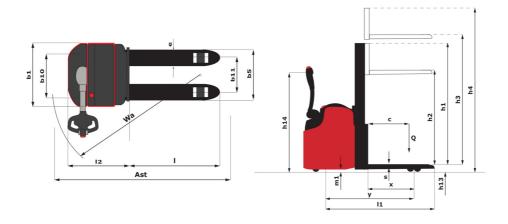
Technical sheet:

## ES 820



		Technical characteristics		Metric
Model Name	1.1			
1.4   Operator type				
1.5				
1.5         Max. capacity         c         600 mm           1.6         Load center of travity         c         600 mm           1.9         Wheelbase         y         1378 mm           1.9         Wheelbase         y         1378 mm           2.1         Service weight         1180 kg / S210 kg           2.2         Weight on front axie (Unladen)         1180 kg / S210 kg           2.3         Weight on front axie (Unladen) / rear axie (unladen)         1180 kg / S210 kg           2.3         Weight on front axie (Unladen) / rear axie (unladen)         1180 kg / S210 kg           3.3         Number of India wheels / Size of load wheels         2         2 / 822 k8           3.4         Number of float wheels / Size of wheels         2         2 / 1202 k8           3.5         Number of float wheels / Size of wheels         2         2 / 1202 k8           3.5         Number of float wheels / Size of wheels         2         3 / 4           3.5         Number of float wheels / Size of weels         4         2 / 1202 kg           3.6         Front wheel gauge         b10         644 mm           4.15         For khelpith in low position         h13         3 framewhell gauge           4.2         Fok kelpith in low position				
1.6         Lod center of gravity         x         650 mm           1.8         Distance from Load backwest to center of rear axle         x         650 mm           1.8         Wheelbase         y         1378 mm           2.1         Service weight         1520 kg         1520 kg           2.2         Weight on front aske (lideon) / rear axle (unladen)         1180 kg / 2510 kg         1180 kg / 2510 kg           2.3         Weight on front aske (Unladen) / rear axle (unladen)         6         Polyumethane           3.1         Tires type         7         Polyumethane           3.1         Number of old wheels / Size of the subilizer wheels         2         82 82 88           3.4         Number of fortwheels / Size of the subilizer wheels         3         3 / 4           3.5         Number of fortwheels / Size of the wheels         1         12 / 25 × 100           3.5         Number of fortwheels / Size of the wheels         1         12 / 25 × 100           3.6         Front theel gauge         b11         644 mm           4.5         Forth keight in low position         h13         85 mm           4.19         Overall length         11         248 mm           4.20         Length to face of forks         12         898 mm<				
1.5   Sistance from Load backrest to center of rear arise   1.7				
Neelbase   Weight   Weight				
Note				
2.1   Service weight	1.9		у	1378 mm
2.2         Weight on front axile (laden) / rear axile (Unladen)         1180 kg / 2510 kg           2.3         Weight on front axile (Unladen) / rear axile (Unladen)         1125 kg / 495 kg           3.1         Tires type         Polywershane           3.2         Number of Isabilizer wheels / Size of load wheels         2 / 120x50           3.5         Number of front wheels / Fair wheels         3 / 4           3.2         Number of front wheels / Fair wheels         3 / 4           3.5         Number of front wheels / Fair wheels         3 / 4           3.6         Front wheel gauge         b10         664 mm           3.7         Rear wheel gauge         b11         393 mm           3.7         Rear wheel gauge         b11         393 mm           4.15         Fook height in low position         h13         85 mm           4.19         Overall length         h11         2.048 mm           4.20         Oxerall length         b1         393 mm           4.21         Oxerall width         b1         390 mm           4.22         Fook seetbin / width / length         s / 1         700 mm / 200 mm / 1150 mm           4.24         Fook carriage width         s / 2         10 mm         30 mm           4.31 </td <td></td> <td>•</td> <td></td> <td></td>		•		
		•		·
Minecals   Minecals		. , , , ,		
3.1         Tires type         Polyurethane           3.3         Number of load wheels / Size of the stabilizer wheels         2 / 8 / 2 x / 68           3.5         Number of front wheels / rear wheels         3 / 4           3.5.2         Number of front wheels / Size of drive wheels         3 / 4           3.5.2         Number of drive wheels / Size of drive wheels         10           3.6         Front wheel gauge         b10         664 mm           3.7         Bear wheel gauge         b11         393 mm           4.15         Fork height in low position         h13         85 mm           4.19         Overall length         11         2048 mm           4.19         Overall width         11         2048 mm           4.20         Overall width         12         898 mm           4.21         Overall width         5 / 61         70 mm / 200 mm / 1150 mm           4.22         Fork section / width / length         5 / 61         70 mm / 200 mm / 1150 mm           4.23         Ground clearance below mast         m1         30 mm           4.31         Ground clearance at centre of wheelbase         m2         2 mm           4.25         Truming adults         6 km/h / 6 km/h           5.2         Li	2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1125 kg / 495 kg
3.3         Number of load wheels / Size of the stabilizer wheels / Size of drive wheels / Size of Size o		Wheels		
3.4         Number of stabilizer wheels / Size of the stabilizer wheels         2 / 120x50           3.5         Number of front wheel y Faze of drive wheels         3 / 4           3.6         Front wheel gauge         b10         664 mm           3.7         Rear wheel gauge         b10         664 mm           4.15         Fork height in low position         h13         85 mm           4.19         Overall length         11         2048 mm           4.20         Length to face of forks         11         2048 mm           4.21         Overall width         b1         899 mm           4.22         Fork section / width / length         5 / 2         70 mm / 200 mm / 1150 mm           4.23         Fork carriage width         b1         80 mm           4.24         Fork carriage width         b3         700 m           4.24         Fork carriage width         m1         30 mm           4.24         Fork carriage width         b3         700 m           4.25         Ground clearance at centre of wheelbase         m2         2 mm           5         Turning radius         m4         9.75 mm / 1375 mm           6         Ferformances         0.11 m/s / 0.20 m/s         6.8 km/s / 6 km/s / 6 km/s	3.1	Tires type		Polyurethane
3.5.2         Number of front wheels / rear wheels         3 / 4           3.5.2         Number of drive wheels / Size of drive wheels         17/25x 100           3.6         Front wheel gauge         b10         664 mm           3.7         Rear wheel gauge         b11         393 mm           4.15         Fork height in low position         h13         85 mm           4.19         Overall length         11         2048 mm           4.20         Length of ace of forks         12         898 mm           4.21         Overall width         18         899 mm           4.22         Fork section / width / length         5 / 21         70 mm / 200 mm / 1150 mm           4.24         Fork carriage width         5 / 21         70 mm / 200 mm / 1150 mm           4.24         Fork carriage width         5 / 21         30 mm           4.31         Ground clearance at centre of wheelbase         m2         21 mm           4.32         Ground clearance at centre of wheelbase         m2         21 mm           4.59         Turning addus         8         14 / 4         975 mm / 1375 mm           5.1         Tracin gaesel (aden / unladen)         5 / 10 / 10 / 10 / 10 / 10 / 10 / 10 / 1	3.3	Number of load wheels / Size of load wheels		2 / 82x68
3.5.2       Number of drive wheels / Size of drive wheels       1/254x100         3.6       Front wheel gauge       b10       664 mm         3.7       Bear wheel gauge       b11       393 mm         Umensions         4.15       Fork height in low position       h13       8.5 mm         4.19       Length to face of forks       12       898 mm         4.20       Length to face of forks       12       898 mm         4.21       Fork section / width / length       5 if 1       890 mm         4.22       Fork carriage width       5 if 70 mm / 200 mm / 1150 mm         4.31       Ground clearance at centre of wheelbase       m2       21 mm         4.32       Ground clearance at centre of wheelbase       m2       21 mm         4.33       Tuming radius       Wa       15 pm m         4.35       Travel speed (laden / unladen)       Wa       15 pm m/ 1375 mm         5.1       Travel speed (laden / unladen)       5 if 6 km/h 6 km/h         5.2       Lowering speed (laden / unladen)       5 if 6 km/h 6 km/h         5.8       Max Gradeability (laden / unladen)       5 if 6 km/h 6 km/h         6.8       Escrice brake       6 km/h 6 km/h         6.8       Finglie	3.4	Number of stabilizer wheels / Size of the stabilizer wheels		2 / 120x50
3.6       Front wheel gauge       b10       664 mm         3.7       Rear wheel gauge       b11       393 mm         Uninesions         4.15       Fork height in low position       h13       85 mm         4.19       Overall length       I1       2048 mm         4.20       Length to face of forks       12       898 mm         4.21       Overall width       b1       890 mm         4.22       Fork section / width / length       5/e / J       70 mm / 200 mm / 1150 mm         4.24       Fork carriage width       b3       700 m         4.24       Fork carriage width       m1       30 mm         4.24       Fork carriage width       m2       21 mm         4.24       Fork carriage width       m3       700 m         4.24       Forund clearance below mast       m1       30 mm         4.31       Ground clearance at centre of wheelbase       m2       21 mm         4.32       Ground clearance at centre of wheelbase       m2       21 mm         4.35       Tuming radius       h14 / h14       975 mm / 1375 mm         5.1       Tavel speed (laden / unladen)       5       6 km/h / 6 km/h         5.2       Lowering speed (	3.5	Number of front wheels / rear wheels		3 / 4
Rear wheel gauge	3.5.2	Number of drive wheels / Size of drive wheels		1/254x100
Image: Control of the Engine in Low position         In the Engine in Low position in Low position         In the Engine in Low position in Low position         In the Engine in Low position in Low positi	3.6	Front wheel gauge	b10	664 mm
4.15       Fork height in low position       h13       85 mm         4.19       Overal length       11       2048 mm         4.20       Length to face of forks       12       898 mm         4.21       Overall width       b1       899 mm         4.22       Fork section / width / length       \$ / e/1       70 mm / 200 mm / 1150 mm         4.24       Fork carriage width       b3       700 m         4.31       Ground clearance below mast       m1       30 mm         4.32       Ground clearance at centre of wheelbase       m2       2 11 mm         4.35       Tuming radius       Wa       1591 mm         4.9       Height tiller min. / max.       Ma       75 mm / 1375 mm         4.9       Performances       Wa       6 km/h / 6 km/h         5.1       Travel speed (laden / unladen)       5       6 km/h / 6 km/h         5.2       Lifting speed (laden / unladen)       0.11 m/s / 0.20 m/s       0.22 m/s / 0.21 m/s         5.3       Lowering speed (laden / unladen)       5       6 km/h / 6 km/h         5.1       Sevrice brake       2       Electromagnetic         6.1       Drive motor rating S2 60 im       2       4 kW         6.2       Lift motor rating	3.7	Rear wheel gauge	b11	393 mm
4.19       Overall length       11       2048 mm         4.20       Length to face of forks       12       898 mm         4.21       Overall width       51       890 mm         4.22       Forks section / width / length       5 / e / l       70 mm / 200 mm / 1150 mm         4.24       Fork cariage width       53       700 m         4.31       Ground clearance at center of wheelbase       m1       30 mm         4.35       Tuming radius       Wa       1591 mm         4.39       Height tiller min. / max.       114 / h14       975 mm / 1375 mm         5.1       Travel speed (laden / unladen)       51       6 km/h / 6 km/h         5.2       Lifting speed (laden / unladen)       51       6 km/l / 6 km/h         5.3       Lowering speed (laden / unladen)       51       6 % / 10 %         5.3       Lowering speed (laden / unladen)       51       6 % / 10 %         5.1       Sevice brake       51       6 % / 10 %         6.2       Lift motor rating \$2.50 min       51       2 kW         6.2       Lift motor rating \$2.50 min       51       4 kW         6.3       Battey voltage / capacity       52       4 kW         6.4       Battey voltage / apacity <td></td> <td>Dimensions</td> <td></td> <td></td>		Dimensions		
4.20       Length to face of forks       12       898 mm         4.21       Overall width       b1       890 mm         4.22       Forks section / width / length       s / e / l       70 mm / 200 mm / 1150 mm         4.24       Fork carriage width       b3       700 m         4.24       Goound clearance below mast       m1       30 mm         4.31       Ground clearance at centre of wheelbase       m2       21 mm         4.35       Tuming radius       Wa       1591 mm         4.9       Height tiller min. / max.       h14 / h14       975 mm / 1375 mm         4.9       Performances	4.15	Fork height in low position	h13	85 mm
4.21       Overall width       b1       890 mm         4.22       Forks section / width / length       \$ / e / l       70 mm / 200 mm / 1150 mm         4.24       Fork carriage width       b3       700 m         4.24       For carriage width       b3       700 m         4.31       Ground clearance alcente of wheelbase       m2       21 mm         4.32       Tuming radius       Wa       1591 mm         4.9       Height tiller min. / max.       h14 / h14       975 mm / 1375 mm         4.9       Performances       B       C         5.1       Travel speed (laden / unladen)       5       6 km/h / 6 km/h         5.2       Lifting speed (laden / unladen)       5       6 km/h / 6 km/h         5.3       Lowering speed (laden / unladen)       5       6 km/h / 6 km/h         5.1       Service brake       B       Electro magnetic         6.1       Drive motor rating \$2 60 min       \$       2 kW         6.2       Lift motor rating \$2 60 min       \$       2 kW         6.3       Battery woltage / capacity       \$       4 kW         6.3       Battery weight (+/- 5%)       \$       2 kY / 315 Ah         6.       Miscellaneous       \$	4.19	Overall length	l1	2048 mm
4.22         Forks section / width / length         s / e / l         70 mm / 200 mm / 1150 mm           4.24         Fork carriage width         b3         700 m           4.31         Ground clearance below mast         m1         30 mm           4.32         Ground clearance at centre of wheelbase         m2         21 mm           4.35         Turning radius         Wa         1591 mm           4.9         Height tiller min. / max.         h14 / h14         975 mm / 1375 mm           5.1         Travel speed (laden / unladen)         5         6 km/h / 6 km/h           5.2         Lifting speed (laden / unladen)         5         6.11 m/s / 0.20 m/s           5.3         Lowering speed (laden / unladen)         5         6.5 / 10.2 m/s           5.8         Max Gradeability (laden / unladen)         5         6.5 / 10.2 m/s           5.1         Service brake         5         6.7 10.3           6.1         Drive motor rating \$2.60 min         5         2 kW           6.2         Lift motor rating at \$3.15%         4 kW           6.3         Battery voltage / capacity         2         4 kW           6.3         Battery voltage / capacity         2         2 4 V / 315 Ah           6.5         Battery weig	4.20	Length to face of forks	I2	898 mm
4.24       Fork carriage width       b3       700 m         4.31       Ground clearance below mast       m1       30 mm         4.32       Ground clearance at centre of wheelbase       m2       21 mm         4.35       Turning radius       Wa       1591 mm         4.9       Height tiller min. / max.       h14 / h14       975 mm / 1375 mm         Performances         5.1       Travel speed (laden / unladen)       6 km/h / 6 km/h         5.2       Lifting speed (laden / unladen)       0.11 m/s / 0.20 m/s         5.3       Lowering speed (laden / unladen)       0.22 m/s / 0.21 m/s         5.8       Max Gradeability (laden / unladen)       6 % / 10 %         5.10       Service brake       Electromagnetic         Engine         6.1       Drive motor rating S2 60 min       2 kW         6.2       Lift motor rating at S3 15%       4 kW         6.3       Battery voltage / capacity       24 V / 315 Ah         6.4       Battery voltage / capacity       24 V / 315 Ah         6.5       Battery weight (+/- 5%)       275 kg         Miscellaneous         8.1       Type of drive control       AC	4.21	Overall width	b1	890 mm
4.31       Ground clearance below mast       m1       30 mm         4.32       Ground clearance at centre of wheelbase       m2       21 mm         4.35       Tuming radius       Wa       1591 mm         4.9       Height tiller min. / max.       h14 / h14       975 mm / 1375 mm         Performances         5.1       Travel speed (laden / unladen)       6 km/h / 6 km/h         5.2       Lifting speed (laden / unladen)       0.11 m/s / 0.20 m/s         5.3       Lowering speed (laden / unladen)       0.22 m/s / 0.21 m/s         5.8       Max Gradeability (laden / unladen)       6 % / 10 %         5.10       Service brake       Electro magnetic         Engine         6.1       Drive motor rating \$2.60 min       2 kW         6.2       Lift motor rating \$2.60 min       2 kW         6.3       Battery according to DIN 43531/35/36 A, B, C       Traction         6.4       Battery voltage / capacity       24 V / 315 Ah         6.5       Battery weight (*/-5%)       275 kg         Miscellaneous         8.1       Type of drive control       AC	4.22	Forks section / width / length	s / e / I	70 mm / 200 mm / 1150 mm
4.32       Ground clearance at centre of wheelbase       m2       21 mm         4.35       Tuming radius       Wa       1591 mm         4.9       Height tiller min. / max.       h14 / h14       975 mm / 1375 mm         Performances         5.1       Travel speed (laden / unladen)       6 km/h / 6 km/h         5.2       Liffing speed (laden / unladen)       0.11 m/s / 0.20 m/s         5.3       Lowering speed (laden / unladen)       0.22 m/s / 0.21 m/s         5.8       Max Gradeability (laden / unladen)       6 % / 10 %         5.10       Service brake       Electro magnetic         6.1       Drive motor rating \$2 60 min       2 kW         6.2       Liff motor rating at \$3 15%       4 kW         6.3       Battery according to DIN 43531/35/36 A, B, C       Traction         6.4       Battery voltage / capacity       24 V / 315 Ah         6.5       Battery weight (+/- 5%)       275 kg         Miscellaneous       Miscellaneous         8.1       Type of drive control       AC	4.24	Fork carriage width	b3	700 m
4.35       Tuming radius       Wa       1591 mm         4.9       Height tiller min. / max.       h14 / h14       975 mm / 1375 mm         Performances         5.1       Travel speed (laden / unladen)       6 km/h / 6 km/h         5.2       Lifting speed (laden / unladen)       0.11 m/s / 0.20 m/s         5.3       Lowering speed (laden / unladen)       0.22 m/s / 0.21 m/s         5.8       Max Gradeability (laden / unladen)       6 % / 10 %         5.10       Service brake       Electro magnetic         6.1       Drive motor rating \$2.60 min       2 kW         6.2       Lift motor rating \$2.60 min       2 kW         6.2       Lift motor rating at \$3.15%       4 kW         6.3       Battery according to DIN 43531/35/36 A, B, C       Traction         6.4       Battery voltage / capacity       24 V / 315 Ah         6.5       Battery weight (+/- 5%)       275 kg         Miscellaneous       1       AC	4.31	Ground clearance below mast	m1	30 mm
4.9 Height tiller min. / max.       h14 / h14       975 mm / 1375 mm         Perfomances         5.1       Travel speed (laden / unladen)       6 km/h / 6 km/h         5.2       Lifting speed (laden / unladen)       0.11 m/s / 0.20 m/s         5.3       Lowering speed (laden / unladen)       0.22 m/s / 0.21 m/s         5.8       Max Gradeability (laden / unladen)       6 % / 10 %         5.10       Service brake       Electro magnetic         6.1       Drive motor rating \$2 60 min       2 kW         6.2       Lift motor rating at \$3 15%       4 kW         6.3       Battery according to DIN 43531/35/36 A, B, C       Traction         6.4       Battery voltage / capacity       24 V/ 315 Ah         6.5       Battery weight (+/- 5%)       275 kg         Miscellaneous         8.1       Type of drive control       AC	4.32	Ground clearance at centre of wheelbase	m2	21 mm
Performances         Common commo	4.35	Turning radius	Wa	1591 mm
Performances         Commander           5.1         Travel speed (laden / unladen)         6 km/h / 6 km/h           5.2         Lifting speed (laden / unladen)         0.11 m/s / 0.20 m/s           5.3         Lowering speed (laden / unladen)         0.22 m/s / 0.21 m/s           5.8         Max Gradeability (laden / unladen)         6 % / 10 %           5.10         Service brake         Electro magnetic           6.1         Drive motor rating \$2 60 min         2 kW           6.2         Lift motor rating at \$3 15%         4 kW           6.3         Battery according to DIN 43531/35/36 A, B, C         Traction           6.4         Battery voltage / capacity         24 V/ 315 Ah           6.5         Battery weight (+/- 5%)         275 kg           Miscellaneous         Miscellaneous         AC	4.9	Height tiller min. / max.	h14 / h14	975 mm / 1375 mm
5.2       Lifting speed (laden / unladen)       0.11 m/s / 0.20 m/s         5.3       Lowering speed (laden / unladen)       0.22 m/s / 0.21 m/s         5.8       Max Gradeability (laden / unladen)       6% / 10 %         5.10       Service brake       Electro magnetic         Engine         6.1       Drive motor rating \$2 60 min       2 kW         6.2       Lift motor rating at \$3 15%       4 kW         6.3       Battery according to DIN 43531/35/36 A, B, C       Traction         6.4       Battery voltage / capacity       24 V / 315 Ah         6.5       Battery weight (+/- 5%)       275 kg         Miscellaneous         8.1       Type of drive control       AC				
5.2       Lifting speed (laden / unladen)       0.11 m/s / 0.20 m/s         5.3       Lowering speed (laden / unladen)       0.22 m/s / 0.21 m/s         5.8       Max Gradeability (laden / unladen)       6% / 10 %         5.10       Service brake       Electro magnetic         Engine         6.1       Drive motor rating \$2 60 min       2 kW         6.2       Lift motor rating at \$3 15%       4 kW         6.3       Battery according to DIN 43531/35/36 A, B, C       Traction         6.4       Battery voltage / capacity       24 V / 315 Ah         6.5       Battery weight (+/- 5%)       275 kg         Miscellaneous         8.1       Type of drive control       AC	5.1	Travel speed (laden / unladen)		6 km/h / 6 km/h
5.3       Lowering speed (laden / unladen)       0.22 m/s / 0.21 m/s         5.8       Max Gradeability (laden / unladen)       6 % / 10 %         5.10       Service brake       Electro magnetic         Engine         6.1       Drive motor rating \$2 60 min       2 kW         6.2       Lift motor rating at \$3 15%       4 kW         6.3       Battery according to DIN 43531/35/36 A, B, C       Traction         6.4       Battery voltage / capacity       24 V / 315 Ah         6.5       Battery weight (+/- 5%)       275 kg         Miscellaneous         8.1       Type of drive control       AC	5.2			0.11 m/s / 0.20 m/s
5.8       Max Gradeability (laden / unladen)       6 % / 10 %         5.10       Service brake       Electro magnetic         Engine         6.1       Drive motor rating \$2 60 min       2 kW         6.2       Lift motor rating at \$3 15%       4 kW         6.3       Battery according to DIN 43531/35/36 A, B, C       Traction         6.4       Battery voltage / capacity       24 V / 315 Ah         6.5       Battery weight (+/- 5%)       275 kg         Miscellaneous         8.1       Type of drive control       AC	5.3	- ' '		0.22 m/s / 0.21 m/s
5.10       Service brake       Electro magnetic         Engine       Colspan="2">Colspan="	5.8	- , ,		6 % / 10 %
Engine         Common of Pating S2 60 min         C2 kW           6.2         Lift motor rating at S3 15%         4 kW           6.3         Battery according to DIN 43531/35/36 A, B, C         Traction           6.4         Battery voltage / capacity         24 V / 315 Ah           6.5         Battery weight (+/- 5%)         275 kg           Miscellaneous           8.1         Type of drive control         AC	5.10			Electro magnetic
6.1       Drive motor rating \$2 60 min       2 kW         6.2       Lift motor rating at \$3 15%       4 kW         6.3       Battery according to DIN 43531/35/36 A, B, C       Traction         6.4       Battery voltage / capacity       24 V / 315 Ah         6.5       Battery weight (+/- 5%)       275 kg         Miscellaneous         8.1       Type of drive control       AC		Engine		3
6.2       Lift motor rating at S3 15%       4 kW         6.3       Battery according to DIN 43531/35/36 A, B, C       Traction         6.4       Battery voltage / capacity       24 V / 315 Ah         6.5       Battery weight (+/- 5%)       275 kg         Miscellaneous         8.1       Type of drive control       AC	6.1			2 kW
6.3 Battery according to DIN 43531/35/36 A, B, C  6.4 Battery voltage / capacity 24 V / 315 Ah  6.5 Battery weight (+/- 5%) 275 kg  Miscellaneous  8.1 Type of drive control AC		•		
6.4       Battery voltage / capacity       24 V / 315 Ah         6.5       Battery weight (+/- 5%)       275 kg         Miscellaneous         8.1       Type of drive control       AC		-		
6.5       Battery weight (+/- 5%)       275 kg         Miscellaneous         8.1       Type of drive control       AC				
Miscellaneous  8.1 Type of drive control  AC				
8.1 Type of drive control AC	0.0			270 kg
	8 1			A.C.

## ES 820 - Dimensional drawing



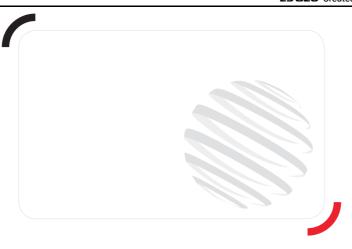
## Characteristics of masts and residual capacities

Central Cylinder Duplex (CCD)		FVD 29	FVD 34
h1 - Mast lowered height	mm	1940	2190
h3 - Mast lifting height	mm	2940	3440
h4 - Mast extended height	mm	3365	3865
Residual capacity at max height	kg	1600	1300

Central Cylinder Simplex (CCS)		CCS 15	CCS 17
h1 - Mast lowered height	mm	1940	2190
h2 - Mast free lift	mm	1510	1760
h3 - Mast lifting height	mm	1510	1760
h4 - Mast extended height	mm	1940	2190
Residual capacity at max height	kg	2000	2000

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	mm	1940	2190
h2 - Mast free lift	mm	1510	1760
h3 - Mast lifting height	mm	2935	3435
h4 - Mast extended height	mm	3365	3865
Residual capacity at max height	kg	1600	1300

Free Lift Triplex (FLT)	FLT 42	FLT 47	FLT 54	
h1 - Mast lowered height	mm	1900	2060	2300
h2 - Mast free lift	mm	1465	1625	1875
h3 - Mast lifting height	mm	4245	4725	5455
h4 - Mast extended height	mm	4710	5190	5880
Residual capacity at max height	kg	750	550	450





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