**NEW GENERATION** 









**KESLA** 

Thanks to its modular design, the new KESLA 19RH-III harvester head can be optimized to work in a wide variety of conditions, with different wood and on different base machines. The KESLA 19RH-III is a 3-knife har-

vester head with one rear delimbing knife, suitable for first or subsequent

thinning, as well as for harvesting short rotation eucalyptus and acacia plantations with or without debarking. As a 3-knife, 19RH-III is an excellent choice for handling a slightly more challenging acacia. If head weight is a critical factor, the 19RH-III is a great choice because of its lighter weight. It is best suited for installation on 8-13 tonne excavators or wheeled harvesters.

**KESLA 19RH-III** 

## **KESLA 21RH-III**

The new KESLA 21RH-III harvester head can also be optimized for a wide variety of conditions, different wood and different base machines. The KESLA 21RH-III is a 4-knife harvester head with two rear delimbing knives, suitable for first or subsequent thinning, as well as for harvesting short rotation eucalyptus and acacia plantations with or without debarking. It is best suited for installation on 10-13 ton excavators or wheeled harvesters.

Weight from         680 kg / 1,500 lbs         720 kg / 1,590 lbs           Max opening of rollers         420 mm / 16,5"         420 mm / 16,5"           Max opening of front knives         480 mm / 18,9"         480 mm / 18,9"           Max opening of rear knife         520 mm / 20,4"         520 mm / 20,4"           Max sawing diameter         540 mm / 21,2"         540 mm / 21,2"           Delimbing diameter (knives circling the tree)         330 mm / 12,9"         330 mm / 12,9"           Optimal tree diameter less than         250 mm / 9,8"         280 mm / 11"           Delimbing force (28 Mpa)         19 kN / 4,270 lbf (400 cc motors)         19 kN / 4,270 lbf (400 cc motors)           Less of the company of		19RH-III	21RH-III
Max opening of front knives         480 mm / 18,9"         480 mm / 18,9"           Max opening of rear knife         520 mm / 20,4"         520 mm / 20,4"           Max sawing diameter         540 mm / 21,2"         540 mm / 21,2"           Delimbing diameter         330 mm / 12,9"         330 mm / 12,9"           (knives circling the tree)         250 mm / 9,8"         280 mm / 11"           Delimbing force (28 Mpa)         19 kN / 4,270 lbf (400 cc motors)         19 kN / 4,270 lbf (400 cc motors)           Lelimbing speed (200 l/min)         5 m/s / 16,4 ft/s (325 cc motors)         5 m/s / 16,4 ft/s (400 cc motors)           Delimbing speed (200 l/min)         5 m/s / 16,4 ft/s (400 cc motors)         6 m/s / 19,7 ft/s (325 cc motors)           Knives         1+3         1+4           Feed rollers         2         2           4 Hydraulic chain saw:         2         2           Saw chain         0,404"         0,404"           Max length of bar         64         64           Chain oil fill         4 l / 1,06 gal         4 l / 1,06 gal           Hydraulics:           Required oil flow         150-200 l/min / 40-53 gpm         40-53 gpm           Operating pressure         28 Mpa / 4,060 PSI         28 Mpa / 4,060 PSI           Operating voltage	Weight from	680 kg / 1,500 lbs	720 kg / 1,590 lbs
Max opening of rear knife         520 mm / 20,4"         520 mm / 20,4"           Max sawing diameter         540 mm / 21,2"         540 mm / 21,2"           Delimbing diameter (knives circling the tree)         330 mm / 12,9"         330 mm / 12,9"           Optimal tree diameter less than         250 mm / 9,8"         280 mm / 11"           Delimbing force (28 Mpa)         19 kN / 4,270 lbf (400 cc motors)         19 kN / 4,270 lbf (400 cc motors)           List kn / 3,370 lbf (325 cc motors)         15 kN / 3,370 lbf (325 cc motors)         5 m/s / 16,4 ft/s (400 cc motors)           Delimbing speed (200 l/min)         5 m/s / 16,4 ft/s (400 cc motors)         6 m/s / 19,7 ft/s (325 cc motors)           Knives         1+3         1+4           Feed rollers         2         2           Hydraulic chain saw:         2         2           Saw chain         0,404"         0,404"           Max length of bar         64         64           Chain oil fill         41 / 1,06 gal         41 / 1,06 gal           Hydraulics:         28 Mpa / 4,060 PSI         28 Mpa / 4,060 PSI         28 Mpa / 4,060 PSI           Operating pressure         28 Mpa / 4,060 PSI         28 Mpa / 4,060 PSI         28 Mpa / 4,060 PSI           Operating voltage         24V 15A         24V 15A           CARRIER	Max opening of rollers	420 mm / 16,5"	420 mm / 16,5"
Max sawing diameter         540 mm / 21,2"         540 mm / 21,2"           Delimbing diameter (knives circling the tree)         330 mm / 12,9"         330 mm / 12,9"           Optimal tree diameter less than         250 mm / 9,8"         280 mm / 11"           Delimbing force (28 Mpa)         19 kN / 4,270 lbf (400 cc motors)         19 kN / 4,270 lbf (400 cc motors)           List kn / 3,370 lbf (325 cc motors)         5 kN / 3,370 lbf (325 cc motors)         5 kN / 3,370 lbf (325 cc motors)           Delimbing speed (200 l/min)         5 m/s / 16,4 ft/s (400 cc motors)         6 m/s / 19,7 ft/s (400 cc motors)           Knives         1+3         1+4           Feed rollers         2         2           Saw chain         0,404"         0,404"           Max length of bar         64         64           Chain oil fill         41/1,06 gal         41/1,06 gal           Hydraulics:           Required oil flow         150-200 l/min / 40-53 gpm         40-53 gpm           Operating pressure         28 Mpa / 4,060 PSI         28 Mpa / 4,060 PSI           Operating voltage         24V 15A         24V 15A           CARRIER recommendation:         8-13 tn / 10-13 tn / 10-13 tn / 17,600-28,600 lbs         22,000-28,600 lbs	Max opening of front knives	480 mm / 18,9"	480 mm / 18,9"
Delimbing diameter (knives circling the tree)  Optimal tree diameter less than  Delimbing force (28 Mpa)  Delimbing force (28 Mpa)  19 kN / 4,270 lbf (400 cc motors)  15 kN / 3,370 lbf (325 cc motors)  Delimbing speed (200 l/min)  Delimbing speed (	Max opening of rear knife	520 mm / 20,4"	520 mm / 20,4"
(knives circling the tree)       250 mm / 9,8"       280 mm / 11"         Delimbing force (28 Mpa)       19 kN / 4,270 lbf       19 kN / 3,370 lbf       15 kN / 3,370 lbf       15 kN / 3,370 lbf       325 cc motors)       (325 cc motors)       (325 cc motors)       (325 cc motors)       6 m/s / 19,7 ft/s       (325 cc motors)       (325 cc motors)       325 cc motors)       Knives       1+3       1+4       1+4       Feed rollers       2       2       2       2       4       4       4       4       4       64	Max sawing diameter	540 mm / 21,2"	540 mm / / 21,2"
Delimbing force (28 Mpa)  19 kN / 4,270 lbf (400 cc motors)  (400 cc motors)  15 kN / 3,370 lbf (325 cc motors)  Delimbing speed (200 l/min)  5 m/s / 16,4 ft/s (400 cc motors)  6 m/s / 19,7 ft/s (400 cc motors)  Knives  1+3  1+4  Feed rollers  2  2  Hydraulic chain saw:  Saw chain  0,404"  Max length of bar  Chain oil fill  4 l / 1,06 gal  4 l / 1,06 gal  Hydraulics:  Required oil flow  150-200 l/min / 40-53 gpm  Operating pressure  28 Mpa / 4,060 PSI  Operating voltage  24V 15A  CARRIER recommendation:  Excavator or rubber wheel harvester weight  15 kN / 4,270 lbf (400 cc motors)  (400 cc moto		330 mm / 12,9"	330 mm / 12,9"
(400 cc motors)   (400 cc motors)	Optimal tree diameter less than	250 mm / 9,8"	280 mm / 11"
(325 cc motors)   (325 cc motors)	Delimbing force (28 Mpa)	-	
(400 cc motors)   (400 cc motors)		-	-
(325 cc motors)   (325 cc motors)	Delimbing speed (200 l/min)		
Feed rollers         2         2           Hydraulic chain saw:           Saw chain         0,404"         0,404"           Max length of bar         64         64           Chain oil fill         41/1,06 gal         41/1,06 gal           Hydraulics:           Required oil flow         150-200 l/min / 40-53 gpm         150-200 l/min / 40-53 gpm           Operating pressure         28 Mpa / 4,060 PSI         28 Mpa / 4,060 PSI           Operating voltage         24V 15A         24V 15A           CARRIER recommendation:           Excavator or rubber wheel harvester weight         8-13 tn / 17,600-28,600 lbs         10-13 tn / 22,000-28,600 lbs		_	-
Hydraulic chain saw:   Saw chain   0,404"   0,404"     Max length of bar   64   64     Chain oil fill   41/1,06 gal   41/1,06 gal     Hydraulics:   Required oil flow   150-200 l/min / 40-53 gpm   40-53 gpm     Operating pressure   28 Mpa / 4,060 PSI   28 Mpa / 4,060 PSI     Operating voltage   24V 15A   24V 15A     CARRIER recommendation:   Excavator or rubber wheel harvester   8-13 tn / 10-13 tn / weight   17,600-28,600 lbs   22,000-28,600 lbs	Knives	1+3	1+4
Saw chain         0,404"         0,404"           Max length of bar         64         64           Chain oil fill         41/1,06 gal         41/1,06 gal           Hydraulics:           Required oil flow         150-200 l/min / 40-53 gpm         150-200 l/min / 40-53 gpm         28 Mpa / 4,060 PSI           Operating pressure         28 Mpa / 4,060 PSI         28 Mpa / 4,060 PSI           Operating voltage         24V 15A         24V 15A           CARRIER recommendation:         Excavator or rubber wheel harvester weight         8-13 tn / 17,600-28,600 lbs         10-13 tn / 22,000-28,600 lbs	Feed rollers	2	2
Max length of bar       64       64         Chain oil fill       4 I / 1,06 gal       4 I / 1,06 gal         Hydraulics:         Required oil flow       150-200 l/min / 40-53 gpm       150-200 l/min / 40-53 gpm         Operating pressure       28 Mpa / 4,060 PSI       28 Mpa / 4,060 PSI         Operating voltage       24V 15A       24V 15A         CARRIER recommendation:         Excavator or rubber wheel harvester weight       8-13 tn / 17,600-28,600 lbs       10-13 tn / 22,000-28,600 lbs	Hydraulic chain saw:		
Chain oil fill         4 I / 1,06 gal         4 I / 1,06 gal           Hydraulics:         Required oil flow         150-200 I/min / 40-53 gpm         150-200 I/min / 40-53 gpm           Operating pressure         28 Mpa / 4,060 PSI         28 Mpa / 4,060 PSI           Operating voltage         24V 15A         24V 15A           CARRIER recommendation:         Excavator or rubber wheel harvester weight         8-13 tn / 10-13 tn / 17,600-28,600 lbs         22,000-28,600 lbs	Saw chain	0,404"	0,404"
Hydraulics:         Required oil flow       150-200 l/min / 40-53 gpm       150-200 l/min / 40-53 gpm         Operating pressure       28 Mpa / 4,060 PSI       28 Mpa / 4,060 PSI         Operating voltage       24V 15A       24V 15A         CARRIER recommendation:         Excavator or rubber wheel harvester weight       8-13 tn / 10-13 tn / 17,600-28,600 lbs       22,000-28,600 lbs	Max length of bar	64	64
Required oil flow	Chain oil fill	4 I / 1,06 gal	4 I / 1,06 gal
40-53 gpm   40-53 gpm	Hydraulics:		
Operating voltage         24V 15A         24V 15A           CARRIER recommendation:           Excavator or rubber wheel harvester weight         8-13 tn / 10-13 tn / 17,600-28,600 lbs         22,000-28,600 lbs	Required oil flow		
CARRIER recommendation:  Excavator or rubber wheel harvester weight 17,600-28,600 lbs 22,000-28,600 lbs	Operating pressure	28 Mpa / 4,060 PSI	28 Mpa / 4,060 PSI
Excavator or rubber wheel harvester weight         8-13 tn / 17,600-28,600 lbs         10-13 tn / 22,000-28,600 lbs	Operating voltage	24V 15A	24V 15A
weight 17,600-28,600 lbs 22,000-28,600 lbs	CARRIER recommendation:		
Engine power required 65-80 kW / 87-107 hp 65-80 kW / 87-107 hp			
	Engine power required	65-80 kW / 87-107 hp	65-80 kW / 87-107 hp

Kesla reserves the right for any alterations. 4/2020.