1800                                                                                                               | 1360 | 1720 | 3090 | 760  | 210 | 650  | 700  |
| KIV 300 A  | 300                                        | 400                      | 18,5 – 55                                                                                                         | 2000                                                                                                               | 1410 | 1780 | 3390 | 832  | 220 | 700  | 840  |
| KIV 450 A  | 450                                        | 650                      | 30,5 – 75                                                                                                         | 2385                                                                                                               | 1550 | 1825 | 3760 | 960  | 240 | 725  | 1000 |
| KIV 600 A  | 600                                        | 830                      | 37,5 – 90                                                                                                         | 2500                                                                                                               | 1710 | 2000 | 4030 | 1050 | 260 | 750  | 1100 |
| KIV 800 A  | 800                                        | 1100                     | 45,5 – 110                                                                                                        | 2600                                                                                                               | 1710 | 2100 | 4430 | 1140 | 290 | 750  | 1250 |
| KIV 1000 A | 1000                                       | 1530                     | 55,5 – 132                                                                                                        | 2730                                                                                                               | 1620 | 2100 | 4820 | 1260 | 320 | 800  | 1300 |
| KIV 1500 A | 1500                                       | 2250                     | 75,5 – 160                                                                                                        | 3000                                                                                                               | 2100 | 2200 | 5200 | 1380 | 350 | 900  | 1440 |
| KIV 2000 A | 2000                                       | 2750                     | 90,5 – 200                                                                                                        | 3000                                                                                                               | 2100 | 2200 | 5650 | 1380 | 350 | 900  | 1600 |
| KIV 3000 A | 3000                                       | 6000                     | 160,5 – 400                                                                                                       | 3000                                                                                                               | 3120 | 3450 | 8725 | 1860 | 415 | 1200 | 2000 |

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réservés.

# TYPE LKS / K IV S

Universal doppelschauflige Misch- und Knetmaschinen  
mit ineinandergreifenden Knetschaufeln

Universal Double Arm Mixing and Kneading Machines with  
kneading blades deeply gearing into one another

Das seit vielen Jahren bewährte Programm der **LINDEN** Universal doppelschaufligen Misch- und Knetmaschinen ist um eine Variante erweitert worden.

Angeboten werden jetzt zusätzlich Universal doppelschauflige Misch- und Knetmaschinen mit tief ineinandergreifenden Knetschaufeln. Das Prinzip dieser Konstruktion ist in den nachstehenden Skizzen dargestellt. Die Konstruktion der Knetarme bewirkt, daß die Wirkkanten der Schaufeln das Mischgut von den Vorder- und Rückseiten der anderen Schaufel abstreift.

Gleichzeitig wird das Mischgut ständig von den Trogseitenwänden zur Mischtrogmitte hin bewegt. Die Geschwindigkeit des einen Knetarmes ist doppelt so schnell wie die des anderen Knetarmes (Drehzahlverhältnis der Knetarme 2:1).

Durch die unterschiedlichen Drehzahlen der Knetarme erfolgt eine wechselweise Annäherung und Entfernung der Schaufelflächen zu- und voneinander. Dadurch entstehen hohe Druck-, Zug- und Scherkräfte und somit eine große Friktion im Mischgut. Die Folgen sind ausgezeichnete Dispergierung und Homogenisierung des Mischgutes.

Alle Optionen die für die bewährten **LINDEN** Universal doppelschaufligen Misch- und Knetmaschinen angeboten werden, sind auch für die neue Baureihe lieferbar.

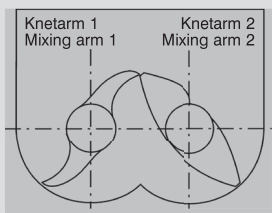
The program of the **LINDEN** Universal Double Arm Mixing and Kneading Machines, which has stood the test for many years, is completed by a new type.

In addition to the existing construction are now offered the Universal Double Arm Mixing Machine with kneading blades deeply gearing into one another. The principle of this construction is represented schematically in the sketches below. The design of the kneading arms causes that the corners of the blades scrape the mixing material of the front and reverse surfaces of the other blade.

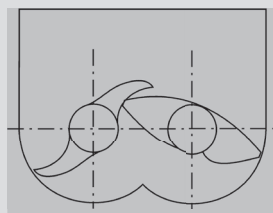
At the same time the mixing material is quickly moved from both trough ends to the centre of the trough. The speed of the one kneading blade is twice the speed of the other blade (ratio of speed 2:1).

By the different speed, the surfaces of the kneading blades are approaching and removing alternately. From it arise high pressure rates, traction powers and shearing forces and therefore a high friction in the mixed material. The results are an excellent dispersion and homogenization of the mixing material.

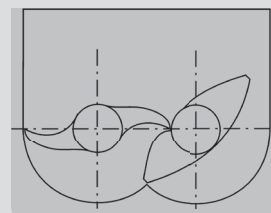
All options which are offered for the successful **LINDEN** Universal Double Arm Mixing and Kneading Machine are available for the new type.



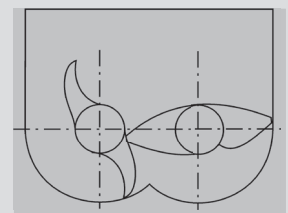
Grundstellung  
Startposition



Knetarm 2 reinigt Knetarm 1  
mixing arm 2 is cleaning mixing arm 1



Knetarm 1 reinigt Knetarm 2  
mixing arm 1 is cleaning mixing arm 2



Knetarm 2 reinigt Knetarm 1  
mixing arm 2 is cleaning mixing arm 1

| Type                          | LKS | LKS | LKS | KIVS | KIVS | KIVS | KIVS | KIVS | KIVS | KIVS | KIVS | KIVS | KIVS | KIVS | KIVS | KIVS | KIVS | KIVS |
|-------------------------------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Liter<br>Litres               | 0,5 | 1,7 | 2   | 5    | 10   | 20   | 35   | 60   | 100  | 150  | 200  | 300  | 450  | 600  | 800  | 1000 | 1500 | 2000 |
| Nutzhalt<br>Working capacity  | 0,5 | 1,7 | 2   | 5    | 10   | 20   | 35   | 60   | 100  | 150  | 200  | 300  | 450  | 600  | 800  | 1000 | 1500 | 2000 |
| Totalinhalt<br>Total capacity | 1,1 | 1,7 | 4   | 8    | 17   | 32   | 48   | 90   | 165  | 225  | 300  | 400  | 650  | 830  | 1100 | 1530 | 2250 | 2750 |