

## LUS

**Alta performance o tempo todo, em qualquer lugar.**

A lavadora LUS foi desenvolvida para oferecer qualidade, economia de água e energia, durabilidade e versatilidade. Destaca-se por sua robustez, praticidade e eficiência. Com funcionamento em baixa rotação, é ideal para trabalhar em serviços contínuos (maior vida útil). Além de ser testada e regulada na fábrica, obedece rígidos padrões de produção e qualidade.

### Features/Carácter

- Crankcase in gray cast iron / Cárter en hierro fundido gris;
- 1045 steel pistons with high surface hardness (1000 vickers) / Pistones en acero 1045, con elevada dureza superficial (1000 vickers);
- Lubrication of gaskets and pistons: lithium-based grease through grease fittings / Lubricación de las juntas y pistones: grasa a base de litio por medio de boquillas de engrase;
- Piston sealing: chevron gasket with vulcanized rubber / Sellado de los pistones: junta tipo chevron de goma lonada;
- Nodular cast iron heads, connecting rods (semi-mechanisms) and crankshafts / Cabezas, bielas (semi-mecanismos) y cigüeñal en hierro nodular;
- Bearing support: ball bearings / Cojinetes: rodamiento de esferas;
- Valves: disc type in acetal and stainless steel / Válvulas: tipo disco en acetal y acero inox;
- Safety, relief and pressure control system through valve incorporated into the head / Sistema de seguridad, alivio y regulación de presión por medio de válvula incorporada al cabezal;
- Crankcase lubrication through oil bath / Lubricación del cárter a través de baño de aceite.



### VERSIONS / VERSIONES

MODEL MODELO	VERSIONS WITHOUT MOTOR VERSIONES SIN MOTOR		VERSIONS WITH MOTOR VERSIONES CON MOTOR			
	Washing Machine Lavadora	Washing machines + hose Lavadora + mangueira	Connection type Tipo de conexión	Washing machines + motor Lavadora + Motor	Washing machines + hose + motor Lavadora + Mangueira + Motor	Washing Machine + Hose + Motor + Trolley Lavadora + Mangueira + Motor + Carrito
LUS 500 PSI	170.0500-6	-	Mono.	170.0500-4	170.0500-2	170.0501-9
			Tri.	170.0500-3	170.0500-1	170.0502-0
LUS 600 PSI	170.0600-6	-	Mono.	170.0600-4	170.0600-2	-
			Tri.	170.0600-3	170.0600-1	-
LUS 800 PSI	170.1000-3	170.1000-4	Mono.	-	-	-
			Tri.	170.1000-2/S	170.1000-1/S	-



General Catalog of  
Washing Machines  
Catálogo General de  
Lavadoras

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BY SCHULZ



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# LINE LÍNEA SOMAR WASHING MACHINES LAVADORAS SOMAR



The line of **Somar by Schulz** Washing Machines was especially developed to offer quality, savings and durability. They feature low speed operation, that is, they are ideal for working for as many hours as you wish.  
*La línea de lavadoras Somar by Schulz ha sido especialmente desarrollada para ofrecer calidad, ahorro y durabilidad. Presentan funcionamiento en baja rotación, es decir, son ideales para trabajar durante la cantidad de horas que necesite.*

**LONGER SERVICE LIFE**  
..... **MAYOR VIDA ÚTIL**

## • FACTORY TESTED / COMPROBADAS EN LA FÁBRICA

All Somar by Schulz washing machines, without exception, are **100% FACTORY TESTED** and must comply with strict standards of quality and repeatability - technical proof of tests comes from the fact that our machines - of any model - leave the factory **with OIL in the crankcase** (which provides safety, confidence and guarantee of immediate operation of the product when installed). *Todas las lavadoras Somar by Schulz, sin excepción, son 100% VERIFICADAS EN LA FÁBRICA y deben obedecer a rígidas normas de calidad y repetitividad – la comprobación técnica de la prueba está en el aspecto que nuestras máquinas – de cualquier modelo – están equipadas de fábrica, desde el lanzamiento, con ACEITE en el cárter (lo que proporciona seguridad, confianza y garantía de operación inmediata del producto al ser instalado).*

## • HIGH PERFORMANCE AND DURABILITY / ALTO RENDIMIENTO Y DURABILIDAD

The pistons/plungers of LUS washing machines are manufactured to provide high operating performance: Extremely high surface hardness (1000 Vickers or more). All washing machines must be operated with clean water (solids free), which ensures greater service life for pistons/plungers and sealing systems: water (gasket set) and oil (oil seals).

*Los pistones/émbolos de las lavadoras LUS son fabricados para que proporcionen alto rendimiento en tránsito: Altísima dureza superficial (1000 Vickers o más). Todas las lavadoras deben trabajar con agua limpia (libre de sólidos) lo que garantiza mayor durabilidad de los pistones/émbolos y de los sistemas de sellado: agua (conjunto juntas) y aceite (retenes).*



## LRS

- Stainless steel pistons with high surface hardness / Pistones en acero inoxidable, con elevada dureza superficial;
- Piston sealing - system with gasket set / Sellado de los pistones - sistema con conjunto de juntas;
- Bearing support with ball bearings / Cojinetes con rodamiento de esferas;
- Provides pressure regulating, relief and safety valve / Dispone de válvula reguladora de presión, alivio y seguridad;
- 100% factory tested / 100% verificadas en fábrica;
- Provided with oil in the crankcase (ready for use) / Disponible con aceite en el cárter (lista para usar);

### Optional items: Opcionales:

(on request / bajo consulta)

- ① Hose / Manguera
- ② Trolley / Carrito
- ③ Electric start / Partida eléctrica



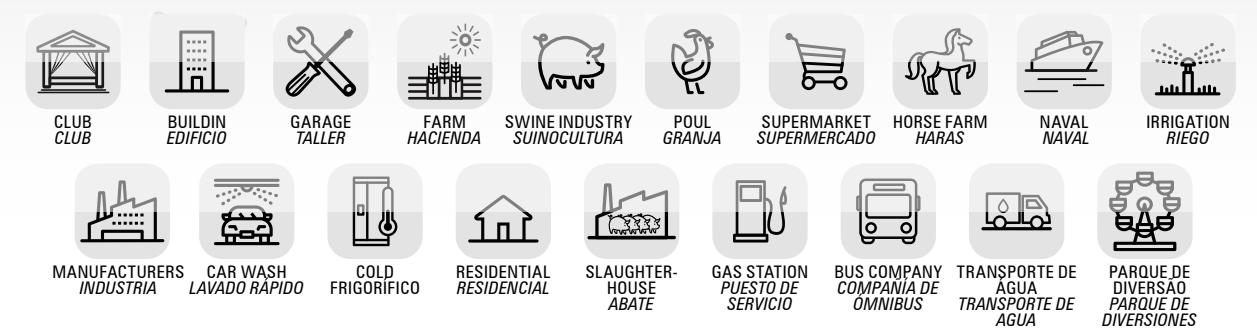
## VERSIONS / VERSIONES

MODEL MÓDULO	POWER (cv) POTENCIA (cv)	VERSIONS WITHOUT MOTOR VERSIONES SIN MOTOR		VERSIONS WITH MOTOR VERSIONES CON MOTOR			TROLLEY CARRITO
		Washing Machine Lavadora	Washing machines + hose Lavadora + manguera	Connection type Tipo de conexión	Washing machines +motor Lavadora + Motor	Washing machines +hose + motor Lavadora + Manguera + Motor	
LRS 350	2,0	17015001	17015002	Mono. Tri.	17015003 17015004	17015005 17015006	
LRS 400	2,0			Mono. Tri.	-	-	17015819 17015818
LRS 450	3,0	17015019	17015020	Mono. Tri.	17015007 17015008	17015009 17015010 (IP21) 17015018 (IP55)	
PUMPING UNIT LRS	2,0 a 3,0		17015501	-	-	-	

## • APPLICABILITY / APPLICABILIDAD

Somar by Schulz washing machines can be used in a variety of applications, including:

*Las lavadoras Somar by Schulz pueden utilizarse en varias aplicaciones, de las cuales se destacan:*



! Note: The user shall not use the product for washing himself/herself as it may be harmful to health.  
*Obs.: el usuario no deberá utilizar el producto para lavarse, porque puede ser perjudicial a la salud.*

## TECHNICAL DATA

MODEL MÓDULO	POWER (cv) POTENCIA (cv)	BELT CORREA	CONNECTION CONEXIÓN	PRESSURE PRESSURE		FLOW CAUDAL		NO. PISTONS N.º PISTONES	ROTATION (rpm) ROTACIÓN (rpm)	Ø NOZZLE Ø BOQUILLA mm	SHL* m	WHASHING LAVADO				
				TYPE	MONOF.	TRIF.	Ibf/pol <sup>2</sup> ibf/pulg <sup>2</sup>	bar	l/min	l/h						
LUS 500	2,0	VA 35	•	•			500	34	22	1.320	3	1.750	450	2,7	10	M/P
LUS 600	3,0	VA 36	•	•			600	42	15	900	3	1.750	450	2,6	10	M/P
LUS 800	4,0	VA 37	•	•			800	56	25	1.500	3	1.750	450	2,6	10	EP
LUS AGROLAV	**	TRACTOR	-	-			700	48	18	1.080	3	540	540	2,2	10	P/EP
LRS 350	2,0	VA 35	•	•			350	25	20	1.250	3	1.750	450	3,2	10	M/P
LRS 450	3,0	VA 35	•	•			450	32	26	1.600	3	1.750	450	3,5	10	M/P

\*\*SHL - Standard Hose Length; \*\* For tractors with power above 5.0 hp.

\*CPM (por su sigla en portugués- Longitud Patrón de la Manguera; \*\* Para tractores con potencia por encima de 5,0 cv.

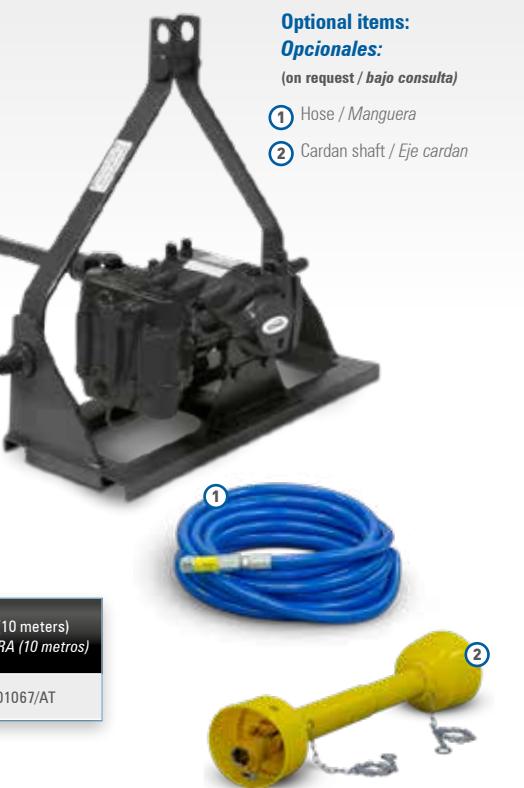
## LUS AGROLAV

- Crankcase and head in gray cast iron / Cárcer y cabezal en hierro fundido gris;
- 1045 steel pistons with high surface hardness (1000 vickers) / Pistones en acero 1045, con elevada dureza superficial (1000 vickers);
- Lubrication of gaskets and pistons: lithium-based grease through grease fittings / Lubricación de las juntas y pistones: grasa a base de litio por medio de boquillas de engrase;
- Piston sealing: chevron gasket with vulcanized rubber / Sellado de los pistones: boquilla de engrase tipo chevron de goma lonada;
- Nodular cast iron heads, connecting rods and crankshafts / Cabezales, bielas y boquillas en hierro fundido nodular;
- Bearing support: ball bearings / Cojinetes: rodamientos de esferas;
- Valves: disc type in acetal and stainless steel / Válvulas: tipo disco en acetal y acero inox;
- Safety, relief and pressure control system with valve incorporated into the head / Sistema de seguridad, alivio y regulación de presión con válvula incorporada al cabezal;
- Crankcase lubrication through oil bath / Lubricación del cárcer por medio de baño de aceite;
- Activation by trolling motor shaft coupled to power plug (tractors with a minimum power of 5 HP) - No. of revolutions (nominal): 540 rpm (minimum 450 rpm and maximum 800 rpm) / Accionamiento por eje cardán acoplado a la toma de fuerza (tractores con potencia mínima de 5 CV) - n° de rotaciones (nominal): 540 rpm (mínima 450 rpm y máxima 800 rpm);
- Support adapted to tractor ready for use / Soporte adaptador al tractor listo para usar.

### Optional items: Opcionales:

(on request / bajo consulta)

- ① Hose / Manguera
- ② Cardan shaft / Eje cardán



## VERSIONS / VERSIONES

MODEL MÓDULO	POWER (cv) POTENCIA (cv)	WITH HOSE CON MANGUERA	WITH TROLLING MOTOR SHAFT CON EJE CARDÁN + MANGUERA	HOSE (10 meters) MANGUERA (10 metros)
LUS AGROLAV	**	170.1100-3/S	170.1100-1/S	55001067/AT

\*For tractor with power over 5.0 hp;

## WASHING TYPES / TIPOS DE LAVADO

L: washing surfaces without incrustation, surfaces with little dirt, applications close to hobbies (medium pressure with low flow). E.g.: sweeping entrails in cold stores, industrial processes, continuous washing, etc.

P: removal of incrustations and sweeping surfaces with little dirt, applications close to hobbies (medium pressure with low flow). E.g.: washing sidewalks, low circulation courtyards, etc.

EP: removal of heavy incrustation, dirt with difficulty of removal. E.g.: washing cars, trucks, condominiums, garages, industrial processes, etc.

M: washing surfaces with little incrustation, dirt with difficulty of removal. E.g.: washing vessels, surfaces with high flow of vehicles, machines, implements and agricultural tractors, industrial applications, etc.

## TECHNICAL OBSERVATIONS / OBSERVACIONES TÉCNICAS

- LRS 350/450 models with motor option IP-21 (single phase 110 / 127-220V or three-phase 220 / 380V) or motor IP-55 (single phase 220 / 440V or trifásico 220 / 380V)
- For other washing machines motors IP-55 - 1750 rpm - 60 Hz - Single phase 220 / 440V or Three phase 220 / 380V;
- The LRS models have Ø 3/8" hose;
- Steel pistons coated with hard chrome;
- Machines calibrated in factory to work with 10 meters of 2" hose. In case of using lengths greater than 10 m, there will be a drop in the machine working pressure;
- Maximum suction height at sea level: 4 meters. Install in the suction a filter for retention of solids, when there is possibility of sand and dirt in the water;
- Maximum pumped water temperature: 40°C. Use only the standard Somar wash nozzles that come with all machines. Any other nozzle gauge, however similar, will change machine operation and cause electric and mechanical damage.